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**EUROPE AND CENTRAL ASIA
REGIONAL
OVERVIEW OF
FOOD SECURITY
AND NUTRITION**

**THE ROLE OF MIGRATION,
RURAL WOMEN AND YOUTH
IN SUSTAINABLE DEVELOPMENT**

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LUGANSK, DONBASS REGION, UKRAINE. A small-scale farmer pouring milk.

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Food and Agriculture Organization of the United Nations
Budapest, 2018

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FOREWORD

In adopting the 2030 Agenda for Sustainable Development and its ambitious goals for a more sustainable and equitable world, countries and their international partners also committed to regular monitoring and progress reporting.

A comprehensive framework of targets and indicators was developed for the 17 Sustainable Development Goals (SDGs), and FAO was designated custodian United Nations agency for 21 of those indicators. Of these, nine relate to Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture, by 2030.

FAO's *Regional Overview of Food Security and Nutrition in Europe and Central Asia 2018 (Regional SOFI 2018 in ECA)* describes the current situation vis-à-vis SDG 2 in countries of the Europe and Central Asia (ECA) region. It focuses in particular on the countries' status in relation to SDG Target 2.1 (to ensure access to food for all) and Target 2.2 (to end all forms of malnutrition).

The *Regional SOFI 2018 in ECA* reports on the prevalence of severe food insecurity in ECA countries – based on food insecurity experience scale (FIES) surveys. The prevalence of severe food insecurity is an experience-based metric that helps determine the severity with which people experience food insecurity in terms of their access to food. It complements the prevalence of undernourishment (PoU) indicator, traditionally used by FAO to analyse the extent of hunger.

Initial analysis of the data on severe food insecurity shows that adult women have a higher prevalence of severe food insecurity than men in the Caucasus, Central Asia, and European CIS subregions – pointing to gender inequalities in societies that are reflected in access to food and food insecurity. To address this, coordinated measures are needed at all levels.

The emphasis on nutrition in the 2030 Agenda for Sustainable Development constitutes a major opportunity for the ECA region to address

malnutrition and related issues, stepping up efforts as called for in the Rome Declaration on Nutrition and Framework for Action of the Second International Conference on Nutrition (2014) and the United Nations Decade of Action on Nutrition (2016–2025).

Interlinkages between these developmental challenges and actions taken to address them are examined in the *Regional SOFI 2018 in ECA*. The publication provides an in-depth situation analysis of SDG Targets 2.1 and 2.2, the state of micronutrient deficiencies in the ECA region, and the prevalence of severe food insecurity based on the FIES surveys. It also offers an overview of new and existing government policy initiatives to achieve the SDG 2 targets addressing all dimensions of food security, interlinkages with other Goals, and prevailing challenges such as poverty and inequality.

The publication's focus this year is on migration, gender and youth and the linkages with rural development and food security in Europe and Central Asia. Migration processes that have characterized the region are changing. They need to be fully understood if we are to address the challenges of migration and harness the potential benefits – for sustainable development and revitalized rural areas.

The complexity of the sustainable development agenda and the multiple interlinkages among the SDGs demand coordinated national and international efforts, key policy decisions, joint endeavours, and a scaling up of successful efforts. This work needs to be supported by solid evidence and analysis, to which the *Regional SOFI 2018 in ECA* is a critical contribution.



VLADIMIR RAKHMANIN

Assistant Director-General and Regional Representative for Europe and Central Asia

KEY MESSAGES

PART I: OVERVIEW OF FOOD SECURITY AND NUTRITION IN EUROPE AND CENTRAL ASIA

→ The Europe and Central Asia (ECA) region is heterogeneous in terms of the countries' economic structure, rate of economic growth and transition, geographic position, climatic conditions, and various socio-demographic features.

→ The ECA countries are committed to achieving Sustainable Development Goal 2 (SDG 2), improving food security and nutrition, and indeed food security has improved substantially over the past two decades. However, new evidence points to a stagnation of the decreasing trend in food insecurity in recent years in some subregions, particularly in Central Asia.

→ While the overall malnutrition situation in the ECA region has improved, overweight among children and obesity among adults continue to rise and now constitute a significant issue. Meanwhile, stunting and wasting remain prevalent in some places, particularly in rural and remote areas.

→ In the three-year period from 2015 to 2017, about 19 million people (14.3 million adults and 4.7 million children) in the region suffered from severe food insecurity, according to the new Food Insecurity Experience Scale (FIES)-based indicator.

→ This means that about 2.1 percent of the region's population are affected by a severe level of food insecurity, according to the FIES.

→ This prevalence is far lower than the world average of 9.2 percent, but still is of concern in some countries. Considerable efforts will be needed to ensure that we "leave no one behind" on the road to achieving SDG Target 2.1, ensuring access to food for all. It will mean addressing key underlying issues such as poverty, economic inequality, conflict and social tensions, and other factors.

→ Initial findings across the region show that inequality between women and men in the prevalence of severe food insecurity varies by subregion. Adult women were found with a higher rate of severe food insecurity than men in the Caucasus, Central Asia, and European CIS subregions in 2015–17. This signals more fundamental gender inequalities in societies, reflected in access to food as well as food utilization. To ensure that all people, regardless of gender, have adequate food and nutrition, immediate measures are needed at all levels and in different policy areas.

→ Malnutrition in one or more of its three main forms – undernutrition, overweight and obesity, and micronutrient deficiencies – is present to varying degrees in all countries of the region. Often all three forms coexist, creating what is called the "triple burden of malnutrition."

→ Malnutrition problems are more prevalent in remote and rural areas. Based on recent nutrition surveys, stunting among children is more prevalent in the poorest groups in almost all countries. In some countries in Central Asia, stunting among the poorest groups in rural areas was nearly twice as high as in cities. This underlines the importance of addressing the underlying conditions in poor rural areas of poverty, long-term insufficient nutrient intake, poor diets, and frequent infections.

→ Millions still suffer from micronutrient deficiencies – in particular anaemia, which occurs at significant levels in many countries, including in high-income countries. Anaemia in women of child-bearing age is on the rise, constituting an important public health problem. Addressing it will require gender-sensitive policy approaches and careful monitoring of their implementation.

→ The growing levels of overweight and obesity in the region are cause for serious concern. A recent World Health Organization analysis covering the 2000–2016 period show a continuous increase in the prevalence of obesity among adults in all subregions of the ECA region. In 2016, one-fourth of adults in Europe (EU-28 and European CIS), and more than 32 percent of adults in Turkey, were obese. These trends and related

public health implications and costs underscore a need for adequate policy measures and more effective, long-term multi-sectoral nutrition programming. Efforts need to be well informed and underpinned by regular data collection and analysis – to track progress and address shortcomings.

PART II: REGIONAL AND NATIONAL POLICY DRIVERS TO SUPPORT ACHIEVING SDG 2 TARGETS

→ In order to implement the 2030 Agenda, a range of policy measures are being adopted at subregional and national levels. The SDGs offer a coherent framework for national implementation plans. To achieve Sustainable Development Goal 2, these policy frameworks and related programmes need to consider the food system as a whole. They need to address all four dimensions of food security – availability, access, utilization and stability – and nutrition.

→ Governments, public and private institutions, and other concerned parties need to collaborate to increase their impact. Various types of partnerships are forming in the region to strengthen food security and nutrition as well as agricultural and rural development.

→ Recent country policy measures targeting the agriculture sector include agricultural support instruments, price regulation, market stabilization and rural development for improving food availability and stability.

→ Poverty levels in most of the ECA countries have been declining in recent years as a result of regional economic growth. However, in low- and lower-middle-income countries, poverty coupled with inequality leads to increased vulnerability of disadvantaged groups and populations in rural and remote areas. In order to “leave no one behind”, policies and institutional systems should be carefully designed to assure social security, healthcare and education.

→ Alongside dedicated programmes on improving nutrition and promoting balanced and diversified diets,

strategic policy documents and measures focus on food utilization. These aim to improve nutrition and address the region’s coexisting malnutrition challenges. Institutional reforms and other measures are also being undertaken in the area of food safety control and inspection to enhance food safety across the entire food system.

→ Different policy measures have been adopted recently in the ECA region to improve food access, including social protection and food assistance. Food assistance programmes include vouchers and food subsidies, food transfer programmes, cash transfers, and school feeding programmes. Food and livelihood assistance and support programmes play an important role in supporting populations affected by conflict or in post-conflict situations and in assisting refugees and their host communities.

→ Monitoring the implementation of policy measures adopted for food security and nutrition needs to be supported by data on all forms of malnutrition (in particular micronutrient deficiencies), disaggregated by gender, social groups, and at subnational level.

PART III: MIGRATION, GENDER AND YOUTH: LINKAGES WITH RURAL DEVELOPMENT AND FOOD SECURITY IN EUROPE AND CENTRAL ASIA

→ Among the development challenges and opportunities faced by the ECA region, migration requires greater attention due to its demographic and socioeconomic dimensions. Migration is linked in multiple ways to agricultural and rural development – both as a driver and as a possible source of development opportunities. Labour migration and remittances play a significant role.

→ The ECA region ranks second in the world for receiving migrants: 78 million international migrants of the total 258 million worldwide in 2017. Western Europe was the top destination for international migrants. The Russian Federation hosted over 11 million international migrants, with half coming from neighboring countries.

KEY MESSAGES

→ A large share of international migrants in the ECA region are labour migrants from rural areas. Low agricultural productivity and a poor rural economy were major drivers of migration. Economic drivers of migration are further exacerbated by the impacts of climate change and weather variability in the region.

→ Along with economic migration, the ECA region witnessed an increase in recent years in both internally displaced and refugee populations. At the end of 2017, internally displaced people numbered about 4 million in the ECA region, an estimated 1.8 million of them in Ukraine. Turkey hosted the largest number of refugees worldwide (3.9 million), mainly from Syria.

→ Remittance flows in 2017 were estimated at USD 44 billion within the ECA region. Remittances have become an important source of income, in particular for the population of Central Asia, lifting millions of families out of poverty in recent years. After a decline in remittances observed in certain areas of the ECA region during 2014–16, remittance growth rates rebounded in 2017 and are projected to continue increasing in 2018, remaining at the highest annual growth rate in the world. For the countries of Central Asia and Azerbaijan, the Russian Federation was the main source of remittances.

→ Remittances have made a significant contribution to national economies (more than 30 percent of the GDP in Kyrgyzstan and Tajikistan, for example) and have become an important and stable source of income for many households, reducing poverty and food insecurity.

→ In the ECA region, 52 percent of international migrants are women, compared to 48.4 percent globally. The feminization of migration, along with increasing youth migration, are emerging as clear trends in the countries of the region. This has important implications for social and family dynamics and for the vulnerability of children, the elderly, and disabled groups.

→ Unemployment, which is one of the main drivers of migration among people aged 15–24, is above the

world average in many ECA countries. The average recorded unemployment rate for women is much higher than for men. For young women, migration is a contributing factor to their employment and empowerment, increasing their decision-making authority within families and communities. On the other hand, young women are particularly vulnerable to the risks associated with migration, which can outweigh the economic benefits. Rural women who stay behind face particular challenges. These risks for women can be mitigated by targeted programmes and services focused on women, particularly in rural areas.

→ Despite the many benefits migration might bring to communities of origin, there are concerns that rural areas have lost a significant share of their young and educated labour force, which will negatively affect agriculture and rural development if not adequately addressed and supported.

→ The impact of remittances on agriculture is mixed, and developing tailored support programmes can promote the positive effects of migration on agricultural and rural development. Case studies from Republic of Moldova and Tajikistan show that management of financial flows can turn remittances into investments, support agriculture, improve rural livelihoods, and even provide employment opportunities for youth in their home countries.

→ Food insecurity, poverty and unemployment, effects of climate change, and overuse of natural resources are all “push” factors for internal migration and urbanization. To better understand the drivers of migration, up-to-date information and monitoring of migration processes and their impact on rural livelihoods are needed.

→ Analysis of evidence and experience gained by countries of origin will inform measures aimed at mitigating the negative consequences of migration and harnessing its development potential. Support measures for migrants returning to their country of origin, and the potential for rural development to offer alternative livelihood options to the involuntary migration, are areas that deserve greater attention and investment.

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ACRONYMS AND ABBREVIATIONS

ADB	Asian Development Bank	IMF	International Monetary Fund
BMI	Body mass index	IOM	International Organization for Migration
BIH	Bosnia and Herzegovina	IDP	Internally displaced person
CA	Central Asia	IFAD	International Fund for Agricultural Development
CAP	Common agricultural policy	MDG	Millennium Development Goals
CIS	Commonwealth of Independent States	NCD	Non-communicable disease
DES	Dietary energy supply	PoU	Prevalence of undernourishment
ECA	Europe and Central Asia	PPP	Purchasing power parity
EEU	Eurasian Economic Union	PoSFI	Prevalence of Severe Food Insecurity using the Food Insecurity Experience Scale
EU	European Union	SDG	Sustainable Development Goal
FAO	Food and Agriculture Organization of the United Nations	SOFI	The State of Food Security and Nutrition in the World
FIES	Food Insecurity Experience Scale (based on Gallup World Poll)	WFP	World Food Programme
FSN	Food Security and Nutrition	WHO	World Health Organization
GDP	Gross domestic product	USD	United States dollar(s)
HLPE	High Level Panel of Experts on Food Security and Nutrition	UN DESA	United Nations Department of Economic and Social Affairs
ICN2	Second International Conference on Nutrition	UNSD	United Nations Statistics Division

INTRODUCTION

In a world facing multiple, complex challenges, the 2030 Agenda for Sustainable Development commits the international community to acting together to surmount those challenges – for the benefit of present and future generations.

The Sustainable Development Goals (SDGs) – adopted by all countries in 2015 – renewed and revitalized the commitment to ending hunger and malnutrition, with special attention to the vulnerable and to rural areas. Goal 2, to “end hunger, achieve food security and improved nutrition and promote sustainable agriculture” by 2030 (FAO, 2017e) also has close links to other SDGs, including SDGs 1, 5, 6, 12, 13, 15, and 17.¹

Working in partnership with IFAD, WFP, WHO, and UNICEF, the Food and Agriculture Organization of the United Nations (FAO) is well equipped to fulfil its role as custodian agency for food security and nutrition indicators and related targets. Since 2017, FAO has aligned its monitoring functions at global, regional and country levels to measure progress towards achievement of the SDG 2 food security and nutrition targets.

With little more than a decade left in which to achieve “zero hunger” and reach related targets, success is put at risk by the effects of climate change, weather variability, depleting natural resources, and increased armed conflicts.

New evidence confirms the increase in hunger worldwide recorded in recent years, after a prolonged period of decline. Approximately one in nine people in the world is undernourished. At the same time, a “triple burden” of malnutrition is evident in many countries. Through different pathways (FAO *et al.*, 2018), food insecurity contributes to undernutrition, to overweight and obesity, and to micronutrient deficiencies.

The *Regional Overview of Food Security and Nutrition in Europe and Central Asia 2018* complements FAO’s annual global report, *The State of Food Security and Nutrition in the World*. It provides a more in-depth analysis of how countries in the region are progressing towards food security and nutrition targets. It also offers an overview of recent policy decisions and drivers of food security and nutrition outcomes. Finally, it examines the linkages in the region among migration, gender, youth, rural development, and food security. With this last, the publication adds to our understanding of migration processes in the region, the challenges they present, and their potential to contribute to sustainable development.



**KARAKOL,
KYRGYZSTAN**

Visitors eat in the bazaar
cafe at the market in Karakol,
350 km from Bishkek.
©FAO/ Vyacheslav Oseledko





PART 1
OVERVIEW OF
FOOD SECURITY
AND NUTRITION
IN EUROPE AND
CENTRAL ASIA

OVERVIEW OF FOOD SECURITY AND NUTRITION IN EUROPE AND CENTRAL ASIA

In the framework of the 2030 Agenda for Sustainable Development, Sustainable Development Goal 2 aims to end hunger, achieve food security, improve nutrition and promote sustainable agriculture. It is a comprehensive goal covering the four dimensions of food security (food availability, access, utilization and stability) and nutrition, and it requires the systematic monitoring of progress made towards the SDG 2 indicators to provide valuable and regular evidence to Member States, regional bodies and international organizations. FAO has committed to monitoring trends in food security and nutrition at global, regional and national levels, jointly with its partners, within the framework of the 2030 Agenda for Sustainable Development.

The Europe and Central Asia region is heterogeneous in terms of the composition of the countries² and their economic structures, rates of economic growth and transition, and other socio-demographic features and geographical and climatic conditions. It is composed of Western European countries, the transition economies in Central and Eastern Europe, and countries in the Caucasus and Central Asia. More than half of the region's countries are members or candidates for membership in the European Union, and many of them are already extending technical or policy assistance to neighboring countries. The Eurasian Economic Union is also expanding its role in the region.

The countries of the region have committed to achieving SDG 2 to improve food security and nutrition. While the region as a whole has made major progress towards eradicating hunger, it has not yet overcome problems related to food security and nutrition for all, and concerns remain regarding the persistence of the triple burden of malnutrition – overweight and obesity in combination with undernourishment and micronutrient deficiencies.

Part I assesses the food security and nutrition situation based on data issued in 2018 and on updated estimates for countries in Europe and Central Asia. It describes the progress made in the region in two key areas: (i) food insecurity and hunger, based on the Prevalence of Undernourishment (PoU) indicator and level of severe food insecurity shown by the Food Insecurity Experience Scale (FIES); and (ii) malnutrition, based on SDG Indicator 2.2.1 on stunting and SDG Indicator 2.2.2 on wasting and overweight among children younger than five. It also considers the state of micronutrient deficiency, including anaemia and deficiencies in vitamin A, zinc and iodine, as well as possible under-nutrition outcomes such as low birth weight.

THE 2018 ASSESSMENT OF HUNGER AND FOOD INSECURITY IN THE ECA REGION

Prevalence of Undernourishment (SDG Indicator 2.1.1)

The prevalence of undernourishment (PoU) is a measurement of hunger and food insecurity and one of two indicators under SDG Target 2.1. The PoU indicator is an estimate of the proportion of the population whose habitual food consumption is insufficient to provide the dietary energy levels that are required to maintain a normal active and healthy life.

The prevalence of undernourishment is based on the comparison of usual food consumption expressed in terms of dietary energy (kcal) against energy requirements. The part of the population »

TABLE 1
SDG 2 TARGETS AND INDICATORS COVERED IN PART I

Targets	Indicators
2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round.	2.1.1 Prevalence of undernourishment. 2.1.2 Prevalence of moderate or severe food insecurity in the population, based on the Food Insecurity Experience Scale (FIES).
2.2 By 2030, end all forms of malnutrition, including achieving, by 2025, the internationally agreed targets on stunting and wasting in children under five years of age, and address the nutritional needs of adolescent girls, pregnant and lactating women, and older persons.	2.2.1 Prevalence of stunting (height for age < 2 standard deviation from the median of the World Health Organization (WHO) Child Growth Standards) among children under five years of age. 2.2.2 Prevalence of malnutrition (weight for height >+2 or < 2 standard deviation from the median of the WHO Child Growth Standards) among children under five years of age, by type (wasting and overweight).

SOURCE: Report by the Inter-Agency and Expert Group on SDG Indicators (IAEG–SDGs) (United Nations, 2017c).

BOX 1 THE DEFINITION AND METHODOLOGY OF THE PREVALENCE OF UNDERNOURISHMENT CALCULATION

The prevalence of undernourishment (PoU) is an estimate of the percentage of individuals in a population who have insufficient food consumption. The indicator is calculated with reference to a population, represented by the probability distribution of the habitual daily dietary energy intake levels of the “average individual”. The parameters of the distribution are estimated using available information on national food supplies, on the distribution of food consumption across households or individuals, and on the characteristics of the population that determine dietary energy

requirements. The cumulative probability of habitual consumption levels for this average individual that are below the lower bound of the range of normal requirements is taken as an estimate of the PoU. The indicator has been used by FAO since 1996 to monitor the World Food Summit Target and, later, Millennium Development Goal Target 1C at national, regional and global levels. The indicator has made it possible to monitor trends in dietary energy inadequacy in the world population, in addition to differences across countries and regions.

SOURCE: Nord, Cafiero and Viviani (2016).

- » with food consumption below the energy requirement norm is considered undernourished.

The ECA region has achieved Millennium Development Goal 1C to halve the proportion of undernourished people, with undernourishment decreasing to less than five percent in the region between 1990 and 2015. All countries in the region have made considerable progress in reducing the incidence of food insecurity. However, the pace of progress has slowed recently.

The analysis of the PoU across the ECA region during the period 2004–2017 shows the progress

made – especially the progress registered in the countries of Central Asia, where the average PoU decreased from 11 percent in 2004–06 to six percent in 2015–17, and in the Caucasus, where a decrease from 6.4 percent to 3.3 percent was recorded during the same period (Table 2). At country level, a significant decrease of the PoU was observed in Armenia, Azerbaijan, Kazakhstan, Kyrgyzstan and Uzbekistan, while a slight increase was observed in Turkmenistan and Ukraine (Figure 1).

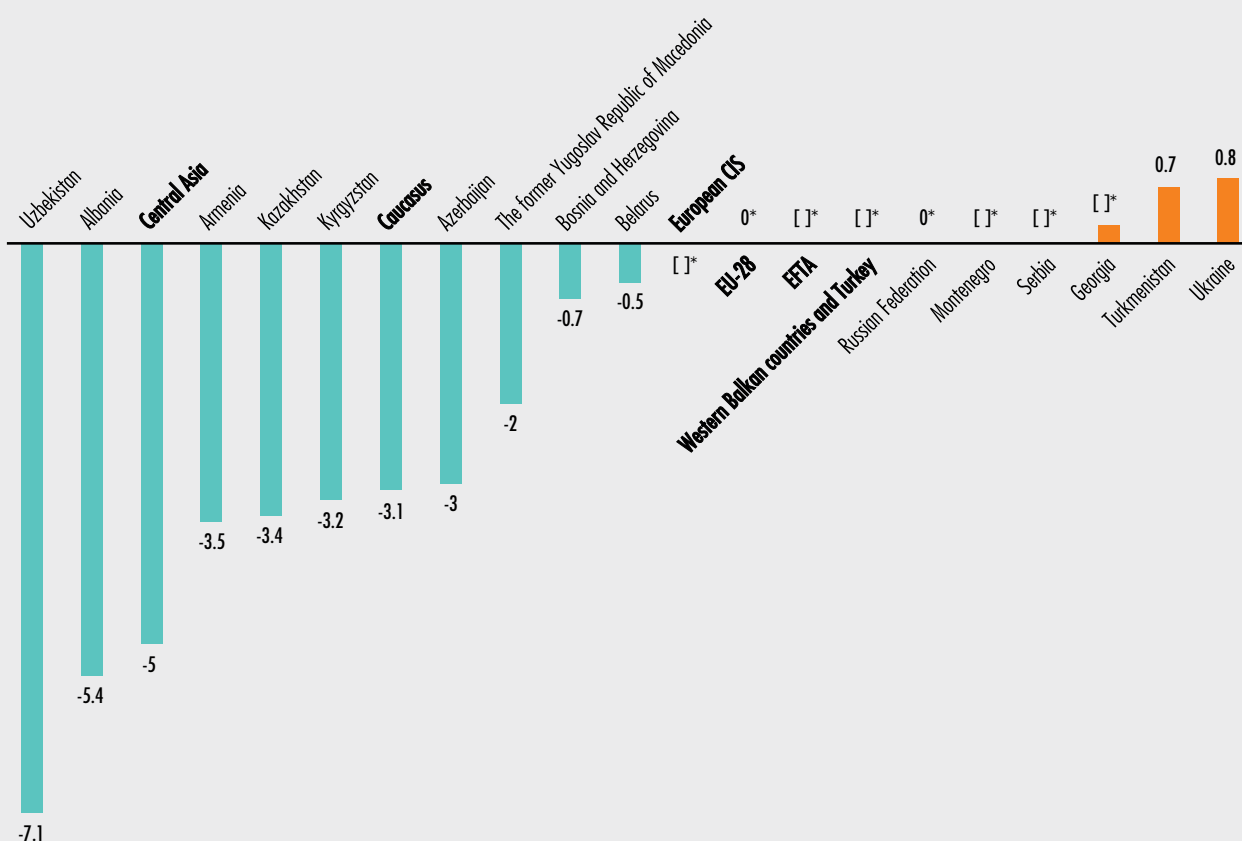
Nevertheless, despite such significant progress in fighting hunger across the subregions, several ECA countries still have a comparatively high

TABLE 2
PREVALENCE OF UNDERNOURISHMENT (%) IN THE ECA REGION, 2004–2017

	2004-2006	2010-2012	2015-2017
CAUCASUS	6.4	4.3	3.3
Armenia	7.8	5.6	4.3
Azerbaijan	5.5	< 2.5	< 2.5
Georgia	7.2	8.1	7.4
CENTRAL ASIA	11.0	6.7	6.0
Kazakhstan	5.9	2.7	< 2.5
Kyrgyzstan	9.7	7.8	6.5
Tajikistan	n.a.	n.a.	n.a.
Turkmenistan	4.8	4.9	5.5
Uzbekistan	14.5	8.2	7.4
EUROPEAN CIS	< 2.5	< 2.5	< 2.5
Belarus	3.0	< 2.5	< 2.5
Republic of Moldova	n.a.	n.a.	n.a.
Russian Federation	< 2.5	< 2.5	< 2.5
Ukraine	< 2.5	< 2.5	3.3
WESTERN BALKAN COUNTRIES AND TURKEY	< 2.5	< 2.5	< 2.5
Albania	10.9	6.6	5.5
Bosnia and Herzegovina	3.2	< 2.5	< 2.5
The former Yugoslav Republic of Macedonia	6.1	4.6	4.1
Montenegro	-	< 2.5	< 2.5
Serbia	-	6.0	5.6
Turkey	< 2.5	< 2.5	< 2.5
EU-28	< 2.5	< 2.5	< 2.5
EFTA	< 2.5	< 2.5	< 2.5

NOTE: Estimates are presented in three-year averages.
SOURCE: FAO (2018).

FIGURE 1
ECA COUNTRIES AND SUBREGIONS – CHANGES (PERCENTAGE POINTS) IN THE PREVALENCE
OF UNDERNOURISHMENT, 2005–2017



NOTE: The prevalence was below 2.5 percent in both 2005 and 2017.
 SOURCE: FAO (2018).

prevalence of undernourishment (Table 2). The prevalence of undernourishment remains an issue of concern in Georgia (7.4 percent), Uzbekistan (7.4 percent), Kyrgyzstan (6.5 percent), Serbia (5.6 percent), Turkmenistan (5.5 percent) and Albania (5.5 percent). No PoU estimates for 2015–2017 were available for the Republic of Moldova or for Tajikistan at the time of this report's preparation.

While the number of undernourished people in Central Asia decreased by 32 percent (from 6.5 million to 4.4 million) from 2005 to 2017, Central Asia still had the highest PoU in the ECA region (6.2 percent) in 2017.

The decreasing trend of the prevalence of undernourishment observed during recent decades, however, appears to be stagnating. It is estimated that the PoU in the Central Asia subregion increased to 6.2 percent in 2017 from 5.8 percent in 2015 (Figure 2). The number of undernourished people increased from 4 million in 2015 to 4.4 million in 2017 (Figure 2). A slight decrease was observed during 2015–2017 in the Caucasus subregion, where the PoU dropped from 3.3 percent in 2015 to 3.2 percent in 2017. PoU estimates for other subregions are not reported, because the prevalence is estimated to be lower than the 2.5-percent threshold used for measuring PoU.

Among the factors contributing to the stagnation observed in the decreasing trend in food insecurity in Central Asia are the changes in the situation for migrants, since most countries in Central Asia are reliant on remittances from labour migrants to the Russian Federation. The recent economic downturn in that country has led to higher unemployment and/or job insecurity, which raises concerns regarding the impacts on food security. Further details on the linkages between remittances and food security in the ECA region are examined in Section 3.

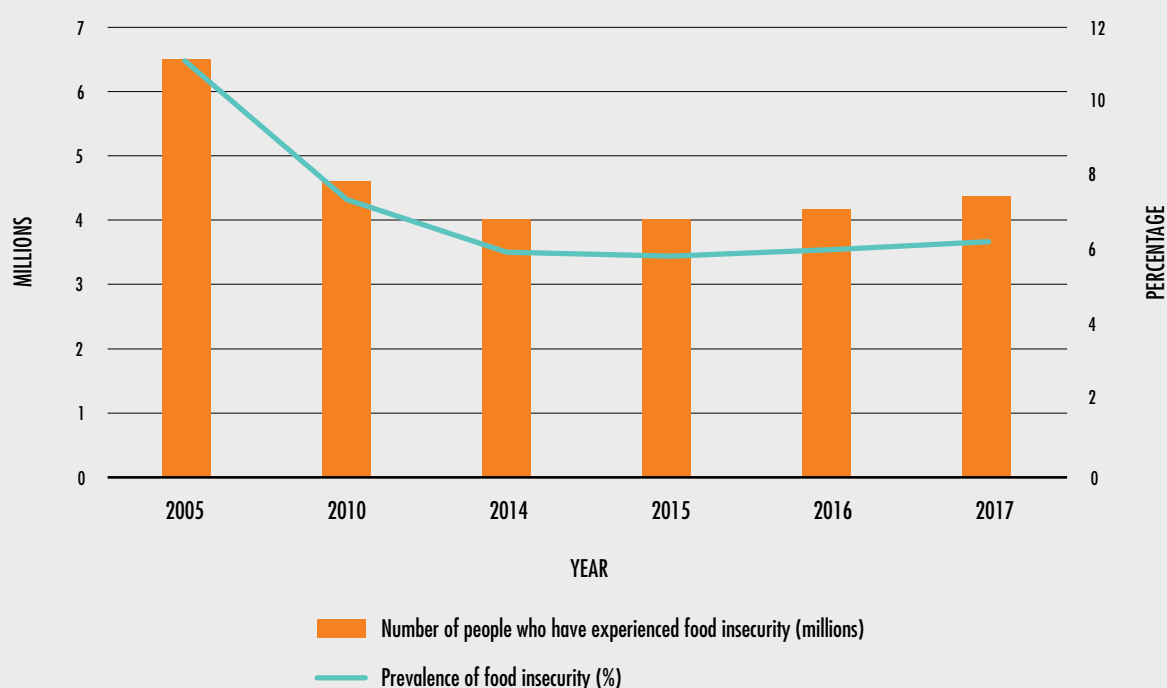
During the same period, the number of undernourished people is estimated to have further increased at the global level, after a long period of progress towards reduced food insecurity. According to 2018 estimates from *The State of Food Security and Nutrition in the World*, the number of undernourished people appears to have increased

to 820.8 million in 2017 from 784.4 million in 2015, or to 10.9 percent of the population from 10.6 percent in 2015; this raises major concerns and calls for a scaling up of efforts to revert this detrimental trend.

Prevalence of severe food insecurity in the ECA region, based on the Food Insecurity Experience Scale (SDG Indicator 2.1.2)

In 2017, *The State of Food Security and Nutrition in Europe and Central Asia* presented, for the first time, estimates of the prevalence of severe food insecurity based on the Food Insecurity Experience Scale (FIES) (FAO, 2016a). The prevalence of severe food insecurity refers to a person's capacity to access food (Box 2). The PoU and FIES indicators are complementary in food

FIGURE 2
PREVALENCE OF UNDERNOURISHMENT AND NUMBER OF UNDERNOURISHED PEOPLE (POU, SDG INDICATOR 2.1.1) IN CENTRAL ASIA, 2005–2017



SOURCE: FAO (2018).

BOX 2 CALCULATION OF THE SEVERE AND MODERATE PREVALENCE OF FOOD INSECURITY, BASED ON THE FOOD INSECURITY EXPERIENCE SCALE

The Food Insecurity Experience Scale (FIES) is a methodology for producing reliable and timely information regarding people's ability to access food. It is based on eight simple questions about the occurrence of behaviors and experiences typical of situations in which the ability to obtain food is constrained. The combined set of answers to the eight FIES items, analysed through the lenses of rigorous methods based on item response theory, gives an opportunity for assigning each respondent a probability of belonging to any possible class of food insecurity. FIES builds on two decades of FAO experience in the use of similar tools in various countries and is based on established practice in the fields of psychometrics and educational testing.

Using FIES helps FAO develop an analytical methodology for computing indicators of the prevalence of food insecurity that are formally comparable across countries and cultures, including household or individual food security, based on an annual global survey. The indicator is calculated from data gained by people's direct responses to eight questions regarding their access to food of adequate quality and quantity. FAO's data comes from the annual Gallup World Poll, which involves respondents 15 years of age or older in more than 150 countries. It is used in the FIES module on food insecurity (FAO, 2017c, 2017p) for the calculation of the food insecurity prevalence (SDG Indicator 2.1.2). FIES assesses those with severe food insecurity ("experiencing hunger") or who experience moderate food insecurity, meaning that the family may compromise on the quality and quantity of food, skip meals or experience hunger.

SOURCE: Nord, Cafiero and Viviani (2016).

The questionnaires of the FIES survey module for individuals (FIES SM-I) were used in random surveys in 2014, 2015, 2016 and 2017 to discover and assess the state of food security using the following questions:

During the last 12 months, was there a time when:

1. You were worried you would not have enough food to eat because of a lack of money or other resources?
2. You were unable to eat healthy and nutritious food because of a lack of money or other resources?
3. You ate only a few kinds of foods because of a lack of money or other resources?
4. You had to skip a meal because there was not enough money or other resources to get food?
5. You ate less than you thought you should because of a lack of money or other resources?
6. Your household ran out of food because of a lack of money or other resources?
7. You were hungry but did not eat because there was not enough money or other resources for food?
8. You went without eating for a whole day because of a lack of money or other resources?

The answers to the above questions are classified in the following categories: worried, healthy, few foods, skipped meals, ate less, ran out of food, and hungry whole day. The answers determine one of three possible conclusions: mild food insecurity, moderate food insecurity, and severe food insecurity.

security analysis. The PoU reflects the level of undernourishment from the point of energy intake in calories for measuring regular food access, whereas the Prevalence of Severe Food Insecurity (PoSFI), as an experience-based measure, allows for the measurement of the severity of the food insecurity condition at household and individual levels.

The PoSFI implies a probability of people having been unable to access nutritious and diverse food that contributes to healthy diets and having been forced to reduce the quantities of food eaten as a result of lack of money or other resources (FAO, 2016a) (see [Box 2](#)). At severe level, an inability to regularly consume high-quality diets in adequate amounts can lead to varying degrees of under-nutrition and micronutrient deficiencies.

According to the FIES framework (Figure 3), the borders between mild, moderate and severe food insecurity stages are flexible, meaning that the impacts of different factors (e.g. price shocks, extreme events, trade policy changes, effects of climate change, etc.) can affect vulnerable households or individuals at any time, moving them from one level of food insecurity to another (FAO, 2018f). Therefore, in addition to the PoU, indicators of prevalence of moderate to severe food insecurity (PoMSFI) are used and collected through surveys, as per FIES methodology. This allows for the timely capture of changes in the situations of population groups resulting from the consequences of such developments as welfare reduction (reduction of other essential expenses, psychological costs), malnutrition (obesity, micronutrient deficiencies, undernutrition) or starvation (FAO, 2017).

The *Regional Overview of Food Security and Nutrition in Europe and Central Asia 2018* uses the estimates for severe food insecurity based on FIES for the regional analysis in 2018. According to the latest estimates in 2015–2017, 2.1 percent of the total population in the ECA region has been exposed to food insecurity at a severe level (PoSFI). This prevalence in the ECA region is much lower than the world average, which was 9.2 percent during the same period. However, the year-on-year change in the PoSFI from 2015 to

2017 shows an increasing trend in the Central Asia subregion, from 1.7 percent in 2015 to 3.5 percent in 2017. This coincides with a gradual increase in the PoU (Figure 2). More in-depth studies will be needed to investigate the causes of the recent increase observed.

The regional breakdown of the share of severe (PoSFI) food insecurity among people differs significantly by country and subregion (Table 3). For example, in EU-28 subregion it is 1.6 percent, in Central Asia 2.6 percent and in the Western Balkans and Turkey 6.2 percent. At country level, the prevalence is a subject of concern in Albania (10.5 percent), Georgia (8.9 percent), and Tajikistan (7.8 percent).

The relatively high level of PoSFI in some countries in the region indicates that economic access to food is still an issue of concern. The overall availability of food is not a severe problem in the ECA region, as is shown by the high dietary energy supply, which exceeds population energy requirements in almost all countries in the region (FAO 2017p), including in the countries and subregions that have relatively high PoSFI. Household income and livelihoods largely affect economic access to food, but high market prices of basic food items also limit their economic access, particularly among lower-income groups who spend a large share of their income for purchasing food.

FIGURE 3
FIES FRAMEWORK AND LEVELS OF FOOD INSECURITY: MILD, MODERATE AND SEVERE FOOD INSECURITY



SOURCE: FAO (2013c), pp. 23–25.

TABLE 3
PREVALENCE OF SEVERE FOOD INSECURITY BASED ON FIES IN THE ECA REGION, 2015–2017

	Prevalence of Severe Food Insecurity (%)	Population (thousands)
Central Asia	2.6	69 777.5
Caucasus	2.9	16 577.2
EU-28	1.6	508 209.6
Western Balkans and Turkey	6.2	97 486.7
European CIS	1.0	201 924.2
Europe and Central Asia	2.1	911 552.8

SOURCE: FAO, IFAD, UNICEF, WFP and WHO (2018).

A better understanding of the underlying causes of food insecurity is important for developing effective and targeted policies and programmes.

People who are in a situation of food insecurity meet their dietary energy needs by consuming less-expensive, lower-quality, energy-dense foods, for example, or by cutting back on other basic needs, with potentially negative consequences for their nutritional status. Vulnerability is influenced by factors affecting one or more dimensions of food security – such as market shocks (prices and infrastructure), droughts or floods, or instability and conflicts – combined with poverty, low incomes, lower access to adequate social protection, and inequality due to gender or age group.

In accordance with the FIES data collected by FAO (Table 4), 14.3 million adults in the ECA region suffered from severe food insecurity, on average, during 2015–2017. When including children in these estimates, there were 19 million people in the region who suffered from severe food insecurity during the same period.

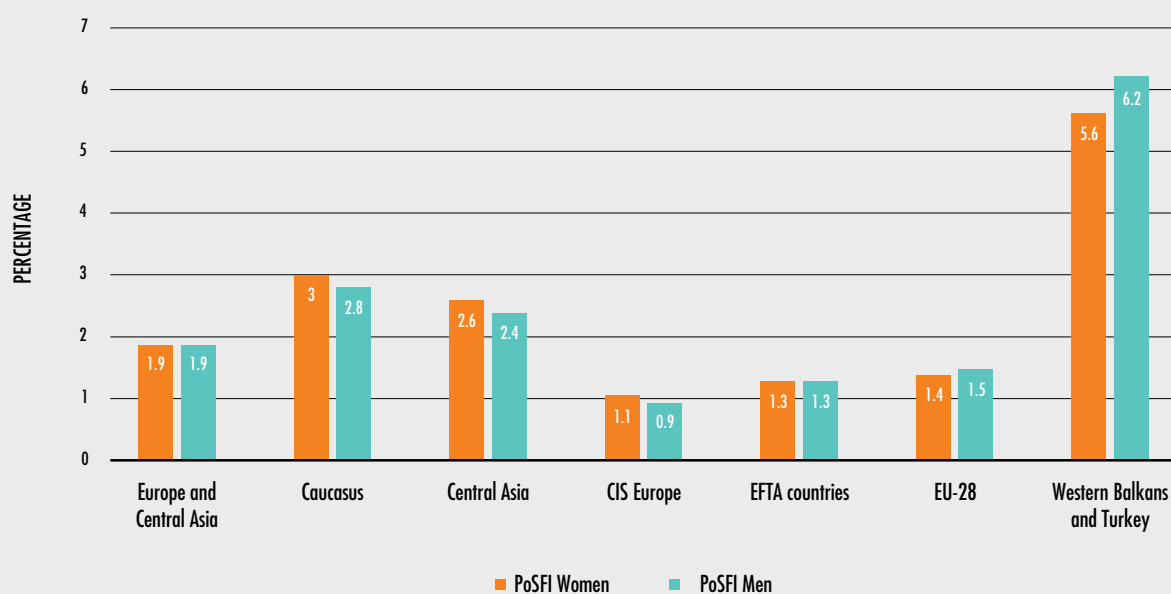
As the FIES survey was administered to individual respondents, one important feature is that the results can be analysed at the individual level. This makes it possible to compare food insecurity levels among men and women. Table 4 provides the breakdown of adults suffering from severe food insecurity by sex and reveals different situations for each subregion. Out of a total of 14.3 million adults in the ECA region who were severely food insecure in 2015–2017,

7.3 million were women, and 7 million were men. In terms of prevalence, the FIES data when disaggregated by sex (Figure 4) demonstrates that the prevalence of severe food insecurity is equal among women and men (1.9 percent) at the regional level. However, there are subregional differences, with a higher percentage of women in the Caucasus, Central Asia, and European CIS affected by severe food insecurity. The percentage is higher for men in the Western Balkans and Turkey and EU-28 subregions.

Greater food insecurity is usually associated with deprivation and poverty. The high inequality of the prevalence of severe food insecurity between women and men may signal significant social and economic inequalities. Structural barriers and social practices that perpetuate gender inequalities, including ownership of, access to and control over livelihood assets, also negatively and disproportionately affect women – especially expectant and nursing mothers who need special or increased food intake. Experience gained in other parts of the world suggests that strategies to improve livelihoods and ensure that women and men have the same economic opportunities, access to land, and economic power, are important for achieving greater food security and nutrition.³

To arrive at more efficient interventions that will ensure food security for all, regardless of their sex, there is a need in further region-specific research and analysis to improve our understanding of the links between gender and food insecurity.

FIGURE 4
PREVALENCE OF SEVERE FOOD INSECURITY BY SEX (%), 2015–2017, BASED ON FIES



SOURCE: FAO, IFAD, UNICEF, WFP and WHO (2018). Estimates are presented in three-year averages.

TABLE 4
NUMBER OF SEVERELY FOOD-INSECURE ADULTS (BY SEX AND AGE) AND TOTAL PEOPLE, INCLUDING CHILDREN (MILLIONS), 2015–2017

	SEVERE FOOD INSECURITY				Total Population (including children)	Total Population
	Women	Men	Total adults			
Europe and Central Asia	7.3	7.0	14.3	19.0	911.5	
Caucasus	0.2	0.0	0.4	0.5	16.5	
Central Asia	0.6	1.0	1.2	1.8	69.7	
European CIS	1.0	1.0	1.7	2.0	201.9	
EFTA countries	0.1	0.0	0.2	0.2	14.0	
EU-28	3.2	3.0	6.4	8.4	508.2	
Western Balkans and Turkey	2.2	2.0	4.5	6.2	97.4	

SOURCE: FAO, adapted by FAO REU and based on 2018 FIES Survey Data. Estimates are given in three-year averages.

1.2 TRIPLE BURDEN OF MALNUTRITION: A CONCERN IN THE ECA REGION

The Rome Declaration on Nutrition, one of the outcomes of the Second International Conference on Nutrition (ICN2) in 2014 (FAO & WHO, 2014), reiterates that malnutrition has many forms and commits countries to increase their investments in food systems to prevent all forms of malnutrition, particularly undernutrition in women and children, and to reverse the trend of increasing overweight and obesity. As a follow-up to the ICN2, 2016–2025 was proclaimed in 2016 as the Decade of Action on Nutrition by the United Nations General Assembly, with the aim of accelerating the implementation of the ICN2 commitments, achieving global nutrition and diet-related noncommunicable diseases targets by 2025, and contributing to the realization of the SDGs by 2030 (United Nations, 2018a).

Specifically, SDG Target 2.2 refers to ending all forms of malnutrition – including undernourishment, micronutrient deficiencies, overweight and obesity – and other manifestations resulting from inadequate food intake and aggravating social, economic, cultural, environmental and health conditions. It requires measurement and analysis of stunting, wasting and overweight and obesity among children younger than five, as well as of micronutrient deficiencies.

In addition to limited or unequal food access reflected in the PoSFI indicator, malnutrition remains a concern for ECA countries. The effects of economic development in the region have contributed to important shifts in diets. Also called the “nutrition transition”, this refers to changes in dietary patterns alongside demographic and epidemiological changes. According to the concept, higher level of incomes, the availability of cheaper but lower-quality foods, and changing lifestyles contribute to dietary choices with higher intakes of saturated fats, sugars and refined foods and lower intakes of fiber-rich foods. All of this is driven by technological advances that have made energy-dense, nutrient-poor foods cheaply available. This

consumption is often accompanied by an increasingly sedentary life, leading to an increasing prevalence of overweight and obesity and other diet-related non-communicable diseases (FAO, 2017p).

The region is characterized by the coexistence of undernutrition and overweight and obesity, with countries that have relatively high prevalence of more than one form of malnutrition. ECA countries can be divided into four broad categories with regard to the prevalent types of malnutrition (undernourishment, overweight and obesity, and micronutrient deficiencies): (1) those primarily affected by undernourishment and micronutrient deficiencies but with a relatively low prevalence of overweight and obesity; (2) countries with the triple burden of malnutrition, characterized by residual undernourishment, persisting micronutrient deficiencies and rapidly growing rates of obesity and overweight; (3) countries primarily affected by overweight and obesity as well as micronutrient deficiencies; and (4) countries where food security concerns are relatively low (FAO, 2017p; Traill, *et al.*, 2014).

Malnutrition in general is a major obstacle to socio-economic development in many countries due to its impact on the health of the population (with high social and public costs), learning ability (with a vast loss of human potential), and productivity (with greatly reduced work capacity). These deficiencies contribute to a vicious cycle of malnutrition, reduced development prospects and poverty, affecting already-disadvantaged groups. Preventing malnutrition would eventually reduce costs incurred for curative healthcare and social welfare needs while potentially making resources available for needed development activities (FAO & International Life Sciences Institute, 1997; WHO, 2018a; Levin, 1986; Strauss, *et al.*, 1986; Horton, *et al.*, 1998). Thus, understanding and addressing malnutrition remain key factors for progressing on the Sustainable Development Goals.

Malnutrition in children

Stunting, wasting and overweight among children younger than five are internationally recognized as important indicators of nutritional status. They are also part of the SDG monitoring framework. The prevalence of stunting in children younger

than five is the percentage with low height for age, reflecting the cumulative effects of under-nutrition since and even before birth. Wasting in children younger than five is the percentage with low weight for height, while overweight is an indicator of excessive weight for height and generally reflects an imbalance between food intake and energy expenditure.

Thresholds have been suggested to provide a guide for classifying the prevalence of child malnutrition. Table 5 shows classifications proposed by the World Health Organization and the United Nations Children’s Fund for undernutrition and overweight among children. For example, the prevalence threshold that is considered high for child stunting is 20 percent or higher, and for child overweight and wasting, ten percent or more is considered to be high prevalence.

According to these classifications, based on recent data, four countries in the ECA region have a medium prevalence of stunting (Azerbaijan, Kyrgyzstan, Tajikistan and Turkmenistan), whereas only one country falls into this category in terms of wasting (Tajikistan). This indicates that the nature of child undernutrition in the ECA region is chronic malnutrition, which could increase the risk of impaired cognitive ability and performance at school and work in the long term. It is worth noting that all the countries with moderate child stunting rates are also experiencing moderate or severe rates of anaemia among women. The coexistence of chronic undernutrition and micronutrient deficiency may have significant consequences on human and economic development through reduced productivity. Further studies are necessary to identify the extent of the problem at country level, to better understand the underlying causes of chronic under-nutrition and micronutrient deficiencies, and then to upscale actions to address these issues.

TABLE 5
CLASSIFICATION OF THE PUBLIC HEALTH SIGNIFICANCE OF MALNUTRITION AMONG CHILDREN YOUNGER THAN FIVE

Wasting		Stunting		Overweight	
Prevalence thresholds (%)	Labels	Prevalence thresholds (%)	Labels	Prevalence thresholds (%)	Labels
< 2.5	Very low	< 2.5	Very low	< 2.5	Very low
2.5-5	Low	2.5-9	Low	2.5-5	Low
5-9	Medium	10-19	Medium	5-9	Medium
10-14	High	20-29	High	10-14	High
≥ 15	Very high	≥ 30	Very high	≥ 15	Very high

SOURCE: de Onis, M., Borghi, E., Arimond, M., Webb, P., Croft, T., Saha, K., De-Regil, L. M., Thuita, F., Heidkamp, R., Krusevec, J., Hayashi, C. and Flores-Ayala, R. 2018. "Prevalence thresholds for wasting, overweight and stunting in children under 5 years," *Public Health Nutrition*. Cambridge University Press, pp. 1–5.

Table 6 presents the malnutrition (stunting, wasting, and overweight) situation among children younger than five in selected ECA countries. The results can be summarized as follows:

1. Stunting: While the prevalence of stunting, or low height for age, decreased in the ECA region during the past two decades, the prevalence remains at medium level in several countries (Table 6). There are still around two million children younger than five classified as stunting, mainly in the countries of Central Asia (FAO *et al.*, 2017, p. 94). Stunting strongly correlates with wasting, along with the underlying conditions

of poverty. It is caused by long-term insufficient nutrient intake, poor diets, and frequent infections, and it can result in delayed motoric development, impaired cognitive functioning, poor school performance, and immune system disorders (FAO *et al.*, 2017).

2. Wasting: Wasting, or low weight for height, is a strong predictor of mortality among children younger than five. Wasting reflects a reduction in or loss of body weight and is considered a relevant indicator of acute malnutrition. While wasting rates in the ECA region are considered low overall, according to the WHO classification

(Table 6), Tajikistan falls in the medium category. The estimated prevalence of wasting in ECA countries is well below the world average of 7.7 percent (FAO *et al.*, 2017).

3. Overweight: The level of overweight among children younger than five is of high concern in the ECA region. The prevalence is at high or very high levels in almost all countries, except

for the countries in Central Asia. While the world average of overweight among children younger than five is recorded at six percent, the prevalence is significantly higher in Montenegro, Serbia, Turkey and the countries of the Caucasus (FAO *et al.*, 2017, pp. 79–84). Overall, the number of overweight children younger than five in the ECA region is on the increase.

TABLE 6
MALNUTRITION AMONG CHILDREN YOUNGER THAN FIVE IN SELECTED ECA COUNTRIES: STUNTING, WASTING AND OVERWEIGHT, % OF POPULATION, 2016

	Wasting	Stunting	Overweight
Armenia	4.2	9.4	13.6
Azerbaijan	3.1	18.0	13.0
Kazakhstan	3.1	8.0	9.3
Kyrgyzstan	2.8	12.9	7.0
Tajikistan	5.6	17.4	6.6
Turkmenistan	4.2	11.5	5.9
Bosnia and Herzegovina	2.3	8.9	17.4
The former Yugoslav Republic of Macedonia	1.8	4.8	12.4
Montenegro	2.8	9.4	22.3
Serbia	3.9	6.0	13.9
Turkey	1.7	9.5	10.9

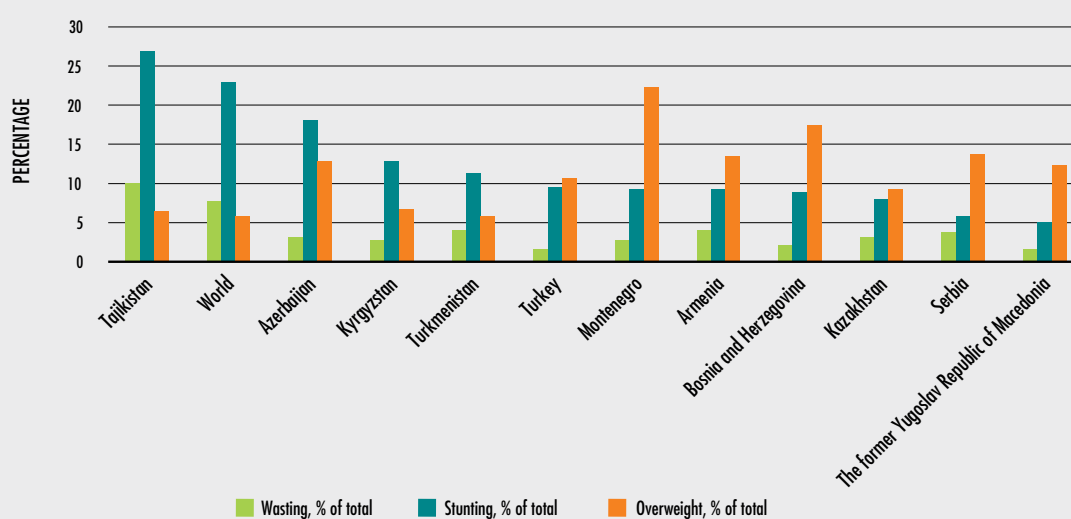
SOURCE: UNICEF, WHO and World Bank (2017). For the classifications of the public health significance of child malnutrition and the legends of the corresponding colors, see Table 5.

The prevalence of child overweight is high or very high in almost all countries in the ECA region. Paradoxically, child overweight rates are also high in the countries that have high rates of undernutrition (Table 6). This suggests a need for attention to disaggregated analysis by potential underlying factors such as income levels, nutritional knowledge and practices, and dietary patterns. The identification of underlying factors would help the formulation of effective intervention strategies targeted for the groups susceptible to different types of malnutrition.

While malnutrition can manifest in multiple ways, the paths to the prevention of each are virtually identical: adequate maternal nutrition before and during pregnancy and lactation; optimal breastfeeding in the first two years of

life, including exclusive breastfeeding up to 6 months of age; nutritious and safe foods in early childhood; and a healthy environment, including access to basic services and opportunities for physical activity. These key measures are achievable in the ECA region for making children free from malnutrition through effective and sustained multi-sectoral nutrition programming over the long term, tackling basic, underlying and immediate causes of malnutrition through an appropriate mix of nutrition-specific and nutrition-sensitive interventions, particularly in agriculture. The majority of ECA countries are taking relevant actions in the right direction (see Part II). At the same time, regular data collection for monitoring and analysing country, subregional and regional progress are required.

FIGURE 5
STUNTING, WASTING AND OVERWEIGHT AMONG CHILDREN YOUNGER THAN FIVE
IN SELECTED ECA COUNTRIES: % OF TOTAL, 2016



SOURCE: FAO, IFAD, UNICEF, WFP & WHO (2017).

Exclusive breastfeeding of infants age 0–6 months.

The prevalence of exclusive breastfeeding varies by country, and its prevalence at regional level (30 percent) is well below the world average of 43 percent, except in Turkmenistan (58.9 percent).

In Kyrgyzstan and the Central Asia subregion, the averages are close to the world average, at 41 percent and 40 percent, respectively (Table 7 and Figure 4).

TABLE 7
PREVALENCE OF EXCLUSIVE BREASTFEEDING IN SELECTED COUNTRIES OF THE ECA REGION, 2014–2016,
% OF POPULATION

	% of total	Period
Armenia	34.6	2005–2010
Azerbaijan	12.1	2005–2013
Belarus	19.0	-
Kazakhstan	37.8	2006–2015
Kyrgyzstan	41.1	2006–2014
Montenegro	16.8	2005–2013
Republic of Moldova	36.4	2005–2012
Serbia	12.8	2005–2013
Tajikistan	34.3	2006–2012
The former Yugoslav Republic of Macedonia	23.0	2005–2011
Turkey	30.0	2003–2014
Turkmenistan	58.9	2006–2015
Ukraine	19.7	2005–2012
Central Asia	40.0	-
World	43.0	-

SOURCE: UNICEF Global Database (2016).

Prevalence of obesity in the ECA region

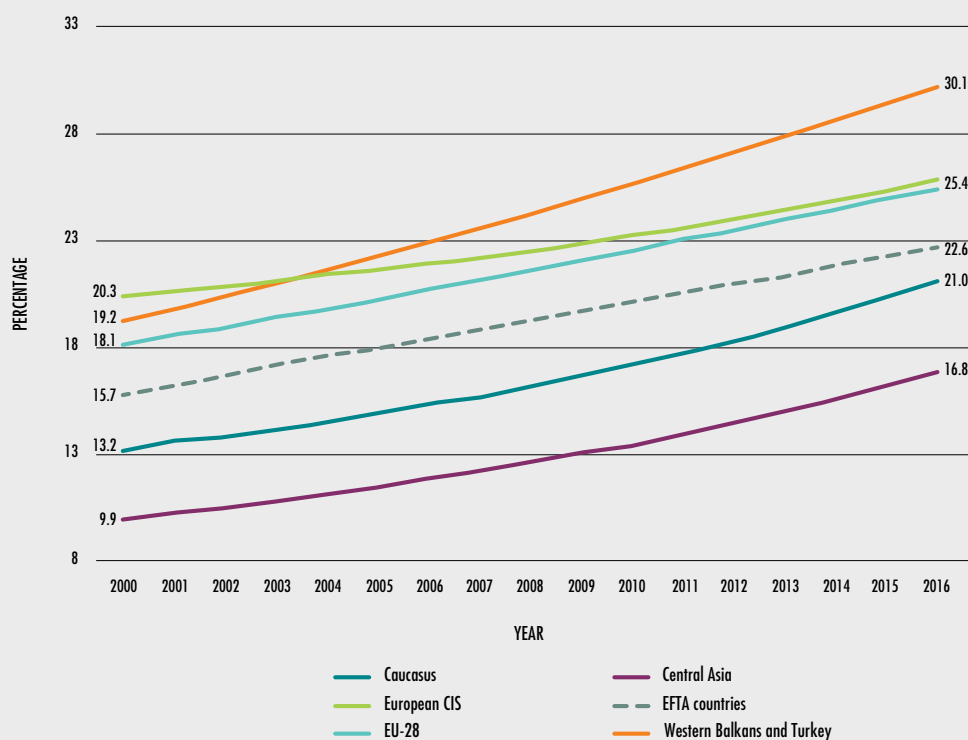
Obesity is an increasingly widespread phenomenon in the region. Overweight and obesity are defined as abnormal or excessive fat accumulation that may impair health. The body mass index (BMI) is a simple index of weight for height that is commonly used to classify overweight and obesity in adults. It is defined as a person's weight in kilograms divided by the square of his/her height in meters (kg/m²). For adults, WHO defines overweight and obesity as follows:

- overweight is a BMI greater than or equal to 25; and
- obesity is a BMI greater than or equal to 30.

The BMI provides the most useful population-level measurement of overweight and obesity, as it is the same for both sexes and for all ages of adults. However, it should be considered only an indicative guideline, because it may not correspond to the same degree of overweight and obesity in different individuals.

Worldwide, the total number of obese people has become greater than the number of underweight people, based on a study of body mass index trends between 1975 and 2014 (NCD Risk Factor Collaboration, 2016). However, the respective public health burdens of overweight and under-nourishment/micronutrient deficiencies are not quantified only in terms of the number of people affected. Relative effects on morbidity, longevity, lifetime social costs and inter-generational aspects need to be fully examined.

FIGURE 6
PREVALENCE OF ADULT OBESITY IN ECA BY SUBREGION, 2000–2016, AS % OF TOTAL POPULATION



SOURCE: WHO/NCD-RisC and WHO Global Health Observatory (2017).

WHO's recent analysis indicates a constant increase in the prevalence of obesity among adults of all ECA subregions during the period between 2000 and 2016 (Figure 7). In decreasing order, the highest rates of increase are seen in Central Asia (42.1 percent), Caucasus (37.6 percent), Western Balkans and Turkey (31.6 percent), Europe (23.9 percent), EFTA (23.4 percent), EU 28 (23.0 percent), and European CIS (17.9 percent).

By 2016, there were significant differences in the rates of adult obesity by subregion. The Western Balkans and Turkey had the highest prevalence of obesity (30.1 percent), followed by European CIS (25.7 percent), EU 28 (25.4 percent), EFTA (22.6 percent), Caucasus (21.0 percent), and Central Asia (16.8 percent). In the ECA region in 2016, 24.6 percent of the total population were obese, a figure representing 200 million obese people.

TABLE 8
PREVALENCE OF OBESITY AMONG ADULTS IN THE ECA REGION, 2005–2016

	2005 (%)	2016 (%)
Caucasus	13.2	21.0
Armenia	15.7	20.9
Azerbaijan	13.6	19.9
Georgia	16.4	23.3
Central Asia	11.4	16.8
Kazakhstan	15.4	21.3
Kyrgyzstan	10.1	15.4
Tajikistan	7.8	12.6
Turkmenistan	11.5	17.5
Uzbekistan	9.9	15.3
Western Balkans and Turkey	19.2	30.1
Albania	15.6	22.3
Bosnia and Herzegovina	15.2	19.4
The former Yugoslav Republic of Macedonia	19.2	23.9
Montenegro	19.6	24.9
Serbia	18.4	23.5
Turkey	23.1	32.3
European CIS	20.3	25.7
Belarus	21.7	26.6
Republic of Moldova	16.1	20.1
Russian Federation	21.6	25.7
Ukraine	21.7	26.1
EU-28	20.2	25.4
EFTA	15.7	22.6
World	9.6	12.8

SOURCE: WHO/NCD-RisC and WHO Global Health Observatory Data Repository (2017).

BOX 3 CAUSES AND CONSEQUENCES OF OBESITY AND OVERWEIGHT

What causes obesity and overweight?

The fundamental cause of obesity and overweight is an energy imbalance between calories consumed and calories expended. Globally, the following is observed:

- an increased intake of energy-dense foods that are high in fat or sugar; and
- an increase in physical inactivity due to the increasingly sedentary nature of many forms of work, changing modes of transportation, and increasing urbanization.

Changes in dietary and physical activity patterns are often the result of environmental and societal changes associated with development and a lack of supportive policies in sectors such as health, agriculture, food processing and distribution, food marketing and trade, environment, and education.

What are common health consequences of overweight and obesity?

An increased body mass index (BMI) is a major risk factor for non-communicable diseases such as: cardiovascular diseases (mainly heart disease and stroke), which were the leading cause of death in 2012; diabetes; musculoskeletal disorders (especially

osteoarthritis, a highly disabling degenerative disease of the joints); and some cancers (including endometrial, breast, ovarian, prostate, liver, gallbladder, kidney and colon). The risk for these non-communicable diseases increases with increases in BMI.

The World Health Organization has developed the “Global Action Plan for the Prevention and Control of Non-Communicable Diseases 2013–2020,” which aims to achieve the commitments of the United Nations Political Declaration on Non-Communicable Diseases (NCDs) that was endorsed by heads of state and governments in September 2011. The Global Action Plan aims to contribute to progress on nine global NCD targets to be attained by 2025, including a 25-percent relative reduction in premature mortality from NCDs and a halt in the rise of global obesity, to match the rates of 2010.

The World Health Assembly welcomed the report of the Commission on Ending Childhood Obesity (2016) and its six recommendations to address the obesogenic environment and critical periods in the life course to tackle childhood obesity. The implementation plan to guide countries in taking action to implement the recommendations of the Commission was welcomed by the World Health Assembly in 2017.

SOURCE: WHO (2018b).

Prevalence of micronutrient deficiency: anaemia

Micronutrient deficiency is a form of malnutrition caused by a dietary deficiency of vitamins or minerals. Vitamin A deficiency, iron deficiency anaemia and iodine deficiency disorders are the most common forms of micronutrient malnutrition. Iron deficiency anaemia is the most common and widespread nutritional disorder in the world. As well as affecting a large number of children and women, iron deficiency exacts its heaviest overall

toll in terms of ill health, premature deliveries among pregnant women and the loss of earnings due to low productivity. Iron deficiency and anaemia reduce the work capacity of individuals and entire populations, bringing serious economic consequences and obstacles to national development. Overall, it is the most vulnerable, the poorest and the least educated who are disproportionately affected by iron deficiency and who would benefit most by its reduction (FAO & International Life Sciences Institute, 1997; WHO, 2018a).

The analysis of the prevalence of anaemia shows a dynamic pattern among women of reproductive age in ECA from 2000–2016 (Figure 8). In 2016, there were significant differences among subregions. The Caucasus subregion showed the highest prevalence of anaemia among women (34.4 percent), followed by Central Asia (33.8 percent), the Western Balkans and Turkey (30.2 percent), European CIS (23.4 percent), EU 28 (18.7 percent), and EFTA (17.2 percent).

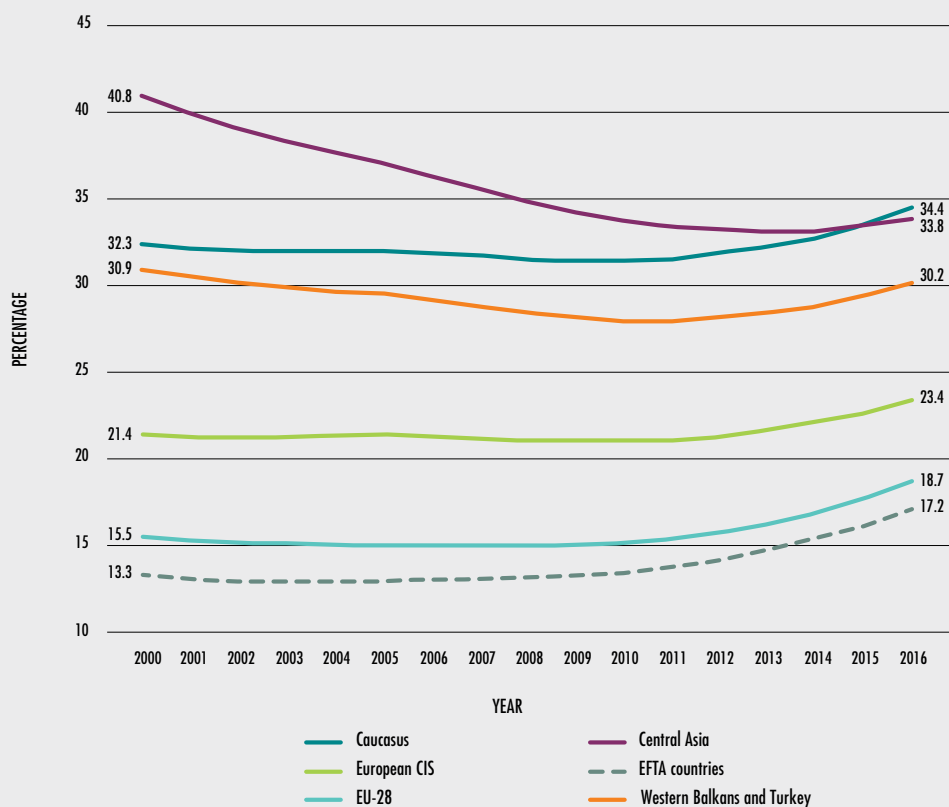
From 2000 to 2016, two subregions in ECA had a reduction of the prevalence of anaemia among women of reproductive age: Central Asia saw a decrease of 7.0 percentage points from the previous rate, and the prevalence in the Western Balkans and Turkey dropped 0.7 percentage points. In contrast, the other three subregions showed increases: EU 28 (5.4 percentage points), EFTA

(3.9 percentage points), Caucasus (2.1 percentage points), and European CIS (two percentage points).

The trend observed for all subregions since 2011 (Figure 7) shows a reversal in trends in the reduction of the prevalence of anaemia among women of reproductive age, including a stagnation in the long-term decreasing trend in Central Asia, reversal of the decreasing trend in the Western Balkans and Turkey, and a slowdown of progress in all other subregions.

By country (Table 9), there were three countries in which the prevalence of anaemia among women aged 15–49 in 2016 was higher than the world average of 32.8 percent (Azerbaijan, 38.5 percent; Kyrgyzstan, 36.2 percent; and Uzbekistan, 36.2 percent).

FIGURE 7
PREVALENCE OF ANAEMIA AMONG WOMEN OF REPRODUCTIVE AGE (15–49), 2000–2016



SOURCE: WHO/NCD-RisC and WHO Global Health Observatory Data Repository (2017).

TABLE 9
PREVALENCE OF ANAEMIA AMONG WOMEN AGED 15–49 IN SELECTED COUNTRIES OF THE ECA REGION, 2005–2017

	2005 (%)	2016 (%)
Caucasus		
Armenia	21.4	29.4
Azerbaijan	37.1	38.5
Georgia	28.5	27.5
Central Asia		
Kazakhstan	32.0	30.7
Kyrgyzstan	32.2	36.2
Tajikistan	34.8	30.5
Turkmenistan	33.5	32.6
Uzbekistan	42.8	36.2
Western Balkans and Turkey		
Albania	23.0	25.3
Bosnia and Herzegovina	27.1	29.4
The former Yugoslav Republic of Macedonia	17.0	23.3
Montenegro	22.7	25.2
Serbia	25.0	27.2
Turkey	30.8	30.9
European CIS		
Belarus	20.7	22.6
Republic of Moldova	27.0	26.8
Russian Federation	21.2	23.3
Ukraine	21.4	23.5
World	30.6	32.8

SOURCE: WHO/NCD-RisC and WHO Global Health Observatory Data Repository (2017).

According to WHO (2016) estimates of the worldwide prevalence of anaemia by regions and population groups, women and young children are most vulnerable to anaemia. A ten percent increase in hemoglobin in a moderately anaemic person results in a 10-to-20-percent increase in work output (Levin, 1986). Eliminating anaemia would increase adult productivity by 5 to 17 percent and gross domestic product by two percent in countries where anaemia prevalence is high (Strauss, *et al.*, 1986; Horton, *et al.*, 1998). Making progress in preventing the consequences of anaemia requires an integrated package of interventions delivered at scale to address the causes of anaemia.

Within the European Union, findings indicate that half of the low-income households in the Member States that have joined the EU more recently struggle with insufficient access to food (European Commission, 2018c). In addition to the rising prevalence of overweight (more than half of the adult EU population) and obesity, there is clinical evidence of rising micronutrient deficiencies in EU countries (Loopstra, *et al.*, 2015).

According to studies conducted by UNICEF (UNICEF, 2016b) on the national average of the prevalence of anaemia among women in the 15–49 age group (Table 9), differences within a country

have been observed at subnational levels, in urban vs. rural settings, and by age group. For example, in Tajikistan, the highest prevalence rates of anaemic women were found in Khatlon Region and in Gorno-Badakhshan Autonomous Region (34.3 percent and 31.8 percent, respectively), while those in Sughd and Dushanbe had a much lower prevalence of anaemia (19.4 percent and 20.0 percent, respectively). These regional variations were statistically significant. Significant differences also were observed in Tajikistan between women in rural areas (27.2 percent) and in urban areas (24.9 percent). The prevalence of anaemia was

higher in older women (27.7 percent in women between 25 and 40 years of age and 27.6 percent in women between 41 and 49 years of age) than in women and girls aged 15 to 24 (20.4 percent). These significant differences point to the need for greater attention to women in different areas and in different age groups.

Inadequate intake levels of vitamin A, iron, vitamin D, folic acid, iodine and calcium are the primary causes of micronutrient deficiencies for all age groups in the ECA region (FAO, 2015b). For example, in Central Asia 32.2 percent of children

BOX 4 WHO GUIDELINES FOR A HEALTHY DIET FOR ADULTS

A healthy diet contains fruits, vegetables, legumes (such as lentils and beans), nuts and whole grains (such as unprocessed maize, millet, oats, wheat and brown rice), and:

- at least 400 g of fruits and vegetables per day (not including potatoes, sweet potatoes, cassava and other starchy roots);
- less than ten percent (and ideally below five percent) of total energy intake from free sugars – about 50 g for a person of healthy body weight consuming about 2 000 kcal per day;

- less than 30 percent of total energy intake from fats (unsaturated fats such as those found in oils from fish, avocados, nuts, sunflowers, canola and olives are preferable to saturated fats found in such items as fatty meat, butter, palm and coconut oil, cream, cheese, ghee and lard);
- less than five grams of salt per day, ideally iodized salt; and
- no industrial trans fats (found in processed food, fast food, snack food, fried food, frozen pizza, pies, cookies, margarines and spreads), which are not part of a healthy diet.

SOURCE: WHO Healthy Diet Fact Sheet (September 2015).

and 33 percent of adults had a vitamin A deficiency. The highest levels of iodine deficiency among children were found in Belarus (81 percent) and Georgia (80 percent) (FAO, 2017p).

Low birth weight (LBW) is defined by the World Health Organization as an infant birth weight of less than 2500 g, regardless of gestational age. At the population level, the proportion of new-borns

with a low birth weight is an indicator of a multifaceted public health problem. Causes include a host of factors, such as maternal nutritional status (particularly iron status), food intake, access to prenatal care and others. The average low birth weight rate for 2011–2016 is estimated at 10.5 percent worldwide and six percent in ECA (including six percent in Eastern Europe and Central Asia and seven percent in Western Europe).

The reduction of low birth weight rate is one of the targets of World Health Assembly Resolution 65.6 (WHO, 2012), which aims to reduce the LBW rate by 30 percent, or by three percent every year for 2012–2025. World Health Organization data confirm that nutritional improvement (during intrauterine life and childhood) could result in increased lifetime growth potential. Interventions to prevent low birth weight include food-distribution systems, nutrition for adolescent girls, salt iodization, supplementation with iron and folic acid, clean and adequate water, sanitation and hygiene, and improvement in facility-based perinatal care. Mothers in deprived socio-economic conditions frequently have children with low birth weights as a result of poor nutrition over a long period of time, including pregnancy. ■

1.3 UNDERSTANDING WHO ARE AT RISK OF BEING LEFT BEHIND

With the 2030 Agenda for Sustainable Development, the world has committed to ending hunger and malnutrition in all its forms, with the principle of “leaving no one behind”. Disaggregated analysis of food security and nutrition indicators by sex, age, income, geography, occupation and other aspects of social identity is essential to determine if this core principle is likely to be achieved given the actual progress being made. The identification of disadvantaged subpopulation groups will better inform the formulation of intervention strategies for those vulnerable groups.

In this context, the introduction of the sex-disaggregated data based on FIES estimates for severe food insecurity constitutes a first step, and its further analysis is foreseen to provide evidence on progress made in the region towards SDG Target 2.1.2 and on related gender-equality aspects.

The reports of recent national nutrition surveys conducted in eight countries and territories of the ECA region⁴ were examined to assess the main dimensions of inequalities. The findings are summarized below.

Disaggregated analysis by household wealth

Considering the characteristics of food security and nutrition problems, along with the availability of data in the region, the prevalence of stunting and overweight among children younger than five were selected for disaggregated analysis. The prevalence of stunted children was higher in the poorest groups in almost all countries in which recent nutrition survey data was available.⁵ In some countries, the prevalence among the poorest group was nearly twice the national average (Figure 9).

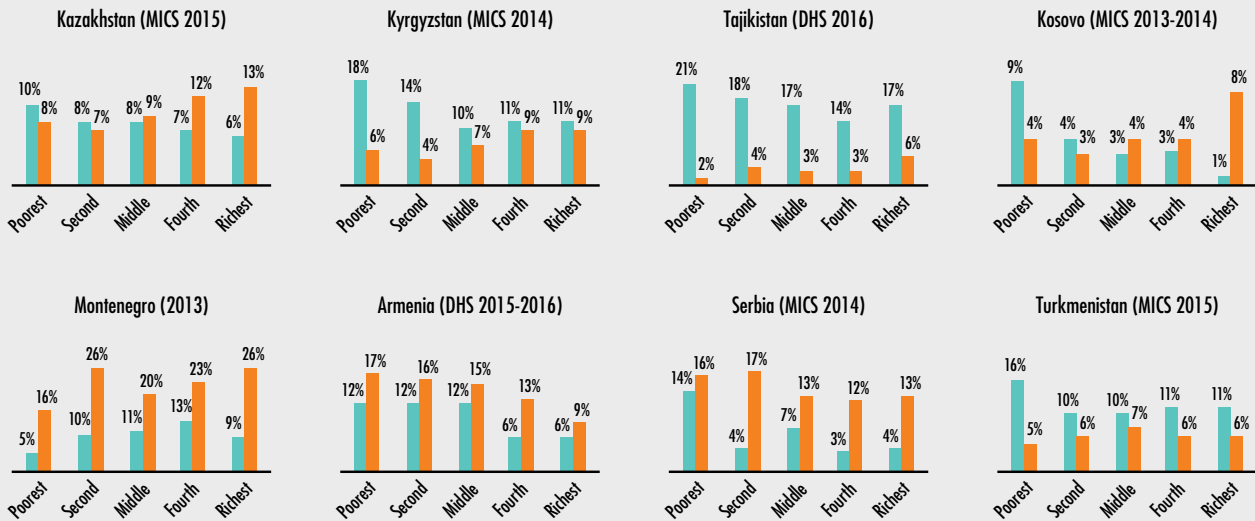
The analysis of the prevalence of overweight among the same population group (children younger than five) shows that overweight is prevalent not only in higher income groups but also in lower income groups. While the prevalence of overweight children is greater in higher-income groups in most countries, the poorer groups had higher prevalence in Armenia and Serbia. Malnutrition – both undernutrition and overweight – are multicausal problems. For instance, physical inactivity and sedentary lifestyles also contribute to overweight. Social protection programmes that target lower-income groups would need to incorporate the raising of awareness about healthy diets and child feeding practices.

Disaggregated analysis at subnational level within countries

Spatial disparities among regions within countries exist in many transition countries in the ECA region, resulting in rural–urban migration trends and widening social and economic inequalities (Figure 10). Poverty indicators are often higher in rural areas, particularly in remote regions where access to resources and markets is limited. Disaggregated analysis of the prevalence of stunting among children younger than five shows significant geographical disparities, in particular between major cities and other provinces. In most countries, the prevalence is lower in capital cities and large cities and higher in the regions remote from major cities or in geographically disadvantaged areas. In the high-alpine Gorno-Badakhshan Autonomous Region (GBO) of Tajikistan, the prevalence is nearly twice as high as in the country’s capital city, Dushanbe.

FIGURE 8
PREVALENCE OF STUNTING AND OVERWEIGHT AMONG CHILDREN UNDER THE AGE OF FIVE, DISAGGREGATED BY HOUSEHOLD WEALTH QUINTILE

Prevalence of stunting (in green) and overweight (in orange) among children younger than five, disaggregated by household wealth quintile*

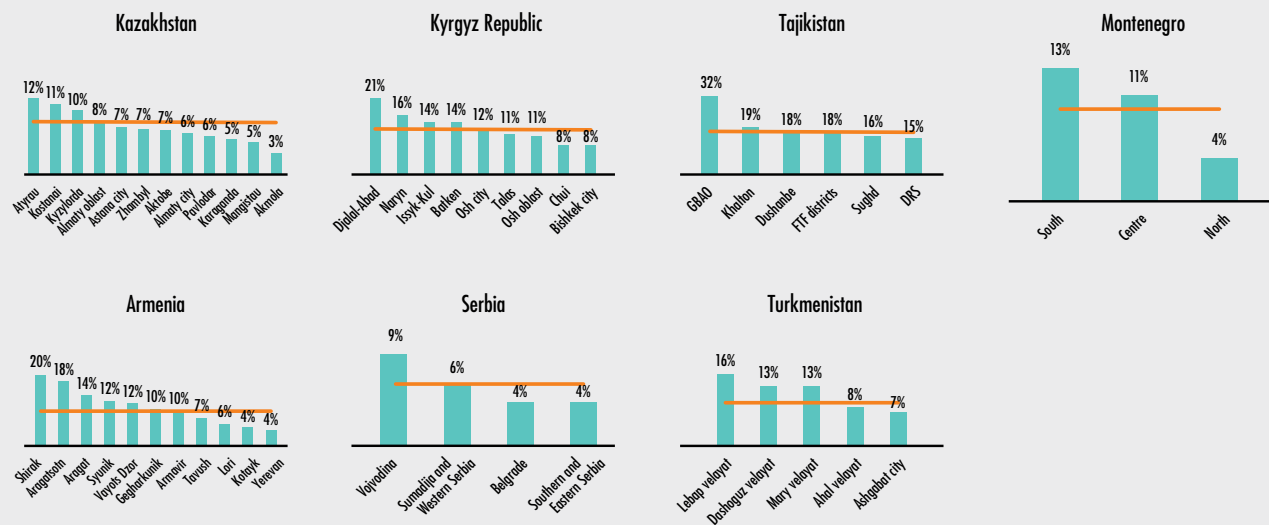


SOURCES: Kazakhstan Multiple Indicator Cluster Survey (MICS) 2015 Final Report; Kyrgyzstan MICS 2014 Final Report; Kosovo MICS 2013–14 Final Report; Montenegro MICS 2013 Final Report; Serbia MICS 2014 Final Report; Turkmenistan MICS 2015 Final Report; Tajikistan Demographic and Health Survey (DHS) 2016 Final Report; Armenia DHS 2015–16 Final Report.

*Kosovo as per the United Nations Security Council Resolution 1244 (1999) on the situation relating to Kosovo.

FIGURE 9
PREVALENCE OF STUNTING AMONG CHILDREN YOUNGER THAN FIVE ON THE SUBNATIONAL LEVEL OF SELECTED COUNTRIES

Prevalence of stunting among children younger than five, disaggregated by provinces*



SOURCES: Kazakhstan Multiple Indicator Cluster Survey (MICS) 2015 Final Report; Kyrgyzstan MICS 2014 Final Report; Montenegro MICS 2013 Final Report; Serbia MICS 2014 Final Report; Turkmenistan MICS 2015 Final Report; Tajikistan Demographic and Health Survey (DHS) 2016 Final Report; Armenia DHS 2015–16 Final Report.

*No data available on Kosovo. Kosovo as per the United Nations Security Council Resolution 1244 (1999) on the situation relating to Kosovo.

Monitoring food security at subnational level to inform targeted food security interventions

Different tools and methodologies are used for monitoring food security at subnational level to inform national stakeholders. For example, in Kyrgyzstan, World Food Programme (WFP) vulnerability analysis and mapping data identified vulnerabilities at the district level on six different dimensions, creating a composite vulnerability score that provides information to prioritize the most vulnerable areas for food security

interventions among WFP partners. For instance, WFP selected 250 pilot schools from the most vulnerable areas of the country for the Optimizing Primary School Meals Programme, which introduced nutritious school meals for children in primary school. The result of the vulnerability analysis was published in the first National Food Security Atlas of the Kyrgyz Republic (WFP, 2016).

In Tajikistan (Figure 10), WFP and UNICEF regularly monitor food security, child feeding practices and nutrition in rural areas by analysing data from household surveys across livelihood zones. The analysis signals the incidence of critical food insecurity at subnational levels.

FIGURE 10
EXAMPLES OF CLASSIFICATIONS OF PROVINCES IN KYRGYZSTAN AND TAJIKISTAN BASED ON THEIR VULNERABILITY AND STATE OF FOOD SECURITY

VULNERABILITY CATEGORIES BASED ON POVERTY AND EXPOSURE TO NATURAL SHOCKS (National Food Security Atlas of the Kyrgyz Republic, 2015)

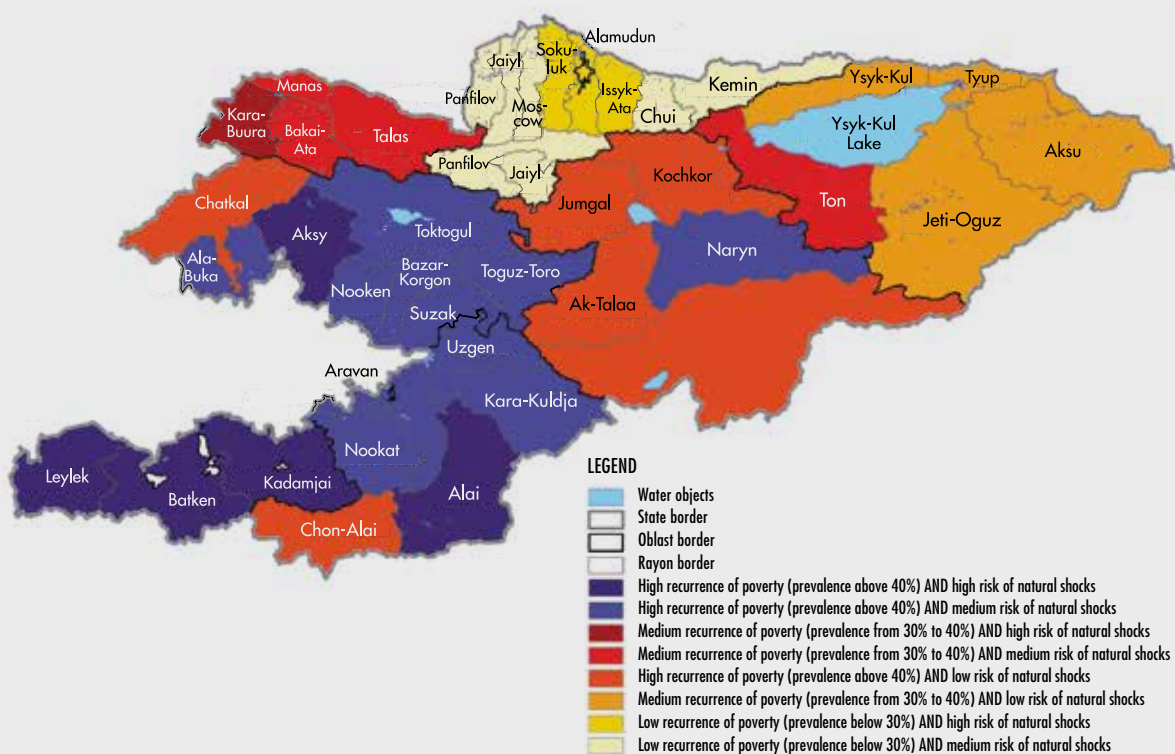
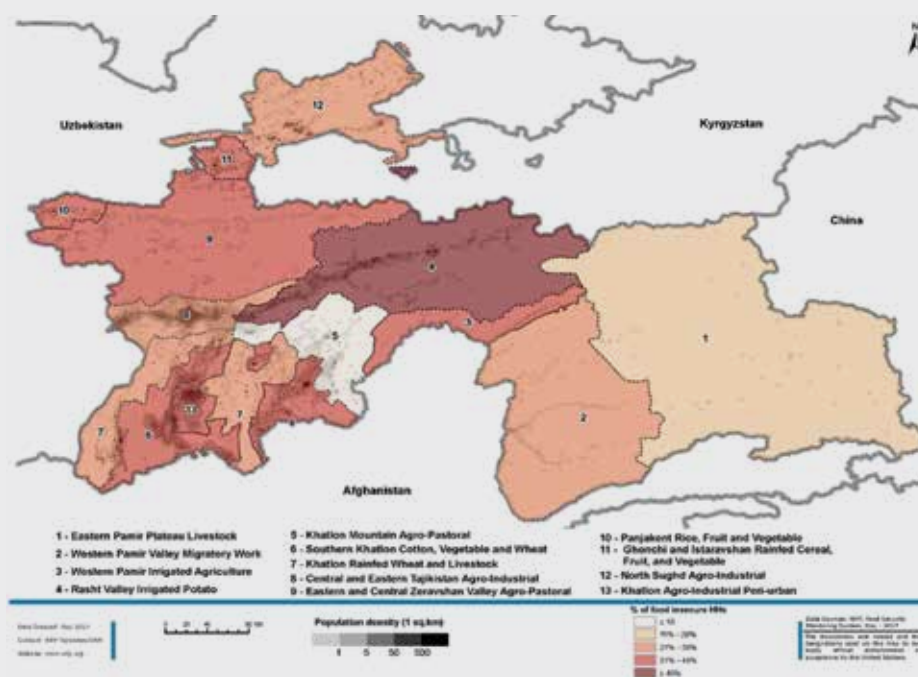


FIGURE 10
(CONTINUED)

TAJIKISTAN FOOD INSECURITY PREVALENCE BY LIVELIHOOD ZONES
(Food Security Monitoring, 2017)



SOURCES: National Food Security Atlas of the Kyrgyz Republic, 2015; Summary, Ministry of Agriculture and Melioration and WFP, 2015; Tajikistan Food Security Monitoring Bulletin, WFP and UNICEF, July 2017.

T.4 SOCIO-ECONOMIC BURDEN OF DISEASES AND MALNUTRITION

Poor dietary habits are the second-leading risk factor for global deaths and global disease burden (GBD 2016 Risk Factors Collaborators, 2017). The 2017 Global Nutrition Report (Development Initiatives, 2017) shows that 88 percent of countries worldwide face a serious burden from two or more forms of malnutrition. Thus, the world is off track to reach global targets on nutrition. In current food systems, nutritious foods that constitute a healthy diet are not available or affordable for many people. Overweight and obesity are risk factors for non-communicable diseases such as diabetes, cardio-

vascular diseases, musculoskeletal disorders and some cancers (WHO, 2018b) (see Box 3), while childhood undernutrition, suboptimal breast-feeding and zinc deficiencies are among the risk factors for lower respiratory tract infections and low immunity (Levin, 1986; Strauss, *et al.*, 1986; Horton, *et al.*, 1998).

The public health expenditures do reflect these trends. Currently, health expenditures per capita vary to a large extent across the region and countries (Table 10), showing a rising overall trend of health expenditures in the world and in the ECA region. Average health expenditures per capita in 2014 in the ECA region (USD 2 421) were mainly buoyed by high-income countries, whereas this same indicator decreases substantially (to USD 575) if high-income countries are excluded. This latter figure is barely more than half of the world average level.

TABLE 10
HEALTH EXPENDITURES PER CAPITA (CURRENT USD) FOR SELECTED ECA COUNTRIES, 2005–2014, ANNUAL

	2005	2010	2014
World	706	947	1059
ECA /all countries/	1 684	2 219	2 421
ECA /excluding high-income countries/	239	495	575
EU-28*	2 642	3 340	3 612
Armenia	98	143	162
Azerbaijan	122	310	471
Georgia	180	275	302
Kyrgyzstan	28	58	82
Republic of Moldova	78	197	303
Russian Federation	279	727	893
Serbia	305	541	633
Tajikistan	24	58	82
Turkey	386	566	568
Turkmenistan	127	87	187
Ukraine	118	233	203
Uzbekistan	28	76	124

SOURCE: World Bank (2018h).

*(EU-25 in 2005 and EU-27 in 2010).

Health expenditures (Table 10) have been steadily increasing in the ECA region, though to varying degrees. The average expenditures on health in Europe and Central Asia have increased by 44 percent and are slightly below the rate of increase worldwide, with some countries – such as Azerbaijan, Republic of Moldova, the Russian Federation and Uzbekistan – showing a more significant increase, with health expenditures in 2014 three times higher than in 2005. To some extent, health expenditures reflect the burden of diseases, including diet-related non-communicable diseases. Different health expenditure patterns are projected across the region. For example, in the EU countries, the increasing numbers of older people and of those with lower incomes are a concern due to their particular risk of becoming food insecure.

The proportion of people of working age in EU 28 countries is reducing, while the relative number of those retired is expanding (Eurostat, 2018a). The share of older persons in the total population is projected to increase significantly in the coming decades, with an increase of social expenditure required by the aging population for a range of related services (Eurostat, 2018a), including health services.

Further analysis is required for the findings that countries showing some forms of issues related to food security and nutrition – such as Armenia, Georgia, Kyrgyzstan, Republic of Moldova, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan – show allocations for health per capita that are less than one-third of the world average. ■



BOLSHEVIK, BELARUS

Workers sort eggs at the poultry factory in the village of Bolshevik, some 20 km north of Minsk.

©FAO/Sergei Gapon





PART 2
REGIONAL
AND
NATIONAL
POLICY
DRIVERS
TO SUPPORT
ACHIEVING
SDG 2 TARGETS

REGIONAL AND NATIONAL POLICY DRIVERS TO SUPPORT ACHIEVING SDG 2 TARGETS

The findings from Part I not only describe the current state of food security and nutrition in the ECA region but also point to a range of related problems (such as micronutrient deficiencies like iron-deficiency anaemia, increasing obesity, and reduced exclusive breastfeeding) that are of concern and require specific actions in the policies and strategies of governments, institutions and organizations at regional and national levels.

Part II of this report reviews relevant national, subregional and regional policies and programmes that have been adopted in recent years. It includes actions that have been planned and implemented by countries, subregions and the region as a whole towards achieving SDG 2 and related SDG targets. It also aims to capture and consolidate experiences gained, lessons learned and good practices developed by analysing policy issues and outcomes linked to the four pillars of food security (availability, access, utilization and stability) and nutrition.

2.1. GENERAL SOCIO-ECONOMIC CHARACTERISTICS OF THE ECA REGION

Current aspects of food security and nutrition problems in the ECA region reflect the diversity of countries facing different issues and economic situations. The region covers high-income countries in Western Europe, middle-income countries in Central Europe, and middle- and lower-middle-income countries in Eastern Europe, the Caucasus and Central Asia. Diverse socio-economic characteristics shape government priorities and constraints in addressing food security and nutrition and the type and range of policy tools adopted.

To complement the review of recent developments in policies and measures taken by countries in the ECA region towards achieving SDG 2 and related targets, selected indicators are considered – in particular, the levels of economic growth, income, poverty, and inequality as well as of agricultural and food production, food supply and dietary composition.

While significant progress was made in past decades in reducing the prevalence of undernourishment, especially in Central Asia and the Caucasus, poverty still impedes many households in accessing healthy and nutritious food. This is reflected in the malnutrition observed and the increase in obesity among children and adults.

In 2013, the average level of poverty in the region was estimated at 2.4 percent, based on the international poverty line (less than USD 1.90 per day, using 2011 purchasing power parity, or PPP); or 6.8 percent, based on the lower-middle-income poverty line (less than USD 3.20 PPP); or 14.9 percent, based on the upper-middle-income poverty line (USD 5.5 PPP).⁶ Using any of the three poverty-line measurements, poverty is significantly lower than in 2005.

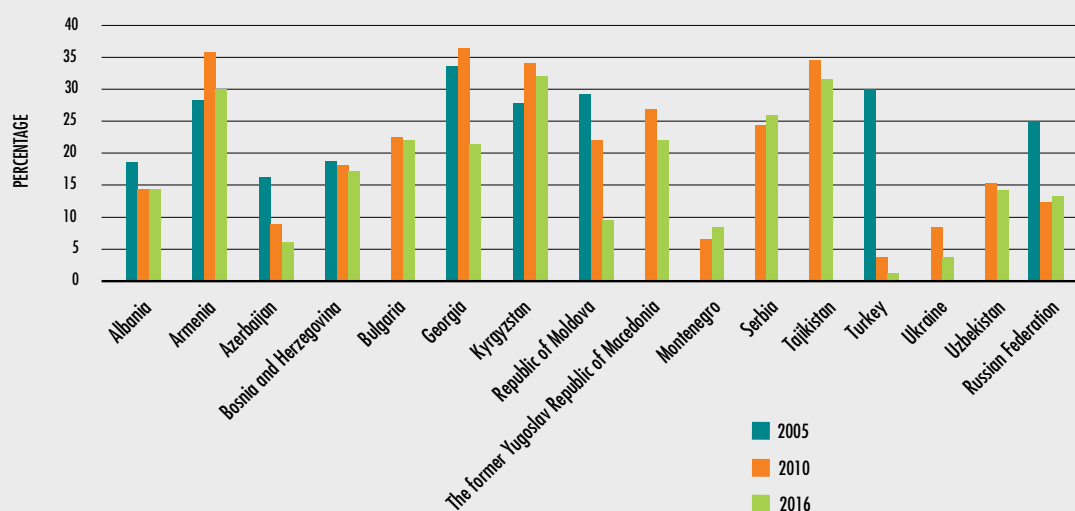
The analysis of the dynamics of changes in poverty levels over a ten-year period for the selected countries of the ECA region shows that the poverty level in different countries varies across a wide range measured at the national poverty line (Figure 12). Among the region's 53 states are some countries with poverty levels below the national poverty line; in Armenia, Kyrgyzstan and Tajikistan, about one-third of the population is living below the national poverty line, while in Serbia and Romania, about one-fourth of the population is living below the national poverty line. In Bulgaria, Latvia, Lithuania, Estonia and

the former Yugoslav Republic of Macedonia, around one-fifth of the population is living below the national poverty line.⁷

The decrease in the poverty levels in these countries is related to regional economic growth, which has rebounded since 2011, especially during 2017 and 2018. Gross domestic product (GDP) growth in Europe and Central Asia was estimated at 2.2 percent in 2017, which is the strongest growth in six years. Almost all parts of the region demonstrate stronger growth than earlier

expected, reflecting a strengthening of industrial production and exports in 2017. Countries in Central Europe and the Western Balkans continue to register solid GDP growth after a decline in 2012–2014, although the extent of growth varies in Greece, Croatia, Bosnia and Herzegovina and Cyprus (Focus Economics, 2015). The Russian Federation and Belarus have come out of recession. Azerbaijan, the country that was hardest hit by the fall in oil prices and that responded with some delay, is expected to remain in recession in 2018 (World Bank, 2017a, p. 3). »

FIGURE 11
POVERTY AT NATIONAL POVERTY LINE IN SELECTED COUNTRIES OF THE ECA REGION
AS A PERCENT OF THE TOTAL POPULATION, 2005–2016



SOURCE: World Bank (2018g).

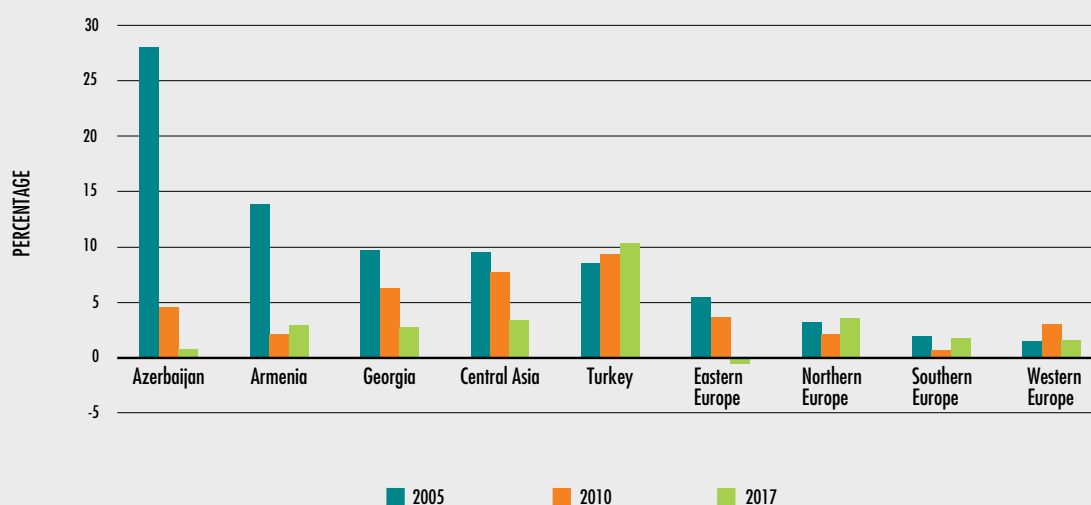
TABLE 11
GDP GROWTH RATES IN ECA REGION AND SELECTED COUNTRIES
(ANNUAL %, CONST. 2005 PRICES, IN THE YEARS 2005, 2010 AND 2017)

	2005	2010	2017
Central Asia	9.4	7.6	3.4
Eastern Europe	5.4	3.6	-0.6
Northern Europe	3.1	2.2	3.5
Southern Europe	1.9	0.6	1.6
Western Europe¹	1.4	2.9	1.5
Caucasus	-	-	-
Armenia	13.9	2.2	3.0
Azerbaijan	26.4	4.6	0.7
Georgia	9.6	6.2	5.0
Turkey	8.4	9.2	4.0

SOURCE: UNSD (2017).

¹ By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping.

FIGURE 12
GDP GROWTH RATES, ANNUAL PERCENT, CONST. 2005 PRICES



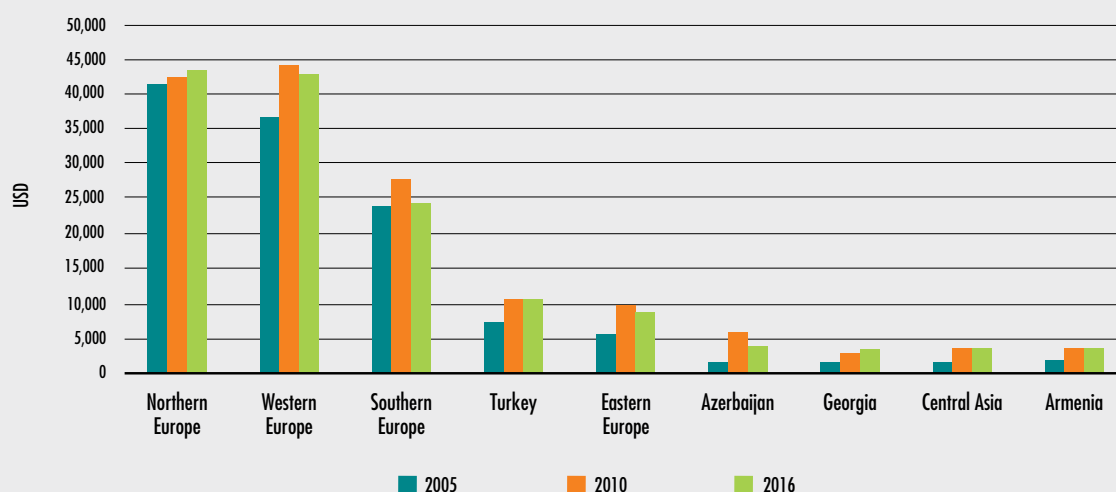
SOURCE: UNSD (2017).²

² By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping.

» However, in spite of this growth, the GDP per capita remains below the world average in three subregions (Central Asia, the Caucasus, and Eastern Europe) and in Turkey. In addition, widespread inequality can be

observed among the countries in Europe and Central Asia, based on the subregional data on GDP per capita (Figure 14). Both poverty and income inequality are key factors for food security and nutrition.

FIGURE 13
GDP PER CAPITA (CURRENT USD) BY SUBREGIONS AND SELECTED COUNTRIES



NOTE: The data for 2017 are estimations.

SOURCE: UNSD (2017).³

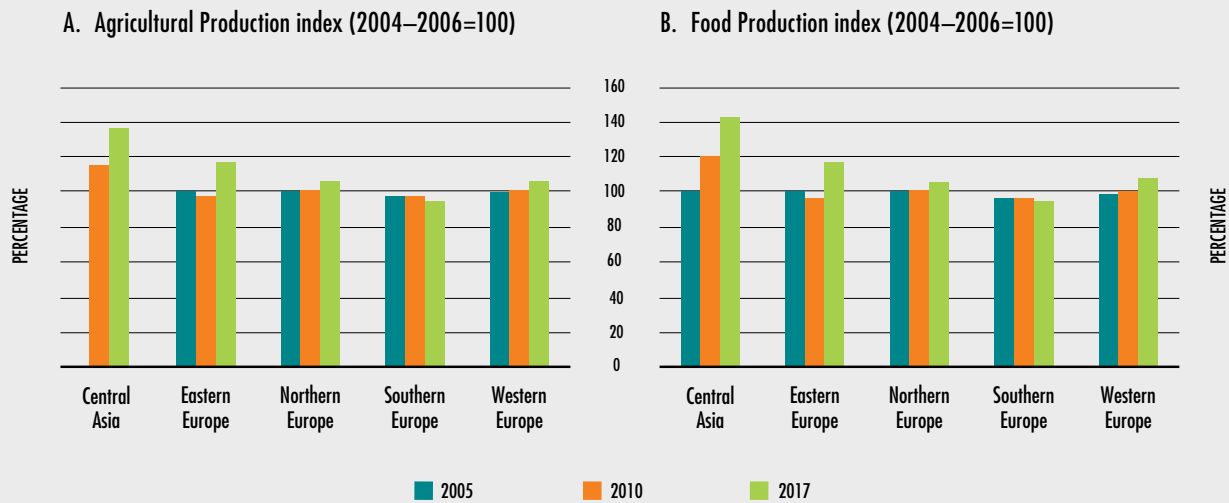
³ By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping.

The GDP per capita is lowest in Central Asia and the Caucasus, where it is below the world average. This means that many households have a limited budget available for food. A correlation is observed between GDP per capita and the prevalence of undernourishment (PoU) level (FAO, 2017p, p. 7). Among the countries of the ECA region, relatively high PoU levels have been recorded in Armenia, Georgia, Kyrgyzstan and Uzbekistan, all of which belong to the group of lower-middle-income countries, as classified by the World Bank, in 2017–2018 (World Bank, 2018c). In these countries, the PoU level ranges from 4.3 percent in Armenia to 7.5 percent in Uzbekistan (FAO, 2017c, p. 6).

This situation is compounded by multiple challenges faced by countries, such as effects of climate change and variability, migration processes and conflicts, all of which require attention and action from policymakers and decision makers (FAO, 2016b, 2017c). Some countries are also vulnerable to fluctuations in commodity prices (such as Azerbaijan to fluctuations in oil prices) and trade.

Agricultural production in the European Commonwealth of Independent States and Central Asia (a region that includes Kazakhstan, the Russian Federation and Ukraine as main agricultural producers) expanded rapidly over the previous decade as a result of an overall economic recovery and considerable investments into the »

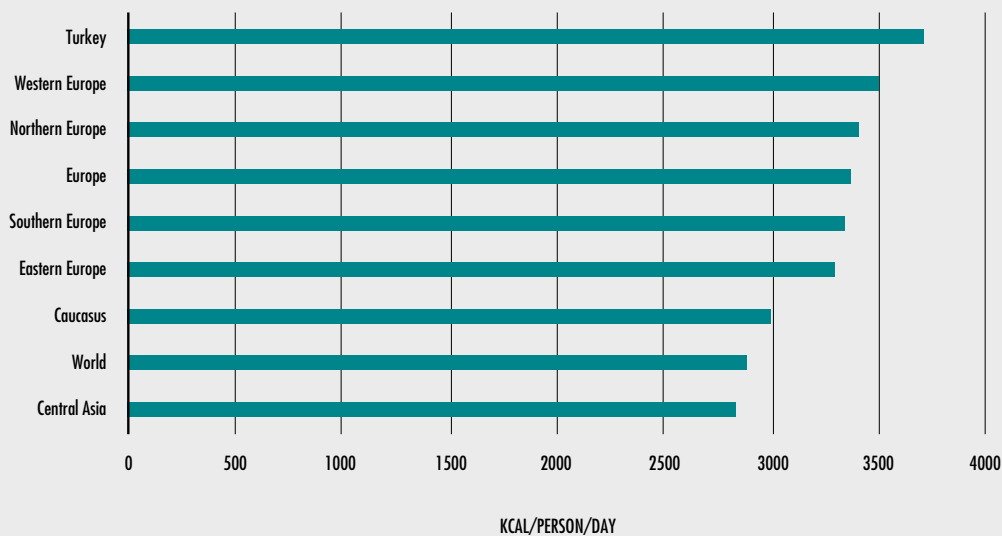
FIGURE 14
AGRICULTURAL AND FOOD PRODUCTION INDEX FOR 2005, 2010 & 2017



SOURCE: UNSD (2017).⁴

⁴ By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping.

FIGURE 15
FOOD SUPPLY IN THE ECA REGION, BY SUBREGION, 2013 (kcal/person/day)



SOURCE: FAOSTAT food balance sheets, <http://www.fao.org/faostat/en/>, UNSD (2017).⁵

⁵ By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping.

- » modernization of agriculture. In the coming decade, agricultural and fish production are projected to expand by 14 percent. In terms of arable crops, the region is foreseen to maintain its position as the world's second-largest wheat producer, increasing its share of global production to almost 22 percent by 2027. Additionally, other crops – such as maize, sunflowers and rapeseed – are also foreseen to expand rapidly (OECD/FAO, 2018).

Overall, trends in agricultural and food production are on the rise in most subregions during the period of 2005–2017 (Figure 15), with the highest increase of agricultural and food production observed in Turkey and the Central Asian countries. This sector is crucial for the region; it employs, on average, around ten percent of the population, while one-third of the population lives in rural areas. ■

2.2 REGIONAL AND SUBREGIONAL POLICIES AND RECENT DEVELOPMENTS

To complement the food security and nutrition analysis, an overview of policy measures taken at national, subregional and regional levels on economic, environmental and social issues is given, including factors related to production, trade and market regulation, infrastructure, and the environment. Policy measures and frameworks have been adopted in the ECA region to achieve SDG 2, ensuring food security and nutrition at the national level and through the development of joint policy measures (for example, the European Union common agricultural policy, the Eurasian Economic Union harmonized agricultural policy, and others).

The overview of main policy development includes recently adopted documents, grouped according to their contributions towards the four pillars of food security and nutrition. The four pillars are (1) availability (agricultural strategy, production and rural development); (2) access (social protection and food assistance); (3) utilization (food utilization and nutrition); and (4) stability (market regulation, price, stocks, environment protection).

International and regional developments

The regional, subregional and national policies on food security and nutrition are guided by key concepts and objectives set forth in the framework of the United Nations Decade of Action on Nutrition (2016–2025) (United Nations, 2017), the ICN2 Rome Declaration on Nutrition, and the ICN2 Framework for Action (FAO/WHO, 2014). In the ECA region, the Regional Symposium on Sustainable Food Systems for Healthy Diets (organized jointly by FAO, the World Health Organization and the World Food Programme) (FAO, 2017n)⁸ of December 2017 provided a platform for policy dialogue and a renewed call for good governance and leadership on nutrition, enhancing policy coherence and multi-sectoral collaboration for healthy diets and good nutrition outcomes.

Between 2016 and 2018, various types of partnerships to strengthen measures related to food security and nutrition have been adopted and implemented in the region. This includes a range of steps undertaken by countries towards national SDG action plans, particularly towards achieving SDG 2, encompassing different national initiatives with new governance and coordination mechanisms.

To support the countries in implementing the 2030 Agenda for Sustainable Development, the United Nations System assists national counterparts to translate SDGs into their national agendas and to transform the global goals into concrete national plans. The regional United Nations Development Group conducted joint missions under the umbrella framework of the Mainstreaming, Acceleration and Policy Support approach (UNDG, 2015). In order to assess progress in implementation and achievements of the 2030 Agenda for Sustainable Development, countries report with Voluntary National Reviews at the UN High-level Political Forum on Sustainable Development,⁹ which is organized annually. Many countries of the region have already reported on progress at the forums in 2016, 2017 and 2018. Particular emphasis on SDG 2 – Zero Hunger – was given in 2017.¹⁰

The Regional Symposium on Sustainable Food Systems for Healthy Diets in Europe and Central Asia in December 2017 (FAO, 2018g) highlighted the major regional challenges for food security and

nutrition and the critical role of cooperation among all relevant governmental sectors – food and agriculture, health, education, and social protection – as well as of non-state actors, in improving diets and nutrition.

In addition, various forms of intraregional cooperation at the technical level have been established, with countries setting up national coordinating bodies to align the activities of authorities engaged across the food system. Cross-border cooperation, such as for monitoring animal and plant health, combating antimicrobial resistance and limiting the use of unsafe products, has proven essential. Cooperation can help avoid the contamination of food at every stage of the value chain and can contribute to multiple dimensions of food security through enhancing food safety, quality and availability; increasing market access for agrifood producers; and boosting income opportunities.

Countries are also taking steps on the national level to implement international and regional agendas on improving policy areas related to food security and nutrition via adopting various policy frameworks, strategies and resolutions. For instance, Georgia¹¹ and Ukraine¹² recently adopted a comprehensive agriculture and rural development strategy that addresses issues related to trade, institutional development, value chain development, food security and safety, and climate change. Other countries also adjusted their existing legislation between 2016 and 2018, covering specific areas of the four pillars of food security. Azerbaijan¹³ and the Russian Federation¹⁴ amended their existing legislation to improve state support and social assistance. Kyrgyzstan¹⁵ and Tajikistan¹⁶ adopted measures to improve food availability by supporting agricultural production. Kazakhstan took the approach of combating NCDs by adopting measures to promote healthy diets among the population.¹⁷ Turkmenistan¹⁸ and Uzbekistan¹⁹ implemented measures to improve food security through improved coordination of agrifood value chains.

Subregional policy processes and recent developments

Regional and subregional integration among countries contribute to the creation of larger markets, both for producers and consumers, and

to calls for policy coherence and the alignment of standards, such as for food quality and safety. Integration also offers platforms that aid in the enhanced sharing of knowledge and information to strengthen capacities for the sustainable use of natural resources and for addressing challenges posed by environmental degradation and climate change. At regional level, policy measures in this area are mostly undertaken in the framework of the European Union²⁰ and the Eurasian Economic Union,²¹ which have developed strategic documents and policy action plans related to food security and nutrition. These policies cover various socio-economic aspects such as rural development, agricultural production, social protection, market regulation, and sustainable natural resource management, in line with the SDGs integrating social, economic, and environmental sustainability.

European Union and common agricultural policy.

In the framework of the European Union, issues related to food security and agriculture and rural development are based on the common agricultural policy (CAP). The recent reforms to the CAP, made in 2013 and applying to the period 2014–2020, aimed at enhancing policy coherence for food security. These reforms were backed by analysis of how developed countries' agricultural policies, such as tariffs and market price support, impact trade and food security in developing countries. The CAP further underpins the policies spelled out in the 2030 climate and energy framework, which calls upon the farming sector to contribute to the economy-wide target of reducing emissions by 40 percent by 2030, and to the EU adaptation strategy. It aims to help the European farming sector contribute to the achievement of the Sustainable Development Goals and to meet the commitments made under the COP21 Paris Agreement, reflecting a higher level of environmental and climate ambition and addressing citizens' concerns regarding sustainable agricultural production. Within the EU, the process for developing and negotiating the future of the common agricultural policy after 2020 started in 2017.

Eurasian Economic Union. The Eurasian Economic Union (EEU) was set up in 2015 and integrated Armenia, Belarus, Kazakhstan, Kyrgyzstan and the Russian Federation within a single market of 183 million people. With regard to agriculture, the harmonized state support rules

of production and processing of agricultural products, with priorities given to the World Trade Organization rules and regulations, contribute to setting a common approach to regulation of the single agrarian market. All of these measures are based on the EEU concept of coordinated agro-industrial policy. In addition to facilitating trade and cooperation on food security, the EEU adopted a number of decisions on food safety and phytosanitary measures between 2016 and 2018.

The new transport corridors promoted under the Central Asia Regional Economic Cooperation Program, which comprises 11 member countries²² and multilateral organizations, and the Belt and Road Initiative, which is aimed at enhancing connectivity and cooperation among European and Asian countries, particularly China, are projected to further facilitate the movement of goods and services and the related labour force in the region.

In Central Asia, countries are facing many similar challenges in food security and nutrition, and governments have adopted a range of public policies, from extensive development of agricultural production and promotion of food self-sufficiency to subsidy programmes designed to facilitate the import of staple products (Peyrouse, 2013).

As described in Part I, food security and nutritional issues remain of concern, especially in Central Asia, which shows the highest prevalence of undernourishment (6.4 percent) in the region in 2017, with around 4.4 million individuals undernourished. Due to supply constraints, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan heavily depend on the import of cereals, mainly wheat; the significant level of these imports makes these countries highly vulnerable to international food markets, which can severely affect the food security of their populations. Tajikistan is able to cover only one-third of its food consumption needs, while Kyrgyzstan and Uzbekistan cover around 47 and 22 percent of their needs, respectively (FAO, 2017b).²³ Earlier studies indicate that the share of household expenditure devoted to food remains very high: 80 percent in Uzbekistan and in Tajikistan, 58 percent in Kyrgyzstan, and as much as 42 percent in Kazakhstan (Peyrouse, 2013). ■

2.3 NATIONAL POLICIES AND MAIN DEVELOPMENTS

The overview of policies at national level is structured around their prevailing contribution to the four pillars of food security: addressing the supply and consumption of food (Section 3.1); access to food (Section 3.2); food utilization and nutrition (Section 3.3); and stability of access to food, including measures for stabilizing domestic food markets (Section 3.4).

Enhancing food availability and supporting agricultural programmes and strategies

Analysis of the policy measures adopted in 2016 and 2018 confirms that in the ECA region, countries are focusing on agricultural production and rural development as a basis for supporting food security and good nutrition. The trends of agricultural production for the period of 2005–2017 show increasing rates throughout the region. In Europe,²⁴ the increase is recorded at eight percent. In Central Asia, it is 40 percent; in Turkey, it is 20 percent; in Armenia, it is 35 percent; and in Azerbaijan, it is 31 percent. At the same time, a negative trend is reported for the countries of Southern Europe (a decrease of five percent, mainly due to a decline in Greece, Croatia, Bosnia and Herzegovina, Montenegro and Italy) and in Georgia (a 13-percent decrease) (UNSD, 2018). The average food supply (kcal/person/day) in the region is above the world average, except in the Central Asia subregion, where it is slightly lower; this indicates that the overall national food supply seems to be adequate to ensure sufficient energy consumption (Figure 16). In terms of composition, food supply data show that the share of dietary energy in the region's countries is mainly supplied by cereals, roots and tubers (Figures 17 and 18).

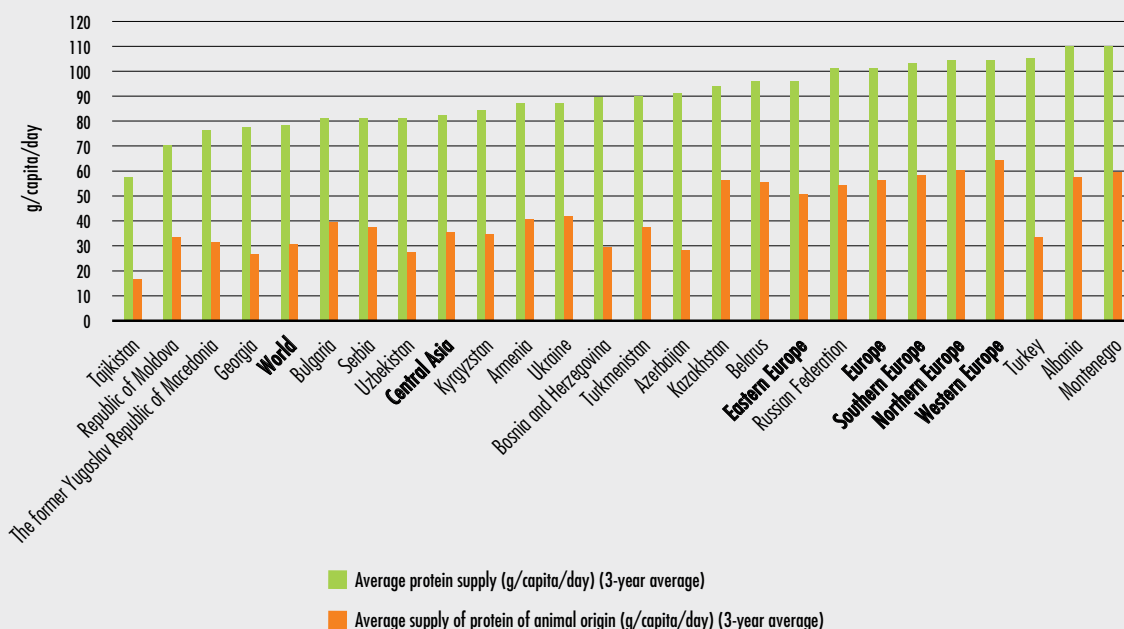
The share of calories derived from cereals and roots and tubers in a number of countries in the region is above the world average level of 50 percent, as recorded for 2011–13, while the average level in Europe, including in EU countries, is 34 percent. In countries such as Azerbaijan, Bosnia and Herzegovina, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan, it is above 53 percent. With regard to the per-capita protein supply, in several countries

(Georgia, Republic of Moldova, Tajikistan and the former Yugoslav Republic of Macedonia), this indicator is below the world average (80 g/person/day) and the European average (128 g/person/day) (Figure 16).

The differences in food consumption patterns among the countries in the region, mainly in Armenia, Georgia, Kyrgyzstan, Republic of Moldova, Tajikistan, the former Yugoslav Republic of Macedonia, and Uzbekistan (Figures 17 and 18), show that such dietary processes appear to follow a pattern involving two main stages (Kearney, 2010). The first stage, known as the

“expansion” effect, is marked by an increase of energy supplies and of extra calories coming from cheaper foodstuffs of vegetable origin. The second stage, called the “substitution” effect, results in a shift in the consumption of foodstuffs with no significant change in the overall energy supply. The second stage is country-specific and is influenced by culture, beliefs and traditions. Low levels of protein supply and dietary energy supply are prevalent mainly in Armenia, Georgia, Kyrgyzstan, Republic of Moldova, Tajikistan, the former Yugoslav Republic of Macedonia, and Uzbekistan.

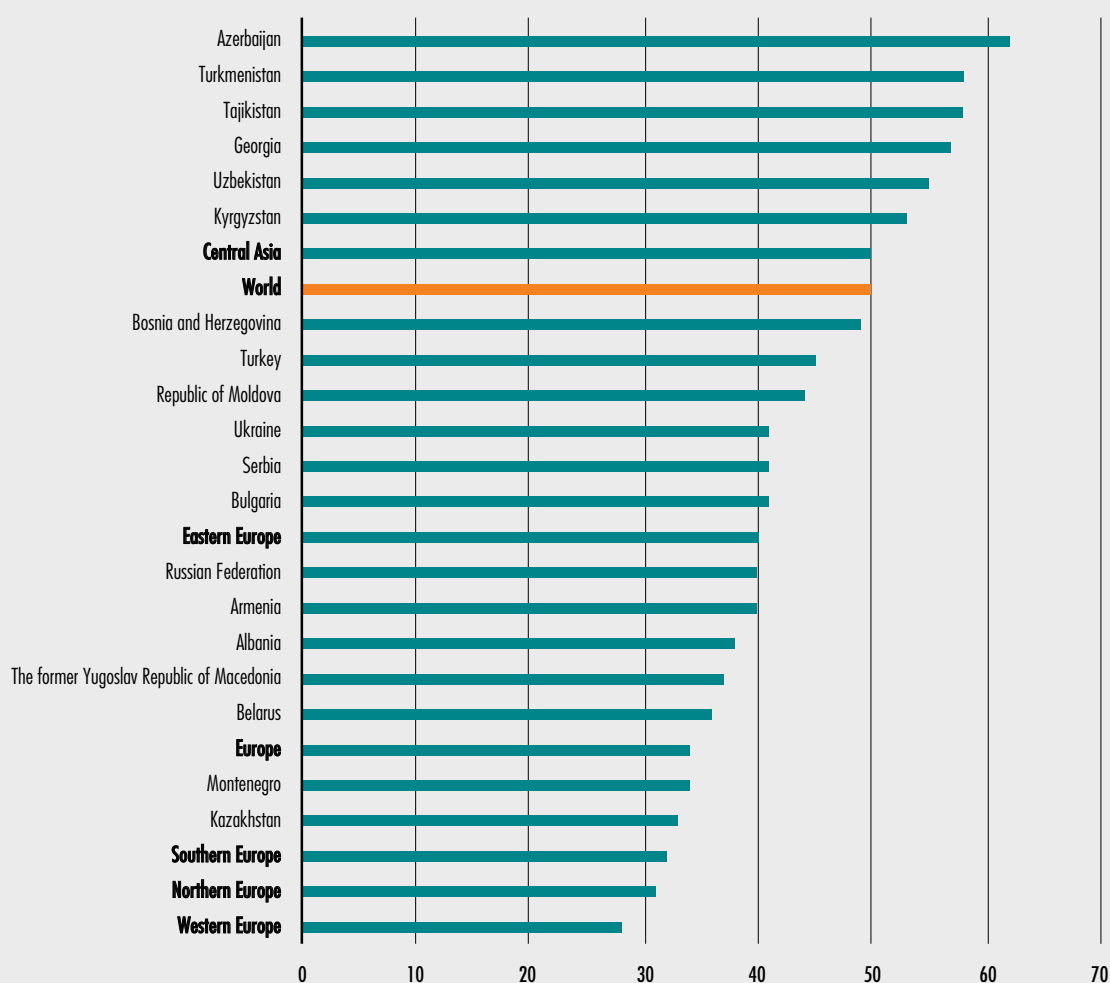
FIGURE 16
AVERAGE PROTEIN SUPPLY IN THE ECA REGION, 2011–2013 (G/CAPITA/DAY, 3-YEAR AVERAGE)



SOURCE: FAOSTAT, <http://www.fao.org/economic/ess/ess-fs/ess-fadata>, UNSD (2017).⁶

⁶ By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping.

FIGURE 17
SHARE OF DIETARY ENERGY SUPPLY DERIVED FROM CEREALS, ROOTS AND TUBERS
(%, 3-YEAR AVERAGE)



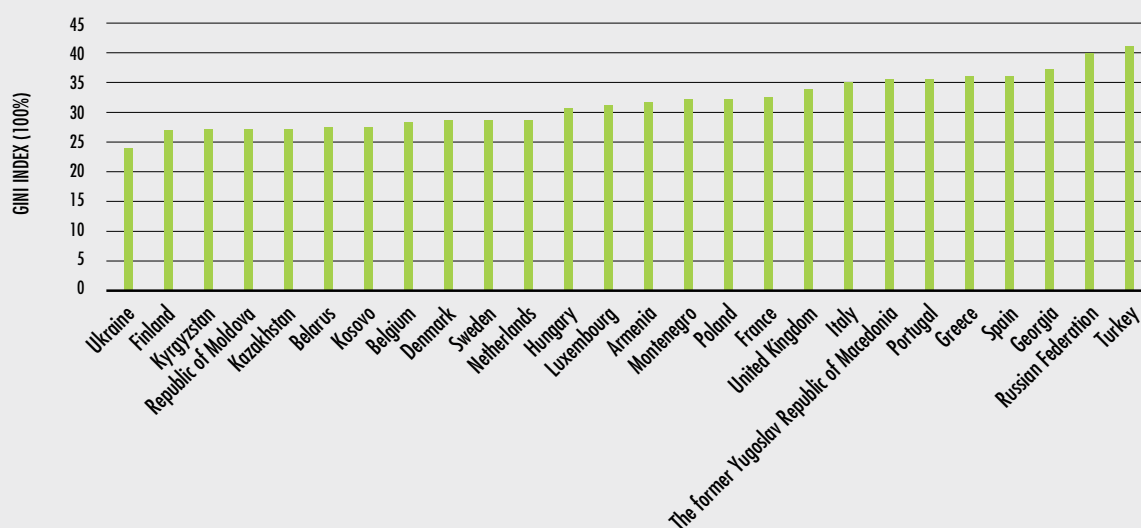
SOURCE: FAOSTAT Food security indicators (2011–2013), UNSD (2017).⁷

⁷ By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping.

The review of recent policy measures taken for the agriculture sector and for rural development (Table 12) indicates the attention given by governments to different measures, such as agricultural support instruments (Kazakhstan and the Russian

Federation), price regulation (Kazakhstan), and rural development (Albania and Bosnia and Herzegovina). However, limited information is available on the efficiency and results of such measures.

FIGURE 18
INEQUALITY IN SELECTED ECA COUNTRIES, MEASURED BY GINI INDEX (RETRIEVED MAY 2017)



SOURCE: World Bank estimations, *World Bank, Poverty and Equity*. The Gini index measures the extent to which the distribution of income (or, in some cases, consumption expenditure) among individuals or households within an economy deviates from a perfectly equal distribution. There is a limitation due to the estimation based on income in some countries and expenditure in other countries. In Figure 18, the estimates for the following countries are based on income data: Belgium, Denmark, Finland, France, Greece, Hungary, Italy, Luxemburg, the former Yugoslav Republic of Macedonia, Netherlands, Portugal, Spain, Sweden, and United Kingdom. The following countries' estimates are based on consumption data: Armenia, Belarus, Georgia, Kazakhstan, Kosovo (as per the United Nations Security Council Resolution 1244 (1999) on the situation relating to Kosovo), Kyrgyzstan, Republic of Moldova, Montenegro, Russian Federation, Turkey, and Ukraine.

TABLE 12
SELECTED POLICY DOCUMENTS ON AGRICULTURAL PRODUCTION AND RURAL DEVELOPMENT, 2016–2018

Country	Year	Field	Main content or title of the policy documents
Albania	2016	Agriculture and rural development	Strategy for Development and Integration 2014–2020, Action Plan 2016–2018 (MARDWA 2016a).
Bosnia and Herzegovina	12/2016	Agriculture	Mid-term Development Strategy for the Agricultural Sector in the Bosnia and Herzegovina.
Georgia	12/2017	Rural Development	A three-year plan for rural development has been approved. The 2018–2020 Action Plan to support rural development, targeted at implementing 69 programmes, was approved by the Rural Development Coordination Council of Georgia. http://www.moa.gov.ge/En/News/5397
Kazakhstan	12/2016	Food Security	The Food Contract Corporation, the national body managing the state grain reserves, announced in December 2016 an increase in the purchase price ranges for wheat according to quality.
Kyrgyzstan	2018	Agriculture	Decree of the Government on the Project for Financing Horticulture and Livestock Farmers.
Russian Federation	10/2017	Agriculture	The State Federal Program on Development of Land Melioration for 2014–2020.
	03/2017	Agriculture	The State Federal Program of the Russian Federation of the Development of Fishery Complex.
	03/2017	Agriculture	The new edition of the State Program for the Development of Agriculture and Regulation of Agricultural Commodities Markets in 2013–2020 emphasizes import substitution in food supply and the enhancement of Russian agricultural exports.
	02/2018	Agriculture	The Order of the Ministry of Agriculture, No 26: "On Approval of the Documents and Coefficient for Decoupled Subsidies to the Regions for the Plant Production."
Uzbekistan	02/2018	Agricultural modernization	In February 2017, Uzbekistan adopted a 2017–2021 National Development Strategy with five priority areas: 1) reform of public administration; 2) reform of the judiciary, strengthening the rule of law and parliamentary reform; 3) reforms in economic development and liberalization, focusing on the modernization of Uzbek agriculture and industry and oriented towards greater competitiveness of products and services; 4) development of the social sphere; and 5) the field of security, inter-ethnic harmony and religious tolerance.

Improving access to food and nutrition through economic growth, social protection and food assistance

Economic growth is one of the basic indicators used for income generation and food access. The ECA region registered a stronger economic growth in 2017 than at any time since the global financial crisis of a decade ago (World Bank, 2018b), and favorable estimations exist for 2018. Economic recovery has been recorded in almost all ECA countries after the dramatic drop in energy prices during the period of 2014–2016 observed in Azerbaijan, Belarus, Kazakhstan, and the Russian Federation. Poverty is a major obstacle to people accessing adequate food in the ECA region, and it remains an issue at the national level in some countries in the Caucasus and the Central Asian subregion. Other obstacles include a lack of knowledge of nutritional aspects and dietary preferences and habits.

Multiple policy measures were adopted between 2017 and 2018 for improving food access, including for social protection and food assistance, in the ECA region (Table 13).

The main issue faced by most people in terms of food security is inadequate access to nutritious food, which is fundamentally an outcome of poverty. Poverty, combined with inequality, leads to increased vulnerability and fragility in food security and nutrition and the overall livelihood of the population. In the ECA region, while no countries are ranked as extremely poor countries,²⁵ the issue of inequality is of concern. Inequality, as measured by the Gini index,²⁶ varies from country to country: The highest Gini index was observed in Turkey (41.2), followed by Turkmenistan (40.8). Of 53 countries, roughly 60 percent have a Gini index of 30 or higher, which is considered average (CIA, 2018). The extent of inequality observed across the ECA region may explain the wide differences in the state of

TABLE 13
OVERVIEW OF SELECTED POLICY DOCUMENTS ON IMPROVING ACCESS TO FOOD AT THE NATIONAL LEVELS OF THE ECA COUNTRIES, 2017–2018

Country	Year	Field	Main content or title of the policy documents
Belarus	12/2017	Social Protection	Law of the Republic of Belarus of December 31, 2017 No. 85-Z "About the budget of state non-budgetary fund of social protection of the population of the Republic of Belarus for 2018".
Georgia	12/2017	Rural development and support	A three-year action plan for rural development has been approved. The 2018–2020 Action Plan to support rural development, targeted at implementing 69 programmes, was approved by the Rural Development Coordination Council of Georgia.
Russian Federation	01/2018	Social protection and assistance	About Social State Assistance (amendment to the Federal Law, 28 December 2017), the introduction of the social support expansion rules and assistance provisions to vulnerable groups of the population.
Uzbekistan/ Russian Federation	02/2018	Poverty reduction and equity	The agreement between Uzbekistan and the Russian Federation on organized labour migration.
Ukraine	09/2017	Rural development and support of private farms and agricultural cooperatives	The concept of development of farms and agricultural cooperatives for 2018–2020 to provide the creation of new jobs in rural areas, including by encouraging agricultural cooperation, creating preconditions for lending to farmers at affordable lending rates with the aim of supporting farmers, and increasing the real incomes of the rural population through the leasing of agricultural land.

food security and nutrition among and within the countries. Further analysis is needed on the linkages between food security and levels of inequality. In high-income and middle-income countries, comprehensive social transfer programmes can contribute to achieving measurable reductions in poverty and income inequality and to helping people with lower incomes overcome social exclusion and access barriers (Roelen, Sabates-Wheeler and Devereux, 2016).

An analysis of inequality throughout the ECA region (Figure 19) indicates the extent of inequality and points to the associated vulnerability of specific population groups. The most vulnerable groups remain the unemployed and the working poor, women, youth, children, pensioners and the elderly, disabled people, single-parent households, migrants, and asylum seekers. Rural women are still vulnerable in terms of income since they are more concentrated in lower-paid jobs and face pressures in terms of legal rights to land and other property, especially in Central Asia. In addition, it has been observed that while, in general, women and children are improving their economic situations when opting to migrate, some women and children are becoming more vulnerable due to the type of migration processes observed in the region (FAO, 2014a, 2017p), described in more detail in Part III.

Food assistance and livelihood support programmes in the ECA region. Food access for vulnerable population groups is supported by food assistance programmes, including vouchers and food subsidies, as well as food transfer programmes, cash transfers and school feeding programmes implemented by non-governmental organizations, National Red Cross Societies (Matosek and Kletskovskyy, 2015) and governments. Almost 86 percent of the National Societies of the Red Cross have observed some deterioration in the humanitarian situation in their respective countries as a result of economic situations and conflicts in the region and in neighboring countries. For those groups, more than 70 percent of National Societies of the Red Cross conducted projects on food distribution in partnership with the corporate sector in the form of food parcels, food banks, soup kitchens and lunches for schoolchildren (Matosek and Kletskovskyy, 2015).

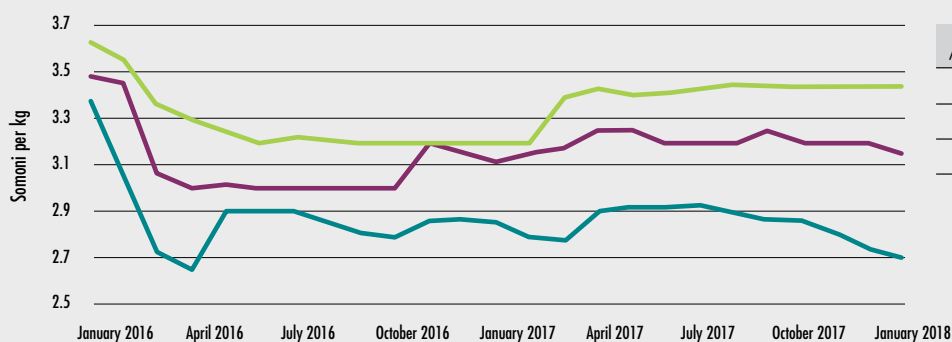
Schoolfood and nutrition programmes in the post-Soviet countries have been used to provide subsidized milk and meals to schoolchildren. For example, the Kyrgyz Ministry of Education and Science is expanding the Kyrgyz Republic's school meals programme in the country's poorest rural areas with financial and technical support from the Russian Federation and other donors (FAO/WFP, 2015). Since 2013, the Kyrgyz Government has worked to scale up and enhance school feeding programmes and now supports core school feeding programmes in many schools, as well as school vegetable and garden pilot projects (WFP, 2016). The programme is supported by the World Food Programme, and the local authorities – such as the Ministry of Health and Social Protection, the Ministry of Education and the Russian non-governmental organization Social and Industrial Food Service Institute – cooperate with farmers and food producers on the provisions of food supply to schools. The programme promotes the local procurement of pulses from smallholders, which in the long run contributes to economic development.²⁷

School feeding programmes are good examples of how child nutrition has been supported in ECA countries (FAO, 2017n). Such programmes are being implemented in Armenia, Kyrgyzstan and Tajikistan and are being supported by FAO, the World Food Programme, the World Health Organization and UNICEF. In European Union countries, the school fruit, vegetables and milk scheme was extended in 2017 to promote healthier diets (European Commission, 2018b). Improving school feeding programmes is an effective instrument for improving the state of food security and nutrition in countries. Multisectoral approaches are crucial to increasing the food security of children.

Provision of food assistance in emergency and recovery settings. In the ECA region, food assistance for vulnerable people is provided by national and international organizations as well as by governments. Various programmes are ongoing in the region at different scales. In Turkey, the Emergency Social Safety Net programme is run through a close cooperation among the World Food Programme, the European Union Civil Protection and Humanitarian Aid, the Turkish Red Crescent Society and the Turkish Government. The programme provides food assistance to the most »

FIGURE 19
FOOD PRICE TRENDS (WHEAT FLOUR) IN SELECTED COUNTRIES

Retail prices of wheat flour in Tajikistan

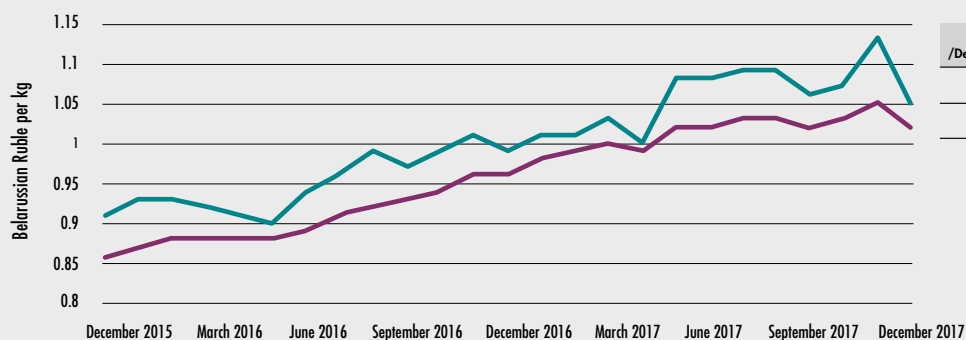


Latest price /January 2018/	Percent Change		
	1M	3M	1Y
2.70	-1.5	-5.5	-5.3
3.15	-1.6	-1.9	1.0
3.44	0	0	7.5

— Khujand
— Kurgonteppa
— Khorugh

SOURCE: Statistical Agency under President of the Republic of Tajikistan.

Retail prices of wheat flour in Belarus



Latest price /December 2017/	Percent Change		
	1M	3M	1Y
1.05	-7.1	-0.9	6.1
1.02	-2.9	0	6.2

— Minsk, Wheat (flour)
— National Average, Wheat (flour)

SOURCE: National Statistical Committee of the Republic of Belarus.

BOX 5 PARTNERSHIPS IN FOOD AND LIVELIHOOD SECURITY

In a Survey of National Societies of the Red Cross the majority of the surveyed societies in the ECA region indicated possible forms of corporate partnership for ensuring food and livelihood security for vulnerable people. Examples include trainings organized by the Hungarian Red Cross for mothers living at temporary family shelters – mostly single mothers who lack adequate training – in cooperation with the Government and other organizations.

About 56 percent of the 43 National Societies that responded to the survey reported that they are

SOURCE: Matosek and Kleitkovskyy (2015).

working in partnership with the private sector to ensure that vulnerable people receive foodstuffs and other items from large supermarket chains, grocery stores and producers. Such donations help ensure that vulnerable people have the basic necessities while at the same time helping to reduce food waste and ensure more sustainable and responsible food management. The Bulgarian Red Cross, for example, with the support of the Care Partners Network, provided more school meals to children from poor families under the Hot Meal Programme.

- » vulnerable refugees, including monthly cash transfers for purchasing food, medicine and essential items (WFP, 2018b), supporting approximately one million refugees, most of whom are from Syria.

Food assistance and support programmes have an important role in conflict and post-conflict areas. In Eastern Ukraine, 4.4 million people are affected by the protracted conflict, and around 1.8 million were internally displaced by the end of 2017 (UNHCR, 2017). Some 3.4 million people urgently require humanitarian assistance and protection (OCHA, 2018). The security situation remains fragile and is affecting individuals and communities. An estimated 1.2 million people are moderately or severely food insecure, with many resorting to negative coping mechanisms (WFP, 2018a). Unemployment, reduced income and high inflation rates in conflict-affected eastern areas of the country have severely limited civilians' ability to fend for themselves. Particularly vulnerable are the elderly living alone and female-headed households (FAO, 2018b).

Food assistance programmes are also needed in high-income or upper-middle-income countries because of economic inequalities.²⁸ For example, the Ministry of Finance and the Ministry of Industry and Trade of the Russian Federation are finalizing a programme of targeted social assistance for 2018, aiming at solving two problems

at the same time: helping low-income people who are not able to buy fresh meat, fish or vegetables on their own, and helping domestic industry. It is the second programme on food aid for the food support provision to poor and vulnerable population groups in the country. The previous one is the concept on food aid development (3 July 2014, No. 12-15h). At the same time, some local territories, for example Sakhalin Oblast in the Russian Federation, have already adopted their own decisions on the provision of food aid to poor and vulnerable people.

Kyrgyzstan and the Russian Federation are examples of countries that have increased public funding for the implementation of social protection programmes since 2015. The Government of Kyrgyzstan adopted a national social protection programme that aims to shift spending towards its Monthly Benefit for Poor Families with Children programme to reach 45 percent of the total benefit budget. This means that a tested transfer initiative provides monthly cash benefits to increase the per-capita income of eligible households to the guaranteed minimum income. The Russian Federation provides funding for family grants in its maternity capital programme. Grants are issued in the form of vouchers to families with a second or subsequent child, whether born or adopted, regardless of the family's income status (FAO, 2017p).

Policy actions for addressing concerns on food utilization, and malnutrition

Different policy measures were adopted from 2013 to 2016 covering nutritional aspects, including strategic policy documents, to improve nutrition and address multiple malnutrition challenges in the region (Table 14).

The food utilization dimension of food security plays a significant role in addressing malnutrition.

In order to raise awareness on this aspect, relevant high-level advocacy events have been conducted, such as the FAO/WHO Regional Symposium on Sustainable Food Systems for Healthy Diets in Europe and Central Asia. Several information-sharing and capacity-development platforms have been developed, including by the United Nations Standing Committee on Nutrition, the Forum on Food Security and Nutrition in Europe and Central Asia²⁹ and others. Dedicated projects and programmes on improving nutrition and promoting diversified, balanced diets are being implemented with the support of FAO, WFP, WHO and UNICEF.

TABLE 14
LIST OF POLICY DOCUMENTS ADDRESSING FOOD UTILIZATION AND NUTRITION THROUGH AGRICULTURAL AND RURAL DEVELOPMENT, HEALTH AND ADVOCACY MEASURES

Country/Region	Year of adoption	Main content
Austria	2013	National Nutrition Action Plan
Azerbaijan	2015	Azerbaijan National Strategy for The Prevention and Control Of Non-Communicable Diseases 2015–2020
Bosnia and Herzegovina	2013	Policy for Improving Child Nutrition in the Federation of Bosnia and Herzegovina
Bulgaria	2015 2015	National Health Strategy up to 2020 Ordinance on food safety and quality in child care and education facilities
Croatia	2015 2015 2016	National Programme “Healthy Living” Plan for Salt Intake Reduction National Strategy for the Implementation of the School Fruit and Vegetable Scheme
Czechia	2015	Prevention of obesity / Health 2020: Action Plan 2: nutrition and eating habits 2015–2020
Denmark	2014	Targets for the Danish population’s health the next ten years
Estonia	2018	Soda Beverages Tax Act
Europe*	2013 2015 2016 2014	Vienna Declaration on Nutrition and Noncommunicable Diseases in the Context of Health 2020 Physical activity strategy for the WHO European Region 2016–2025 European Charter on Counteracting Obesity European Food and Nutrition Action Plan 2015–2020
France	2016	Loi de modernisation de notre système de santé (article 14-II)
Georgia	2016	On Approval of Action Plan and Regulating Measures Related to Industrial Trans Fats
Greece	2013	Regulations for Hygiene and Types of Foods available in Schools and Educational Institutions
Hungary	2013	Maximum quantity of trans fatty acids allowed in foods
Ireland	2013	BAI Children’s Commercial Communications Code
Italy	2014	National Plan of Prevention 2014–2018
Kazakhstan	2013 2016	National Program on Prevention and Control of NCDs 2013–2020 National Program for Development of the Health Sector of Kazakhstan “Densaulik” 2016–2019

**TABLE 14
(CONTINUED)**

Country/Region	Year of adoption	Main content
Latvia	2014	Basic principles of public health 2014–2020
	2015	Rules for dietary salt
	2016	Provisions on the maximum level of trans-fatty acids in foodstuffs
Lithuania	2014	National Health Strategy 2014–2025
	2014	Order on the Labelling of Foodstuffs by Keyhole Symbol
	2015	Law on Advertising
Malta	2015	Food and Nutrition Policy and Action Plan for Malta 2015–2020
Netherlands	2014	Agreement on improvement of fat, sugar and salt composition of products
	2015	The Netherlands Commercial Code: Commercial for food products 2015: Marketing of food products to children
	2016	Regulations on fat products
Norway	2013	NCD strategy
	2014	Action plan salt 2014–2018
	2017	Norwegian National Action Plan for a Healthier Diet
Poland	2016	National Health Program for 2016–2020
Republic of Moldova	2014	National Programme in the field of food and nutrition 2014–2020
	2016	National Action Plan 2016–2020 for implementation of the NCD Strategy 2012–2020
Russian Federation	2016	The strategy of improving the quality of food products in the Russian Federation until 2030
Serbia	2016	Nutrition guidelines for infants and preschool and school age children
Sweden	2016	Action plan for overweight and obesity (2016–2020)
Switzerland	2013	Swiss Nutrition Policy 2013–2016
Tajikistan	2015	Nutrition and Physical Activity Strategy for Republic of Tajikistan 2015–2024
	2015	Policy on improving child nutrition in educational facilities
	2015	Strategy for Nutrition and Physical Activity 2015–2024
Turkey	2017	Regulations for Food Labeling and Nutrition Information
Turkmenistan	2014	The national strategy for the implementation in 2014–2020 of tasks defined in the Ashgabat Declaration prevention and control of non-communicable diseases in Turkmenistan and action plan for implementation of the national strategy
	2016	In 2016, the Comprehensive Strategy of Implementing Legislation on Sanitary and Phytosanitary Measures was approved. In accordance with this strategy, a process of harmonization of Ukraine’s sanitary and phytosanitary legislation with EU requirements continued in 2016 and in 2017 to enhance food quality control until 2019
Uzbekistan	2015	Concept and Strategies on Healthy Nutrition for the Population of Uzbekistan 2015–2020
	2017	Hygiene Norms and Standards for Nutrition in Pre-School Child Education Institutions
	2017	Technical regulations on food safety, labeling and claims

* United Nations System Standing Committee on Nutrition, Landscape of Knowledge Platforms, Communities of Practice and Advocacy and Information Networks for Food Security and Nutrition accessed via <https://www.unscn.org/en/forums/discussion-groups>; FAO, FSN Forum in Europe and Central Asia, accessed via <http://www.fao.org/tsnforum/eca>

In addition, a number of programmes and projects on balanced nutrition are under implementation by the European Union, the United Kingdom, Slovenia (European Parliament, 2011)³⁰ and other countries in the region. FAO’s global programme on Strengthening Food Systems for Nutrition-Sensitive Social Protection and the regional project “Developing Capacity for Strengthening

Food Security and Nutrition in Selected Countries of the Caucasus and Central Asia,” supported by the Russian Federation and FAO, aim at strengthening institutional capacities to reduce the prevalence of food insecurity and malnutrition in Armenia, Kyrgyzstan and Tajikistan while emphasizing the strengthening of social protection systems.

BOX 6

FAO PROJECT “SCHOOL FOOD AND NUTRITION PROGRAMMES” LINKED TO THE AGRICULTURAL SECTOR

The FAO project “Developing Capacity for Strengthening Food Security and Nutrition in Selected Countries of the Caucasus and Central Asia” aims to enhance local diet quality and promote broader sustainable agricultural development. In Armenia, it involves the establishment of school gardens in three schools, and in Tajikistan, 20 school gardens are being set up. Kyrgyzstan is benefiting from the implementation of a sustainable centralized model for the supply of agricultural products. A total of 30 schools and other social institutions are being supported by the services of the logistics centre.

The project is implementing two “Strengthening Food Systems for Nutrition-Sensitive Social Protection” models, which provide beneficiaries with additional livelihood support for improved nutrition and rural development outcomes. The Cash+ approach is being implemented in Armenia, whereas the Productive

Social Contract/Cash+ model is being tested in Kyrgyzstan. These models will link the countries’ national social protection programmes in support of households with children through small-scale, nutrition-sensitive agricultural innovations, training and extension services, and nutrition education.

This project operates at global, regional and country levels and is based on three major outputs:

- improved capacities for results-oriented policies, legislation and programmes to ensure the achievement of food security and high levels of nutrition for the entire population;
- improved multi- and cross-sectoral coordination for good food security and nutrition governance; and
- improved capacities of governments and other relevant stakeholders for human resources and organizational development in the domain of food security and nutrition.

SOURCE: FAO, Areas of Work, School Food and Nutrition programmes, <http://www.fao.org/in-action/fns-caucasus-asia/areas-of-work/school-food-and-nutrition/en/>

As described in Part I, the malnutrition problems persisting in the ECA region are also related to diets with low micronutrient contents, which can be addressed by diversification of diets (the food-based approach), increasing micronutrient content of diets, and other measures, including fortification. The latter, however, is not implemented in many of the ECA countries, and recent analysis of nutrition data still show high a prevalence of anaemia.

Advocacy and education on nutrition. One factor contributing to nutrition-related issues is the lack of knowledge and understanding regarding healthy diets and the importance of breastfeeding. Therefore, advocacy and awareness-raising activities, building on nutrition-related information and action networks, are key. Nutrition education aims to inform people about

what constitutes a healthy, balanced diet, as well as how to improve their diets and lifestyles. While interventions aimed at schoolchildren are widespread throughout the European Union, adults in the workplace are not currently the focus of awareness-raising campaigns. Although nutrition education is not compulsory in most ECA countries at present, several countries foresee targeting education or training on nutrition for children (FAO, 2013a), mothers of young children, and pregnant women.

Food safety policies and institutional reforms. Food security, nutrition and food safety are inextricably linked. When food is unsafe, the availability of adequate food may be reduced, potentially resulting in adverse health outcomes such as infectious and chronic diseases with potential knock-on adverse effects on nutritional

status and well-being. The burden of foodborne disease due to the biological and chemical contamination of food is still significantly high in the ECA region, and it needs to be addressed by the continuous improvement of food safety control systems.

Countries in the region recognize the need to improve their food safety control systems and align their national regulations with international and regional standards and requirements, such as the Codex Alimentarius and standards from the European Union and Eurasian Economic Union. For example, harmonized food safety regulations have been introduced in Armenia, Belarus,

Kazakhstan, Kyrgyzstan, and the Russian Federation through the Eurasian Economic Union. These reforms address domestic food production (including local and traditional food products), export/import control and the improvement of consumer health. FAO supports countries in building robust food safety control systems based on identified needs and priorities, including the use and adoption of international food safety standards. Common and recurring priorities in the ECA region include developing risk-based inspection systems, strengthening laboratory capacities, improving scientific and risk-assessment capacities as the basis for decision-making on food safety, improving food import and border control, and coordinating

TABLE 15
EXAMPLES OF RECENT FOOD SAFETY REFORMS IN ECA REGION

Country	Recent major institutional reforms	New elements of the regulatory framework
Armenia	The State Service of Food Safety (SSFS), created in 2010 and operational in 2017, is a unified authority that is responsible for the whole food supply chain. All the inspections of food safety and quality control, along with veterinary and phytosanitary inspections, are within the structure of SSFS.	Government Decree 1730-N on creation of the State Food Security Service under the RA Ministry of Agriculture; approving the SFSS Charter and structure (30 December 2010)
Azerbaijan	The Food Safety Agency (FSA) was established in 2017, integrating official inspection and control for food, plants and animals. It will help ensure the regulatory framework of food safety (development and approval of sanitary norms and rules, as well as hygienic standards), and will carry out risk analysis and hygiene certification while also providing a quality certificate for food products exported to foreign countries and ensuring state control over the protection of the rights of consumers of food products at all stages of food production on the basis of the “from field to table” principle.	Decree of the President of the Republic of Azerbaijan No. 1235 “On additional measures with respect to the improvement of food security system in the Republic of Azerbaijan” (10 February 2017) Draft law on food security has been prepared.
Republic of Moldova	The National Food Safety Agency (NFSA) was created in 2013 through the reorganization of the Sanitary-Veterinary and Food Safety of Animal Origin Agency and the General Inspectorate of Phytosanitary Supervision and Seed Control.	The National Food Safety Agency was established according to the provisions of Law No. 113 of 18 May 2012 “About establishment of the general principles and instructions of the legislation on safety of foodstuff”
Tajikistan	The Committee on Food Security under the Government of the Republic of Tajikistan was established in 2017 as a central executive body performing special executive, controlling, permitting and other functions established in the field of veterinary, phytosanitary and plant quarantine, plant protection, seed production and breeding.	Decision of The Government of the Republic of Tajikistan No. 595 (29 December 2017)

efforts to address issues such as antimicrobial resistance that require a multi-sectoral approach. FAO works with countries to adequately prepare for the FAO/WHO Coordinating Committee for Europe (CCEURO), which will meet in Kazakhstan in 2019, and to maximize engagement and results from the regional meeting and network provided by CCEURO.

The recent reforms related to food safety made by a number of countries in the region are notable. Institutional reforms have been undertaken to combine the official control and inspection for food safety control and animal and plant health, in order to improve the coordination among different actors (such as Armenia, Azerbaijan, Republic of Moldova and Tajikistan). Improved coordination can be effectively achieved through the creation of a multi-agency food safety committee or through the establishment of a single agency. These reforms have been accompanied by relevant legal reforms, and work is ongoing (the food law in Azerbaijan, for example) and can be reinforced through the development of a comprehensive food safety strategy.

Supporting the stability of food security and nutrition through developing sustainable food systems: strengthening import capacity, stocks, markets and innovations

Sustainable food production and food systems play a crucial role in ensuring stable food prices and agricultural commodity markets and in assuring adequate diets for food security and nutrition for all in the ECA region. Within the 2030 Agenda for Sustainable Development, aspects of food security stability need to be addressed to assure positive interactions between SDG 2 and all other goals.

The main risks related to food security stability in the ECA region are: (i) heavy food import dependency (the Western Balkan countries, Caucasus, and Central Asia); (ii) vulnerability to the impacts of climate change and variability, including in the most vulnerable countries (such as Albania, Armenia, Georgia, Kyrgyzstan, Republic of Moldova, Serbia, Tajikistan, the former Yugoslav Republic of Macedonia, Turkey, Turkmenistan and Uzbekistan); (iii) limited and declining natural resources and

their unsustainable use; (iv) increased variability of weather patterns; and (v) political instability and social unrest. External factors also influence the stability and sustainability of food production and provision, including energy and fertilizer prices, currency fluctuations, trade restrictions, stocks of staple products, etc. The depreciation of all the national currencies against the United States dollar and the euro in post-Soviet countries of the region, which began in 2014, continued in 2015 and 2016 and, in some cases, 2017, had negative effects. Due to weaker national currencies and falling consumer demand, the total value of imports of agrifood products in United States dollar terms decreased in many countries. Despite the depreciation of national currencies, the decline in demand for agrifood products in the region and lower international prices contributed to reductions in the value of agrifood exports from the region (FAO, 2017f).

Food prices and market volatilities may be caused by a number of other factors as well, including adverse weather patterns, climate change, natural disasters, trade restrictions, limited infrastructure facilities, and political and social instabilities. The impacts of food prices include increasing price volatility or depreciation and fluctuation of national currencies.

Various countries have taken decisions to regulate prices and support the markets (FAO, 2017o). Considering country priorities and the regulatory environment (EU or EEU membership, for example), the policy tools assuring price stability may vary in Europe and Central Asia. They can involve the adjustment or reform of the currency exchange regime, currency devaluation or appreciation by the Central Bank, market intervention and imposing import duties, tariffs and bans on certain commodities. In some countries – for instance in Kazakhstan – state-owned companies may manage the strategic grain reserves, assuring price stability via the procurement of crops to balance the interests of producers and consumers. In the European Union, market interventions have played a less important role since the 1990s, and price stability and regulation of food availability is achieved via the first pillar of the common agricultural policy (including direct payments), providing a basic payment for producers. This form of subsidy is not linked to the volume of production but is distributed to farmers who follow strict rules on

human and animal health and welfare, plant health, and the environment. The EU also distributes green payments to farmers who may fulfill extraordinary requirements and apply methods that go beyond basic environmental protection (European Commission, 2018a).

Many post-Soviet countries have either adopted or are in the process of developing programmes and strategies on agrifood export promotion that become part of their national legislation. Many governments of these states have prioritized boosting export volumes as one of the stimuli for economic growth, while an effective foreign trade policy is instrumental in innovative development and sustainable growth in the agricultural sector. Overall, export promotion measures contributed significantly to the export policy implemented among the countries in the region in 2015–2017.

The assurance of safety for foods traded and the management and control of animal and plant diseases are essential for trade policies and the potential to increase market access (FAO, 2017m).

Overall, in the countries of Europe and Central Asia, the volatility of domestic food inflation remained calm – except for a seasonal rise in potato prices in Armenia, Belarus, Kazakhstan, Kyrgyzstan and the Russian Federation (FAO, 2018a).

Regarding national currency fluctuations, significant volatility and increases for 2016–2018 have been recorded in the Ukrainian hryvna: 12.4 percent in 2016 and 13.7 percent in 2017. Food price inflation in Ukraine was reported at around 18 percent in early 2018 (January–February) over the same period in 2017 (The State Statistics Service of Ukraine, 2018).

TABLE 16
OVERVIEW OF POLICY MEASURES ON MARKET INTERVENTION, TRADE AND INNOVATION IN SELECTED COUNTRIES

Country	Year	Field	Main content or title of the policy documents
Azerbaijan	09/2016	Market interventions	The State Agency for Material Resources has increased the procurement price of high-quality wheat from AZN 270 (USD 165) per tonne to AZN 280 (USD 171) per tonne
Belarus	12/2017	Agricultural innovation	The Strategy on Innovations
Kazakhstan	2017	Agricultural innovation and trade	Adoption and update of the mid-term development strategy for 2050 – The Third Modernization of Kazakhstan: Global Competitiveness
Kazakhstan	12/2016	Trade	The Food Contract Corporation (FCC), the national body managing the state grain reserves, announced in early December an increase in the purchase price ranges for wheat according to quality
Kyrgyzstan	2018	Market regulation	Decree of the Government on the Project for Financing Horticulture and Livestock Farmers
Russian Federation	10/2017	Agricultural innovation	The State Federal Program on Development of Land Melioration for 2014–2020
Turkey	2016	Livestock production	Subsidy program for young farmers in Turkey, from the General Directorate of Agricultural Establishments, affiliated with the Ministry of Food, Agriculture and Livestock
Uzbekistan	10/2017	Trade	Reduction of custom duties on foodstuffs, including fish, milk, spices, wheat, buckwheat, rice, cocoa and other goods
Uzbekistan	02/2018	Trade	Temporary exemption from payments of fees for customs-related services for foodstuffs and raw materials, including cattle, sheep and goats, cattle meat, lamb, potatoes, soybeans, sunflower seeds, sesame and sugar (effective until 1 January 2019)

During 2017 and 2018, a slight volatility in food prices was observed in the countries of Europe and Central Asia, although a spike was recorded in potato prices in June 2017. A significant increase in potato prices was driven by production shortfalls, mainly in post-Soviet countries. However, in general, food price volatility is relatively low in the region (Figure 19).

The stability of food security is further linked to socio-economic processes, such as social unrest and its consequences, caused by poverty, unemployment and political instability. A review of rural development and employment and livelihoods in the region, along with their implications for the population, especially rural women and youth, and challenges and opportunities related to migration, is described in Part III of this report. ■



MARDIN, TURKEY

Syrian and Turkish children at Bahcesehir College, Mardin, Turkey learn how to make apricot jam from apricots they grew as part of the FAO project "Enhanced Resilience through Increased Economic Opportunities for Syrian Refugees and Host Communities".

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PART 3
**MIGRATION,
GENDER AND
YOUTH:
LINKAGES
WITH RURAL
DEVELOPMENT
AND FOOD
SECURITY IN
EUROPE AND
CENTRAL ASIA**

MIGRATION, GENDER AND YOUTH: LINKAGES WITH RURAL DEVELOPMENT AND FOOD SECURITY IN EUROPE AND CENTRAL ASIA

The evidence of persisting food insecurity and the recent increase of various forms of undernourishment in Europe and Central Asia prompt the exploration of their relationship with other development issues such as rural poverty, migration and gender. An understanding of the integral links among these elements will be critical in progressing towards meeting the targets of the Sustainable Development Goals (SDGs) and in achieving Agenda 2030.

Successful monitoring of the progress towards achieving the food security and nutrition targets in SDG 2 – as well as SDG 2.3 on doubling by 2030 the productivity and income of small-scale food producers – will need to consider the nexus of migration, food security and nutrition, encompassing their main drivers and challenges. Migration and food security have multiple intersections and complex linkages that need to be analysed and addressed holistically (IFPRI, 2018). Advancing towards success on the SDGs – particularly SDGs 1, 2, 3, 4, 5, 8, 10, 16 and 17 – also will need to consider such key factors as gender, youth and the overall vulnerability of people.

While five of the top ten global migration destinations are located in Europe and Central Asia,³¹ the region is also among the top three globally for outmigration, both intraregional and interregional (McKinsey & Company, 2016). Remittances to some countries in the ECA region account for important shares in national gross domestic products and in individual household incomes. How can food security in the countries of the region benefit from these dynamics, and what can be done to harness these growing phenomena as opportunities for growth?

This chapter focuses on the ECA countries, mainly in the Caucasus, Central Asia, European Commonwealth of Independent States (CIS), Western Balkan countries and Turkey, in which FAO supports interventions and programmes, exploring the regional linkages among rural labour

outmigration, gender and food security, highlighting the potential of remittances to stimulate investment in the agricultural sector, improve the incomes of rural households, and help countries to work towards zero hunger. In particular, this chapter discusses migration-related issues in the ECA region and reviews migration trends, patterns and drivers. It explores the linkages between migration and food security, identifies the roles of remittances in food security and nutrition, and discusses the impact of migration on gender and youth. Furthermore, it recommends what the international community in general, and FAO in particular, could do to assist the countries of the region to address these challenges – by empowering rural communities and supporting the families (especially rural women and youth) who stay behind – in the achievement of sustainable development.

In the United Nations Secretary-General's report to the General Assembly Making migration work for all (United Nations, 2018b), migration was considered an engine of economic growth, innovation and sustainable development, allowing millions of people to seek new opportunities each year and contributing to broader goals of eradicating poverty and fighting against inequality, including gender inequalities.

3.1 MIGRATION IN THE ECA REGIONS: DEFINITIONS, PATTERNS, TRENDS AND DRIVERS

Definition of Migration

FAO defines migration as a movement of people, either within a country or across international borders, irrespective of the drivers, duration or

purpose of the movement. The term encompasses economic migrants, migrants in distress, internally displaced persons (IDPs), refugees and asylum seekers, returnees, and people moving for other purposes, including for education and for

family reunification (FAO, 2018e). The overview of the main international definitions used for describing migration processes and their linkages is provided in [Box 7](#).

BOX 7 MAIN DEFINITIONS RELATED TO MIGRATION

The International Organization for Migration (IOM) describes migration as “the movement of a person or a group of persons, either across an international border, or within a State. It is a population movement, encompassing any kind of movement of people, whatever its length, composition and causes; it includes migration of refugees, displaced persons, economic migrants, and persons moving for other purposes, including family reunification” (IOM, 2011). For the purpose of its work, FAO adopts this broader definition of migration.

Rural migration: the movement of a person or a group of persons, from and/or to a rural area (including between different rural areas). It may occur within a country or it may require crossing an international border (FAO, 2018j).

Circular migration: the temporary and repetitive movement of a person or a group of people between and area of origin and one or more destination areas (FAO, 2018j).

Economic migrant: a person leaving his or her habitual place of residence to settle outside his or her country of

origin in order to improve his or her quality of life. This term is often loosely used to distinguish from refugees fleeing persecution, and it is also similarly used to refer to persons attempting to enter a country without legal permission and/or by using asylum procedures without bona fide cause. It may equally be applied to persons leaving their country of origin for the purpose of employment (IOM, 2011).

Forced migration or displacement: a migratory movement in which an element of coercion exists. It includes “threats to life and livelihood, whether arising from natural or man-made causes (e.g. movements of refugees and internally displaced persons as well as people displaced by natural or environmental disasters, chemical or nuclear disasters, famine, or development projects)” (IOM, 2011: 39).

Internal migration: the act of moving within the country of origin (e.g. from a rural to an urban area) (IOM, 2011).

Internally displaced persons (IDPs): IDPs are “persons or groups of persons who have been forced or obliged to flee or to leave their homes or places of habitual residence, in particular as a result of or in order to avoid

**BOX 7
(CONTINUED)**

the effects of armed conflict, situations of generalized violence, violations of human rights or natural or human-made disasters, and who have not crossed an internationally recognized State border" (IOM, 2011: 52).

Long-term migration: migration for at least one year, irrespective of the causes or the means (IOM, 2011).

Temporary migration: when the migrant has a specific purpose and later returns to the area of origin or migrates to another area. Two of the most common examples are seasonal and circular migration.

Seasonal migration: short-term migration that happens in specific seasons. For example, casual agricultural labourers may move to other regions during peak seasons for short-term employment before returning home, or agricultural workers may move to cities or towns during periods of limited demand for labour in rural areas (FAO, 2018j).

Voluntary migration: a migratory movement in which the decision to move is undertaken on a voluntary basis.

Refugees: people fleeing conflict, violence or persecution across an international border. Asylum seekers are people in the process of having their refugee status determined.

Internally displaced persons are people who have been forced to move due to conflict, violence or persecution but who have not crossed international borders.

Migrant: According to IOM, a migrant is any person who is moving or has moved across an international border or within a state away from his/her habitual place of residence, regardless of (1) the person's legal status; 2) whether the movement is voluntary or involuntary; (3) what the causes for the movement are; or (4) what the length of the stay is (IOM, 2018c).

Distress migrant: a relatively new term, adopted by FAO for defining rural migration, especially of youth, caused by food insecurity, rural poverty, limited income opportunities, inequality and environmental degradation (FAO, 2017q).

Undocumented migrant: one who has entered, or is living in, a country without a proper visa or in violation of laws governing the entry and exit of foreigners. Also referred to as **irregular migration**.

In view of the ongoing debates on migration terminology, these definitions – which are not exhaustive and do not represent the full scope of different forms of migration – are provided only for the purpose of this report.

Key Facts, Trends and Patterns of Migration in the ECA Region

In 2017, there were 258 million international migrants worldwide, a significant increase from 220 million in 2010 and 173 million in 2000 (UNDESA, 2017a). More than 90 percent of the world's cross-border migrants move primarily for economic reasons, while the remaining ten percent are refugees and asylum seekers who have fled to another country to escape conflict and persecution (UNDESA, 2017a). The median age of all international migrants in 2017 was 39.2, compared with 38.0 in 2000, and women were slightly less than

half of all international migrants worldwide (with the regional deviations proving women's higher representation among migrants in Europe) (UNDESA, 2017a). The proportion varies considerably in the ECA region; in countries such as the Republic of Moldova and Ukraine, the majority of emigrants are female, while in other countries, such as Armenia, Tajikistan and Uzbekistan, the majority are men. Female migrants are seen as moving independently rather than as dependents and are more involved in sending remittances and supporting their families from abroad, which in turn is altering social and familial dynamics and decision-making. A large share of both internal and international migrants

BOX 8 MIGRATION KEY FACTS AND FIGURES IN THE ECA REGION

- The ECA region is the second in the world for receiving migrants, with 78 million international migrants out of the total 258 million worldwide.
- Western Europe was the largest subregion among the top destinations for international migrants in 2017. Germany, Russian Federation, United Kingdom, France and Spain (listed by number of migrants) were among the top ten destination countries for migrants in 2017.
- In the ECA region, the share of women international migrants is estimated at 52 percent, higher than the global average of 48.4 percent.
- In 2017, international remittances were estimated at USD 44 billion in Europe and Central Asia. Globally, there were an estimated USD 616 billion (World Bank, KNOMAD, 2016 and 2017).
- After three consecutive years of declines, remittances sent to ECA were estimated to rise by 20.9 percent in 2017 over the number in 2016.
- In the ECA region, the number of internally displaced persons is around 4 million, which is over 9.2 percent of the total number of IDPs in the world. For the fourth consecutive year, Turkey hosted the largest number of refugees worldwide, with 3.9 million people.

SOURCES: FAO, Strengthening sector policies for better food security and nutrition results, Policy guidance note 10 (2017); UNDESA (2017); UNHCR (2016); IOM (2017); World Bank KNOMAD Brief No. 26 and No. 27 (2016, 2017).

leave rural areas to move to places where they believe they will find jobs and opportunity, with around 40 percent of international remittances sent to rural communities (UNDESA, 2017a).

International Migration in Europe and Central Asia

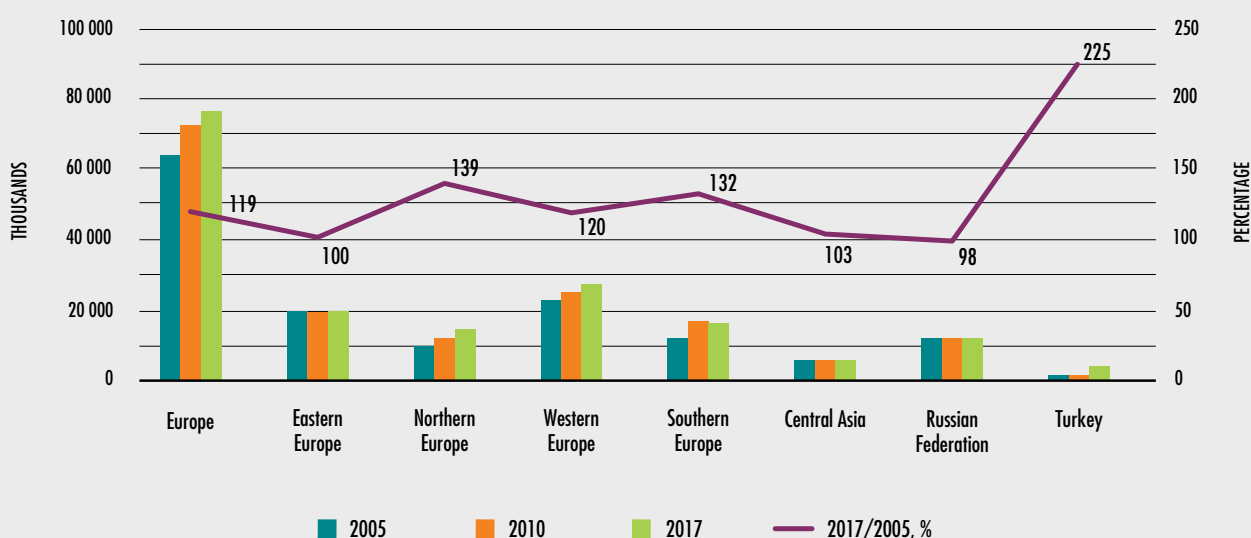
As origin, transit and/or destination countries, all countries in Europe and Central Asia are experiencing some form of migration processes. The patterns and scales of migration in the region are diverse and include both internal (particularly from rural to urban areas), and international movements, primarily between countries in the region but also from other parts of the world.

The analysis of migration in the ECA region needs to be differentiated by countries of destination (hosting), transit, and origin. In 2015, Europe-to-Europe migration represented the second-largest regional migration corridor in the world, after the corridor of migration to North America from Latin America and the Caribbean.

Each grew steadily in the 1990s and more rapidly during the 2000s before finally slowing thereafter (IOM, 2018a). Among European Union countries, Germany (12 million migrants), France (7.5 million), the United Kingdom (7.5 million), Spain (5.5 million) and Italy (5 million) accrued the largest foreign-born population in 2015, coming from North Africa, India, Poland, Turkey, Kazakhstan, the Russian Federation, Romania and other countries. From the 20 top migration countries in the region, Switzerland had the highest share of migrants in its population (29 percent), followed by Austria, Sweden and Ireland (IOM, 2018a).

Between 2005 and 2017, the number of international migrants increased worldwide, and in Europe it increased overall by 19 percent. The largest increases in the region were observed in the countries of Northern Europe (by 39 percent), Southern Europe (by 32 percent) and Turkey (by more than 50 percent) (Figure 20). The ECA region is the second in the world for receiving migrants, with a stock of 78 million international migrants in 2017.

FIGURE 20
INTERNATIONAL MIGRANTS IN THE ECA REGION AND SELECTED COUNTRIES, 2005–2017
(THOUSANDS OF PEOPLE)



SOURCE: UN Statistics Division, UN DATA; <http://data.un.org/>

Migration processes are governed by relevant international agreements.³² Within the 2030 Agenda on Sustainable Development, addressing the root causes of these processes, efforts are combined with policies and programmes to combat extreme poverty through fostering rural development, to support access to education and employment, and to achieve food security and nutrition for all.

Within the ECA region, the Russian Federation is the second-largest destination country for migrants in Europe, after Germany. In Eastern Europe, the Caucasus and Central Asia, the Russian Federation remains the major destination country in the subregion (and is one of the most significant in the world). In 2017, the Russian Federation hosted more than 11.7 million international migrants (stock) (UNDESA, 2017a), with around half coming from

neighboring countries – most notably, CIS members – although the economic slowdown between 2012 and 2015 and changes in immigration policies in the Russian Federation have seen the inflow of migrants and the outflow of remittances decreasing in 2014 from previous years. Immigration in 2017–2018 is showing an upward trend.

Internally displaced persons and refugees in the ECA region

Along with international migration, the ECA region witnessed an increase in recent years in internal displacement and in the refugee population. According to the Global Report on Internal Displacement 2017, the total number of

internally displaced persons (IDPs) recorded in the ECA region exceeded four million people (with Azerbaijan accounting for 562 000 people; Bosnia and Herzegovina 98 000 people; Cyprus 278 000 people; Georgia 208 000 people, and Turkey 1.1 million people) (IDMC, 2017, pp. 113–116). In addition, Turkey hosts the largest refugee population worldwide, with approximately 3.9 million refugees and asylum seekers, mostly from Syria but also from Iraq, Afghanistan and other countries (IDMC, 2017, pp. 113–116). In Ukraine, roughly 1.8 million IDPs were estimated at the end of 2017 (UNHCR, 2018b) as a result of the protracted conflict in the eastern part of the country, which has also generated an outflow of migrants and refugees to neighboring states and to EU countries. A large number of Ukrainians have also applied for asylum in the Russian Federation, and an increasing number of Ukrainians have left the country as migrant workers, particularly to Poland and the Russian Federation. The impact of the situation in Eastern Ukraine on food security is critical, with increases in poor food consumption, applications of negative coping mechanisms and reductions in food expenditure. In the government-controlled area, 33 percent of surveyed IDP households had “only enough funds to cover food,” and 11 percent had to “limit expenses even for food” (IOM, 2018b).

Since 2011, the protracted conflict in the Syrian Arab Republic has caused major movements of people to neighbouring countries. Some countries in the region – the Russian Federation, Greece, Serbia and some Balkan countries – were transit corridors for migrants from Western and Southern Europe. This form of migration increased in 2015 and early 2016, particularly from and through Turkey and the Western Balkans to northern European Union countries, primarily Austria, Germany and Sweden.

Based on the United Nations High Commissioner for Refugees’ 2017 global report, after the European refugee crisis in 2015 and 2016, 2017 was a year of transition and relative stability, though challenges did still exist for migrants. Unresolved conflicts in the region and ongoing violence in other parts of the world fueled large-scale and protracted displacement. With increasing restrictions on access to territory

and to international protection, along with difficult integration possibilities, a limited number of safe pathways and the often-lengthy processes required to access them, many fleeing persecution around the world were left with few choices. Refugees and migrants continued to undertake dangerous journeys, with a significant number known to have died or gone missing while crossing the Mediterranean Sea in 2017. While this situation remained a concern, the overall number of refugee and migrant arrivals in Europe fell in 2017 by 53 percent from 2016 figures, mainly as the result of fewer people travelling from Turkey to Greece and from North Africa to Italy, although arrivals into Spain increased (UNHCR, 2018b).

Turkey remains the country hosting the world’s largest number of refugees (UNHCR, 2018a), with a total of almost 3.9 million. The total refugee population hosted in Turkey comprises 3.52 million people from the Syrian Arab Republic, 169 000 from Afghanistan, 142 000 from Iraq, and 52 000 from other countries (UNHCR, 2018b). Migration processes in Europe continue to evolve. The number of first-time asylum seekers to the 28 European Union countries (EU-28) has fallen by nearly a third, from the peak reached in October 2015 to December 2016. Between mid-2015 and mid-2016, the number of refugees in the EU-28 increased by 273 000, to 1.6 million. During the same period, the number of refugees worldwide rose by 1.4 million, to 16.5 million.

European countries are currently engaged in identifying ways to regulate migration flows and adopt legislation. In 2016, the European Union and Turkey reached an agreement to stem irregular migrant crossings. The European Union adopted a new “Migration Partnership Framework” in June 2016, aiming at well-managed migration through coordination among its Member States, institutions, and third countries to reduce the number of people making dangerous journeys to Europe (European Commission, 2017). The implementing framework focuses on priority countries of origin, and transit Syrian refugees are supported in Turkey under the Refugee Facility.

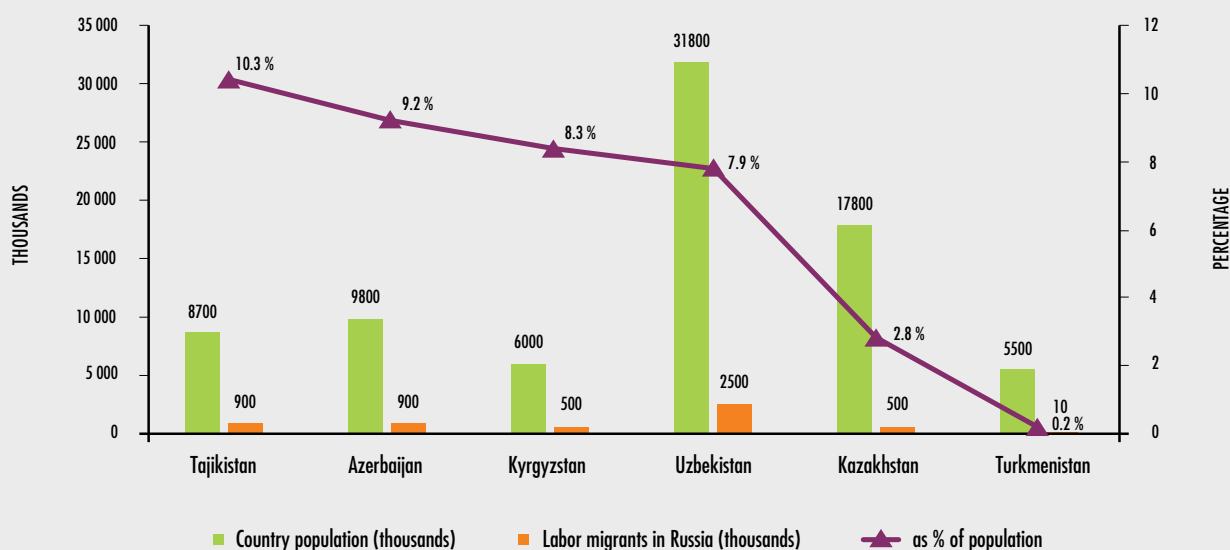
The Russian Federation hosted more than 11 million international migrants (stock), with half from neighbouring countries

The region is experiencing regular and irregular labour migration flows. Labour migration from Armenia, the Republic of Moldova, Ukraine and Central Asian countries to the Russian Federation and other countries (and, for the Central Asian countries, to Kazakhstan) forms one of the largest and most stable migration corridors in Eurasia and the world (Ryazantsev, 2016). Analysis of migration by countries and trends shows (Figure 21) that Tajikistan has the highest share of migrants (over ten percent of the total population has emigrated elsewhere), although Uzbekistan has a higher number of outmigrants

(two million), correlated to lack of employment opportunities and labour surplus in rural areas and constraints in accessing agricultural inputs. The lowest share of migrants is from Turkmenistan, related to the limited mobility of its population due to legislation in the country.

The migrant population is primarily composed of labour migrants; according to expert estimates, it includes between 2.7 million and 4.2 million people, or between 10 percent and 16 percent of the economically active population of Central Asia (Ryazantsev, 2016). In 2017, the Russian Federation hosted more than 11 million international migrants (UNDESA, 2017a), with around half of them coming from neighboring countries (2.5 million from Uzbekistan and 1.13 million from Tajikistan, followed by China and Ukraine) (IOM, 2018a, p. 259).

FIGURE 21
ESTIMATED NUMBERS OF LABOUR MIGRANTS IN THE RUSSIAN FEDERATION FROM CENTRAL ASIA AND AZERBAIJAN (MID-2017)



SOURCE: FAO (2018d).

The key drivers of migration in the ECA region

The main drivers of migration are economic, social, demographic and political factors. Along with conflicts, violence and natural disasters, many migrants, especially from rural areas, move because of rural poverty and food insecurity. FAO categorizes the drivers of rural migration as (i) economic causes (rural poverty and food and nutrition insecurity in the absence of alternative opportunities to improve livelihood prospects and farming practices); (ii) political causes (inequality between rural and urban areas, conflicts and political instability, limited access to basic social services); and (iii) environmental causes (climate change and extreme weather events, the depletion of natural resources, environmental degradation). The decision to migrate is often not solely based on one category of causes but rather a mix of different factors.

Low agricultural productivity and poor rural economy are the major causes of rural migration in ECA

More than 75 percent of the world's poor and food-insecure people live in rural areas, mostly depending on agricultural production for their subsistence. The agriculture sector remains a vital part of many economies of Europe and Central Asia, with an average of around 30 percent of the population living in rural areas, reliant and dependent on agricultural production for employment and food provision. There are considerable differences among the countries.

The consequences of climate change processes and the depletion of natural resources due to environmental degradation – and the related loss of livelihoods – are emerging as further reasons for migration, exacerbating the economic drivers of migration as well as the occurrence of forced displacement. Land degradation and desertification affect land used for agriculture, undermining farmers' productivity and resilience. Droughts and the related volatility of food prices increase poverty, hunger, and the need to find viable options elsewhere. Smallholder family farmers, small-scale fishers, forest-dependent

communities and pastoralists are hardest hit by weather-related disasters, which are increasing in frequency and intensity.

Changes in demographic patterns in the countries of origin and destination, the pace and quality of reforms in agriculture and rural development, rural poverty, lack of jobs, and poor infrastructure all have implications for the way people move and/or migrate. In addition to intercountry differences, the region is characterized by a specific demographic profile, encompassing a wide range of natural, economic and social diversity.

Although the average level of agricultural contribution to gross domestic product in 2015 was 2.1 percent (and in the European Union, 1.6 percent) in the entire region, agriculture is for some economies a vital part. A level of 25 percent was observed in Tajikistan, followed by Albania at 23 percent (World Bank, 2018d). Despite the general trend of the share of agriculture in GDP falling (for example, in Central Asian states it has fallen to 18–25 percent in the past 25 years, and to below ten percent in the oil-rich countries of the subregion), the sector still employs 29–45 percent of the total workforce in Albania, Armenia, Azerbaijan, Georgia, Kyrgyzstan and Uzbekistan. In Tajikistan, 57 percent of the total workforce is employed in agriculture (Table 17) (FAO, 2018d, p. 31). Agriculture represents the most important source of income for rural women – farmers, unpaid workers on family farms, and women who work as paid or unpaid labourers on other farms and agricultural enterprises (FAO, 2018d, p. 31). At the same time, employment in the agricultural sector remains associated with low and unstable incomes, a high level of informality and, as a result, limited social protection. There is significant gender inequality in pay, with women having little or no access to social infrastructure; life opportunities such as access to quality education are limited in rural areas, which can be a further driver of migration.

A review of the dependency of rural development on agriculture (Table 17) shows wide differences among the countries and subregions, with countries where the share of rural population in total is over 50 percent (Bosnia and Herzegovina, Kyrgyzstan, Republic of Moldova, Tajikistan, and Uzbekistan), while the average is about 30 percent

TABLE 17
INDICATORS OF RURAL DEVELOPMENT IN THE ECA REGION, 2017

	Rural population, % of total	Employment in agriculture, % of total	Unemployment, % of labour force
ECA	29.0	8.7	-
Eastern Europe	30.4	9.8	6.1
Northern Europe	18.8	2.0	5.8
Western Europe	21.0	2.1	6.4
Southern Europe⁹	29.8	6.8	15.3
EU-28	25.0	4.5	7.3
Central Asia	47.0	28.3	8.1
Kazakhstan	46.8	18.1	5.6
Kyrgyzstan	64.0	29.2	7.8
Tajikistan	73.0	57.2	10.8
Turkmenistan	50.0	19.4	8.6
Uzbekistan	64.0	29.0	8.9
Caucasus	-	-	-
Armenia	37.2	35.0	16.6
Azerbaijan	45.4	36.7	5.2
Georgia	47.0	44.7	13.9
Western Balkans countries and Turkey¹⁰	-	-	-
Albania	42.0	41.4	15.8
Bosnia and Herzegovina	60.0	18.0	25.4
The former Yugoslav Republic of Macedonia	43.0	18.0	24.4
Serbia	36.0	7.5	17.4
Montenegro	26.0	19.6	10.8
Turkey	26.0	8.6	10.8
European CIS	-	-	-
Republic of Moldova	55.0	28.8	5.0
Russian Federation	26.6	6.8	5.8
Ukraine	30.0	15.7	8.0

SOURCE: UN Data, online database, Data on EU unemployment from EUROSTAT.

⁹ By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping and are not reflected in Table 17.

¹⁰ Only non-EU Western Balkan countries are included.

in Eastern Europe and Southern Europe and about 47 percent in Central Asia and the Caucasus countries. A further decline of this share is expected and indicates further urbanization and implications for employment and migration. This trend is expected based on the significant decline in agricultural employment from 2005

to 2017 reported throughout the region, from 11.7 percent to 8.7 percent for the entire ECA region and from 20.4 percent to 15.2 percent in the ECA region excluding high-income countries (World Bank, 2018e). The main sources of migrants in the region are the rural population and unemployed persons.

In the region, smallholders and family farms dominate the agricultural landscape as a result of the wave of privatization of community and state-owned farms during the 1990s. This process led to excess fragmentation of land, with small average farm sizes, which has limited the economic viability of the sector. In addition, the rural poor, and especially smallholder family farmers, face considerable difficulties in accessing credit, services, technologies and markets that would allow them to improve their productivity. This often constrains farmers' ability to assure a decent livelihood from the agricultural and related sectors, pushing them to seek other employment options, leaving rural areas and often their home countries in search of better opportunities (FAO, 2013c, 2015c).

The economic drivers of migration are further exacerbated by the impacts of climate change

The economic drivers of migration are further exacerbated by the impacts of climate change, with changes in weather patterns, natural disasters and the depletion of natural resources due to environmental degradation emerging as further reasons for the related loss of livelihoods. In the ECA region alone, 577 natural disasters were recorded between 1990 and 2017, disrupting the stability of food systems and affecting around 35 million people, especially in rural areas (FAO, 2017c).

Thus, migration becomes an important strategy of rural households for improving their livelihoods. Lack of employment and income-generating opportunities, lack of social infrastructure and adequate social services (health, education and social protection), and difficulties in managing social, economic and environmental risks also contribute to decisions to migrate (FAO, 2017c).

The consequences of climate change may gradually lead to decreased water availability and consequent reductions in agricultural productivity, especially in the countries with fragile agro-ecosystems that are vulnerable to shocks and changes in environmental conditions. Limited resilience and resources to mitigate the negative impacts or to recover from current and projected effects of climate change may further lead to a

decreased subsistence base for rural households and to the depopulation of rural areas. Once these livelihood options have been exhausted, people may be forced to migrate to seek alternative livelihood options and to escape poverty and hunger.

Changes in weather patterns and extreme events such as prolonged droughts are further exacerbating and contributing to conflicts. The Syrian Arab Republic, for example, is affected by a protracted complex crisis with resulting IDPs and migration (FAO, 2017c).

Demographic and social factors for migration in ECA

Demographic and social trends and conditions vary considerably across the ECA region. With a total population of about 912 million people (Table 3), it can be roughly divided into two categories: countries with aging populations and declining birth rates, which is the case in a number of the EU and Eastern European countries, and countries marked by rapid population growth due to high childbirth rates and higher shares of young people (as in Azerbaijan, Turkey and most countries of Central Asia, where young people form nearly 60 percent of the population). Considering demographic trends, it is anticipated that in the first group of countries, potential shortages of labour and skills will challenge both employment and economic growth prospects in the medium term. In this context, migrants can make an important economic contribution if they are well-integrated in a timely manner into education and into the labour market.

The region is strongly urbanized, with the share of its total urban population projected to continue to increase, from some 71 percent at present to over 80 percent by 2050. Likewise, according to provisional projections, the region's agricultural labour force could continue to decline from about 50 million at present to only 15.3 million in 2050. Urbanization and demographic trends across Europe and Central Asia (European Commission, 2014, p. 5) will continue to serve as pull factors for rural-to-urban migration, with implications for individual countries' economies and social systems and also for food security and nutrition throughout the region (FAO, 2012a, 2012b). ■

3.2 LABOUR MIGRATION AND LINKAGES BETWEEN MIGRATION AND FOOD SECURITY

Impact of labour migration: social and economic perspectives

Movement by people has always been an essential part of economic, social and human development, contributing to the progress of communities and societies. As such, it impacts all aspects of livelihoods, food security and nutrition, and agricultural and rural development, and it is accompanied by challenges and opportunities.

Migration from rural to urban areas is an important component of both international and internal migration. While economic and environmental factors drive migration, rural-to-urban migration can be considered part of the process of the structural transformation of economies, in which the relative role of agriculture in terms of income generation and employment gradually declines as labour is transferred to other sectors of the economy.

Migration can pose challenges and create opportunities. Primarily, migration represents a challenge for those who migrate, especially in terms of vulnerability at the various stages of the migration process, and in particular for families left behind. Additional negative consequences include the loss of family as a unit, parents not being able to care for young children while migrating, and the loss of cultural ties. Young women and men are particularly vulnerable to the risks associated with migration, whether internal or international. These risks can outweigh the economic benefits. Risks may be related to problems associated with accessing housing and services in destination cities. Women, but also young men, are at risk of trafficking and of sexual and labour exploitation. However, awareness of these issues, as well as services targeting migrants, are limited in both sending and receiving countries.

Remittances associated with labour migration can help overcome the lack of access to credit and insurance in rural communities and can foster investments in agriculture or other rural economic activities and in human resources. Remittances can also serve as social safeguard measures.

By receiving young migrants, destination countries also benefit by being able to fill jobs not accepted by locals, enhancing the efficiency of the labour market and contributing to economic growth. On the other hand, immigrants may reduce wage rates and compete for jobs with workers in the destination country, thus increasing domestic unemployment. However, the characteristics of the immigrant workforce may differ substantially from those of the local labour force in terms of education and work experience, and migration can provide a clear net benefit to the economy (De la Garza, 2010; Temin, *et al.*, 2013; United Nations, 2004).

Even though outmigration can result in the loss of the most vital and dynamic share of the workforce in rural, migrant-sending areas, in some countries with persisting unemployment, especially in rural areas, outmigration may be a way to remove pressures on the labour market, land and other natural resources. Outmigration from rural areas can bring back benefits through the acquisition and transfer of new knowledge, which can contribute to greater skills and awareness, including on cultural norms such as general health and education issues or gender equality. Moreover, diaspora and return migrants can help rural areas through capital investments, the transfer of skills and technology, increased know-how and wider social networks.

Linkages between migration and food security

The relationships between migration and food security are multiple, as migration provides poor households, through remittances, with means for support in food consumption. Households' strategies to effectively address food insecurity may involve the migration of a household member in search of better-paid jobs in other countries. With a focus on the Europe and Central Asia region, a complete understanding of the nexus of food security, nutrition and migration needs to take into account the impact of migration on rural

TABLE 18
OPPORTUNITIES AND CHALLENGES FOR LABOUR MIGRATION REGARDING ECONOMIC AND SOCIAL PERSPECTIVES
IN THE COUNTRIES OF ORIGIN

Challenges for communities and individuals	Opportunities for communities and individuals
Pressure on the families left behind, women, children and the elderly	Remittances to support families left behind
Increased risks of poverty and food insecurity in case the migrant member of a family could not succeed in finding a job at the destination	Strengthened skills and knowledge of migrants
Lack of social protection at the point of destination	Better education opportunities for children in the households
Risks of irregular labour migration	Better nutrition for migrants and their families
	Investments in agriculture and economic diversification
	Transformation of social norms and practices, particularly with regard to unequal gender relations and roles

areas and households in the country of origin, as well as on hosting communities in terms of livelihoods, rural development and food security and nutrition.³³

The share of total household expenditures spent on food is an indicator of household food security. It is documented that the poorer and more vulnerable a household is, the larger percentage of household income is spent on food. In some countries in the region (Kazakhstan, Kyrgyzstan,

Republic of Moldova, Tajikistan and Ukraine), more than 40 percent of households' budgets is spent on food. The average is 23 percent throughout the ECA region (RIA Rating, 2016). In countries with a high incidence of poverty or that are affected by conflicts, the share of income spent on food is even higher. The challenges and opportunities related to migration impact the level and scope of food consumption and utilization. The main linkages among migration and the four pillars of food security are given in [Table 19](#).

TABLE 19
MIGRATION AND THE FOUR DIMENSIONS OF FOOD SECURITY – MAIN LINKAGES

Availability	
Countries of origin	Countries of destination
<ul style="list-style-type: none"> • Improved access to agrifood inputs • Opportunities for investments for smallholders • Increased liquidity of the banking system • Extension of import supply • Transfer of knowledge and experience 	<ul style="list-style-type: none"> • Additional labour workforce, including agriculture sector • Increased diversity and supply of food • New skilled labour • Replacement of labour force due to aging of local population
Access	
Countries of origin	Countries of destination
<ul style="list-style-type: none"> • Increased income for households • Better nutrition • Decreased poverty and vulnerability 	<ul style="list-style-type: none"> • Additional labour workforce • Lower cost of production and food prices • Increased diversity and supply of food
Utilization	
Countries of origin	Countries of destination
<ul style="list-style-type: none"> • Access to healthier and diversified diets, with less consumption of starchy foods • Transfer of knowledge and experience on nutrition, diet and hygiene 	<ul style="list-style-type: none"> • New dietary approaches • Expanded opportunities for capacity building • Access to healthier and diversified diets
Stability and sustainability	
Countries of origin	Countries of destination
<ul style="list-style-type: none"> • More stable food prices through improved availability • Expansion of local food markets • Less pressure on natural resources 	<ul style="list-style-type: none"> • Improved food supply by attracting new labour forces • More stable prices by attracting more affordable labour force • Improved services in the agriculture and service sectors

For the countries of origin, the primary impact of labour migration on food security include: (i) the possibility of receiving remittances from the migrant members of the households, thus improving the food consumption level, and the probability of investment and diversification of patterns; (ii) the potential receipt of information, knowledge and skills from the migrant's new location, influencing their behavior; and (iii) fewer household members, resulting in lower consumption levels but also lower labour availability. These impacts can be seen along the four dimensions of food security – availability, access, utilization and stability.

Overall, two main trends in the region in relation to migration and food security can be generalized as follows: (i) households receiving remittances in areas of origin are generally more food-secure than the households not receiving remittances; and (ii) at destination, migrant households are generally less food-secure than non-migrant households (Zezza, *et al.*, 2011). In addition, migrants – especially irregular migrants – are among the most vulnerable members of society and likely to experience human rights violations, loss of employment, lower pay, longer working hours in poor working conditions, and limited access to health and other social services. Overall, these trends highlight the importance of successful migration to households' food security and well-being. ■

3.3 THE ROLE OF REMITTANCES IN FOOD SECURITY AND NUTRITION

Remittances to the ECA region

Remittances to ECA have increased significantly

Recent World Bank data confirm a steady increase of remittances worldwide (Figure 22), although differing from region to region. After three consecutive years of decline, remittances sent to

Europe and Central Asia (ECA) are estimated to have risen by 20.9 percent in 2017 over 2016 (Box 9) (World Bank, 2018a). They are projected to continue increasing in 2018, remaining at the highest level in the world.

Remittance flows are estimated at USD 44 billion in Europe and Central Asia.³⁴ Remittances to Central Asian countries from the Russian Federation alone totaled USD 13.5 billion in 2013. According to the World Bank, Kyrgyzstan and Tajikistan placed first and third among all countries for remittances as a share of gross domestic product, at 35 percent and 31 percent, respectively.

Remittance flows into Central Asian countries largely reflect labour migration routes (Figures 22 and 23) within and from the region. For more than a decade, remittances have remained an important source of income for the population of Central Asia, and it has been estimated that they have been reducing national poverty rates (in Kyrgyzstan, for example, by six to seven percent) (World Bank, 2017b). Some ECA countries and territories (e.g. Tajikistan, Kyrgyzstan and Kosovo³⁵) are strongly dependent on remittances, which make up to 100 percent of international reserves (World Bank, 2018a). Remittances also play important roles in the economies of Albania, Armenia, Bosnia and Herzegovina, Georgia, and Republic of Moldova. The breakdown of the inflow of remittances for the region recorded by the World Bank shows higher relative increases for Kyrgyzstan, Tajikistan and Turkey (Figure 23).

Money transfers from migrants also have been a major source of liquidity for the banking sectors of the Central Asian countries,³⁶ for which – as well as for receiving families – remittances are a source of investment. Although in some cases, such as in Kyrgyzstan, the potential of investment in agriculture from remittances is not fully achieved, the money may go to the procurement of additional livestock (mainly sheep), and this may have positive results for the rural households' well-being and food security. This may have also sustainability implications, however, as many countries lack adequate feed supply and pasture management, leading to overgrazing of pasture and range land.

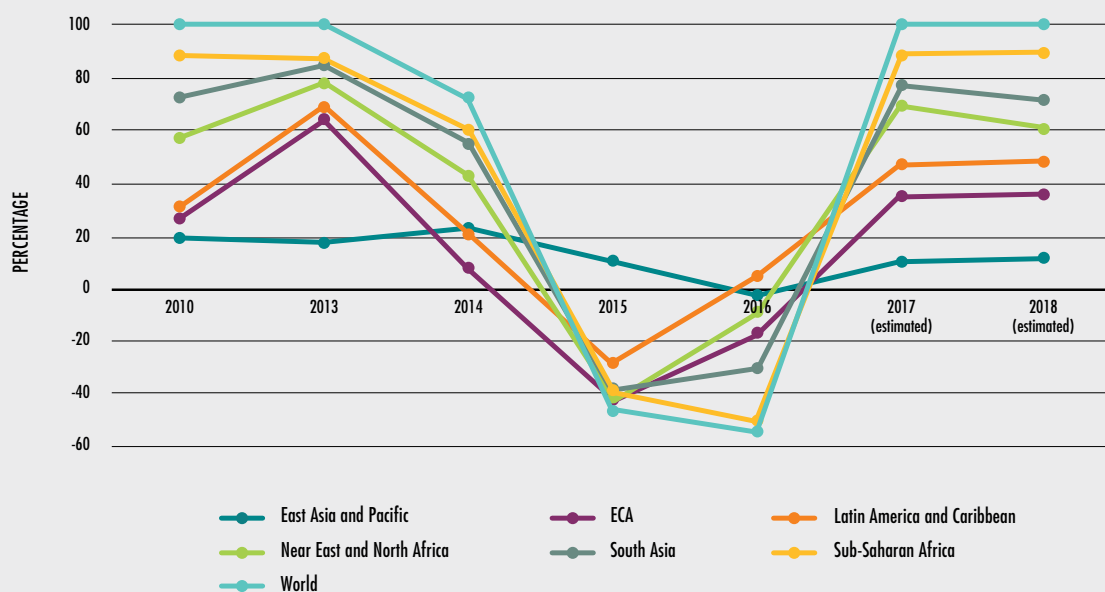
BOX 9
MIGRATION IN KYRGYZSTAN, REPUBLIC OF MOLDOVA, TAJIKISTAN AND UZBEKISTAN

Kyrgyzstan, Republic of Moldova, Tajikistan and Uzbekistan are the largest sources of labour migration in the region, as well as the biggest receivers of remittances, mainly from the Russian Federation and Kazakhstan. Remarkably, all four countries have a large percentage of their population living in rural areas and engaged in agriculture. Though the contribution of agriculture to GDP in these countries is not among the highest, the share of the labour force engaged in agriculture is much higher. At the same time, there are wide gaps between the urban and rural populations in terms of push factors for labour migration from rural

areas, such as income, levels of poverty, food consumption, and access to social services. Many labour migrants are involved in seasonal work in recipient countries and face significant barriers in accessing health and social services, with implications for their pensions once they reach retirement age. While accurate statistics are not available, estimates suggest that labour migration may involve four to ten million people in the subregion. The majority of migrants from Central Asia are men, and the gender-differentiated impact of migration on families left behind is recognized as being adverse for children, women and the elderly.

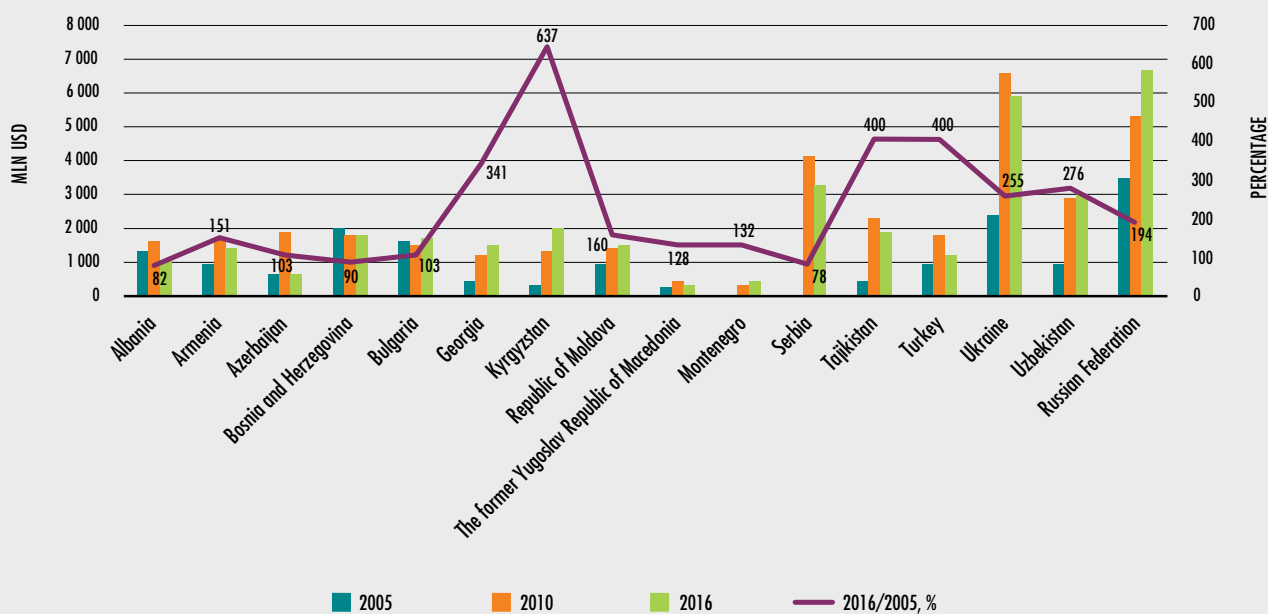
SOURCE: Abdurazakova D. (2011).

FIGURE 22
THE GROWTH RATE OF REMITTANCES IN THE WORLD AND BY REGIONS, 2010–2018, GROWTH RATE COMPARED TO 2000



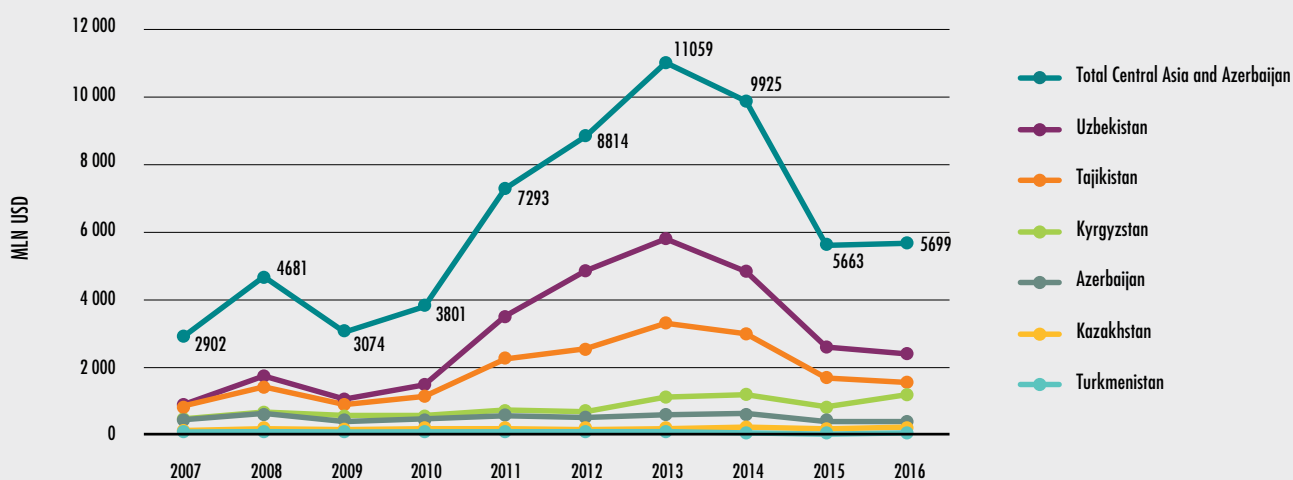
SOURCE: World Bank Group, Migration Development Brief 27, KNOMAD, April 2017.

FIGURE 23
REMITTANCE INFLOWS, MILLIONS USD, IN SELECTED ECA COUNTRIES (2005–2016)



SOURCE: World Bank Database.

FIGURE 24
REMITTANCES FROM RUSSIAN FEDERATION TO CENTRAL ASIA AND AZERBAIJAN, MILLIONS USD (2007–2016)



SOURCE: FAO (2018d).

Contribution of remittances from the Russian Federation to Central Asian countries and Azerbaijan

Developments between 2014 and 2016 exposed the underlying economic vulnerability for migrants; the volatility of economic growth, conflicts, political tensions and sanctions led to a worsening of living standards for households with family members working abroad. This issue has been further exacerbated by insufficient policy and legislative provisions to accommodate returned migrants' needs and to harness their potential to contribute to development in their communities and countries of origin. Between 2007 and 2016, a twofold increase in remittances was observed from the Russian Federation to the Central Asian countries and Azerbaijan, even though there was a sharp decline in 2014 due to a significant depreciation of the Russian rouble and an economic slowdown (Figure 24).

Contribution of remittances to national economies and rural development in selected countries of the ECA region

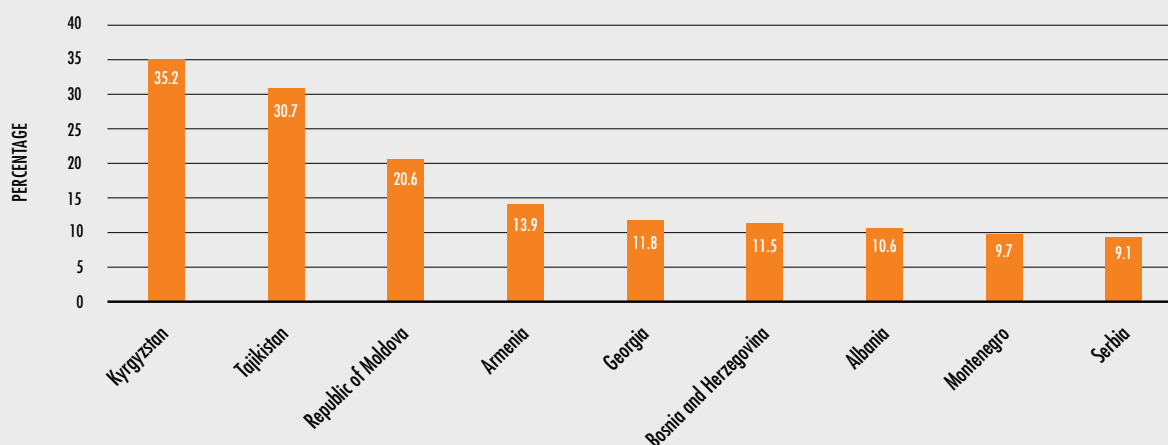
In the countries with a high level of emigration, it is possible to trace correlations between remittances

and levels of poverty and undernourishment (PoU). The countries with an assessed high PoU (over five percent) do have a higher share of poverty, which decreases when supported by remittances. For example, in Kyrgyzstan, Republic of Moldova, Tajikistan and Uzbekistan, a correlation is seen between increases in remittances and reductions of poverty levels and improvements in food security and nutrition, as measured in terms of PoU (FAO, 2017b, Annex 1.1 and 1.2).

Significant contribution to national economy (GDP) in many ECA countries

Remittances are an important and stable source of income for many households in the countries of origin, especially in rural areas; they help to reduce monetary restrictions and overcome difficulties. Remittances contribute significantly to the GDP in Kyrgyzstan (35 percent), Tajikistan (31 percent) and Republic of Moldova (21 percent), as well as in Armenia (14 percent), Bosnia and Herzegovina (12 percent) and Georgia (12 percent) (Figure 25).

FIGURE 25
REMITTANCES' CONTRIBUTION TO GDP IN ECA COUNTRIES (%), 2017



SOURCE: World Bank (2018a).

Significant role of remittances in rural development and food security

Remittance flows to rural areas are important, as they do benefit both the migrants' households and the non-recipient ones through the multiplier effects of spending (Katseli, Lucas and Xenogiani, 2006). Remittances can increase access to (purchased) food and may have a consumption smoothing effect, reducing households' vulnerability and improved food security (Thow, Fanzo and Negin, 2016). Recent studies have demonstrated that migration and remittances act as insurance against risk situations for destitute, vulnerable households.³⁷

While in general, remittances to rural areas in Europe are lower than in other regions of the world, in Eastern European countries, the ratio of remittances to per-capita income is 60 percent in those communities in which the population is more than 35-percent rural. Some countries – such as Albania, Republic of Moldova and Romania – see over 50 percent of remittance flows going to rural areas. In Georgia, 48 percent of all remittances go to rural areas, while rural areas receive over 60 percent of all remittances sent to Azerbaijan (IFAD and FAO, 2008).

The impacts of remittances on agriculture are mixed and contextual

According to the World Bank, 78 percent of the world's poor live in rural areas. Agriculture is the main source of income for over 40 percent of the population (World Bank, 2013, 2018i). Therefore, agriculture and rural development are crucial for poverty relief, for the provision of food security and better nutrition, and for reducing inequities and migratory pressures.

The impacts of remittances on agriculture are mixed and contextual. Evidence generated in some countries of the region (Kyrgyzstan and Tajikistan, for example) demonstrates that in some cases, remittances can compensate for the negative impacts of outmigration by allowing hired labour to replace the agricultural labour force lost. Alternatively, women left behind try to replace the labour force that has left. In other

countries, remittances may reduce agricultural labour and production, for example by increasing non-farm activities and limiting people's willingness to take on low-paid agricultural activities. Households that receive remittances may choose to spend their additional income on increased consumption, on investing in housing, education, health, and on entrepreneurial non-farm activities or agricultural production. The positive effects depend on the type of investment (whether farm or non-farm) and on consumption patterns. Additional resources being invested in agricultural and non-agricultural production have a positive effect on both agricultural production and rural employment by increasing efficiency and creating new jobs. The additional resources also can be an incentive to developing business (Zezza, *et al.*, 2011).

Developing programmes to facilitate investments of remittances for agriculture and rural development

Evidence and research generated in the region indicate that a large proportion of remittances is spent on food, housing and education, while a smaller share is spent on agriculture and rural development (LaCroix, 2010). While policies that encourage remittances to invest in agriculture and rural development are limited in the ECA region, programmes in Republic of Moldova and Tajikistan provide examples of promising practices (**Box 10**) that have emerged recently in the region (FAO, 2018h).

Case studies from Republic of Moldova and Tajikistan show how the management of financial flows resulting from remittances can turn into investments, supporting agriculture and improving the livelihoods of rural populations. These are essential for keeping rural communities alive, as they create employment in the agrifood sector and reduce the pressure to migrate. This can, in turn, decrease unemployment and the pressure on the labour market. In this context, remittances play an important role in poverty reduction, improving food security and nutrition and contributing to sustainable agriculture and rural development. »

BOX 10

CASE STUDIES OF PROGRAMMES ENCOURAGING THE FLOW OF REMITTANCES TOWARDS AGRICULTURE AND RURAL DEVELOPMENT IN REPUBLIC OF MOLDOVA AND TAJIKISTAN

A. PARE 1+1 in the Republic of Moldova encouraging migrants to invest in agriculture and the economy

Hundreds of thousands of Moldovans, both women and men, have left the country in search of work in the past two decades. Some of them are returning, motivated by the idea of launching their own businesses under the EU-funded programme PARE 1+1, which started in 2011. The major financial resources are allocated from the state budget, and the programme offers Moldovans financial and logistical support, training, and, most importantly, the confidence that they can succeed in their own country.

According to the funding rules, each Moldovan leu (MDL) invested by a migrant is matched by another leu in the form of a grant provided by the state. At present, this cannot exceed MDL 250 000 (about EUR 13 300 or USD 15 048). Inspired by international practices, PARE 1+1 has managed to become a trustworthy partner for many Moldovans living abroad who are eager to return home and to invest. The success stories of those Moldovans who have returned to their homeland after years of working abroad are a good example of the fact that, despite the difficulties, businesses can be developed in Republic of Moldova.

According to the results of the programme from 2010 to 2017, access to non-refundable financing for 1 136 enterprises was facilitated, amounting to MDL 215.8 million (roughly EUR 11.5 million or USD 13 million). The total amount of direct investments in the country's economy is over MDL 697.97 million (approximately EUR 37 million or USD 42 million). Thus, 1 leu in the form of a grant generates 3.1 leu of investments in the economy. Moreover, 3 170 jobs have been created.

Some 50 percent of new businesses are related to agriculture, including those focused on crop modernization, greenhouse construction (vegetables, fruits and flowers), animal breeding, construction or modernization of animal farms, procurement of modern equipment, and mechanized services in agriculture.

B. Promoting inclusive economic growth through matching grants for agriculture and agribusiness in the Republic of Tajikistan

Tajikistan is one of the world's top remittance-receiving countries. Estimates suggest that they amount to 20 to 40 percent of the national GDP – or even more, as official figures do not take into account the sums sent home through informal channels. This could be an enormous source of investment in the country, but the development potential of remittances in the agro-rural sector is hardly exploited. The majority of remittance flows are spent on primary needs such as food consumption, housing and family rituals, among other things, while only a proportion is saved or invested in rural areas. Agriculture is the second-largest sector of the economy but suffers from low productivity. Channeling remittances into agriculture could have catalytic effects on rural development by promoting food security and improving nutrition, employment creation, and inclusive growth.

FAO's pilot project "Promoting Inclusive Economic Growth through Matching Grants for Families of Migrants" aims to leverage the remittances of migrant workers by investing them in the development of family farming, targeting female heads of households and returning labour migrants. Participants in the project invest remittances (up to 50 percent of the funds) in a small-scale agricultural project and obtain the remaining 50 percent from project funds, while additionally benefitting from professional guidance from FAO. FAO assists migrants and their families and communities in formulating small- and medium-scale projects in agribusiness and the production of fruits, vegetables and livestock. The project uses the "1+1 approach," in which every dollar invested by remittances is matched by an additional dollar made available from project funds. Furthermore, the plan is for capacity-development programmes to enable migrant families to build skills in small- and medium-sized business developments in the agricultural sector.

SOURCE: FAO (2018h, 2018i).

- » Cross-sectoral partnerships and cooperation among sectors also are important. There are good examples of cooperation among FAO, UN Women and GIZ in a regional project on land rights in the Balkans and among FAO, the International Fund for Agricultural Development, UN Women and the World Food Programme on a joint programme in Kyrgyzstan. This latter project, in the area of rural women's economic empowerment, led to rural women opting to stay in their villages instead of migrating in search of jobs.³⁸ ■

3.4 GENDER, YOUTH AND MIGRATION

Migration has profound and gender-differentiated impacts on rural communities. While positive and negative consequences of migration are examined in the previous sections of this report, greater emphasis is needed on exploring the transformative effects of migration on social and gender norms in rural areas, on changing gender roles, and on creating opportunities for women's empowerment.³⁹

Drivers for female migration and the share of female migration in the ECA region

Drivers of migration affect women differently than men

Although the drivers of migration may be similar, they affect women and men in rather different ways and to different extents. Women, especially from rural areas, might be particularly vulnerable to human rights abuses, exploitation, discrimination, and specific health and nutrition risks, due to lower educational levels and awareness. There also are contributing factors in terms of age, power within the family, children's age, and the household's ability to cope without the migrant in the origin country in terms of the availability of others to take on their activities.⁴⁰ The mobility of men and women is deeply intertwined with their roles and positions in the household. However, when it comes to food security, nutrition and family welfare, the decision-making process on labour migration

may be a function of changes in intergenerational and gender dynamics within the household.

In addition to the most common drivers of migration, such as rural poverty, lack of employment opportunities and lack of access to social services and infrastructure, gender inequalities are considered as contributing to women's decisions regarding migration. Women, and especially rural women, have limited access to information, knowledge and education, as well as to productive assets such as agricultural resources and inputs. For example, women own less than two percent of all land and represent only five percent of the clients of extension services worldwide. In the ECA region, women's access to land and to extension services varies greatly but are around ten percent on average. Insecure land rights and informal agriculture, with limited access to social protection and services, may have profound impacts on women's decisions to migrate across the ECA region. Women's participation in decision-making, be it at the household and/or community level, is also often limited, as is their power to exercise control over productive assets such as land, equipment, transport and other resources. Based on recent food security and nutrition analysis, as reported in Section 1.2 of Part I, women are shown as having higher levels of severe food insecurity in the Caucasus, Central Asia, and European CIS, which may also point to significant open and hidden gender-based inequalities and discrimination. Clearly, greater attention from the side of policymakers and decisionmakers is needed to explore these issues and their relationships with improving food security and nutrition, as well as with improving rural development and safe migration.

Higher unemployment among youth and women in some countries of the ECA region is one of the main drivers of migration

Unemployment is considered one of the main drivers of migration. Remarkably, unemployment in the ECA region among young people 15 to 24 years of age (19.4 percent unemployment for women and 18.3 percent for men) is above the world average (15.6 percent for women and 13.1 for men), with wide variations among countries (Table 20). High unemployment rates among women and youth in the ECA region is one of the push factors for their migration.

BOX 11 CHANGING DRIVERS OF FEMALE MIGRATION

More and more women are migrating independently based on the same drivers as men rather than as family dependents or as part of the family reunification process. Thus, an increasing number of women migrate to access better employment and educational opportunities and to escape restrictive gender roles and social norms (UNFPA and IOM, 2016). Many other

factors, such as state and community settings, traditions and family circumstances, also play significant roles.

Many studies have shown that even though female migrants tend to earn less than men at destination, they also tend to remit more, both overall and as a percentage of their incomes, due to stronger networks with their families at origin (Le Goff, 2016).

SOURCE: KNOMAD, *Understanding Women and Migration: A Literature Review; Working Paper #8*, February 2016; *Women on the move: Migration, gender equality and the 2030 Agenda for Sustainable Development*, Tam O'Neil, Anjali Fleury and Marta Foresti, July 2016.

TABLE 20
UNEMPLOYMENT RATE AMONG YOUNG WOMEN AND MEN (15–24 YEARS OLD), AS % OF TOTAL LABOUR FORCE (2017) IN SELECTED COUNTRIES OF THE ECA REGION

	Women	Men
World	15.6	13.1
ECA	19.4	18.3
Central Asia	-	-
Kazakhstan	5.8	4.3
Kyrgyzstan	18.6	12.8
Tajikistan	13.0	17.1
Turkmenistan	18.5	16.7
Uzbekistan	19.0	16.8
Caucasus	-	-
Armenia	41.0	30.4
Azerbaijan	16.0	13.2
Georgia	32.1	26.4

TABLE 20
(CONTINUED)

	Women	Men
Western Balkan countries and Turkey	-	-
Albania	31.2	34.9
Bosnia and Herzegovina	67.4	67.9
The former Yugoslav Republic of Macedonia	51.1	50.0
Montenegro	35.0	36.5
Serbia	38.4	30.7
Turkey	23.9	18.9
European CIS	-	-
Republic of Moldova	11.8	11.1
Russian Federation	15.5	14.0
Ukraine	20.6	22.3

SOURCE: UNDESA (2017). EU-28 and EFTA countries not included.

The phenomenon of feminization of migration is growing in the ECA region

The phenomenon of *feminization of migration* is growing in the region, meaning that more and more women are migrating independently, rather than as family dependents, and are getting involved in sending remittances and supporting their families from abroad. This, in turn, is altering social and family dynamics and decision-making. As described in earlier sections, women in ECA comprise almost half of the region's migrant population, but the proportion varies considerably by subregion and by country. In the Republic of Moldova and Ukraine, the majority of outmigrants, both internally and internationally, are women

(60 to 65 percent). In Albania, women represent the majority among rural-to-urban migrants. In Armenia, Kyrgyzstan, Tajikistan and Uzbekistan, the face of labour migration is predominantly male (up to 90 percent in Tajikistan), but the share of women as labour migrants is growing (having increased from 10 to 15 percent in Tajikistan, for example, and up to 40 percent in Kyrgyzstan).

A review of the proportion of female migrants shows that there was an increasing trend of the share of female migrants across all regions in the world from 2000 to 2017 (Table 21). At 52 percent, Europe had the highest share of female migration in 2017. In the ECA region, several countries had a share of female migrants of over 50 percent (Table 22).

TABLE 21
THE SHARE OF FEMALE MIGRANTS AND THEIR MEDIAN AGE IN THE WORLD AND BY REGION, 2000–2017

	Female migrants, % 2000	Female migrants, % 2017	Median age 2000	Median age 2017
World	49.3	48.4	38.0	39.2
Europe	51.6	52.0	41.1	42.6
North America	50.5	51.5	38.4	44.7
Oceania	50.1	50.4	44.6	43.9
Latin America and the Caribbean	50.1	50.4	38.8	35.8
Africa	46.9	47.1	27.6	30.9
Asia	46.2	42.4	36.5	35.1

SOURCE: UNDESA, International Migration Report (2017).

TABLE 22
PERCENTAGE OF FEMALE MIGRANTS (%) AND MEDIAN AGE (YEARS) IN SELECTED ECA COUNTRIES, 2017

	Female migrants (%)	Median age (years)
Albania	49.1	19.7
Armenia	59.5	52.7
Azerbaijan	52.1	43.2
Belarus	54.2	52.8
Bosnia and Herzegovina	52.3	37.1
Bulgaria	55.5	32.7
Georgia	56.2	40.8
Kazakhstan	50.4	38.9
Kyrgyzstan	59.6	46.9
Montenegro	60.8	43.0
Republic of Moldova	64.6	52.3
Russian Federation	50.9	44.5
Tajikistan	56.6	54.0
The former Yugoslav Republic of Macedonia	58.3	52.4
Turkey	53.0	32.6
Turkmenistan	53.4	53.0
Ukraine	57.0	49.1
Uzbekistan	53.4	53.0

SOURCE: UNDESA, International Migration Report (2017).

Impact of migration on women and youth

Migration may have positive impacts, such as strengthening the economic well-being of young people and providing them with opportunities for upward social mobility. For young women, it can be a contributing factor to their empowerment, increasing their decision-making authority within families and communities and reinforcing equitable gender norms. At the same time, young women and men are particularly vulnerable to

the risks associated with migration, whether internal or international, which can outweigh the economic benefits. Risks may be related to problems associated with accessing housing and services in the destination cities or at-risk coping mechanisms. Women, but also young men, are at risk of trafficking and sexual and labour exploitation; awareness of these issues, in addition to the existence of services targeting migrants, are limited in both sending and receiving countries.

TABLE 23
POSITIVE AND NEGATIVE EFFECTS OF MIGRATION ON YOUNG WOMEN AND MEN – ON THE MIGRANTS THEMSELVES AND ON THEIR AREAS OF ORIGIN

Positive effects	Negative effects
Migration can provide young women and men with job opportunities not available in their places of origin.	Migration often results in the loss of highly skilled workers and in reductions in the quality of essential services.
The exit of jobseekers may ease domestic pressures linked to excess labour supply.	Economic growth and productivity decline with reductions in the stock of highly skilled labour.
Migration may empower young women and reinforce equitable gender norms.	In places of origin, returns on public investments in education are lower.
Migration for education or employment may prevent early marriages (before age 18), which is an issue in a number of countries in the region.	The absence of parents may increase the vulnerability of children and young people left behind, and adolescents commonly have trouble in their social relations and will isolate themselves in small peer groups who are in a similar situation.
The inflow of remittances may contribute to economic growth and poverty reduction in countries of origin and may stimulate investments in human capital.	Remittances coupled with limited parental supervision may be linked to a higher probability of risky behavior among young people left behind.
Diasporas can be a source of technology transfer, investments, and venture capital for countries of origin.	Migration may expose children and young people – especially young women – to a higher risk of abuse, discrimination and exploitation.
Diasporas frequently assist in emergency relief in their countries of origin.	Children and young people left behind by their parents commonly experience increased demands, as they need to assume responsibilities previously assumed by their parents. This can lead to declines in academic performance and exits from school altogether. This has particular effects on girls who accept household responsibilities and caring roles for their younger siblings and, consequently, are at higher risk of dropping out of school.
The physical or “virtual” return of skilled workers translates into increases in local human capital, skills transfer and foreign network connections.	

SOURCE: The potential positive and negative effects of youth migration, UN World Youth Report (2013).

Rural women, elderly and children left behind face particular challenges

Migration affects also families left behind – women, children and the elderly in the countries marked by male outmigration from rural areas (Table 23).

Rural women left behind face particular challenges due to the fact that they suffer from a triple burden of responsibilities; in addition to work in the household and the household plot, they need to engage more and carry responsibilities for the family farm that do not necessarily lead to greater economic empowerment. They may face difficulty in accessing credit and inputs for farming, as observed in some remote areas in Central Asia from which men have migrated.

On the other hand, a review of the effects of migration for countries of origin shows that remittances do not automatically solve the negative impacts of migration on vulnerable groups of the population in all situations. In some countries, such as in Kyrgyzstan, Tajikistan and Uzbekistan, women and children left behind are particularly vulnerable, and policies and programmes need to consider that migration can contribute to strengthening practices such as polygamy that violate women's rights. Migration also can overload women left behind, causing them to spend much more time on household chores, child care and working in family plots. It also can affect women who work and live in degrading conditions, in both the countries of origin and of destination. Policies and programmes need to undertake preventive measures and thorough gendered analysis to address these problems.⁴¹

Women form the majority of internally displaced persons (IDPs) and refugees in the region. In Turkey, nearly 70 percent of the 3.9 million Syrian refugees are women and children. In Ukraine, according to the Ministry of Social Policy, up to 70 percent of all IDPs in 2017 were women, children and the elderly. As estimated by the World Food Programme, 620 000 people in the affected areas were food insecure in 2016, and an additional 500 000 had little or no livelihoods. The number of food-insecure people in January 2018 was estimated at 1.2 million, almost doubled from 2016 (FAO, WFP, 2018).

This brief overview of the gender aspects of migration demonstrates the complexities and the need for further gendered analysis of migration and food-security issues for the sake of informing policymaking and development interventions in the ECA region. ■

3.5 RECOMMENDATIONS

This review of the main challenges and opportunities related to migration indicates how agriculture and rural development can be instrumental in addressing some of the drivers of migration by creating an enabling environment to harness the development potential of migrants, especially for reducing rural poverty, food insecurity, gender inequality and unemployment and for increasing social protection.

The ECA countries still need to build and update systems for regulating migration in the complex internal and international environment, because migration processes are based on legislation generally developed during the past two decades. These regulatory frameworks need to take into account more recent trends, such as the globalization and feminization of migration, the involvement of youth, and social and economic dimensions.

Support agriculture and rural development

Agriculture and rural development can address and prevent environmental degradation processes through sustainable management of natural resources, such as water, soil and pasture land. At the same time, by adopting a food systems approach, sustainable food and agriculture are key for improving related social and economic aspects, such as employment and inclusive economic development. Agriculture and rural development can contribute in addressing challenges associated with migration, combined with other efforts, including:

- investment in food security and agriculture through gender-sensitive policies and practices that involve interventions focusing on income diversification and investments in inclusive value chains linked to sustainable agriculture;

- support to small- and medium-scale entrepreneurship;
- community development;
- rural education and vocational training that matches labour market needs;
- enhancing rural capacities to use remittances for investments in agriculture and in natural resource management;
- reintegration of returnees in rural areas through the promotion of employment and entrepreneurship opportunities and assistance with property and land tenure rights; and
- enabling access to social protection measures for migrant household members.

Mitigate the risks of migration for the most vulnerable

For stakeholders involved in agricultural and rural development and food security, increased attention should be placed on experiences gained from new and promising approaches to mitigating the risks of migration, focusing on women and targeted programmes and services in rural areas. These include:

- involving women – and youth, both female and male – in development interventions as the agents of change who bring new knowledge, information and practices in rural areas;
- using their activism as a strategy to increase the voice of local women in decision-making in rural areas (based on experiences in Kyrgyzstan and Serbia), including local planning and budgeting and ensuring that programmes are accountable to rural women on issues relevant to rural development;
- including women and youth migration issues in the capacity development of institutions and civil society organizations;
- strengthening the role of women – and youth, both female and male – in the management

systems of local authorities, water user associations, and pasture unions; and

- engaging village women and youth organizations with local administration and lobbying for rights and services for women – and youth, both female and male – in rural areas.⁴²

In particular, the migration of women and youth raises the need for improving social protection systems and access to education and health in destination countries, while return migration raises the need for creating an enabling environment for productive socio-economic reintegration of returning migrants in their countries of origin. It is also important to link female migrants with host country nationals to build cohesion and positive social change (based on the FAO-generated evidence in Turkey).

Facilitate strategic partnerships with rural stakeholders

Effective partnerships with civil society organizations, governments and the private sector are critical for broad implementation of the above directions, including large-scale social protection and social services needed by migrants, and, particularly, refugees. In particular, there is a growing demand for targeted services for rural women left behind and for migrant women facing gender-based violence; these services, in the form of shelters, call centers and health care, could be possible with private-sector partnerships. Services targeting women need to be improved, particularly in rural areas, with “mobile” services and with services at the district level that have the biggest impact on women in rural areas.

Develop a programmatic approach

Reintegration programmes, as in the Republic of Moldova, are needed for returnees in rural areas, including through employment, entrepreneurship and assistance with property and land rights. Along the migration cycle, FAO works in all stages to address the drivers of migration and to enhance the positive impacts of migration on agriculture and rural development.

Promote resilience and support for women's empowerment in agriculture and food systems

With the feminization of migration and the vulnerability of children, elderly and disabled groups emerging as clear trends in the countries of the ECA region, the development of a sustainable and resilient agricultural sector and the achievement of food security are acquiring paramount importance. To this end, improving women's access to resources, markets and services is essential. This demands that governments, international organizations, the business sector and civil society organizations

work in cooperation towards creating a wide network of services that support rural women's empowerment and address their needs.

Generate and disseminate knowledge

In view of the major knowledge gaps and data needs regarding the determinants, dynamics and consequences of migration, it will be important to generate and disseminate knowledge and evidence on the patterns, drivers and impacts of migration, including strengthening data collection, impact evaluation and operational research to support policymaking. ■

ANNEX

GLOSSARY

Anaemia

A haemoglobin concentration below a specified cut-off point, which can change according to age, sex, physiological status, smoking habits and living altitude. When anaemia comes on slowly, the symptoms are often vague and may include tiredness, weakness, shortness of breath or a poor ability to exercise.

Body mass index (BMI)

The ratio of weight to height, measured as the weight in kilograms divided by the square of the height in meters.

Dietary energy supply

An estimation of the amount of energy (kcal) in food available for human consumption during the reference period (a three-year average period). Per-capita dietary energy supply is expressed in kcal per capita per day. Per-capita supplies represent only the average supply available for each individual in the population as a whole and do not indicate what is actually consumed by individuals.

Food insecurity

A situation that exists when people lack secure access to sufficient amounts of safe and nutritious food for normal growth and development and for an active and healthy life. It may be caused by the unavailability of food, insufficient purchasing power, inappropriate distribution, or an inadequate use of food at the household level. Poor health and sanitation conditions and inappropriate care and feeding practices are the major causes of poor nutritional status. Food insecurity may be chronic, seasonal or transitory.

Food security

A situation that exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food that meets their dietary needs and food preferences for an active and healthy life. Based on this definition, four food security dimensions can be identified: food availability, economic and physical access to food, food utilization, and stability over time. Food security is a necessary condition for healthy diets, and food environments strongly affect whether diets are healthy.

Hunger

In this report, hunger is defined as being synonymous with chronic undernourishment.

Import dependency ratio (IDR)

The ratio of the domestic food supply that has been imported, calculated as: $IDR = (\text{imports} / (\text{production} + \text{imports} - \text{exports})) * 100$. IDR takes into account the supply (quantity) of food groups, whatever its utilization, and not only what is destined for human consumption.

Internally displaced persons (IDPs)

People who have fled their homes or places of residence in search of safety but who have not crossed an international border. Unlike refugees, IDPs stay within their own country and remain under the protection of that country's government, even if that government is the reason for their displacement.

Malnutrition

An abnormal physiological condition caused by inadequate, unbalanced or excessive consumption of macronutrients and/or micronutrients. Malnutrition includes undernutrition and overnutrition as well as micronutrient deficiencies.

Micronutrients

Vitamins, minerals and certain other substances that are required by the body in small amounts for normal physiological functions. They are measured in milligrams or micrograms.

Migrant

The International Organization for Migration defines a migrant as any person who is moving or who has moved across an international border or within a state away from his or her habitual place of residence, regardless of (1) the person's legal status; (2) whether the movement is voluntary or involuntary; (3) the causes for the movement; or (4) what the length of the stay is.

Migration

The movement of a person or a group of persons, either across an international border or within a state. It is a population movement, encompassing any kind of movement of people, whatever its length, composition and causes; it includes the migration of refugees, displaced persons, economic migrants, and persons moving for other purposes, including for family reunification. The movement of people from one place to another and the intentions of settling in the new location can be either permanent or temporary. Migration can be further categorized as **internal migration**, where persons move to a new home within the same state, country or continent, and **external migration**, where persons move to a new home in a different state, country or continent.

Labour migration refers to the movement of persons for the purpose of employment from one state to another or within their own country of residence.

Non-communicable diseases (NCDs)

These are also known as chronic diseases. They are not passed from person to person. They are long in duration and generally slow in progression. The most

common diet-related NCDs are diabetes, cardiovascular disease and certain cancers.

Overnutrition

A form of malnutrition that refers to a chronic condition in which the intake of food is in excess of dietary energy requirements.

Overweight and obesity

Body weight that is above normal for height as a result of an excessive accumulation of fat. In children younger than five, overweight is defined as weight for length/height above +2 standard deviation scores relative to the WHO Child Growth Standards median, and obesity is defined as a weight for height above +3 standard deviation scores relative to the WHO Child Growth Standards median. In adults, overweight is defined as a BMI equal to or greater than 25, and obesity is defined as a BMI equal to or greater than 30.

Prevalence of undernourishment

A proportion of the total population in a condition of undernourishment, in other words people whose dietary energy consumption is continuously below the minimum requirement for maintaining a healthy life and carrying out light physical activity. The average amount of food available for human consumption per person, the level of inequality in access to that food, and the minimum number of kcal required for an average person are taken into account to estimate the prevalence of undernourishment.

Remittance

A transfer of money by a foreign worker to an individual in his or her home country. Money sent home by migrants is, along with international aid, one of the largest financial inflows to developing countries.

Stunting

Low height for age, reflecting a past episode or episodes of sustained undernutrition. In children younger than five, stunting is defined as length/height for age below -2 standard deviation scores relative to the WHO Child Growth Standards median.

Undernourishment

A state lasting for at least one year of inability to acquire enough food, defined as a level of food intake insufficient to meet dietary energy requirements. For the purposes of this report, hunger is defined as being synonymous with chronic undernourishment.

Undernutrition

The outcome of poor nutritional intake in terms of quantity and/or quality, and/or poor absorption and/or poor biological use of nutrients consumed as a result of repeated disease. It includes being underweight for one's age, too short for one's age (stunted),

dangerously thin for one's height (wasted) and deficient in vitamins and minerals (micronutrient malnutrition).

Underweight

Low weight for age, reflecting a current condition resulting from inadequate food intake, past episodes of undernutrition, or poor health conditions. In children younger than five, underweight is defined as weight for age below -2 standard deviation scores relative to the WHO Child Growth Standards median. In adults, it is defined as a BMI of less than 18.5.

Wasting

Low weight for height, generally the result of weight loss associated with a recent period of inadequate caloric intake and/or disease. In children younger than five, wasting is defined as weight for length/height below -2 standard deviation scores relative to the WHO Child Growth Standards median.

REFERENCES

- Abdurazakova D.** 2011. Social Impact of International Migration and Remittances in Central Asia. *The Asia-Pacific Population Journal*, 26(3). <https://www.unescap.org/publications/asia-pacific-population-journal-volume-26>
- Adams, R.H. Jr. & Page, J.** 2005. Do International Migration and Remittances Reduce Poverty in Developing Countries? *World Development*, 33(10): 1645–1669. (also available at http://siteresources.worldbank.org/INTAFROFFCHIECO/Resources/Migration_and_Remittances.pdf).
- Asian Development Bank (ADB).** 2010. *Satisfying Hidden Hunger. Addressing Micronutrient Deficiencies in Central Asia.* Asian Development Bank Nutrition and Development Series, 8. (also available at <https://www.adb.org/sites/default/files/publication/28702/hidden-hunger.pdf>).
- Asian Development Bank (ADB).** 2018. *Asian Economic Integration Report 2017: The Era of Financial Interconnectedness: How Can Asia Strengthen Financial Resilience?* Manila, Philippines, Asian Development Bank. Chapters 1, 2, and 5. (also available at <https://www.adb.org/sites/default/files/publication/375196/aeir-2017.pdf>).
- Babatunde, R.O.** 2001. Do Remittances Improve Food Consumption of Migrant’s Household? Evidence from Nigeria; University of Ilorin, PMB 1515 Ilorin, Nigeria.
- Ballard, T.J., Kepple, A.W., and Cafiero, C.** 2013. *The Food Insecurity Experience Scale: Development of a Global Standard for Monitoring Hunger Worldwide.* Technical paper. Rome, FAO. (also available at http://www.fao.org/fileadmin/templates/ess/voh/FIES_Technical_Paper_v1.1.pdf).
- Central Intelligence Agency (CIA).** 2018. The World Factbook. Country Comparison: Distribution of Family Income – Gini Index. In: *Central Intelligence Agency* [online]. <https://www.cia.gov/library/publications/the-world-factbook/rankorder/2172rank.html>
- De la Garza, R.** 2010. Migration, Development and the Children Left Behind: Multidimensional Perspective. *Social and Economic Policy Working Paper*, May 2010, United Nations Children’s Fund.
- Development Initiatives.** 2017. *Global Nutrition Report 2017: Nourishing the SDGs.* Bristol, UK: Development Initiatives. (also available at http://globalnutritionreport.org/wp-content/uploads/2017/11/Report_2017-2.pdf).
- European Centre for Development Policy Management (ECDPM).** 2017. *The nexus between food and nutrition security, and migration: Clarifying the debate and charting a way forward.* Discussion paper 212, May 2017. (also available at <https://ecdpm.org/publications/nexus-between-food-nutrition-security-and-migration/>).
- Eurasian Economic Union (EEU).** 2013. *Agroindustrial Policy of the Eurasian Economic Union.* Moscow, Russia.
- European Commission.** 2009. Land Take. In: *EEA Glossary* [online]. <https://www.eea.europa.eu/help/glossary/eea-glossary/land-take>
- European Commission.** 2011. *Roadmap to a Resource Efficient Europe.* Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions. Brussels, European Commission. (also available at <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52011DC0571&from=EN>).
- European Commission.** 2014. *Population ageing in Europe: facts, implications and policies.* Brussels, European Commission. (also available at https://ec.europa.eu/research/social-sciences/pdf/policy_reviews/kina26426enc.pdf).
- European Commission.** 2017. Agricultural trade statistics 2007–2016. In: *Agriculture and rural development* [online]. <https://ec.europa.eu/agriculture/statistics/trade/2016>

REFERENCES

- European Commission.** 2018a. Agriculture and Rural Development: Direct Support: Direct payments. In: *European Commission* [online]. https://ec.europa.eu/agriculture/direct-support/direct-payments_en
- European Commission.** 2018b. Agriculture and Rural Development: School fruit, vegetables and milk scheme. In: *European Commission* [online]. https://ec.europa.eu/agriculture/school-scheme_en
- European Commission.** 2018c. SDG 2 'Zero Hunger'. In: *Eurostat* [online]. <https://ec.europa.eu/eurostat/web/sdi/zero-hunger>
- European Parliament.** 2011. *Balanced Nutrition at Work*. THE EUROPEAN FOOD PROJECT: A Successful Public Private Partnership. 31 May 2011. Brussels, European Parliament. 24 pp. (also available at http://www.food-programme.eu/IMG/pdf/FOOD_Report.pdf).
- Eurostat.** 2018a. Population structure and ageing. In: *Eurostat: Statistics Explained* [online]. https://ec.europa.eu/eurostat/statistics-explained/index.php/Population_structure_and_ageing
- Eurostat.** 2018b. SDG 2 - Zero hunger. In: *Eurostat: Statistics Explained* [online]. http://ec.europa.eu/eurostat/statistics-explained/index.php/SDG_2_-_Zero_hunger
- FAO.** 2010. *Making migration work for women and men in rural labour markets*. Gender and Rural Employment Policy Brief #6. (also available at <http://www.fao.org/docrep/013/i2008e/i2008e06.pdf>).
- FAO.** 2012a. *European and Central Asian Agriculture Towards 2030 and 2050*. Policy Studies on Rural Transition No. 2012-1. Budapest, FAO. 57 pp. (also available at <http://www.fao.org/3/a-aq341e.pdf>).
- FAO.** 2012b. *Issues Affecting the Future of Agriculture and Food Security for Europe and Central Asia*. Policy Studies on Rural Transition No. 2012-3. Budapest, FAO. 173 pp. (also available at <http://www.fao.org/3/a-aq343e.pdf>).
- FAO.** 2013a. *The State of Food and Agriculture 2013*. Rome, FAO. 114 pp. (also available at <http://www.fao.org/docrep/018/i3300e/i3300e.pdf>).
- FAO.** 2013b. *Food Wastage Footprint: Impacts on Natural Resources*. Summary Report. Rome, FAO. 63 pp. (also available at <http://www.fao.org/docrep/018/i3347e/i3347e.pdf>).
- FAO.** 2013c. *Land reform in Central and Eastern Europe after 1989 and its outcome in the form of farm structures and land fragmentation*. Land Tenure Working Paper 24. Rome, FAO. 61 pp. (also available at <http://www.fao.org/3/a-aq097e.pdf>).
- FAO.** 2014a. *Rural Women in Eastern Europe and Central Asia*. Budapest, FAO. 60 pp. (also available at <http://www.fao.org/3/a-i3840e.pdf>).
- FAO.** 2014b. *FAO Statistical Yearbook 2014: Europe and Central Asia, Food and Agriculture*. Rome, FAO. 130 pp. (also available at <http://www.fao.org/3/a-i3621e.pdf>).
- FAO.** 2015a. *Regional Overview of Food Insecurity 2015: Europe and Central Asia. Focus on Healthy and Balanced Nutrition*. Budapest, FAO. 23 pp. (also available at <http://www.fao.org/3/a-i4649e.pdf>).

- FAO. 2015b. *Addressing social and economic burden of malnutrition through nutrition-sensitive agricultural and food policies in the region of Europe and Central Asia*. Thirty-ninth Session, European Commission on Agriculture, agenda item No. 6. Budapest, FAO. (also available at <http://www.fao.org/3/a-mo398e.pdf>).
- FAO. 2015c. *Experiences with land consolidation and land banking in Central and Eastern Europe after 1989*. Land Tenure Working Paper No. 26. Rome, FAO. 138 pp. (also available at <http://www.fao.org/3/a-i4352e.pdf>).
- FAO. 2016a. *Voices of the Hungry: Methods for estimating comparable prevalence rates of food insecurity experienced by adults throughout the world*. Technical report. Rome, FAO. 60 pp. (also available at <http://www.fao.org/3/a-i4830e.pdf>).
- FAO. 2016b. *Migration, Agriculture and Rural Development: Addressing the root causes of migration and harnessing its potential for development*. Rome, FAO. 20 pp. (also available at <http://www.fao.org/3/a-i6064e.pdf>).
- FAO. 2016c. *Regional Strategic Review Paper: Europe and Central Asia*. Budapest, FAO. 51 pp. (also available at <http://www.fao.org/3/b-i6102e.pdf>).
- FAO. 2016d. *FAO's Work on Climate Change*. United Nations Climate Change Conference 2016. Rome, FAO. 36 pp. (also available at <http://www.fao.org/3/a-i6273e.pdf>).
- FAO. 2017a. *Forced migration and protracted crises: A multilayered approach*. Guidance note. Rome, FAO. 32 pp. (also available at <http://www.fao.org/3/a-i7880e.pdf>).
- FAO. 2017b. *The State of Food and Agriculture 2017: Leveraging Food Systems for Inclusive Rural Transformation*. Rome, FAO. 181 pp. (also available at <http://www.fao.org/3/a-l7658e.pdf>).
- FAO. 2017c. *The State of Food Security and Nutrition in Europe and Central Asia 2017*. Budapest, FAO. 80 pp. (also available at <http://www.fao.org/3/a-i8194e.pdf>).
- FAO. 2017d. *Drought characteristics and management in Central Asia and Turkey*. FAO Water Reports. Rome, FAO. 114 pp. (also available at http://www.droughtmanagement.info/literature/FAO_Drought_characteristics_and_Management_in_CAsia_Turkey_2017.pdf).
- FAO. 2017e. *FAO and the SDGs: Indicators - Measuring up to the 2030 Agenda for Sustainable Development*. Rome, FAO. 40 pp. (also available at <http://www.fao.org/3/a-i6919e.pdf>).
- FAO. 2017f. *Review of Agricultural Trade Policies in Post-Soviet Countries 2015-16*. Summary Report. Rome, FAO. 60 pp. (also available at <http://www.fao.org/3/a-i8083e.pdf>).
- FAO. 2017g. FAOSTAT [online]. <http://www.fao.org/faostat/en/>
- FAO. 2017h. Trade and Markets Division. In: FAO [online]. <http://www.fao.org/economic/est/international-trade/europe-and-central-asia/en/>
- FAO. 2017i. SAVE FOOD: Global initiative on Food Loss and Waste Reduction. In: FAO [online]. <http://www.fao.org/save-food/background/en/>

REFERENCES

- FAO. 2017j. *Crop Prospects and Food Situation*. Quarterly Global Report No. 4, December 2017. Rome, FAO. 40 pp. (also available at <http://www.fao.org/3/a-i8278e.pdf>).
- FAO. 2017k. *Strengthening Sector Policies for Better Food Security and Nutrition Results: Rural Migration*. Policy guidance note 10. Rome, FAO. 44 pp. (also available at <http://www.fao.org/3/a-i8166e.pdf>).
- FAO. 2017l. *The Food Insecurity Experience Scale: A global standard to measure the access dimension of household food insecurity*. FAO, Rome. Presentation by Carlo Cafiero at ESCWA meeting, Beirut, April 2017. (also available at https://www.unescwa.org/sites/www.unescwa.org/files/events/files/009_-_the_food_insecurity_experience_scale_a_global_standard_to_measure_household_food_insecur.pdf).
- FAO. 2017m. Agrifood export promotion strategies in post-Soviet countries. In: *FAO in the Russian Federation* [online]. <http://www.fao.org/russian-federation/news/detail-events/en/c/1114259/>
- FAO. 2017n. Regional Symposium: Sustainable Food Systems for Healthy Diets in Europe and Central Asia. In: *FAO Regional Office for Europe and Central Asia* [online]. <http://www.fao.org/europe/events/detail-events/en/c/1034293/>
- FAO. 2017o. Uzbekistan reduces import taxes on wheat flour. In: *FAO FMPA* [online]. <http://www.fao.org/giews/food-prices/food-policies/detail/en/c/881009/>
- FAO. 2017p. *Regional Overview of Food Insecurity 2016: Europe and Central Asia. The Food Insecurity Transition*. Budapest, FAO. 56 pp. (also available at <http://www.fao.org/3/a-i6877e.pdf>).
- FAO. 2017q. *Scoping study on defining and measuring distress migration*. GSDRC Helpdesk Research Report No. 1406. Rome, FAO; Birmingham, UK, University of Birmingham. 36 pp. (also available at <http://www.gsdrc.org/wp-content/uploads/2017/04/HDR1406.pdf>).
- FAO. 2018a. Market Indicators. In: *FAO FMPA* [online]. <http://www.fao.org/giews/food-prices/indicators>
- FAO. 2018b. Country Brief on Ukraine. In: *GIEWS* [online]. [Cited January 2018]. <http://www.fao.org/giews/countrybrief/country.jsp?code=UKR>
- FAO. 2018c. *Crop Prospects and Food Situation*. Quarterly Global Report No. 1 (March 2018). Rome, FAO. 40 pp. (also available at <http://www.fao.org/3/18764EN/i8764en.pdf>).
- FAO. 2018d. *Patterns of Migration in Central Asia and Azerbaijan, 2018*. (unpublished, forthcoming).
- FAO. 2018e. FAO and Migration. In: *FAO* [online]. <http://www.fao.org/migration/en/>
- FAO. 2018f. *Trade and Nutrition Technical Note. Trade Policy Technical Notes*. Trade and Food Security. No. 21, January 2018. Rome, FAO. (also available at <http://www.fao.org/3/18545EN/i8545en.pdf>).
- FAO. 2018g. *Outcome of the Regional Symposium on "Sustainable Food Systems for Healthy Diets in Europe and Central Asia."* FAO Regional Conference for Europe, Thirty-first Session, Voronezh, Russian Federation, 16–18 May 2018. Rome, FAO.
- FAO. 2018h. Tajikistan officials in Moldova to study remittances programme. In: *FAO Regional Office for Europe and Central Asia* [online]. <http://www.fao.org/europe/news/detail-news/en/c/1099133/>

- FAO.** 2018i. Promoting inclusive economic growth through matching grants for families of migrants. In: *Developing capacity for strengthening food security and nutrition* [online]. <http://www.fao.org/in-action/fsn-caucasus-asia/areas-of-work/migration/en/>
- FAO.** 2018j. *The State of Food and Agriculture 2018: Migration, agriculture and rural development*. Rome, FAO. 199 pp. (also available at <http://www.fao.org/3/I9549EN/i9549en.pdf>).
- FAO, IFAD & WFP.** 2013. *The State of Food Insecurity in the World: The Multiple Dimensions of Food Security*. Rome, FAO. (also available at <http://www.fao.org/3/a-i3434e.pdf>).
- FAO, IFAD, UNICEF, WFP & WHO.** 2017. *The State of Food Security and Nutrition in the World 2017. Building resilience for peace and food security*. Rome, FAO. (also available online at <http://www.fao.org/3/a-l7695e.pdf>).
- FAO, IFAD, UNICEF, WFP & WHO.** 2018. *The State of Food Security and Nutrition in the World 2018. Building climate resilience for food security and nutrition*. Rome, FAO. (also available online at <http://www.fao.org/3/I9553EN/i9553en.pdf>).
- FAO, IFAD & WFP.** 2016. *Monitoring Food Security and Nutrition in Support of the 2030 Agenda for Sustainable Development: Taking stock and looking ahead*. Rome, FAO. (also available at <http://www.fao.org/3/a-i6188e.pdf>).
- FAO & International Life Sciences Institute.** 1997. Magnitude, causes and consequences of micronutrient malnutrition. In *Preventing micronutrient malnutrition: A guide to food-based approaches*. Washington, D.C., ILSI PRESS. (also available at http://www.fao.org/docrep/x0245e/x0245e01.htm#P38_2721).
- FAO & WFP.** 2018. *Monitoring Food Security in Countries with Conflict Situations. A joint FAO/WFP Update for the United Nations Security Council*. Issue No. 3. 53 pp. (also available at <http://www.fao.org/3/I8386EN/i8386en.pdf>).
- FAO & WHO.** 2014. *Conference Outcome Document: Rome Declaration on Nutrition*. Second International Conference on Nutrition. Rome, FAO. (also available at <http://www.fao.org/3/a-ml542e.pdf>).
- FAO & WHO.** 2017. *Sustainable Food Systems for Healthy Diets in Europe and Central Asia a joint FAO/WHO Regional Symposium and initiative in collaboration with UNICEF and WFP Programme*. Budapest, FAO. (also available at <http://www.fao.org/3/mw166en/mw166en.pdf>).
- Focus Economics.** 2015. Central & Eastern Europe: Consensus Forecast.
- Focus Economics.** 2018. Economic Snapshot for South-Eastern Europe. In: *Focus Economics* [online]. <https://www.focus-economics.com/regions/south-eastern-europe>
- GBD 2016 Risk Factors Collaborators.** 2017. Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016. *The Lancet* 390(10100): 1345–1422.
- Haas, J.D. & Brownlie, T.** 2001. Iron Deficiency and Reduced Work Capacity: A Critical Review of the Research to Determine a Causal Relationship. *The Journal of Nutrition* 131: 676-690.
- High-level Political Forum on Sustainable Development (HLPF).** 2017. *Thematic review of SDG2: End hunger, achieve food security and improved nutrition, and promote sustainable agriculture*. High-Level Political Forum on Sustainable Development. (also available at https://sustainabledevelopment.un.org/content/documents/14371SDG2_format.revised_FINAL_28_04.pdf).

REFERENCES

- IFAD. 2014. *Improving nutrition through agriculture*. 16 pp. Rome, IFAD. (also available at https://www.ifad.org/documents/38714170/39148759/nutrition_e_web.pdf/9e5dbf15-68c1-4586-b7e6-963b84c169f6).
- IFAD & FAO. 2008. *International migration, remittances and rural development*. 83 pp. Rome, IFAD. (also available at <http://www.fao.org/3/a-ak405e.pdf>).
- International Labour Organization (ILO). 2010. *Migrant Remittances to Tajikistan: The Potential for Savings, Economic Investment and Existing Financial Products to Attract Remittances*. ILO Subregional Office for Eastern Europe and Central Asia, International Labour Office. Moscow, ILO. 74 pp.
- ILO. 2013. Youth Employment and Migration in Bosnia and Herzegovina. In: *International Labour Organization* [online]. https://www.ilo.org/emppolicy/pubs/WCMS_230114/lang-en/index.htm
- Internal Displacement Monitoring Centre (IDMC). 2017. *GRID 2017*. (also available at <http://www.internal-displacement.org/global-report/grid2017/pdfs/2017-GRID.pdf>). pp. 113–116.
- International Food Policy Research Institute. 2018. *2018 Global Food Policy Report*. Washington, D.C., IFPRI. 150 pp. (also available at <http://ebrary.ifpri.org/utils/getfile/collection/p15738coll2/id/132273/filename/132488.pdf>).
- International Organization for Migration (IOM). 2011. *Glossary on Migration*. 2nd edition. International Migration Law, No. 25. Geneva, International Organization for Migration. (also available at https://publications.iom.int/system/files/pdf/iml25_1.pdf).
- IOM. 2017. *IOM Ukraine 2017 Crisis Response Plan*. 11 pp. (also available at https://www.iom.int/sites/default/files/country_appeal/file/IOM-Ukraine-2017-Crisis-Response-Plan.pdf).
- IOM. 2018a. *World Migration Report 2018*. Geneva, International Organization for Migration. 364 pp. (Also available at https://publications.iom.int/system/files/pdf/wmr_2018_en.pdf).
- IOM. 2018b. *IOM Ukraine 2018 Crisis Response Plan*. 11 pp. (also available at <https://reliefweb.int/sites/reliefweb.int/files/resources/Crisis%20Response%20Plan%202018-FINAL.PDF>).
- IOM. 2018c. Who is a migrant? In: *International Organization for Migration* [online]. <https://www.iom.int/who-is-a-migrant>
- Karymshakov, K. & Sulaimanova, B. 2017. *Migration impact on left-behind women's labour participation and time-use. Evidence from Kyrgyzstan*. WIDER Working Paper 2017/119. Helsinki, United Nations University. (also available at <https://www.wider.unu.edu/sites/default/files/wp2017-119.pdf>).
- Katseli, L.T., Lucas, R.E.B., & Xenogiani, T. 2006. *Effects of Migration on Sending Countries: What Do We Know?* International Symposium on International Migration and Development. OECD Development Centre, Working Paper No. 250. 91 pp. (also available at http://www.un.org/esa/population/migration/turin/Symposium_Turin_files/P11_Katseli.pdf).
- Kearney, J. 2010. Food consumption trends and drivers. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 365(1554): 2793–2807. <http://doi.org/10.1098/rstb.2010.0149>
- LaCroix, T. 2010. *Migration, rural development, poverty and food security: a comparative perspective*. 52 pp. Oxford, University of Oxford. (also available at <https://www.imi.ox.ac.uk/files/news/migration-and-rural-development-fao.pdf>).

- Levin, H.** 1986. A benefit-cost analysis of nutritional programs for anemia reduction. *World Bank Res. Observer* 1: 219–246.
- Loopstra, R., Reeves, A., & Stuckler, D.** 2015. Rising food insecurity in Europe. *The Lancet* 385(9982): 2041.
- Matosek, M. & Kletskovskyy, I.** 2015. *Growing Vulnerabilities in Europe and Central Asia: Updates from the Red Cross Red Crescent Societies in the view of 'Florence Call for Action' and 'Think Differently Report.'* Budapest, Central European University. (also available at https://www.ifrc.org/Global/Documents/Europe/201602/201507_ROE_CEU-REPORT-for-IFRC-Growing-Vulnerabilities.pdf).
- McKinsey & Company.** 2016. *People on the Move: Global Migration's Impact and Opportunity.* December 2016. McKinsey Global Institute. (also available at <https://www.mckinsey.com/~media/McKinsey/Featured%20Insights/Employment%20and%20Growth/Global%20migrations%20impact%20and%20opportunity/MGI-People-on-the-Move-Executive-summary-December-2016.ashx>).
- Ministry of Social Policy of Ukraine.** 2018. *1 641 895 migrants registered.* 30 January 2017. <http://www.msp.gov.ua/news/12398.html>
- NCD Risk Factor Collaboration.** 2016. Trends in adult body-mass index in 200 countries from 1975 to 2014: a pooled analysis of 1698 population-based measurement studies with 19.2 million participants. *The Lancet*, 387(10026): 1377–1396. [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(16\)30054-X/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(16)30054-X/fulltext)
- NCD Risk Factor Collaboration.** 2017. *NCD-RisC* [online]. <http://ncdrisc.org/index.html>
- Nord, M., Cafiero, C. & Viviani, S.** 2016. Methods for estimating comparable prevalence rates of food insecurity experienced by adults throughout the world. *Journal of Physics: Conference Series* 772 (2016) 012060. (also available at <http://iopscience.iop.org/article/10.1088/1742-6596/772/1/012060/pdf>).
- Organization for Economic Cooperation and Development (OECD)/FAO.** 2018. *OECD-FAO Agricultural Outlook 2018–2027.* Paris, OECD Publishing/Rome, FAO. https://doi.org/10.1787/agr_outlook-2018-en. (also available at <http://www.fao.org/3/i9166en/I9166EN.PDF>).
- Office for the Coordination of Humanitarian Affairs (OCHA).** 2018. *Humanitarian Bulletin: Ukraine.* 25(1). 4 pp. (also available at https://reliefweb.int/sites/reliefweb.int/files/resources/ukraine_-_humanitarian_bulletin_issue_25_-_mar-apr_2018.pdf).
- Roelen K., Sabates-Wheeler R., & Devereux S.** 2016. Social Protection, inequality and social justice. *World Social Science Report 2016.* Paris, UNESCO & ISSC. (also available at <http://socialprotection-humanrights.org/wp-content/uploads/2016/10/245877e.pdf>).
- The Government of Russia.** 2014. Order as of July 3, 2014 No. 1215-p. "On Approving the Concept of the Development of Domestic Food Aid in the Russian Federation." <http://static.government.ru/media/files/41d4ee92ed645be6a999.pdf>
- RIA Rating.** 2016. Rating of the European countries based on share of food expenditures in household income - 2016. In: *Russian Rating Agency RIA Rating (PIA Рейтинг)* [online]. [Cited April 2018]. <http://www.riarating.ru/countries/20161206/630048668.html>
- Seifert, A.** 2018. The problems of Central Asian migration to Russia. In: *DOC Research Institute* [online]. <https://doc-research.org/2018/01/the-problems-of-central-asian-migration-to-russia/>

REFERENCES

- Strauss, J.** 1986. *Does better nutrition raise farm productivity?* J. Polit. Econ. 94:297–320.
- Ross, J. & Horton, S.** 1998. *A benefit-cost analysis of nutritional programs for anemia reduction. Economic Consequences of Iron Deficiency.* Micronutrient Initiative. Ottawa, Canada.
- Peyrouse, P.** 2013. *Food Security in Central Asia: A Public Policy Challenge.* PONARS Eurasia Policy Memo No. 300, September 2013. Washington, D.C.: The George Washington University.
- Ryazantsev, S.** 2016. Labour Migration from Central Asia to Russia in the Context of the Economic Crisis. *Russia in Global Affairs.* (also available at <http://eng.globalaffairs.ru/valday/Labour-Migration-from-Central-Asia-to-Russia-in-the-Context-of-the-Economic-Crisis-18334>).
- Temin, M., Montgomery, M. R., Engebretsen, S., & Barker, K. M.** 2013. *Girls on the Move: Adolescent Girls & Migration in the Developing World.* New York, Population Council. 136 pp. (also available at https://www.popcouncil.org/uploads/pdfs/2013PGY_GirlsOnTheMove.pdf).
- The Department on Migration of the Ministry of Internal Affairs of the Russian Federation.** 2017. *Summary of key performance indicators on the migration situation in the Russian Federation for January-December 2017.* (also available at <https://мвд.рф/Дел|ателност/statistics/migracionnaya/item/12162186/?print=1>).
- The State Statistics Service of Ukraine.** 2018. Inflation rate for food in Ukraine from May 2015 to August 2018. In: *Statista* [online]. <https://www.statista.com/statistics/537970/inflation-rate-food-in-ukraine/>
- Thow, A.M., Fanzo, J. & Negin, J.** 2016. A Systematic Review of the Effect of Remittances on Diet and Nutrition. *Food and Nutrition Bulletin* 2016, 37(1): 42–64.
- Tolstokhorova, A.** 2009. *Multiple Marginalities: Gender dimension on rural poverty, unemployment and labour market in Ukraine.* Paper presented at the FAO-IFAD-ILO Workshop on “Gaps, trends and current research in gender dimensions of agricultural and rural employment: differentiated pathways out of poverty,” Rome, 31 March to 2 April 2009. (also available at <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.547.591&rep=rep1&type=pdf>).
- Trail, B. W., Mazzocchi, M., Shankar, B., & Hallam, D.** 2014. Importance of government policies and other influences in transforming global diets. *Nutrition Reviews* 72 (9): 591–604.
- United Nations International Children's Emergency Fund (UNICEF).** 2016b. *National Micronutrient Status Survey in Tajikistan 2016: Results.* 124 pp. (also available at https://www.unicef.org/tajikistan/TNNS_National_Nutrition_Eng-Results_web.pdf).
- UNICEF, WHO & World Bank.** 2017. Joint child malnutrition estimates: Levels and Trends (2017 Edition). In: *World Health Organization* [online]. <http://www.who.int/nutgrowthdb/estimates2016/en/>
- United Nations.** 2004. *World Economic and Social Survey 2004: International Migration.* New York, United Nations. 274 pp. (also available at http://www.un.org/en/development/desa/policy/wess/wess_archive/2004wess_part2_eng.pdf).
- United Nations.** 2017. *United Nations Decade of Action on Nutrition 2016 - 2025: Work Programme.* (also available at <http://www.fao.org/3/a-bs726e.pdf>).

United Nations. 2018a. *Implementation of the United Nations Decade of Action on Nutrition (2016–2025)*. Report of the Secretary-General. Seventy-second session, agenda item 14. (also available online at <https://undocs.org/A/72/829>).

United Nations. 2018b. *Making Migration Work for All*. Report of the Secretary-General. Seventy-second session, agenda items 14 and 117. (also available online at <https://reliefweb.int/sites/reliefweb.int/files/resources/N1743962.pdf>).

United Nations Development Group (UNDG). 2015. *MAPS: Mainstreaming, Acceleration and Policy Support for the 2030 Agenda*. UNDG Concept Note. (also available at <https://undg.org/wp-content/uploads/2016/10/MAPS-Concept-Note-Oct-2015-ENDORSED-BY-UNDG-on-26.10.15.pdf>).

United Nations Department of Economic and Social Affairs (UNDESA). 2009. *2009 World Survey on the Role of Women in Development: Women's Control over Economic Resources and Access to Financial Resources, including Microfinance*. (also available at <http://www.un.org/womenwatch/daw/public/WorldSurvey2009.pdf>).

UNDESA. 2013. *International Migration Policies: Government Views and Priorities*. New York, United Nations. 110 pp. (also available at http://www.un.org/en/development/desa/population/publications/pdf/policy/InternationalMigrationPolicies2013/Report%20PDFs/z_International%20Migration%20Policies%20Full%20Report.pdf).

UNDESA. 2017a. *The International Migration Report 2017*. Population Division. New York, United Nations. 38 pp. (also available at http://www.un.org/en/development/desa/population/migration/publications/migrationreport/docs/MigrationReport2017_Highlights.pdf).

UNDESA. 2017b. *World Population Prospects: The 2017 Revision, Key Findings and Advance Tables*. Population Division. Working Paper No. ESA/P/WP/248. (also available at https://esa.un.org/unpd/wpp/publications/files/wpp2017_keyfindings.pdf).

UNDESA. 2018. *World Economic Situation and Prospects 2018*. United Nations, New York. 207 pp. (also available at https://www.un.org/development/desa/dpad/wp-content/uploads/sites/45/publication/WESP2018_Full_Web-1.pdf).

United Nations High Commissioner for Refugees (UNHCR). 2017. *The Global Report*. In: *UNHCR* [online]. <http://www.unhcr.org/en-us/the-global-report.html>

UNHCR. 2018a. *Situation Syria Regional Refugee Response*. In: *UNHCR Operational Data Portal* [online]. <https://data2.unhcr.org/en/situations/syria/location/113>

UNHCR. 2018b. *Global Appeal 2018-2019*. In: *UNHCR* [online]. (also available at <http://www.unhcr.org/publications/fundraising/5a0c05027/unhcr-global-appeal-2018-2019-full-report.html>).

United Nations Statistics Division (UNSD). 2017. *National Accounts Main Aggregates Database*. <https://unstats.un.org/unsd/snaama/dnllist.asp>

UNSD. 2018. *UN Data: A World of Information*. <http://data.un.org/>

World Bank. 2013. *The State of the Poor: Where Are The Poor, Where Is Extreme Poverty Harder to End, and What Is the Current Profile of the World's Poor?* Economic Premise, October 2013, No. 125. 8 pp. (also available at <http://siteresources.worldbank.org/EXTPREMNET/Resources/EP125.pdf>).

REFERENCES

- World Bank.** 2016. *Migration and Remittances: Recent Developments and Outlook*. Migration and Development Brief No. 26. KNOMAD. (also available at <http://pubdocs.worldbank.org/en/661301460400427908/MigrationandDevelopmentBrief26.pdf>).
- World Bank.** 2017a. *Migration and Mobility*. Europe and Central Asia Economic Update. Office of the Chief Economist, October 2017. Washington D.C., The World Bank. 122 pp. <http://documents.worldbank.org/curated/en/445651508415857577/pdf/120539-replacement-PUBLIC.pdf>
- World Bank.** 2017b. *Migration and Remittances: Recent Developments and Outlook and Special Topic: Return Migration*. Migration and Development Brief 28, October 2017. Washington, D.C., World Bank. 54 pp. (also available at <http://documents.worldbank.org/curated/en/667401534417710951/pdf/129452-BRI-PUBLIC-Knowledge-Note-Add-Series-Migration-and-Development-Report-12-14-17-web.pdf>).
- World Bank.** 2017c. New country classifications by income level: 2017-2018. In: *The World Bank Data Blog* [online]. <https://blogs.worldbank.org/opendata/new-country-classifications-income-level-2017-2018>
- World Bank.** 2017d. *Migration and Remittances: Recent Developments and Outlook*. Migration and Development Brief No. 27. KNOMAD. (also available at https://www.knomad.org/sites/default/files/2017-05/MigrationandDevelopmentBrief27_1.pdf).
- World Bank.** 2018a. *Migration and Remittances: Recent Developments and Outlook – Transit Migration*. Migration and Development Brief 29, April 2018. Washington, D.C., World Bank. (also available at <https://openknowledge.worldbank.org/handle/10986/29777>).
- World Bank.** 2018b. *Europe and Central Asia Economic Update, May 2018: Cryptocurrencies and Blockchain*. Washington, D.C., World Bank. (also available at <https://openknowledge.worldbank.org/handle/10986/29763>).
- World Bank.** 2018c. World Bank Country and Lending Groups. In: *The World Bank Data Help Desk* [online]. <https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups>
- World Bank.** 2018d. World Development Indicators. In: *The World Bank Data* [online]. <https://data.worldbank.org/indicator>
- World Bank.** 2018e. Employment in agriculture (% of total employment) (modeled ILO estimate). In: *The World Bank Data* [online]. <https://data.worldbank.org/indicator/SL.AGR.EMPL.ZS>
- World Bank.** 2018f. Poverty & Equity Data Portal. In: *The World Bank* [online]. <http://povertydata.worldbank.org/poverty/home/>
- World Bank.** 2018g. Global Poverty Working Group. In: *The World Bank Data* [online]. <https://data.worldbank.org/indicator/SI.POV.NAHC>
- World Bank.** 2018h. Current health expenditure per capita (current US\$). In: *The World Bank Data* [online]. <https://data.worldbank.org/indicator/SH.XPD.CHEX.PC.CD>
- World Bank.** 2018i. *Poverty and Shared Prosperity 2018: Piecing Together the Poverty Puzzle*. Washington, D.C., World Bank. 200 pp. (also available at <https://openknowledge.worldbank.org/bitstream/handle/10986/30418/9781464813306.pdf>).
- World Food Programme (WFP).** Programmes in Armenia, Kyrgyzstan and Tajikistan. <http://www1.wfp.org/countries/tajikistan>, <http://www1.wfp.org/countries/armenia> and <http://www1.wfp.org/countries/kyrgyzstan>

- WFP.** 2018a. Operations. In: *World Food Programme* [online]. <https://www.wfp.org/operations>
- WFP.** 2018b. Where We Work: Turkey. In: *World Food Programme* [online]. <http://www.wfp.org/countries/turkey>
- WFP and Ministry of Agriculture of the Kyrgyz Republic.** 2016. *National Food Security Atlas*. Kyrgyz Republic 2015: Summary. 16 pp. (also available at <https://documents.wfp.org/stellent/groups/public/documents/communications/wfp288646.pdf>).
- World Health Organization (WHO).** 2012. *Sixty-fifth World Health Assembly: Resolutions and Decisions*. Geneva, WHO. (also available at http://www.who.int/nutrition/topics/WHA65.6_resolution_en.pdf).
- WHO.** 2015. Healthy Diet Fact Sheet. In: *WHO Media Centre* [online]. September 2015. <http://origin.who.int/mediacentre/factsheets/fs394/en/>
- WHO.** 2018a. Micronutrient deficiencies: Vitamin A deficiency. In: *WHO Nutrition* [online]. <http://www.who.int/nutrition/topics/vad/en/>
- WHO.** 2018b. Obesity and overweight. In: *World Health Organization* [online]. <http://www.who.int/en/news-room/fact-sheets/detail/obesity-and-overweight>
- WHO/NCD-RisC & WHO Global Health Observatory.** 2017. *Data Repository* [online]. <http://www.who.int/gho/en/>
- Worldwide Movement for Human Rights (FIDH).** 2016. *Women and children from Kyrgyzstan affected by migration: An exacerbated vulnerability*. Paris, FIDH. 64 pp. (also available at https://www.fidh.org/IMG/pdf/rapport_kyrgyzstan_uk-2-web2.pdf).
- Zeza, A., Carletto, C., Davis, B. & Winters, P.** Assessing the impact of migration on food and nutrition security. *Food Policy* 36(1), February 2011, pp. 1-6. Rome, Italy.

NOTES

1 SDG1 – no poverty; SDG 5 – gender equality; SDG 6 – clean water and sanitation; SDG 12 – responsible production and consumption; SDG 13 – climate actions; SDG 15 – life on land; SDG 17 – partnerships for goals.

2 The following subregions of the ECA region and their corresponding countries are included in the report: Caucasus (3) - Armenia, Azerbaijan, and Georgia; Central Asia (5) - Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan; European Commonwealth of Independent States (CIS) (4) - Belarus, Republic of Moldova, Russian Federation, and Ukraine; Western Balkan countries and Turkey (6) - Albania, Bosnia and Herzegovina, Montenegro, Serbia, the former Yugoslav Republic of Macedonia, and Turkey; EU countries (28) - Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, and United Kingdom; and European Free Trade Association (EFTA) countries (4) – Iceland, Liechtenstein, Norway, and Switzerland.

3 For more information and details, the FAO publication *The State of Food and Agriculture 2010–11*, specifically dedicated to issues of women in agriculture and closing the gender gap for development, can be visited at <http://www.fao.org/publications/sofa/2010-11/en/>

4 The reports examined include the following: Kazakhstan Multiple Indicator Cluster Survey (MICS) 2015 Final Report; Kyrgyzstan MICS 2014 Final Report; Kosovo MICS 2013-14 Final Report; Montenegro MICS 2013 Final Report; Serbia MICS 2014 Final Report; Turkmenistan MICS 2015 Final Report; Tajikistan Demographic and Health Survey (DHS) 2016 Final Report; Armenia DHS 2015-16 Final Report.

5 *Ibid.*

6 According to The World Bank Development Research Group. Data are based on primary household survey data obtained from government statistical agencies and World Bank country departments. Data for high-income economies are from the Luxembourg Income Study database. For more information and methodology, please see PovcalNet (iresearch.worldbank.org/PovcalNet/index.htm).

7 According to The World Bank Global Poverty Working Group. Data are compiled from official government sources or are computed by World Bank staff using national (i.e. country-specific) poverty lines, accessed via <https://data.worldbank.org/indicator/SI.POV.NAHC?locations=RU-AM>

8 A joint FAO/WHO Regional Symposium and initiative in collaboration with UNICEF and WFP, held December 2017 in Budapest, Hungary.

9 <https://sustainabledevelopment.un.org/hlpf>

10 <https://sustainabledevelopment.un.org/hlpf/2017>

11 Ministry of Agriculture of Georgia. 2015. Strategy for Agricultural Development in Georgia 2015–2020.

12 Ministry of Agrarian Policy of Ukraine. 2015. Single and Comprehensive Strategy and Action Plan for Agriculture and Rural Development in Ukraine 2020.

13 Presidential Decree No. 1235 of 2017.

14 State support and social assistance (amendment, federal law, 28 December 2017).

15 Concept on coordinated agro-industrial policy (2014), amended 2016–2018.

16 Resolution about the revision of food safety committee, 2018.

17 The Ministry of Health and Social Development announced that Kazakhstan will introduce a disease management programme in 2018, as one of the main directions of the state health development programme for 2016–2019 is the introduction of disease management programmes to prevent arterial hypertension, chronic heart failure and diabetes.

18 Decree on the establishment of a state commission for ensuring food security, 2018.

19 Presidential Decree No. UP-5303 of 2018.

20 The European Union is a political and economic union of 28 Member States that are located primarily in Europe.

- 21** The Eurasian Economic Union (EEU) is a political and economic union of states located primarily in northern Eurasia.
- 22** Afghanistan, Azerbaijan, the People's Republic of China, Georgia, Kazakhstan, the Kyrgyz Republic, Mongolia, Pakistan, Tajikistan, Turkmenistan, and Uzbekistan.
- 23** FAOSTAT food security and nutrition indicators. <http://www.fao.org/economic/ess/ess-fs/ess-fadata>
- 24** By United Nations Statistics Division classification (<https://unstats.un.org/unsd/methodology/m49/>): Eastern Europe contains Belarus, Bulgaria, Czechia, Hungary, Poland, Republic of Moldova, Romania, Russian Federation, Slovakia, and Ukraine; Northern Europe contains Åland Islands, Channel Islands, Denmark, Estonia, Faroe Islands, Finland, Iceland, Ireland, Isle of Man, Latvia, Lithuania, Norway, Svalbard and Jan Mayen Islands, Sweden, and United Kingdom; Southern Europe contains Albania, Andorra, Bosnia and Herzegovina, Croatia, Gibraltar, Greece, Holy See, Italy, Malta, Montenegro, Portugal, San Marino, Serbia, Slovenia, Spain, and the former Yugoslav Republic of Macedonia; and Western Europe contains Austria, Belgium, France, Germany, Liechtenstein, Luxembourg, Monaco, Netherlands, and Switzerland. Based on the same classification, Cyprus and Turkey are included in the Western Asia geographic grouping.
- 25** Extreme poverty is defined by the international community as a person earning less than USD 1.25 per day, as measured in 2005 international prices. Originally, the international poverty line was set at earning USD 1 per day, when the Millennium Development Goals were first published. The World Bank defines "extreme poverty" as living on less than USD 1.90 per person per day, as measured in 2011 international prices.
- 26** The Gini index measures the extent to which the distribution of income (or in some cases consumption expenditure among individuals or households) within the economy deviates from perfectly equal distribution. A Gini index of 0 represents perfect equality, while an index of 1 (or 100 %) implies perfect inequality.
- 27** WFP programmes in Armenia, Kyrgyzstan and Tajikistan. School meals programmes in the ECA region (Armenia,

Kyrgyzstan and Tajikistan) are funded mainly by the Russian Federation and the Earth Group.

28 According to the World Bank classification of countries by income level at <https://blogs.worldbank.org/opendata/new-country-classifications-income-level-2017-2018>

29 Policy documents covering Europe as per the WHO classification, which lists the following as countries of Europe: Albania, Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, the former Yugoslav Republic of Macedonia, Turkey, Turkmenistan, Ukraine, United Kingdom, and Uzbekistan.

30 The National Programme for Nutrition and Health Enhancing Physical Activity (HEPA) 2015–2025 Slovenia. <http://www.mz.gov.si/>

31 Germany, Russia, United Kingdom, France and Spain. World Bank, 2018.

32 United Nations Convention on Migrants' Rights: International Convention on the Protection of the Rights of All Migrant Workers and Members of Their Families, entered into force on 1 July 2003; Conventions No. 97 and No. 143 and their accompanying recommendations, and the ILO's instruments on fundamental principles and rights as well as – in principle – all other ILO standards; etc. (International Labour Office Geneva).

33 Adopted and re-developed from FAO (2016b) and LaCroix (2010).

34 Globally, remittance flows are estimated at USD 616 billion (2018), of which around USD 451 billion was directed to developing countries, representing nearly three times the total amount of official development assistance (World Bank, KNOMAD, 2016 and 2017).

NOTES

35 Kosovo as per the United Nations Security Council Resolution 1244 (1999) on the situation relating to Kosovo.

36 The costs of sending remittances from the Russian Federation to other CIS countries are among the lowest in the world, which has encouraged the use of formal channels (UNDESA, 2017).

37 *Patterns of Migration in Central Asia and Azerbaijan*. Background Paper. FAO Subregional Office for Europe and Central Asia. Ankara, 2018 (forthcoming); LaCroix, 2010; World Bank. 2016. *Migration and Remittances: Recent Developments and Outlook*. Migration and Development Brief No. 26. KNOMAD; World Bank. 2017. *Migration and Remittances: Recent Developments and Outlook*. Migration and Development Brief No. 27. KNOMAD.

38 FAO, Regional Office for Europe and Central Asia, 2018. Summary of the discussions held at the side event on rural women, migration and agriculture, Thirty-first Session of the FAO Regional Conference for Europe, 2018 (FAO, 2018g).

39 Limited evidence exists on the direct impact of male outmigration on women's empowerment in the countries of the region. However, a case study of Tajikistan is coming up as a result of the World Bank/FAO collaboration.

40 Sources: KNOMAD, *Understanding Women and Migration: A Literature Review*; Working Paper #8, February 2016; *Women on the move: Migration, gender equality and the 2030 Agenda for Sustainable Development*, Tam O'Neil, Anjali Fleury and Marta Foresti, July 2016.

41 Significant literature is produced in the region documenting this phenomenon in the countries of the region. To mention a few: Bock, B. *Gender and rural globalization: international perspectives on gender and rural development* (2017), CAB International; FIDT, Kyrgyzstan. *Women and children from Kyrgyzstan affected by migration. An exacerbated vulnerability*, September 2016, N 675a., and many others.

42 FAO, Regional Office for Europe and Central Asia, 2018. Summary of the discussions held at the side event on rural women, migration and agriculture, Thirty-first Session of the FAO Regional Conference for Europe, 2018 (FAO, 2018g).

2018

EUROPE AND CENTRAL ASIA REGIONAL OVERVIEW OF FOOD SECURITY AND NUTRITION

THE ROLE OF MIGRATION, RURAL WOMEN AND YOUTH IN SUSTAINABLE DEVELOPMENT

The Regional Overview of Food Security and Nutrition in Europe and Central Asia 2018 provides new evidence for monitoring trends in food security and nutrition within the framework of the 2030 Sustainable Development Agenda. The in-depth analysis of progress made against Sustainable Development Goal 2 Target 2.1 (to end hunger and ensure access to food by all) and Target 2.2 (to end all forms of malnutrition), as well as the state of micronutrient deficiencies, is complemented by a review of recent policy measures taken to address food security and nutrition in all its dimensions. The Europe and Central Asia (ECA) region encompasses great economic, social and environmental diversity, and its countries are facing various food security and nutrition challenges. While they have made significant progress in reducing the prevalence of undernourishment over the past two decades, new evidence shows a stagnation of this trend, particularly in Central Asia.

Malnutrition in one or more of its three main forms – undernutrition, micronutrient deficiencies, and overweight and obesity – is present to varying degrees in all countries of the region. Often, all three forms coexist, creating what is called the “triple burden of malnutrition.” Overweight among children and obesity among adults continue to rise – with now almost one-fourth of the region’s adults obese – and constitute a significant concern for future health and well-being and related costs.

While poverty levels in most ECA countries have been declining in recent years, poverty coupled with inequality has led to increased vulnerability of disadvantaged groups and populations in rural and remote areas of low- and lower-middle-income countries. New analysis shows that adult women have a higher prevalence of severe food insecurity than men in some areas, pointing to gender inequalities that are reflected in access to food. Addressing gender and other inequalities is key to achieving the Sustainable Development Goals and heeding the call to “leave no one behind.”

The publication’s focus this year is on migration, gender and youth and the linkages with rural development and food security in Europe and Central Asia. Migration is linked in multiple ways to gender, youth, and agricultural and rural development – both as a driver and possible source of development opportunities, with labour migration and remittances playing significant roles in the region. Changing migration processes need to be fully understood to better address the challenges of migration and harness the potential benefits for sustainable development and revitalized rural areas.

Governments, public and private institutions, communities and other concerned parties must strengthen collaboration and scale up efforts towards achieving the goals of a thriving, healthy and food-secure region.



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