

Global Action Programme on Food Security and Nutrition in Small Island Developing States

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DRAFT

CONTENTS

EXECUTIVE SUMMARY	3
INTRODUCTION	5
Food security, nutrition, and the SDGs	7
Food security and nutrition situation in SIDS	9
ACTION PLAN	14
GOAL AND VISION	14
OBJECTIVES AND RECOMMENDED ACTIONS	14
Objective 1. Enabling environments for food security and nutrition	15
Component 1.1. Politics and governance	16
Component 1.2 Capacity and resources	22
Component 1.3. Knowledge and evidence generation, dissemination and use	26
Objective 2. Sustainable, resilient, and nutrition-sensitive food systems	29
Component 2.1: Sustainable management and use of oceans and seas and their resources for food security and nutrition	31
Component 2.2: Sustainable management and use of freshwater resources for food security and nutrition	33
Component 2.3: Sustainable management and use of terrestrial resources for food security and nutrition	35
Component 2.4: Inclusive and efficient nutrition-sensitive value chains	37
Component 2.5. Climate adaptation and resilience for food security and nutrition	41
Objective 3. Empowered people and communities for food security and nutrition	44
Component 3.1. Social and economic empowerment	45
Component 3.2. Nutrition-sensitive social protection programmes	47
Component 3.3. Targeted community-based interventions and services to prevent and treat malnutrition in all its forms	49
MONITORING AND EVALUATION	52
APPENDIX 1. THEORY OF CHANGE	52
APPENDIX 2. INDICATIVE RESULTS FRAMEWORK	Error! Bookmark not defined.

EXECUTIVE SUMMARY

The *Global Action Programme on Food Security and Nutrition in Small Island Developing States* (GAP) aims to accelerate action on food security and nutrition to support the sustainable development of Small Island Developing States (SIDS). It is intended as a concrete, tangible contribution to the integrated implementation of the 2030 Agenda for Sustainable Development and the SAMOA pathway for SIDS.

Ending hunger and poverty are identified as overall priorities of the 2030 Agenda, with food security and nutrition prioritized in Sustainable Development Goal 2 (SDG 2), under which UN Member States have committed to ending hunger, achieving food security, improving nutrition, and promoting sustainable agriculture by 2030. Food security and nutrition contribute to the integrated implementation of the 2030 Agenda and therefore, most of the other 16 SDGs contain targets that are linked, either directly or indirectly, to food security and nutrition. Actions to end hunger, achieve food security, and improve nutrition are crucial investments in human health and wellbeing, poverty reduction, reduce inequality and improve gender equality, foster economic growth, yield benefits across generations, and will be central to the achievement of the 2030 Agenda as a whole.

The SAMOA Pathway reflects a number of challenges shared by Small Island Developing States that make them uniquely vulnerable to food insecurity, including: limited land mass and population; fragile natural environments and lack of arable land; high vulnerability to climate change, external economic shocks, and natural disasters; typically high dependence on food imports; dependence on only one or two economic pillars; and distance from global markets.

The majority of SIDS face a “triple burden” of malnutrition, in which undernutrition, micronutrient deficiencies, and overnutrition coexist within the same population, communities, households, and, at times, within the same individual over the life course. While a number of SIDS have achieved reductions in undernourishment, as a whole, SIDS have advanced more slowly in reducing hunger than the global average. Chronic undernutrition, resulting in stunting, wasting, low birth weight, and micronutrient deficiencies remains a serious concern in many SIDS, particularly among specific, vulnerable population groups, including women of reproductive age and children less than five years of age. Meanwhile, prevalence rates of obesity and non-communicable diseases (NCDs) associated with poor quality diets are, in many SIDS, amongst the highest in the world.

In addition to the direct health consequences, malnutrition imposes considerable social and economic costs on individuals, families, communities, and societies, is often linked to poverty in a vicious cycle, and exacerbates inequities by disproportionately affecting disadvantaged groups, including women and children. With rapidly rising rates of obesity and associated NCDs, the economic burden of malnutrition is projected to rise exponentially in most SIDS.

The GAP recommends actions at local, national, regional, and global levels to achieve three interconnected and mutually-reinforcing objectives: 1) Enabling environments for food security and nutrition; 2) Sustainable, resilient, and nutrition-sensitive food systems; and 3) Empowered people and communities for improved food security and nutrition. The GAP’s structure is intended to facilitate and guide a comprehensive, multi-sectoral approach to achieving food security and improved nutrition in SIDS.

The GAP is global in scale and has been developed as a guidance document for all SIDS. It is intended for a wide range of stakeholders, including SIDS governments, private sectors, civil society and other non-state actors, local authorities, the scientific community, academia, international organizations, donors and development partners. Development of detailed implementation roadmaps at the regional, national and agency/organization level - based on this GAP, but taking into account regional and national priorities, needs and conditions - is encouraged. It is expected that these implementation roadmaps will identify specific priorities, modalities of collaboration and partnerships, roles, accountabilities, governance, and resourcing opportunities.

Monitoring and evaluation mechanisms will be developed as part of detailed implementation plans at the regional, national and local levels. A dedicated mechanism to report back on progress in implementation of the action plan at the global level is being developed.

INTRODUCTION

1. The *Global Action Programme on Food Security and Nutrition in Small Island Developing States* (GAP) aims to accelerate action on food security and nutrition to support the sustainable development of Small Island Developing States (SIDS).ⁱ It is intended as a concrete, tangible contribution to the integrated implementation of the 2030 Agenda for Sustainable Development.
2. Food security and nutrition are identified as overall priority for the 2030 Agenda and reflected in Sustainable Development Goal 2 (SDG 2), under which UN Member States have committed to ending hunger, achieving food security, improving nutrition, and promoting sustainable agriculture by 2030. Food security and nutrition contribute to the integrated implementation of the 2030 Agenda and therefore, most of the SDGs contain targets that are linked, either directly or indirectly, to food security and nutrition.
3. Recognising the need to accelerate global progress towards SDG2, and the cross cutting nature of food security and nutrition for achieving the 2030 Agenda for Sustainable Development, the UN General Assembly in April 2016 committed Member States to a Decade of Action on Nutrition (2016-2025). The Decade is a global collective effort to end malnutrition in all its forms within the framework agreed at the 2nd International Conference on Nutrition (ICN2) held in November 2014 (outlined in the Rome Declaration on Nutrition and Framework for Action)ⁱⁱ and under the umbrella of the 2030 Agenda. It is supported by the new strategic plan of the UN Standing Committee on Nutrition (UNSCN), the dedicated platform for open, substantive and constructive dialogue on nutrition between UN agencies.
4. The agreed priorities of SIDS for the 2030 Agenda are outlined in the *SIDS Accelerated Modalities of Action (SAMOA) Pathway*.ⁱⁱⁱ The *SAMOA Pathway* acknowledges processes underway towards implementation of multilateral commitments for the sustainable development of SIDS,^{iv} while underscoring the need for a more integrated approach to sustainable development as reflected in the 2030 Agenda for Sustainable Development. It calls for strengthened international cooperation and partnerships, with adequate provision and mobilization of all means of implementation, to address the persistent development challenges of SIDS and to achieve internationally agreed goals. This includes support for the efforts of SIDS to:

ⁱ Small Island Developing States (SIDS) are a distinct group of developing countries that share similar vulnerabilities and development challenges. The UN SIDS group is made up of [37 countries](#) across three regions: the Caribbean region, Pacific region, and Atlantic, Indian Ocean, Mediterranean and South China Seas (AIMS).

ⁱⁱ Second International Conference on Nutrition, 19-21 November 2014, Rome, Italy, jointly organized by WHO and [FAO](#)

ⁱⁱⁱ Outcome document adopted at the Third International Conference on the Sustainable Development of Small Island Developing States (Apia, SAMOA, 1-4 September 2014) and endorsed by the UN General Assembly in its Resolution 69/15 of 14th November 2014.

^{iv} Including those outlined in the Rio Declaration on Environment and Development, Agenda 21, the Programme for the Further Implementation of Agenda 21, the Plan of Implementation of the World Summit on Sustainable Development (Johannesburg Plan of Implementation), including chapter VII, on the sustainable development of small island developing States, and the Johannesburg Declaration on Sustainable Development, the Programme of Action for the Sustainable Development of Small Island Developing States (Barbados Programme of Action) and the Mauritius Strategy for the Further Implementation of the Programme of Action for the Sustainable Development of Small Island Developing States (Mauritius Strategy), and the outcome document of the 2012 United Nations Conference on Sustainable Development, entitled "The future we want".

- End malnutrition in all its forms, including by securing year-round access to sufficient, safe, affordable, diverse, and nutritious food;
 - Take urgent steps to establish, for the period from 2015 to 2025, 10-year targets and strategies to reverse the spread and severity of non-communicable diseases.
 - Promote the further use of sustainable practices relating to agriculture, crops, livestock, forestry, fisheries and aquaculture to improve food and nutrition security while ensuring the sustainable management of the required water resources;
 - Promote open and efficient international and domestic markets to support economic development and optimize food security and nutrition;
 - Enhance international cooperation to maintain access to global food markets, particularly during periods of higher volatility in commodity markets;
 - Increase rural income and jobs, with a focus on the empowerment of smallholders and small-scale food producers, especially women;
 - Enhance the resilience of agriculture and fisheries to the adverse impacts of climate change, ocean acidification and natural disasters; and
 - Maintain natural ecological processes that support sustainable food production systems through international technical cooperation.
5. The *SAMOA Pathway* recognises the call, in the outcome of the interregional preparatory meeting for the third International Conference on Small Island Developing States, adopted in Bridgetown on 28 August 2013,^v for the development of an action programme to address food and nutrition challenges facing SIDS, facilitated by the Food and Agriculture Organization of the United Nations (FAO).
 6. This GAP is the outcome of consultations conducted between June 2015 and December 2016, led by the FAO in close coordination with the United Nations Department of Economic and Social Affairs (UN-DESA) and the United Nations Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries, and Small Island Developing States (UN-OHRLS).^{vi}
 7. Recognising the priorities outlined in the *SAMOA Pathway*, the GAP focuses on opportunities to strengthen cooperation and enhance integration of existing processes and strategies towards global, regional, and national commitments for food security, nutrition and sustainable development in SIDS.^{vii} These opportunities include strengthening

^v [A/CONF.223/PC.2](#), annex.

^{vi} Consultations were launched with a High-Level Panel on SIDS at the 39th session of the FAO Conference in Rome, Italy on 6th June, 2015. A Ministerial Meeting on Enhancing Food Security and Climate Adaptation in SIDS was held in Milan, Italy on 14-16 October, 2015, jointly organised by the FAO, the UN Department for Economic and Social Affairs (DESA), and the Government of Italy. At the close of this meeting, SIDS government participants adopted the *Milan Declaration on Enhancing Food Security and Climate Adaptation in Small Island Developing States, in the framework of the SAMOA Pathway*.^{vi} Regional consultations were subsequently convened by the FAO for the SIDS of the Atlantic and Indian Ocean, Mediterranean and south China sea (AIMS) during the 29th session of the FAO Regional Conference for Africa on 4 – 8 April 2016 in Abidjan, Côte d'Ivoire; for Caribbean SIDS in the margins of the 34th session of the FAO Regional Conference for Latin America and the Caribbean in Mexico City, Mexico from 29 February to 3 March, 2016, and the Asia and Pacific SIDS, during the 33rd FAO Regional Conference for Asia and the Pacific, Putrajaya, Malaysia, 9 March 2016. A technical meeting was held in 1-3 November 2016 in Suva, Fiji.

^{vii} Including binding and non-binding commitments outlined in the WHO Comprehensive Implementation Plan for Maternal, Infant and Young Child Nutrition, WHO Global Action Plan on the Prevention and Control of Non-Communicable Diseases, ICN2 Rome Declaration and Framework for Action; 10-year Framework of Programmes on Sustainable Consumption and Production (10YFP), UN Framework

international partnerships, enhancing mobilization of resources (human and financial); strengthening capacity and capacity building efforts; sharing of information, knowledge, experience and technologies; improving coordination and coherence of policy, project and programme delivery; and the integration of food security and nutrition objectives, actions and accountability mechanisms into all relevant policies, programmes, strategies, and plans of action.

8. The GAP is global in scale and has been developed as a guidance document for all SIDS. Development of detailed implementation roadmaps at the regional, national and agency/organization level - based on this GAP, but taking into account regional and national priorities, needs and conditions - is encouraged. It is expected that these implementation roadmaps will identify specific priorities, modalities of collaboration and partnerships, roles, accountabilities, governance, and resourcing opportunities.

Food security, nutrition, and the SDGs

9. The 2030 Agenda is an integrated system of goals and targets, where the successful implementation of any one Sustainable Development Goal (SDG) will influence progress in others. Food security and nutrition are complex, multi-faceted challenges that cut across the entire 2030 Agenda as both inputs to, and outputs of, the successful implementation of most of the 17 SDGs. The evidence is particularly robust for bidirectional links between food security and nutrition, and poverty eradication (SDG 1), hunger, sustainable food and agriculture (SDG2 and 12), health and sanitation (SDG 3), education and learning (SDG 4), gender equality and empowerment (particularly of girls, women, and vulnerable and marginalized populations) (SDG 5), equality (SDG 10), conservation and sustainable use of natural resources on land and below water (SDG 6, SDG14 and 15).
10. Food security exists “when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life”.^{viii} This concept of food security encompasses four pillars: availability, access, utilization, and stability. All four pillars are intricately linked to poverty (SDG 1). Poor households spend a greater share of their income on food, are vulnerable to hunger and poor quality diets because they lack the resources to meet their basic needs, and are significantly more vulnerable to food price spikes and volatility. Food prices, and food price volatility, are influenced by the interplay of a number of factors at the global, national, and local levels, including the availability, management and use of natural resources (SDGs 2, 6, 12, 14, and 15), energy prices (SDG 7), climate change (SDG 13), and global demand factors.

Convention on Climate Change and its Paris Agreement, Addis Ababa Action Agenda of the Third International Conference on Financing for Development, Sendai Framework for Disaster Risk Reduction 2015-2030, the International Treaty on Plant Genetic Resources for Food and Agriculture, the Convention on Biological Diversity's (CBD's) 2011-2020 Strategic Plan and associated Aichi targets (notably 4, 6, 13, and 14), as well as the CARICOM Port-of Spain Declaration on NCDs, the WHO Action Plan to Reduce the Double Burden of Malnutrition in the Western Pacific Region (2015-2020), and regional and national food and nutrition security policies and action plans (including Food Secure Pacific, the CARICOM Regional Food and Nutrition Security Action Plan (RFNSAP), and the Indian Ocean Regional Programme for Food Security and Nutrition (PRESAN)).

^{viii} FAO, 2002. *The State of Food Insecurity in the World 2001*. FAO, Rome.

11. Food availability, access, and stability are strongly dependent on sustainable, resilient, inclusive, and efficient systems of production and consumption, which feature prominently in more than half of the SDGs (including SDGs 2, 6, 7, 8, 9, 12, 13, 14, and 15). Temperature and sea-level rises, extreme weather events and other adverse impacts of climate change pose a growing threat to agricultural and food systems worldwide, while these same systems have a major role to play in climate change mitigation and adaptation efforts (SDG 13).
12. Food security is a necessary, but not sufficient condition of good nutritional status. In addition to individual access to, and intake of, adequate, safe and nutritious food, nutritional status is influenced by illnesses and physical activity at the individual level (SDG 3), household food security, maternal and child feeding and care practices, access to quality health-care services (SDG 3), access to clean water and safe sanitation (SDG 6), and underlying policies, availability and management of resources at the societal level (cutting across multiple SDGs, including 10, 14 and 16).^{ix}
13. Malnutrition is linked, either directly or indirectly, to many of the major case causes of death and disability worldwide, and represents the number one risk factor in the global burden of disease.^x Malnutrition manifests itself in multiple ways, from low body weight, deficiency in essential vitamins and minerals, increased risk of infection, and impaired child growth and development, to excess body weight and increased risk of chronic diseases due to excess intakes of fat, salt or sugar.^{xi}
14. Addressing malnutrition in the first 1,000 days of life – from pregnancy to two years of age – represents the most critical “window-of-opportunity” for reducing the global burden of malnutrition, in terms of impact and returns on investment. Inadequate nutrition during this period can contribute to an intergenerational cycle of malnutrition, including elevated future risk of adult obesity and non-communicable diseases (NCDs). In a form of ‘early life programming’, low birth weight, stunting and wasting are themselves independent risk factors for overweight later in life. When children who experience growth faltering during the first 1000 days period are subsequently exposed to a more ‘obesity prone’ environment (with wide availability of cheap energy-dense, processed foods and low physical activity), the likelihood that they will develop obesity in later childhood or adulthood is exacerbated. Ensuring good nutrition during the critical first 1,000 days period builds a foundation for longer, healthier lives and has intergenerational benefits.
15. In addition to the direct health consequences, malnutrition imposes considerable social and economic costs on individuals, families, communities, and societies, is often linked to poverty in a vicious cycle, and exacerbates inequities by disproportionately affecting disadvantaged groups, including women and children. Undernutrition in utero and early childhood impairs physical and cognitive development, is linked to lower educational attainment, and impedes children from achieving their full social and economic potential.

^{ix} UNICEF 1990. Conceptual Framework on the Causes of Malnutrition.

^x Global Panel on Agriculture and Food Systems for Nutrition (2016). Food Systems and Diets: Facing the challenges of the 21st Century.

^{xi} Global Nutrition Report 2016.

Obesity and diet-related NCDs reduce individual productivity and earning capacity while increasing household expenses. At the macroeconomic level, all forms of malnutrition have significant long-term impacts on labour supply (both quality and quantity), national productivity, and economic growth. Good nutrition, on the other hand, supports higher educational attainment (SDG 4), productivity and macroeconomic growth (SDGs 2 and 8).

16. Much of the burden of food insecurity, hunger, and malnutrition is avoidable, and tackling it is a moral imperative. Actions to end hunger, achieve food security, and improve nutrition are also crucial investments in human health and wellbeing, poverty reduction, and economic growth, yield benefits across generations, and will be central to the achievement of the 2030 Agenda as a whole.

Food security and nutrition situation in SIDS

17. SIDS share a number of challenges that make them uniquely vulnerable to food insecurity, including: limited land mass and population; fragile natural environments and lack of arable land; high vulnerability to climate change, external economic shocks, and natural disasters; typically high dependence on food imports; dependence on only one or two economic pillars; and distance from global markets. At the same time, there is considerable variability between SIDS in socio-economic conditions and institutional capacities, and in their food security and nutrition situations.
18. Food imports have become an increasingly important source of food availability in most SIDS. Caribbean SIDS, for instance, currently import in excess of US\$ 5 billion in food annually, an increase of more than 50 per cent since 2000. Food imports in the region are projected to increase to US \$8-10 billion by 2020 if current consumption and production patterns remain as they are now. Almost all Caribbean SIDS import more than 60 per cent of the food they consume, with half of them importing more than 80 per cent. Only three Caribbean SIDS (Belize, Guyana, and Haiti) produce more than 50 per cent of their consumption. Processed foods, grains (wheat and corn), and livestock products (meat and dairy) are among the top five food import categories, accounting for over US\$ 1 billion or approximately 25 per cent of annual food imports among Caribbean SIDS.
19. Declining domestic food production has increased the dependence of many SIDS on imported foods, although domestic food production remains significant in some SIDS.^{xii} In the Indian Ocean region, the share of food consumed that is produced domestically ranges from less than 30 per cent in Mauritius and Seychelles (25 per cent and 28 per cent respectively) to 71 per cent in Comoros. Cereals (including rice), vegetable oils, meat and dairy products are among the main import categories, with most imports coming from countries far from the Indian Ocean region (e.g. Brazil, South-East Asia).^{xiii}
20. Given this level of dependence on food imports, SIDS populations are particularly vulnerable to external shocks, including from food price and supply volatility (as witnessed

^{xii} FAO, 2015. State of Food Insecurity in the CARICOM Caribbean.

^{xiii} Programme Régional pour la Sécurité Alimentaire et Nutritionnelle (PRESAN) de la Commission de l'Océan Indien (COI), 2016.

in the 2008 global food crisis). The risks posed to global rice and wheat production by climate change, including the adverse impacts of the El Niño phenomenon, linked with increasing demand for these basic foods from an expanding world population, could lead to less secure and more costly supplies of imported staples in SIDS. The collapse of coastal fisheries resources would also increase the reliance of SIDS on imports of animal-based proteins at a time when the diets of emerging global economies are demanding more meat and dairy products. The effects of population growth on global food supplies over the next two decades are expected to be just as consequential as the disasters triggered by natural hazards, eventual impacts of sea level rise and saltwater intrusion from longer-term climate change.

21. The nutritional quality of many imported foods is also of concern for SIDS. While trade liberalization has contributed to lower food prices for consumers and improved access to a more diverse and stable supply of foods year round, an unintended consequence of this process in SIDS has been to incentivise consumption of energy-dense foods that are high in fat, salt and sugar. Although largely an import issue, foreign investment in domestic food processing sectors in some SIDS has also contributed to the increased availability, and lower prices, of highly processed foods. The result has been a 'dietary transition' away from traditional, domestic staples (root crops and tubers), fruits and vegetables towards diets high in processed foods and animal source foods, sugar, fat and salt. This transition has been identified as a leading driver behind the sharp rise in rates of obesity and micronutrient deficiency in SIDS.
22. These dietary shifts have taken place alongside rapid social and epidemiological changes associated with rapid urban population growth in SIDS,^{xiv} including a trend towards increasingly sedentary lifestyles, lower labour force participation in agriculture, increasing labour force participation by women (with less time available for household food preparation, and unmatched by an increased participation in household tasks by men), and a growing appeal and acceptability of 'western' foods and eating patterns.
23. Many SIDS have high poverty levels and high rates of unemployment, two key constraints to food access. The highest poverty rates are registered in the SIDS of the Atlantic Ocean, reaching 66.2 per cent in São Tomé e Príncipe and 69.3 per cent in Guinea-Bissau.^{xv} Poverty rates exceed 30 per cent in six Caribbean SIDS, with the poverty rate in Haiti approaching 60 per cent. In the Pacific, poverty rates range from 12.7 per cent in Vanuatu to 35.2 per cent in Fiji. Youth unemployment is particularly high in most SIDS and is higher than the global average. More than half of youth in the Republic of the Marshall Islands and Kiribati are unemployed, for example,^{xvi} and 25 per cent of youth are unemployed in seven of the fourteen Caribbean SIDS.

^{xiv} The population of the Pacific SIDS is predicted to increase by 80% by 2050

^{xv} FAO, 2016. State of Food Security and Nutrition in Small Island Developing States (SIDS). Rome, Italy

^{xvi} UNDP 2014. The State of Human Development in the Pacific: A report on vulnerability and exclusion in a time of rapid change. United Nations Development Programme, Pacific Centre, Suva, Fiji.

24. The majority of SIDS face a “triple burden” of malnutrition, in which undernutrition, micronutrient deficiencies, and overnutrition coexist within the same population, communities, households, and, at times, within the same individual over the life course.
25. A number of SIDS have achieved reductions in undernourishment^{xvii} in recent years. Samoa, Sao Tome and Principe, and four Caribbean countries (Cuba, Dominican Republic, Guyana, and St. Vincent and the Grenadines) are among the 29 countries worldwide to have met both the World Food Summit and Millennium Development Goal targets of halving the number and prevalence of undernourished people by 2015.^{xviii} Two Caribbean SIDS (Barbados and Dominica), two Indian Ocean SIDS (Mauritius and Seychelles), and three Pacific SIDS (Fiji, Samoa and Kiribati) have achieved undernourishment rates of less than 5 per cent, meaning they have effectively eradicated hunger. Six Caribbean countries (Bahamas, Belize, Jamaica, St. Vincent and the Grenadines, Suriname, and Trinidad and Tobago) have undernourishment rates between 5 and 10 per cent, and five more (Antigua and Barbuda, Grenada, Guyana, St. Kitts and Nevis, and St. Lucia) have undernourishment rates between 10 and 20 per cent. Other SIDS, such as Fiji, Kiribati, Maldives and Solomon Islands, have achieved the MDG1 target.
26. However, as a whole, SIDS have advanced more slowly in reducing hunger than the global average. While the prevalence of undernourishment fell by 44% in the developing world (from 23.3% to 12.9%) between 1990-92 and 2014-16, in SIDS the reduction was only by 26%, from 24.5% to 18%.^{xix} Two SIDS have an undernourishment rate higher than 20 percent: Guinea-Bissau with 20.7% and Haiti - a unique case in the Caribbean sub-region with more than half of the population (53.4%) estimated to be undernourished.
27. Chronic undernutrition, resulting in stunting, wasting, low birth weight, and micronutrient deficiencies remains a serious concern in many SIDS, particularly among specific, vulnerable population groups, including women of reproductive age and children less than five years of age. Stunting rates among children under-5 are categorised as ‘high prevalence’ in Solomon Islands (32.8%), as ‘medium prevalence’ in Vanuatu (28.5%), Nauru (24%), Guinea-Bissau (27.6%) and Haiti (21.9%).^{xx} These national figures tend to mask wide disparities, with children living in rural areas and low-income households, and children born to mothers with low levels of education more likely to be stunted than their counterparts. In Vanuatu, stunting prevalence in rural areas is 1.7 times higher than in urban areas.^{xxi}
28. Most Pacific Island countries have wasting rates at or below 5%, however wasting prevalence tends to be higher in the youngest age groups (under 24 months). Wasting is at ‘serious’ level in the Maldives (10.2%).^{xxii}

^{xvii} Defined as inability to acquire enough food to meet the daily minimum dietary energy requirements, over a period of one year.

^{xviii} FAO, IFAD and WFP, 2015, *The State of Food Insecurity In the World 2015. Meeting of the 2015 international hunger targets: taking stock of uneven progress*. FAO, Rome. Available at: <http://www.fao.org/3/a-i4646e.pdf>

^{xix} *ibid*

^{xx} Global Nutrition Report, 2016

^{xxi} Vanuatu Demographic and Health Survey 2013.

^{xxii} Global Nutrition Report, 2016.

29. Prevalence of Low Birth Weight (LBW)^{xxiii} is reported to be 10% or above in several Pacific Island countries (Fiji 10%; Vanuatu 10%; Solomon Islands 13%; Republic of Marshall Islands 18%; Federated States of Micronesia 18% and Nauru 27%).^{xxiv}
30. Anaemia among women and children is a public health problem in most SIDS. The 2016 Global Nutrition Report reports moderate prevalence of anaemia among women of reproductive age in most Pacific Island countries (for example, Solomon Islands at 25.3%, Vanuatu at 21.7%, Fiji at 26.8% and Kiribati at 20.7%), as well as in Belize (21.7%), Jamaica (24.4%), and Suriname (24.9%) in the Caribbean.^{xxv} Prevalence rates are even higher in the African SIDS (for example, 30.8% in Comoros, 42.7% in Sao Tomé e Príncipe, and 44.6% in Guinea-Bissau). Among children under-5 years, the prevalence of anaemia is generally higher in the younger age groups (6-24 months).
31. Prevalence rates of obesity and NCDs associated with poor quality diets are, in many SIDS, amongst the highest in the world. Chronic NCDs are now the leading cause of morbidity and mortality in most SIDS. In the Pacific, where leaders have declared an “NCD crisis”,^{xxvi} NCDs are now responsible for approximately 75% of deaths. The top seven most obese countries in the world are in the Pacific and of the ten countries with the highest diabetes prevalence in the world, seven are Pacific SIDS.^{xxvii} Eleven Caribbean SIDS have obesity rates greater than 30 per cent among adult women, and five of these countries have adult female obesity rates exceeding 50 per cent. Several SIDS are starting to experience high levels of child overnutrition (Tuvalu 6.3%; Tonga 17.3%; Maldives 6.5%, Jamaica 7.8%).^{xxviii}
32. Optimal infant and young child feeding includes early initiation of breastfeeding within one hour of delivery, with exclusive breastfeeding until six months of age followed by continued breastfeeding until at least two years of age together with safe, healthy complementary foods. Most countries in the Pacific are above the 2025 global target for exclusive breastfeeding (at least 50%). However, exclusive breastfeeding practices are inadequate in a number of SIDS (for example, Suriname (2.8%), Belize (15%), Jamaica (24%), Marshall Islands (31%), Tuvalu (35%) and Fiji (40%)) and continued breastfeeding until two years of age is extremely low.
33. The costs of managing and treating obesity and associated NCDs are a significant drain on the resources of most SIDS, and are projected to rise exponentially.^{xxix} In the Pacific, public expenditure on health as a percentage of GDP is much higher than the global average for lower-middle income countries, with expenditure on treating and managing NCDs

^{xxiii} Defined by the WHO as weight at birth of less than 2,500 grams (5.5 pounds). Low birth weight - due to preterm birth or restricted foetal growth - is closely associated with foetal and neonatal mortality and morbidity, inhibited growth and cognitive development, and chronic diseases later in life. Global prevalence of Low Birth Weight (LBW) is 15%, with a global target of 30% reduction to less than 10% prevalence by 2025.

^{xxiv} UNICEF's Approach to Nutrition Programming in East Asia and Pacific Regions, vol 2: Situation Analysis, 2015

^{xxv} Global Nutrition Report, 2016

^{xxvi} 42nd Pacific Islands Forum, 2011

^{xxvii} Pacific Possible: Health and Non-Communicable Diseases. Background Paper. The World Bank, 2016.

^{xxviii} Global Nutrition Report, 2016

^{xxix} World Bank, 2012, The Economic Costs on Non-communicable Diseases in the Pacific Islands, Final report.

exceeding more than 50% of the health budget for many countries.^{xxx} Expanding public health expenditure in the context of low rates of economic growth, limited capacity to generate tax revenue, and high vulnerability to economic shocks and natural hazards presents a significant health financing challenge for these countries.

34. The economic burden (costs as a percentage of GDP) of NCDs in Pacific SIDS is much greater than the global average, and is projected to escalate further in the coming decades.^{xxxi} The biggest driver of lost output is the potential loss of labour due to early death. Cardiovascular disease accounts for the greatest mortality-related economic burden in the Pacific Islands, although diabetes plays a far greater role in the Pacific countries compared to the global average. By 2040, it is estimated that mortalities due to these two NCDs alone will have reduced the labour force of Pacific SIDS by between 6-20%.^{xxxii}

^{xxx} World Bank, 2016. Pacific Possible: Health and non-communicable diseases.

^{xxxi} World Bank, 2016. Pacific Possible: Health and non-communicable diseases.

^{xxxii} World Bank, 2016. Pacific Possible: Health and non-communicable diseases.

ACTION PLAN

GOAL AND VISION

35. The GAP aims to accelerate action on food security and nutrition in SIDS to support their efforts towards achieving the 2030 Agenda for Sustainable Development. It is intended to support and strengthen the implementation and alignment of existing global, regional, and national strategies and plans, within the framework of the SDGs.
36. The overarching vision of the GAP is the achievement of the right of everyone to access safe, sufficient and nutritious foods, the end of malnutrition in all its forms, and the sustainable management and utilization of natural resources in Small Island Developing States (SIDS) for the benefit of present and future generations.
37. The GAP recommends actions at local, national, regional, and global levels to achieve three interconnected and mutually-reinforcing objectives: 1) Enabling environments for food security and nutrition; 2) Sustainable, resilient, and nutrition-sensitive food systems; and 3) Empowered people and communities for improved food security and nutrition.
38. Together, these recommended actions are intended to facilitate and guide a comprehensive, multi-sectoral approach to achieving food security and improved nutrition in SIDS. The GAP is a global guidance document and the framework and recommendations provided should be reviewed and adapted according to regional, national and local priorities, needs and conditions. There is consensus, however, that comprehensive, whole-of-government, and whole-of-society approaches can most effectively achieve sustained improvements in food security and nutrition.
39. The GAP is intended to be useful to, and used by, a wide range of stakeholders. Many of the recommendations are particularly relevant to governments, who have primary responsibility for protecting their citizens' right to safe, sufficient and nutritious food. However, achieving the goal and vision of the GAP will require active commitment from, and involvement of the diverse range of private actors involved in food systems (from small-scale producers/fishers and micro-enterprises, to cooperatives and multinational corporations), civil society and other non-state actors, local authorities, the scientific community, academia, international organizations, donors and development partners.

OBJECTIVES AND RECOMMENDED ACTIONS

40. The GAP's structure and three objectives are based on a theory of change developed to guide implementation of the GAP, as well as monitoring and evaluation (See Appendix 1). According to this theory of change, successful implementation of many of the recommended actions will be reinforced by, and in some cases depend on, progress in other areas of the GAP. Actions to strengthen enabling political, institutional, and socio-cultural environments for food security and nutrition (Objective 1) will be necessary to

support and enable actions to improve the sustainability, resilience, and nutrition-sensitivity of food systems (Objective 2). Actions taken under these two objectives will reinforce, and be reinforced by, actions aimed at social and economic empowerment, and at building on the strengths of people and communities to enhance access to, and utilisation of, nutrition-specific and nutrition-sensitive programmes and services (Objective 3).

41. Recommended actions are further organised into several components within each of the three objectives, and are distinguished by level (local, national, regional, and global). Given the inter-connected nature of the GAP and its three objectives, many of the recommended actions are themselves linked, and in many cases mutually-reinforcing. Where implementation of a recommended action is particularly critical to the successful implementation of another, this is identified (with reference to the linked action in parentheses).
42. In addition to directly contributing to the achievement of SDG 2, successful implementation of the recommended actions in this GAP will contribute to multiple SDG targets and indicators. While specific SDG targets and indicators will be identified as part of detailed implementation, monitoring and evaluations plans, an indicative list of anticipated outcomes and their associated SDG targets and indicators has been prepared to accompany this GAP (see Appendix 2).

Objective 1. Enabling environments for food security and nutrition

43. An enabling social, economic, and political environment is key to achieving and sustaining progress in food security and nutrition. Building an enabling environment for food security and nutrition requires strong, sustained political commitment; effective governance and institutional arrangements including meaningful opportunities for civil society to engage and to hold governments to account; the alignment of processes, policies, legislation, systems, regulations, and investments across sectors and levels; the building and mobilisation of sufficient capacity and resources; and the generation and dissemination of reliable and timely knowledge and evidence.
44. Efforts to build and sustain enabling environments for nutrition have gained momentum globally in recent years, spearheaded in large part by the Scaling Up Nutrition (SUN) Movement. The SUN Movement is aimed at catalysing and supporting collective action, increased investment, and aligned implementation to advance progress towards global nutrition targets. The SUN Movement promotes a country-led approach whereby governments convene multi-sectoral and multi-stakeholder platforms supported by organized networks of partners – civil society, business, UN agencies, and donors. Of the 57 countries that have signed up to the SUN Movement and its system of support networks, only Haiti is a SIDS.

Component 1.1. Politics and governance

45. The concept of governance encompasses the institutions, rules, and norms (formal and informal) through which a society is organised, the processes and outcomes of decision-making and implementation, and the distribution and exercise of power within that society.
46. While the concept of governance is contextual – enabled or constrained by the specific socio-economic, socio-political and socio-cultural conditions in each country - there is general consensus on what effective governance for healthy diets and nutrition looks like. This consensus is reflected in the commitments and recommendations of the ICN2 Rome Declaration on Nutrition and Framework for Action, which themselves build on existing commitments, goals and targets for nutrition, including those outlined in the WHO *Global Action Plan on the Prevention and Control of NCDs 2013–2020* and WHO *Comprehensive Implementation Plan on Maternal, Infant and Young Child Nutrition*. These global commitments and goals are reinforced in the findings and recommendations of recent expert evidence reviews, including those of the WHO Commission on Ending Childhood Obesity^{xxxiii}, and the Global Panel on Agriculture and Food Systems for Nutrition's (GLOPAN's) Foresight Report *Food Systems and Diets: Facing the Challenges of the 21st Century*.^{xxxiv}
47. Key global recommendations for strengthening nutrition governance broadly include:
 - Raising the profile of nutrition within relevant national strategies, policies, actions plans and programmes, and aligning national resources accordingly;
 - Establishing formal, sustainable multi-sectoral and multi-stakeholder coordination mechanisms (both vertical and horizontal) to drive effective and coherent approaches and joint action across relevant sectors and levels of government;
 - Designing and implementing regulatory and voluntary instruments, based on scientific evidence and international guidelines, to improve the nutritional quality and safety of the food supply; limit the marketing, availability and consumption of unhealthy foods and beverages; and lower the relative price of healthy foods and raise the relative price of unhealthy foods;
 - Implementing policies on foods and beverages sold, marketed and provided in and around schools;
 - Exploring the use of non trade-distorting policy measures to improve the supply and competitiveness of local, nutritious foods and to make fruits, vegetables, pulses, nuts and seeds much more available, more affordable and safe for all consumers, including the poorest, including greater investment in the infrastructure required to produce, store and transport these foods, investment in agricultural research on these foods; and incentives for production and sale of healthy foods including where the poorest live;

^{xxxiii} [WHO 2016](#)
^{xxxiv} [GLOPAN 2016](#)

- Ensuring that food-based dietary guidelines (FBDGs) guide policy decisions affecting food systems and nutrition across all relevant sectors, in addition to forming the basis for nutrition education;
 - Raising awareness and promoting healthy eating habits through the provision of nutrition education and information, using multiple channels (ranging from mass media to the delivery of nutrition education in community settings), with the disclaimer that such efforts need to be accompanied by strategies to improve food environments (including acting on the legislative and policy recommendations outlined above), in order to incentivise and support healthy dietary behaviours;
 - Implementing policies and actions across all relevant sectors to address the broad determinants of food security and nutrition, particularly for poor, vulnerable and marginalized population groups, including agriculture, health, education, economic development, social protection, social welfare, infrastructure, planning and urban design, water and sanitation, trade, industry, investment, and environment sectors.
48. Effective governance is needed across the full range of sectors, actors, institutions, and activities involved in food systems, including those governing the management of natural resources (oceans and seas, fresh water, and land, including plant genetic resources and forestry), as well as infrastructure, trade, marketing, and food safety and quality.
49. The Committee on World Food Security (CFS) is the foremost independent, intergovernmental platform for advancing food security and nutrition governance at the global level, and is supporting country-led implementation of the 2030 Agenda and SDGs as they relate to food security, nutrition and sustainable agriculture. One of the core functions of the CFS is to provide independent, evidence-based guidance on food system governance. Key CFS guidance documents include the *Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests*^{xxxv} and *Principles for Responsible Investment in Agriculture*^{xxxvi}.
50. Effective food security and nutrition governance requires integration and coordination across all levels - from global to local. Governments have a primary responsibility for interpreting recommendations and taking action at country level, in coordination with other stakeholders and in relation to national needs and conditions. Above all, strong political will and commitment at the national level is essential to achieve sustained improvements in food security and nutrition.
51. Many SIDS governments demonstrated strong, early leadership in recognizing the urgency of the inter-related food security, climate change, nutrition and NCD-related challenges facing their populations. CARICOM Heads of State, for example, convened the world's first high-level summit on NCDs in 2007. This summit and its outcome document, the *Declaration of Port-of-Spain: Uniting to stop the epidemic of chronic non-communicable*

^{xxxv} [VGGT 2012](#)
^{xxxvi} [FAO 2014](#)

diseases, essentially paved the way for the 2011 UN High Level Meeting on the Prevention and Control of NCDs. Converting commitment into action has proven challenging, however. Evaluation of progress in implementing the commitments made in the Port-of-Spain declaration show progress has been uneven, with progress in implementing the diet-related commitments being particularly limited.^{xxxvii}

52. Ensuring a truly multisectoral approach to food security, nutrition and NCDs is a common challenge globally. Experiences in establishing multisectoral NCD commissions in a number of SIDS have demonstrated the critical importance of ensuring effective participation and contribution from all relevant ministries and stakeholders, including meaningful engagement of civil society, as well as ensuring that these platforms have appropriate mandates and high level support to be able to lead. Strong leadership, transparency, and accountability, including setting of clear targets and indicators, and monitoring and reporting of progress are also vital. When establishing multi-stakeholder platforms for food security and nutrition, it is essential that governments develop clear and transparent guidelines and strategies for appropriate engagement with, and regulation of, the private sector, in order to enable and incentivize positive contributions as well as to ensure robust safeguards against negative roles, abuse and conflicts of interest.
53. Coherent policies and actions are needed across all sectors that influence food security and nutrition, either directly or indirectly. Worldwide, food security and nutrition have been predominantly addressed through health and social sectors. However, policies implemented through these sectors could be made more sustainable and have a much stronger impact if they were better co-ordinated and integrated with other policies, including growth and development policies.^{xxxviii}
54. Use of fiscal measures to improve food environments and diets, as appropriate within the national context, is a key global recommendation and has been the subject of considerable attention. Overall, available evidence indicates that well-designed taxation measures can effectively encourage and support healthier food and beverage purchasing behaviours, with the strongest evidence for taxes on sugar-sweetened beverages (one of the key recommendations of the Commission on Ending Childhood Obesity). A number of SIDS have begun to explore the use of excise and other ‘health taxes’ to disincentivise consumption of foods and beverages identified as contributing to unhealthy diets. While Samoa’s experience with its import ban on turkey tails highlights the importance of ensuring coherence between trade and nutrition policy measures,^{xxxix} there are a range of evidence-based measures to promote healthy food environments and diets that do not conflict with multilateral trade rules. In the Pacific, excise taxes on sugar sweetened beverages and other food and beverage products with low nutritional value are being explored by a number of SIDS in response to the Pacific NCD pathways document endorsed by Ministers of Health and Ministers of Finance at the Forum Economic Ministers Meeting in Honiara, Solomon Islands in July 2014.

^{xxxvii} PAHO/WHO and CARICOM. Evaluation of the 2007 CARICOM Heads of Government Port of Spain NCD Summit Declaration. 2016

^{xxxviii} [OECD 2016](#)

^{xxxix} Samoa was required to lift the ban when it acceded to the WTO in 2012.

55. The *SAMOA Pathway* identified enhanced cooperation to maintain access to global food markets as a key priority for SIDS. Strengthening intra-regional markets and trade represents another critically important opportunity for improving food security in SIDS, both through reduced vulnerability to supply and price volatility, as well as expanded market opportunities for nutritious foods. This calls for greater regional cooperation, not only in the area of trade (and ideally through a comprehensive regional food security and nutrition action plan); strengthened cooperation, technical assistance, and capacity-building support in a range of sectors from development partners; and enhanced planning and investment in infrastructure and in improving production capacity in agricultural sectors where SIDS have geophysical and other advantages to supply their regional neighbours.
56. Efforts to promote trade and improve trade efficiency need to take into account the vulnerability and resilience of SIDS, and may need to be accompanied by non trade-distorting measures that improve the supply and competitiveness of local, nutritious foods (as outlined in a national food security and nutrition plan which is incorporated into the national development strategy). Revising agricultural and related policies to comply with the national food security and nutrition plan (as well as international trade rules and commitments) can help to promote the greater use of biological diversity, to prioritise investment in local fruit, vegetable and animal and fish products identified as efficient sources of micro- and macronutrients, and to improve the availability of, and access to, these foods. In addition to improving food security and diet quality, improving the supply and competitiveness of local, nutritious foods has significant potential to narrow rising trade deficits and to reduce health care costs.
57. At the same time, the multilateral trading system must play a role in promoting food security and nutrition in a meaningful way. The successful and timely conclusion of the issues remaining from the Doha Round of trade negotiations of the World Trade Organisation, including in the areas of agriculture, fisheries and trade and environment, should make a contribution in this regard. The Nairobi Package arising from the Tenth WTO Ministerial Conference contains several Ministerial decisions that are relevant to SIDS, including the commitment to eliminate agricultural export subsidies, and the Special Safeguard Mechanism (SSM) recognizing the right of Developing Countries to temporarily increase tariffs in the face of import surges.^{xi}

^{xi} Tenth WTO Ministerial Conference, Nairobi 2015

Indicative actions: Politics and governance

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
1.1.1. Enhanced political commitment to eradicate hunger, food insecurity, and malnutrition	1.1.1.1 Strengthen advocacy and collective action to hold national governments to account in implementation of food security and nutrition commitments	1.1.1.2. Set specific, measurable, achievable, relevant and time-bound (SMART) commitments for food security and nutrition	1.1.1.3. Explore use of scorecard or other approach to track progress and hold governments to account in implementation of food security and nutrition commitments	1.1.1.4. Explore use of scorecard or other approach to track progress and hold governments to account in implementation of food security and nutrition commitments
1.1.2. Inclusive governance, coordination, and accountability mechanisms for food security and nutrition in place at all levels	1.1.2.1. Facilitate and support meaningful engagement of communities, particularly marginalized and at-risk groups, in multi-stakeholder coordination and decision-making platforms for food security and nutrition at all levels 1.1.2.2. Integrate food security and nutrition priorities into community development plans and link to district and national cross-sectoral processes and strategies, drawing on experiences and lessons learnt in other SIDS (e.g. Tonga experience)	1.1.2.3. Establish/strengthen multi-sectoral, multi-stakeholder, and multi-level governance and coordination platforms for developing and overseeing an integrated national approach to improving food security and nutrition, and strengthening horizontal and vertical coordination. 1.1.2.4. Develop comprehensive, multi-stakeholder national food security and nutrition plan, and incorporate this into the national development strategy. ^{xli} 1.1.2.5. Allocate budget lines for nutrition strategies and plans.	1.1.2.6. Support development of national food security and nutrition plans and align relevant regional strategies and action plans	1.1.2.7. Provide coordinated support to strengthen capacities for collaborative multi-sectoral and multi-stakeholder food security and nutrition governance at national and sub-national levels
1.1.3. Legislative and institutional frameworks are strengthened	1.1.3.1. Strengthen local institutions, systems and mechanisms for addressing food security and nutrition	1.1.3.2. Harmonize and strengthen legislative and institutional frameworks across the food system to improve food security and nutrition, including those	1.1.3.3. Harmonize and strengthen regional institutional frameworks,	1.1.3.4. Provide coordinated support for capacity-development

^{xli} Drawing on international guidelines where available e.g. FAO/Commission on Genetic Resources for Food and Agriculture (CGRFA) voluntary guidelines for Mainstreaming Biodiversity into Policies, Programmes, and National and Regional Plans of Action on Nutrition

and harmonized to improve food security and nutrition	challenges, and link to advocacy and awareness-raising strategies	relating to food safety and quality; conservation and use of land, forest, marine, and freshwater biodiversity and resources; gender equality and women's empowerment.	standards, guidelines, and processes to improve food security and nutrition	to develop, strengthen, harmonize, and implement legal and institutional frameworks
1.1.4. Effective and coherent policies are in place to promote food security and nutrition	1.1.4.1. Facilitate and support meaningful engagement of communities, particularly marginalized and at-risk groups, in political and policy-making processes affecting food security and nutrition	<p>1.1.4.2. Prioritise, and set time-bound targets for, implementation of global best-practice policy recommendations for promoting food security, healthy diets and nutrition, including evidence-based regulatory and policy measures to improve the nutritional quality of the food supply and limit the marketing, availability and consumption of unhealthy foods and beverages; and non trade-distorting measures to improve the supply and competitiveness of local, nutritious foods.</p> <p>1.1.4.3. Establish national food-based dietary guidelines incorporating sustainability principles to guide all national nutrition education programmes, as well as to create a link between food demand and supply by guiding policies and actions in all relevant sectors, including agriculture, health, social protection, and education (including food standards for schools as well as other public institutions).</p>	1.1.4.4. Explore opportunities to integrate food security and nutrition objectives into regional policies (including those relating to trade, investment, food safety and quality)	1.1.4.5. Provide coordinated support for capacity-development to design and implement effective and coherent public policies for improving food security and nutrition
1.1.5. Policies and strategies across sectors are aligned to maximise benefits for food security and nutrition	1.1.5.1. Facilitate and support meaningful engagement of communities, particularly marginalized and at-risk groups, in political and policy-making processes affecting food security and nutrition	1.1.5.3. Review existing policies across all relevant sectors (including agriculture, health, economic development, social protection, education, trade, environment, water and sanitation, infrastructure, and industry) for their impacts on food security and nutrition, and integrate food security	1.1.5.5. Establish inter-regional trade policies and platforms and integrate food security and nutrition objectives, actions and accountability mechanisms	1.1.5.6. Provide coordinated support to build capacities of government and other stakeholders for policy development

	1.1.5.2. Integrate food security and nutrition priorities into local planning, development processes, and poverty reduction strategies.	and nutrition objectives, actions and accountability frameworks into all relevant policies and programmes, based on scientific evidence and international guidelines. 1.1.5.4. Strengthen/reform policies to promote social and economic security and empowerment, including rural infrastructure and services; urban planning, housing, land use, and development; water and sanitation; social, health, education, and employment policies.		and reform
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Component 1.2 Capacity and resources

58. Sufficient resources and human and financial capacity are fundamental components of enabling environments. The *SAMOA Pathway* notes that lack of resources and capacity has constrained the abilities of SIDS to create enabling environments for sustainable development and to fully implement international commitments, including the *Barbados Programme of Action* and *Mauritius Strategy*.
59. Human and institutional capacity-building is needed in all sectors and at all levels to improve food security and nutrition in SIDS. This includes strengthening the capacity of governments to establish and lead sustainable and accountable multistakeholder platforms, to assess and align policies and processes across sectors, and to formulate and implement sound policies for improved food security and nutrition. It also includes strengthening the capacity of local government authorities and non-government organizations to perform their functions; the capacity of research organizations to conduct high quality, timely, interdisciplinary and policy- and industry-relevant research; the capacity of frontline staff to deliver services; and citizen's capacity to advocate for their needs and hold governments to account. All of this will require significantly greater investment from domestic and international sources, as well as better quality, and better targeting of, investment^{xlii}.
60. Commitments to strengthen domestic financing for sustainable development outlined in the *Addis Ababa Action Agenda* include: strengthening the mobilization and effective use of domestic resources; increasing public investment in tackling efforts to end food insecurity, hunger and malnutrition, as well as in sustainable and resilient infrastructure; delivering social protection and essential public services for all; and setting nationally appropriate spending targets for quality investments in essential public services for all, including health, education, energy, water and sanitation.^{xliii} In the *Addis Ababa Action*

^{xlii} Guidelines for responsible investment in agriculture and food systems are outlined in the Committee on World Food Security's Principles for Responsible Investment in Agriculture and Food Systems (CFS 2014)

^{xliii} Addis Ababa Action Agenda of the Third International Conference on Financing for Development endorsed by the UN General Assembly

Agenda, the international community further committed to strengthening international cooperation in capacity-building and resource mobilization to support the sustainable development efforts of SIDS.

61. The *SAMOA Pathway* calls for specific support to help SIDS to “effectively participate in the multilateral trading system, including with respect to explaining trade rules and disciplines, negotiating and implementing trade agreements and administering coherent trade policies”, as well as to support SIDS efforts to “assess the implications and mitigate the impact of non-tariff barriers to their market access opportunities through, *inter alia*, appropriate technical assistance and the implementation of the Trade Facilitation Agreement of the World Trade Organization.”^{xliv}

Indicative actions: Capacity and resources

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
1.2.1. Increased investment in promoting food security and nutrition across agricultural and food systems	1.2.1.1. Identify opportunities to increase resources available to local institutions and organizations.	1.2.1.2. Attract and scale-up public and private investment in agricultural research and development for improved food security and nutrition, including the creation, adoption and incubation of innovative technologies and practices developed for, and in, islands and atolls, based on CFS guidelines for responsible investment in agriculture. 1.2.1.3. Increase investment in infrastructure, services, and markets for local, inclusive, and nutrition-sensitive value chains, including improved transport, storage and processing	1.2.1.4. Explore novel opportunities to harmonize and pool resources for improved food security and nutrition (e.g. regional approach to address inter-island transportation challenges).	1.2.1.5. Mobilize and increase resources available to support efforts to improve food security and nutrition in SIDS.

in its resolution 69/313 of 27 July 2015

^{xliv} Resolution 69/15, paragraph 107

		capacities.		
1.2.2. Human and institutional capacities for addressing food security and nutrition challenges enhanced in all relevant sectors	1.2.2.1. Strengthen capacities of local government and community-based organizations for addressing food security and nutrition challenges, including for community-based surveillance, program/service delivery (including training of community nutrition/behaviour change promoters), and monitoring; natural resource management; as well as capacity development of individuals to access and manage finances, and to generate income.	<p>1.2.2.2. Strengthen organizational capacities for ecosystem stewardship, livelihoods, food security and nutrition at all levels, with a focus on governance, social inclusion and community empowerment.</p> <p>1.2.2.3. Strengthen research capacities for addressing food security and nutrition challenges, including capacity for inter-sectoral coordination between research organizations.</p> <p>1.2.2.4. Provide training and capacity-building to social workers, agricultural extension personnel, teachers, health professionals, and other front-line personnel in the delivery of programs and services to promote food security, nutrition, and social and economic security (link to 3.3.1)</p> <p>1.2.2.5. Provide training and capacity-building to improve production and post-harvest management, address inefficiencies, and improve competitiveness in</p>	<p>1.2.2.9. Strengthen capacities of regional organizations working in all relevant sectors to address food security and nutrition challenges, including capacity for coordination and improved coherence (e.g. CARICOM, IOC, SPC).</p> <p>1.2.2.10. Strengthen and build research capacities for addressing food security and nutrition challenges, including capacity for inter-sectoral coordination between research organizations.</p>	<p>1.2.2.11. Provide coordinated support to build institutional and human capacities in all relevant sectors (including agriculture, forestry, fisheries, and health) and at all levels (regional, national and municipal/local) for addressing food security and nutrition challenges, including capacities for the development and adoption of low-cost surveillance, monitoring and assessment capabilities, program delivery, inter-sectoral coordination between organizations and ministries, and nutrition advocacy (including identifying and building the capacities of potential “nutrition champions” at local and national levels)</p> <p>1.2.2.12. Provide coordinated support to strengthen legal, institutional, and human capacities for effective regulation and governance of food systems for improved food security and nutrition, including legislative assistance, and support for monitoring and enforcement in the areas of fisheries,</p>

		<p>value chains for nutritious, locally-produced foods, including staple crops, fruits, vegetables, animal and fish products and seafood, particularly those involving smallholders.</p> <p>1.2.2.6. Strengthen capacity to conduct <i>ex ante</i> impact assessments of all proposed free trade agreements for food security and nutrition considerations, including potential impacts on local production, and import volumes of different food categories, and for nutrition/health representatives to participate in trade negotiations.</p> <p>1.2.2.7. Strengthen public sector capacities to monitor and enforce compliance to regulatory frameworks in the areas of fisheries, agriculture, forestry, conservation and use of marine and terrestrial biodiversity, food safety and quality</p> <p>1.2.2.8. Identify and build the capacity of potential advocates, champions, and drivers of change for improving the food system, food security and nutrition</p>	<p>agriculture, forestry, conservation and use of marine and terrestrial biodiversity, food safety and quality.</p> <p>1.2.2.13. Enhance support for collaborative research, technology transfer initiatives, and exchanges (including south-south and north-south) in the fields of agriculture, forestry and other land- use, and fisheries that contribute to better food security and nutrition outcomes, including exchanges on innovative approaches to linking local agricultural development and public procurement (such as home-grown school feeding programs).^{xiv}</p> <p>1.2.2.14. Enhance financial and technical support for the development of sustainable, accessible and resilient quality infrastructure, including transport, energy, water and sanitation.</p> <p>1.2.2.15. Provide coordinated support to strengthen the nutrition-sensitivity of disaster preparedness, risk reduction, and relief, and resilience-building programmes</p>
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^{xiv} e.g. WFP's Centre of Excellence on school feeding in Brazil

		(including politicians, celebrities, civil society representatives, and local leaders)		and initiatives. 1.2.2.16. Provide trade-related capacity-building and technical assistance to support participation of SIDS in the multilateral trading system while protecting and promoting food security and nutrition.
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Component 1.3. Knowledge and evidence generation, dissemination and use

62. There is an urgent need to strengthen the knowledge and evidence base on food security and nutrition in SIDS, and to enhance inter-sectoral as well as intra- and inter-regional sharing of this knowledge. Key priorities include greater investment in, and enhanced capacities, for: surveillance and monitoring of the food security and nutrition situation in different population groups; agricultural research and development targeted at improving the nutritional quality and resilience, and conserving and using the biodiversity of, food systems; and, better evidence on what policy and programme innovations work for improving diet quality in SIDS populations.
63. SIDS possess a wealth of cultural heritage, which is a driver and enabler for sustainable development. Harnessing this will be pivotal to achieving the 2030 Agenda in SIDS. Indigenous bio-cultural heritage recognizes the deep connections among people, culture, knowledge and the natural environment, and can meaningfully advance social development. There are also significant opportunities to better promote and support SIDS' culture and traditional knowledge relating to local food and cuisine. The Pacific Regional Cultural Strategy 'Investing in Pacific cultures 2010-2020' is an example of a regional strategy to integrate culture into sustainable development strategies that should be supported at all levels.^{xlvi}

Indicative actions: Knowledge and evidence generation, dissemination and use

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level

^{xlvi} [Investing in Pacific Cultures \(2010-2020\)](#)

<p>1.3.1. Collection, generation, dissemination and use of reliable, timely, locally-relevant data and knowledge, including surveillance, monitoring and evaluation</p>	<p>1.3.1.1. Collect and document traditional knowledge and practices relating to natural resource management and the production and preparation of traditional foods, and support sharing of knowledge between communities (link to 3.3.1.1).</p> <p>1.3.1.2. Develop and support community-based climate and food security surveillance systems.</p> <p>1.3.1.3. Support local research on the identification, utilisation, and market development of diverse, locally produced, nutrient-rich foods.</p> <p>1.3.1.4. Support community-led campaigns to raise awareness about the importance of efforts to improve food security and nutrition, nutrition education programmes to build knowledge and skills needed for healthier and more sustainable dietary habits, as well as safe hygiene and childcare practices</p>	<p>1.3.1.5. Monitor the implementation of policies and strategies outlined in the national food security and nutrition plan, and evaluate impacts across social groups.</p> <p>1.3.1.6. Conduct regular surveillance and monitoring of the food security and nutrition situation in different population groups, with timely response to emerging needs and challenges.</p> <p>1.3.1.7. Support agricultural research and development of a diverse range of foods including local staples and other crops, including underutilized traditional crops, a diverse range of fruits and vegetables best adapted to the effects of climate change, and appropriate production of animal-source products, applying sustainable food production and natural resource management practices (link to 2.3.1.2)</p> <p>1.3.1.8. Support research relating to climate-smart, nutrition-sensitive food systems, including use of renewable sources of energy which are abundant (such as wind, water and solar power) and related technologies.</p> <p>1.3.1.9. Support policy-oriented research to develop clear, usable analytic tools for assessing coherence between policies and programmes across all sectors (in particular, agriculture and trade), and food security and nutrition objectives; for monitoring the impacts of policy</p>	<p>1.3.1.16. Support maintenance and utilization of regional plant genetic resource facilities, including support for use of climate-resilient traditional crop varieties by farmers.</p> <p>1.3.1.17. Establish regional and inter-regional knowledge exchange platforms to facilitate sharing of knowledge, information and experience, document key lessons on what works and share.</p> <p>1.3.1.18. Develop regional research, technology transfer, and other initiatives.</p> <p>1.3.1.19. Integrate culture into regional development plans and strategies</p>	<p>1.3.1.20. Support inter-country collaboration, such as North-South, South-South and triangular cooperation, and information exchange on agriculture, nutrition, food, technology, research, good governance, policies and programmes.</p> <p>1.3.1.21. Provide support to strengthen national and regional research capacities on climate resilience, and facilitate research that takes into account the rich local, traditional and indigenous knowledge of SIDS as well as SIDS-based innovation and technologies.</p> <p>1.3.1.22. Support efforts to assess the effectiveness of 'health excises' and other fiscal measures in changing food consumption patterns, as well as their impacts on finance, in order to progress evidence-based policy approaches to incentivize healthier eating patterns.</p> <p>1.3.1.23. Provide support to monitor and track progress towards relevant global commitments</p>
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	(link to 2.5.1.2 and 3.1.1.5)	<p>measures on food supply, food consumption and nutrition indicators; and for identifying opportunities to enhance positive/mitigate adverse impacts.</p> <p>1.3.1.10. Integrate a limited but key set of food security and nutrition indicators into existing relevant surveillance, monitoring and evaluation mechanisms where appropriate, based on scientific evidence and international guidelines.</p> <p>1.3.1.11. Support improved baseline monitoring of island systems and the downscaling of climate model projections to enable better projections of the future impacts on small islands.</p> <p>1.3.1.12. Develop/improve national environment and resource databases, and the dissemination of information to relevant groups - especially rural communities, youth and women - as the basis for all aspects of land-use planning and management, along with appropriate decision-making tools such as land/geographic information systems, that contribute to better food security and nutritional outcomes.</p> <p>1.3.1.13. Promote research, investment in, and the adoption of, ICT technologies to advance information-sharing between urban and rural areas, and to ensure access to markets, data, and knowledge, particularly for small-scale farmers/fishers.</p>	and goals including exploring opportunities for a scorecard approach that builds on existing data collection processes to track progress in implementation of ICN2 and SDG (especially SDG2) commitments.
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		<p>1.3.1.14. Support research to better understand knowledge, attitudes, practices and norms related to food and nutrition, including motivators, sources of influence and the communication channels most likely to impact shifts in practices.</p> <p>1.3.1.15. On the basis of this research, develop appropriate, evidence-based behaviour change approaches and communication strategies to disseminate/reinforce key food security and nutrition messages through multiple communication channels, such as focused, sustained public awareness campaigns on climate change risks and the importance of human and environmental resilience to the longer-term impacts of climate change; the benefits of a sustainable approach to land-use practices and the importance of biological diversity conservation and use; the importance of protecting freshwater resources; and on how individual dietary and lifestyle choices affect individual health and the environment (based on national food-based dietary guidelines and tailored to specific population groups).</p>		
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Objective 2. Sustainable, resilient, and nutrition-sensitive food systems

64. The political, social, and economic environment creates the conditions in which food systems operate. Food systems comprise the production, aggregation, processing, distribution, consumption and disposal of goods that originate from agriculture, forestry, aquaculture and fisheries. They include the individuals, organizations and enterprises that produce, transform and deliver product to market

65. Numerous political and institutional processes, and policy-level actions influence how food systems operate and the foods they deliver. Food systems, in turn, determine the range of foods that are available, affordable, convenient and desirable to people; that is, the food environment. Food environments are the interface between food systems and diets. In combination with individual factors such as income, knowledge, time and preferences, they shape dietary consumption, which, in turn, affects nutritional status.
66. Despite significant improvements in the efficiency of food systems in delivering increasing quantities of food to growing populations, developments in these systems have created numerous challenges, including increased barriers to the participation of vulnerable groups, whether as producers, employees and consumers; growing malnutrition and health costs due to the emergence of and preference for more energy dense and convenient processed foods; significant levels of food loss and waste; increased incidence of food safety issues and trans boundary diseases; and environmental and natural resource degradation.
67. Globally, food systems need to be fundamentally reshaped to support local family-farmers systems, high quality and sustainable diets, and better nutritional outcomes, in addition to supplying sufficient quantities of food.^{xlvii} This will require coherent and coordinated action by a wide range of stakeholders – including family-farmers, producer organizations, consumer associations, industry associations and private sectors – and the mainstreaming of principles and recommendations for nutrition-sensitive approaches into strategies and actions across all components of food systems. These food system level actions will need to be supported by enabling political and institutional environments, including high-level and sustained political commitment and the alignment of national resources accordingly, and coherent public policies across the range of government ministries influencing food systems from production to consumption.
68. In most SIDS, women play a central role in food systems. In the Pacific, women are 52 percent of the agricultural work force. But across the SIDS (as in many other countries) women lag behind men in terms of access to productive resources (including land and equipment), credit and other financial services, technology, and other resources. Achieving gender equality and the empowerment of women, particularly in the primary production sector, is critical.
69. Production and post-production activities are inextricably linked. The development of value chains that link producers with consumers is critically important in ensuring that markets for increased agricultural production are attractive to producers, particularly for products produced in a more sustainable and inclusive way. These markets provide incentives for producers to invest in improved technologies and to adopt new practices. Without viable markets, incentives for investment in increased production won't be sustained. At the same time, without a consistent marketable supply of product, the required investments in value chain and market development won't be made by private sector enterprises. Organized networks of small-scale producer/fishers associations (e.g.

^{xlvii} Global Panel 2016 Foresight Report on Food Systems and Diets

cooperatives) can play an important role in supporting consistent supply of products to markets.

70. Actions are required to support coordinated investments by producers and other value chain actors in reshaping food systems. These actions are needed at the international level to create the environment for the emergence of robust global markets that deliver safe, healthy food with reliability and at a reasonable cost to consumers, at regional level to promote intra-regional trade and at national level to promote healthy, productive and resilient fisheries, oceans and seas; sustainable land management, the protection of soil and terrestrial ecosystems, and responsible patterns of consumption; all critical for food security and nutrition in SIDS.

Component 2.1: Sustainable management and use of oceans and seas and their resources for food security and nutrition

71. Healthy, productive and resilient fisheries, oceans and seas are the cornerstone of food security, sustainable livelihoods, economic development and essential ecosystem services in SIDS. In many Pacific SIDS, per capita fish consumption is more than 3–4 times the global average, with fish providing 50–90% of animal protein in the diet of coastal communities.^{xlviii}
72. Much of the fish used for food in SIDS come from subsistence fishing in coastal waters. Compared with fishing, aquaculture is of little significance in most SIDS from an economic or food security perspective. With the exception of freshwater aquaculture of tilapia in higher islands (e.g. Papua New Guinea, Solomon Islands), aquaculture has shown limited promise to date for improving food security in SIDS.
73. However, climate change, pollution, ocean acidification, habitat loss, and other stressors, as well as overexploitation and other unsustainable practices linked to population growth and growing demand for fish, are putting aquatic resources under considerable pressure and challenging the health, productivity and resilience of marine ecosystems.^{xlix, l}
74. SIDS have been at the forefront of advocacy for the 'blue economy' approach to harnessing the potential of healthy oceans, seas and coasts for sustainable development. Most have committed to international agreements and frameworks for sustainable fisheries and coastal management,^{li} as well as national and regional fisheries management policies. The challenge is adequate financial and non-financial resourcing and institutional and human capacities for adapting and implementing these, particularly at national level.

^{xlviii} SPC 2011. Vulnerability of Tropical Pacific Fisheries and Aquaculture to Climate Change.

^{xlix} HLPE 2014. Sustainable fisheries and aquaculture for food security and nutrition. A report by the High-Level Panel of Experts on Food Security and Nutrition. Rome, Italy, June 2014.

^l The Role of Seafood in Global Food Security. Document A/69/71.

^{li} Including the Port State Measures Agreement to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated (IUU) Fishing (PSMA), and the Convention on Biological Diversity's (CBD's) 2011-2020 Strategic Plan and relevant Aichi Biodiversity Targets (notably 6)

75. The *SAMOA Pathway* identifies a range of priorities for the conservation, management and sustainable use of oceans and seas and their resources in SIDS, including strengthened legal, institutional and human capacities for: the sustainable management of coastal zones and fisheries; the protection of coral reefs and other vulnerable marine ecosystems from ocean acidification and other hazards; and, the monitoring, control, and surveillance of illegal, unreported, and unregulated fishing. It also calls for the cooperation of the international community in implementing shared responsibilities, including under regional fisheries management organizations and arrangements; in addressing the use of subsidies in the fisheries sector that contribute to over-capacity and overfishing; and in ensuring that the burden of conservation and management of ocean resources does not disproportionately fall on SIDS.

Indicative actions: Sustainable management and use of oceans and seas and their resources for food security and nutrition

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
2.1.1. Oceans and seas and their resources are sustainably managed and used for food security and nutrition	<p>2.1.1.1. Empower all communities to manage their resources and work with government collaboratively for coastal fisheries management (link to 1.2.1.1 and 1.2.2.1)</p> <p>2.1.1.2. Evaluate social, economic and environmental viability of community based farming of sea cucumbers and seaweeds for sale as a cash crop</p> <p>2.1.1.3. Build capacity at the local level to ensure fish produced meets minimum food safety standards (link to 1.2.2.5.)</p> <p>2.1.1.4. Promote the consumption</p>	<p>2.1.1.5. Strengthen implementation of community-based ecosystem approaches to coastal fisheries management to achieve national coverage</p> <p>2.1.1.6. Implement the Port State Measures Agreement</p> <p>2.1.1.7. Evaluate social, economic and environmental viability of community based farming of sea cucumbers and seaweeds for sale as a cash crop (link to 1.2.2.3)</p> <p>2.1.1.8. Ensure fish consumption is part of national food security and nutrition plan (link to 1.1.2.4)</p>	<p>2.1.1.9. Provide support to achieve implementation of community-based ecosystem approach to coastal fisheries management that reaches all coastal communities</p> <p>2.1.1.10. Evaluate the potential for development of more efficient and equitable market chains for internationally traded farmed aquatic products, especially sea cucumbers and marine macroalgae.</p> <p>2.1.1.11. Ensure regional standards for food safety and quality include fisheries products (link to 1.1.3.3)</p>	<p>2.1.1.12. Provide coordinated support to build capacities for sustainable management and use of oceans and seas and their resources</p> <p>2.1.1.13. Provide support to the implementation of the Port State Measures Agreement</p> <p>2.1.1.14. Provide support to the implementation of the Guidelines for Small-Scale Fisheries</p>

	of fish and the utilization of fish byproducts for direct consumption rather than discarding			
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Component 2.2: Sustainable management and use of freshwater resources for food security and nutrition

76. SIDS also face numerous challenges with respect to freshwater resources, including pollution, the overexploitation of surface, ground and coastal waters, saline intrusion, drought and water scarcity, soil erosion, water and wastewater treatment and the lack of access to sanitation and hygiene. Furthermore, changes in rainfall patterns related to climate change have regionally varying and potentially significant impacts on water supply.
77. Lack of access to safe, clean water for drinking and food preparation is a major cause of water-borne illnesses, including diarrhoeal diseases, in some SIDS. Diarrhoeal diseases caused by unclean water, poor hygiene and sanitation have a major impact on nutritional status and can lead to death, particularly among young children and other vulnerable population groups.
78. Priorities identified in the *SAMOA Pathway* include: the development of institutional and human capacities for the effective, inclusive and sustainable implementation of the integrated management of water resources and related ecosystems; the provision of appropriate facilities and infrastructure for safe drinking water, sanitation, hygiene and waste management systems need support; expansion of wastewater treatment, recycling and reuse in the context of the sustainable and efficient use of water resources; and improvement of water-use efficiency (including, for example, the development of aquaponics) and the elimination of over-extraction, especially of groundwater.
79. There may be some potential for inland fisheries and freshwater aquaculture to contribute to improved food security in a small minority of SIDS, particularly those with large interiors (e.g. Papua New Guinea).

Indicative actions: Sustainable management and use of freshwater resources for food security and nutrition

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
2.2.1. Freshwater resources are sustainably managed and used for food security and	2.2.1.1. Support communities to take ownership of water planning and management at relevant levels,	2.2.1.4. Improve access to environmentally sound and energy efficient technologies for the catchment, production,	2.2.1.10. Strengthen regional cooperation to build capacities for management of freshwater	2.2.1.13. Strengthen international cooperation to build capacities and mobilize resources

nutrition	<p>including participatory mechanisms for the sustainable management of ecosystems and landscapes that are key to ensure the availability, quality and stability of water for food security and nutrition (with strong governance and accountability frameworks and mechanisms, possibly through the establishment of water users association (link to 1.2.2.1))</p> <p>2.2.1.2. Strengthen the capacity of households and local organizations to adopt water-saving practices and technologies for innovative water storage and distribution, efficiency in multiple water uses and disposal of wastewater that is appropriate for the environmental, social and cultural contexts (link to 1.2.2.1)</p> <p>2.2.1.3. Pilot and assess school feeding programmes built around pond aquaculture (link to 1.2.2.3)</p>	<p>conservation and delivery of freshwater, including rainwater catchment, water treatment systems and desalination and the trialling and development of aquaponics (link to 1.2.2.3).</p> <p>2.2.1.5. Investigate the viability of integrating aquaculture into agricultural landscapes, such as fish into rice field systems, or the development of multi-purpose farm ponds (link to 1.2.2.3)</p> <p>2.2.1.6. Explore feasibility and effectiveness of targeted incentives and disincentives to ensure quality of freshwater resources is preserved, particularly for drinking water (link to 1.2.2.3)</p> <p>2.2.1.7. Develop integrated national water resource management strategy, and incorporate food security and nutrition concerns (link to 1.1.5.3).</p> <p>2.2.1.8. Review national policies related to trade, rural development, and industrialization to ensure that they promote water for food security and nutrition and eliminate practices that disadvantage the vulnerable and marginalized (link to 1.1.5.3).</p>	<p>resources</p> <p>2.2.1.11. Strengthen regional research and knowledge exchange relating to water for food security and nutrition</p> <p>2.2.1.12. Assess viability of enterprise oriented aquaculture and the results to secure inward business investment</p>	<p>for water and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies.</p> <p>2.2.1.14. Strengthen international research and development cooperation to investigate issues relating to water for food security and nutrition in SIDS</p>
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		2.2.1.9. Design and implement agricultural practices (agronomic practices, agro-ecological innovations, seeds, livestock breeds, diversification) and landscape management which increase resilience of agricultural systems to water stress.		
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Component 2.3: Sustainable management and use of terrestrial resources for food security and nutrition

80. Developing production infrastructures and enhancing the nutrition-sensitivity of agricultural systems using sustainable food production and natural resource management principles is a key priority for promoting food security and income generation in SIDS.
81. Relevant multilateral commitments and targets include the UN Framework Convention on Climate Change, as well as the Convention on Biological Diversity's (CBD's) 2011-2020 Strategic Plan and associated Aichi Biodiversity Targets (notably 4, 13, and 14), and Programme of Work on Island Biodiversity and Biodiversity for Food and Nutrition, and the Non-Legally Binding Instrument on All Types of Forests.
82. Enhanced investment and strengthened cooperation is needed to stimulate and support increased production of fruits and vegetables, nuts, seeds and legumes, as well as appropriate production of animal-source products, in SIDS. Most SIDS can grow a wide variety of fruits and vegetables, some of which have been found to have superior nutrient content when compared to mainstreamed cultivars.^{lii} These nutrition-sensitive agricultural interventions need to be linked to strategies to ensure access to and affordability of these more nutritious foods on domestic markets through adoption of nutrition-sensitive value chains approach for prioritizing interventions (linked to Component 2.4 – Inclusive and efficient nutrition sensitive value chains).
83. The need for land for agriculture, food and water security and economic and social development must be balanced with the need for ecosystem conservation and biodiversity preservation. SIDS are renowned for their species diversity and endemism. However, the biological diversity in SIDS is among the most threatened in the world. In light of their capacity constraints, and the unique and fragile biological diversity (both terrestrial and marine) of SIDS, greater international cooperation and support is needed for biodiversity conservation. Smaller SIDS in particular face disproportionate responsibility for conserving these biological resources.

^{lii} Banana cultivars traditionally grown and eaten in the Federated States of Micronesia, for example (including *Karat* and *Uht en Yap*) contain significantly higher levels of provitamin A carotenoids than *Cavendish* bananas (275 times higher in the case of *Uht en Yap*). *Cavendish* is by far the most commonly grown and traded banana cultivar globally, accounting for 41% of global production, and is a poor source of provitamin A carotenoids.

84. Islands forests provide significant livelihood opportunities for people in rural areas. As these resources are mostly concentrated on land with limited suitability for agriculture, agroforestry and forest-based income is often the only income for persons living in or close to the forest. Action is needed to ensure that the most efficient and effective management practices are identified and disseminated in order to slow, halt, and reverse deforestation and forest degradation, including by promoting trade in legally and sustainably harvested forest products; and to achieve appropriate and effective reforestation, restoration and afforestation.
85. Coastal forests, including mangroves, fulfill important functions in terms of providing wood and non-wood forest products, coastal protection, mitigation of pollution, conservation of biological diversity and provision of habitat, spawning grounds and nutrients for a variety of fish and shellfish. In addition, communities depend upon mangroves for their existence through hunting, fishing, craft, tour guiding and other nature-based activities. In the coastal zones, various non-wood forest products (NWFPs) are used for subsistence purposes and some are also sold commercially. More effective conservation and management of these resources is urgently needed.

Indicative actions: Sustainable management and use of terrestrial resources for food security and nutrition

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
2.3.1. Terrestrial resources are sustainably managed and used for food security and nutrition	2.3.1.1. Foster role of local organizations in improving food security and nutrition through sustainable resource management approaches that value local knowledge and practices (link to 1.2.2.1 and 3.1.1.2)	2.3.1.2. Promote the diversification of crops, including underutilized traditional crops, more production of fruits and vegetables, nuts and seeds and legumes, and appropriate production of animal-source products, applying sustainable food production and natural resource	2.3.1.4. Support conservation and utilization of traditional crop varieties stored in plant genetic resource facilities (link to 1.2.2.9).	2.3.1.5. Facilitate knowledge generation, dissemination, and sharing and provide technical assistance on integrated approaches to promoting food security and nutrition, and sustainable land management, including forest and tree-based systems (link to 1.3.1.20)

		<p>management practices. Link these to strategies to ensure access to and affordability of these more nutritious foods on domestic markets (link to 1.3.1.5)</p> <p>2.3.1.3. Explore opportunities for cooperation and shared agendas between health and agricultural sectors for production of crops that are 'high value' from both a nutritional and economic perspective (e.g. fruits, vegetables, organic traditional crops)</p>		
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Component 2.4: Inclusive and efficient nutrition-sensitive value chains

86. Value chains include all actors and activities from food production to consumption—"from farm to fork". While value chain interventions have historically focused on increasing income for small-scale producers/fishers and other stakeholders along the chain, value chains can also play an important role in determining the availability, affordability, safety, quality, and acceptability of nutritious foods. Nutrition-sensitive interventions in value chains can range from improving inputs for nutritious foods and supporting the use of improved processing and storage practices in order to enhance the competitiveness of target value chains, to promoting and supporting market access, and encouraging consumption of safe and nutritious foods, as well as various measures along the value chain aimed at discouraging the wide availability and consumption of unhealthy foods and beverages.
87. Infrastructural development (including roads, port and storage facilities, and telecommunications), addressing transport barriers, and strengthening routes to markets (both domestic and international) are key priorities for SIDS, which face market access and trade challenges due to their geographical remoteness as well as small economies, populations and area. Inadequate port and storage facilities, lack of capacity in meeting various international standards, and other non-tariff barriers also undermine the

competitiveness of SIDS in global markets. Even within SIDS, transporting fish to urban centres can be prohibitively expensive. There is therefore an urgent need to explore low cost and sustainable transport options, particularly maritime transport, as well as inter-island domestic transport services. In addition to the benefits for food security and nutrition, better planning for and investment in infrastructural development will have wide-ranging benefits for SIDS economies.

88. The *SAMOA Pathway* recognized the importance of the efficient movement of people and goods in fostering full engagement in local, regional and global markets and the potential for sustainable transportation to improve social equity, health, the resilience of cities, urban-rural linkages and the productivity of rural areas of SIDS.
89. Efficient markets and value chains will also reduce food wastage and post-harvest losses. Reducing food loss/wastage (FLW) along supply chains by improving harvesting, storage, processing and distribution practices across all producers, as well as through consumer education across all segments of the population, represents a major opportunity to improve food security and livelihoods. Food losses impact food security and nutrition by reducing the amount of food available, raising food prices, and negatively impacting on food access for those who face FLW-related economic and income losses. They also have a longer-term effect on food security through the unsustainable use of natural resources on which the future production of food depends. Identifying the causes of food losses along food chains and taking effective steps to address them can make a significant contribution to food security and nutrition. Reducing such losses, could increase food supplies, reduce food prices and reduce pressure on land and other scarce resources. In SIDS, food losses, and food quality losses, along local food supply chains (from sea/farm to market and to fork) are the primary concern (as opposed to wastage at the consumption level).
90. Food safety is inextricably linked to nutrition, particularly in places where food supplies are insecure. Food contamination with chemical, microbiological, zoonotic or other hazards can occur at any stage of the food supply chain, from on-farm to household preparation. In SIDS, key food safety concerns include consumption of contaminated seafood/shellfish (e.g. Hepatitis A virus, foodborne parasites, fish and shellfish toxins) and grains (aflatoxin), as well as gastrointestinal illnesses associated with drinking contaminated water and poor sanitation. In the Pacific, aflatoxin (a toxin produced by mould that grows on grain that has been stored inappropriately), rather than diarrhoeal diseases, is estimated to be the leading cause of foodborne disease deaths. Aflatoxin is linked to liver cancer, one of the most deadly forms of cancer.
91. Gastro-intestinal illnesses arising from consumption of unsafe food or water can negatively impact on nutritional status by reducing nutrient absorption and exacerbating nutrient deficiencies. Morbidity associated with foodborne illness can affect school attendance, educational attainment, and ability to participate in income-earning activities. Food

contamination also imposes significant social and economic costs through its effects on access to markets and tourism earnings.

92. Vulnerable population groups from a nutrition perspective - infants, young children, pregnant and lactating women, older adults, and people with compromised immune systems – are particularly susceptible to foodborne illness. Foodborne infection in these population groups is also more likely to lead to serious illness and death. These population groups are also particularly susceptible to gastro-intestinal illnesses associated with contaminated water and poor sanitation, which is a major public health challenge in some SIDS (and linked to Component 2.2 – Sustainable Management and Use of Freshwater Resources).
93. Adoption and compliance with sanitary and phytosanitary measures, including best practices in the prevention and management of pest and diseases and the exclusion of invasive species, is essential for SIDS and contributes to strengthened linkages and the creation of synergies between tourism and agriculture. In turn, this ensures that tourism growth is sustainable and that the benefits of tourism are shared with rural communities and contributes to increased economic and social development.

Indicative actions: Inclusive and efficient nutrition-sensitive value chains

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
2.4.1. Increased access to and participation of smallholders and small-scale enterprises in nutrition-sensitive value chains	<p>2.4.1.1. Facilitate and support engagement of smallholder farmers, particularly women, in nutrition-sensitive value chains, including through financial literacy education, technical advice, value chain education, access to finance mechanisms; and childcare facilities.</p> <p>2.4.1.2. Empower smallholder organizations to facilitate market linkages, including mechanisms for the collection/aggregation of locally produced product</p>	2.4.1.5. Direct public investments towards, and enhance institutional support and other incentives for, value chains that increase availability of nutritious, locally-produced foods, including staple crops, fruits, vegetables, animal and fish products and seafood, while enhancing returns for producers, particularly smallholders, and that are job-intensive and environmentally sustainable.	<p>2.4.1.11. Establish regional market facilities and regional market information systems.</p> <p>2.4.1.12. Promote regional cooperation and trade in agricultural products, between the</p>	2.4.1.14. Enhance cooperation between national and regional bodies, and international development partners, in harmonizing standards, and designing and enforcing effective quarantine

	<p>for sale to processors, and ensure quality and consistency of supply (link to 3.1.1.2)</p> <p>2.4.1.3. Increase access of farmers/fishers and enterprises to agricultural and climate financing (including risk sharing and insurance services, and low-interest loans) and improved technologies (including seeds), particularly smallholder women (link to 3.1.1.4).</p> <p>2.4.1.4. Support use of traditional food preservation techniques in rural areas, and value-adding for local products via agri-processing.</p>	<p>2.4.1.6. Explore innovative approaches to integrate smallholder farmers into nutrition-sensitive value chains, including commercially-oriented cooperative business models (as has been successfully done in the Caribbean)</p> <p>2.4.1.7. Encourage creative business models, to enable low interest financing and risk sharing.</p> <p>2.4.1.8. Identify and enhance opportunities for nutrition-sensitive institutional food procurement, including school feeding programs, to provide reliable markets for small-scale producers.</p> <p>2.4.1.9. Promote stronger linkages between small-scale producers and the tourism, hospitality, and culinary sectors and stimulate demand for local products, utilizing emerging regional and international alliances and platforms in this area (e.g. Chefs for Development)^{liii}</p> <p>2.4.1.10. Evaluate selected agriculture value chains and map opportunities for additional marketing and distribution of current and new food products</p>	<p>islands and with neighbouring continental states.</p> <p>2.4.1.13. Support efforts to promote stronger linkages between small-scale producers and the tourism, hospitality, and culinary sectors and stimulate demand for local products, utilizing emerging regional and international alliances and platforms in this area (e.g. Chefs for Development)^{liv}</p>	<p>systems.</p> <p>2.4.1.15. Investigate the potential to scale up school feeding initiatives as a means to promote and ensure a sustainable market for locally-produced fresh foods and to promote healthy eating habits among children.</p>
2.4.2. Increased productivity and efficiency of inclusive, nutrition-		2.4.2.1. Promote use of new, energy-efficient technologies in post-harvest processes.		

^{liii} <http://chefs4dev.org>

^{liv} <http://chefs4dev.org>

sensitive value chains		<p>2.4.2.2. Facilitate adoption of scale-appropriate food processing technologies.</p> <p>2.4.2.3. Explore innovative financing mechanisms to improve storage, preservation, transport and distribution technologies and infrastructure to reduce food and nutrient losses and waste.</p> <p>2.4.2.4. Explore low cost and sustainable transport options for food security and domestic economies, as well as access to export markets</p>		
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Component 2.5. Climate adaptation and resilience for food security and nutrition

94. Building food systems that are resilient, especially to environmental degradation, climate change, natural hazards, and economic volatility, is an urgent priority in SIDS. Sea-level rise and other adverse impacts of climate change represent the gravest of threats to the survival and viability of many islands and atolls^{lv}, including, for some, through the loss of territory. The adverse impacts of climate change compound existing challenges in SIDS, including biodiversity loss and food insecurity, and have placed additional burdens on their national budgets and their efforts to achieve sustainable development goals.
95. Disasters and food insecurity are directly interconnected. Floods, droughts, hurricanes, tsunamis and other hazards destroy agricultural, livestock and fishing infrastructure, assets, inputs and production capacity. They interrupt market access, trade and food supply, reduce income, deplete savings and erode livelihoods. SIDS are particularly challenged by disaster risks due to their size, location and characteristics of their economies. In some countries, average annual disaster-related losses are equivalent to over 100 per cent of the amount that those countries are able or willing to spend on education, health, and social protection.^{lvi} Fiji's agricultural sector alone incurred an estimated \$542 million in damages and losses as a result of tropical cyclone Winston in February 2016.^{lvii}
96. Since most SIDS are net food importers, SIDS are also particularly vulnerable to higher international food prices and excessive price and supply volatility.

^{lv} Atolls have particular circumstances and are some of the most vulnerable environments in the Pacific. There are about 210,000 people living on atolls in the Pacific (across Kiribati, Marshall Islands, Tuvalu, Federated States of Micronesia, Palau, Papua New Guinea and Solomon Islands). Three of the countries consist of only atolls. The population of atolls is expected to increase to about 350,000 by 2050. This population dynamic linked to the sea-level rise and lack of land and water resources for agriculture will push these people into poverty.

^{lvi} Global Assessment Report on Disaster Risk Reduction 2015

^{lvii} Fiji Post-Disaster Needs Assessment – May 2016, Government of Fiji.

97. Signatories to the *Paris Climate Agreement* committed to strengthening the global response to the threat of climate change, in the context of sustainable development and efforts to eradicate poverty, including by “Increasing the ability to adapt to the adverse impacts of climate change and foster climate resilience and low greenhouse gas emissions development, in a manner that does not threaten food production”.^{lviii} The Paris Agreement Article 11 articulates the need to enhance the capacity and ability of developing country parties, in particular countries that are particularly vulnerable to the adverse effects of climate change, such as SIDS to take effective climate action. The actions should facilitate technology development, dissemination, access to climate finance, relevant aspects of education, training and public awareness, and the transparent, timely and accurate communication of information.
98. The *Sendai Framework for Disaster Risk Reduction 2015-2030* reaffirms that it is critical to build resilience in the area of disaster risk reduction in SIDS and provide particular support through the implementation of the *SAMOA Pathway*. Achieving the *Sendai Framework* global targets in SIDS, including substantially reducing the number of affected people, reducing direct disaster economic loss, substantially reducing damage to critical infrastructure, and substantially increasing multi-hazard early warning systems, can contribute significantly to safeguarding food security and protecting agricultural investments from natural hazards and climate change. The *Sendai Framework* further highlights the need to integrate within disaster risk management considerations within sectorial plans, programmes and policies of all development sectors.
99. Achieving Sendai Framework global target (d) to substantially reduce disaster damage to critical infrastructure is vital to protect infrastructure that can provide uninterrupted access to domestic, regional and international markets, including building back better following a disaster and building better from the start to withstand natural hazards through proper design and construction.
100. Given the level of overlap between the two areas and the potential to maximise efficient use of resources, integrating approaches to disaster risk management and adaptation to climate change are recommended wherever possible. The new *Framework for Resilient Development in the Pacific: An Integrated Approach to Address Climate Change and Disaster Risk Management (FRDP) (2017-2030)*, endorsed by Leaders during the 47th Pacific Island Forum meeting in the Federated States of Micronesia, is the world’s first integrated regional framework to build resilience to climate change and disasters.^{lix}
101. A twin-track approach combining short- and long-term risk management in the broad context of sustainable development is essential in SIDS. The future will be different and mechanisms are needed to take account of this in long-term planning for food security, nutrition, and development in SIDS. Climate change is not only going to impact on food

^{lviii} FCCC/CP/2015/L.9/Rev.1, Article 2.1(b)

^{lix} <http://www.forumsec.org/resources/uploads/embeds/file/Annex%201%20-%20Framework%20for%20Resilient%20Development%20in%20the%20Pacific.pdf>

security and nutrition in so many ways, but it is going to impact the capacities of communities (largely the marginalised and vulnerable) to respond to climate change. Better planning increases the resilience of food systems, livelihoods, and communities to climate change, disasters and shocks. It can also have positive externalities for the economy more broadly, for example through enhanced infrastructure maintenance and development.

102. The resilience of many staple crops in SIDS to natural disaster (principally cyclones and drought) provides added impetus for investing in domestic food supply capacity in order to reduce vulnerability to climate change. The overall impact of climate change on Pacific staple food crop production is expected to be generally low over the next few decades and far less than the impact of global warming on supply of imported grain crops from other regions.^{ix} There is a critical need to identify and disseminate those varieties of local staples best adapted to the effects of climate change; but more generally to facilitate improved efficiency of production and marketing of local staples in order to reduce reliance on imported cereals. Enhancing conservation and use of agro-biodiversity will also be an important means of improving resilience to climate change in SIDS.
103. It is important to integrate risk in planning and investment for food system development. Accurate and consistent information regarding loss and damages to the sector, monitoring and early warning based on a multi-hazard approach, as well as the use of probabilistic models contribute to avoid the accumulation of new risks by facilitating tools for risk informed decision making.
104. The likelihood of both sudden and slow-onset disasters dictates that approaches to natural resource management continue to evolve as natural and management sciences improve understating of the complex systems that farmers, fishers and communities are called on to manage in SIDS.
105. In Pacific SIDS and in Indian Ocean Islands, the introduction of new land and marine tenure systems' development policies, laws, and regulation – mainly to facilitate economic activities - can reduce access to land for farming and access to traditional fishing grounds. More often food security implications of these are not high in the issues considered.”^{lxi}

Indicative actions: Climate adaptation and resilience for food security and nutrition

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level

^{ix} Bell J and Taylor M. 2015. Building climate-resilient food systems for Pacific Islands. Penang, Malaysia: WorldFish. Program Report: 2015-15.

^{lxi} FAO, 2008. Climate Change and Food Security in Pacific Island Countries.

<p>2.5.1. Increased resilience of food systems and communities to climate change, disasters and shocks</p>	<p>2.5.1.1. Strengthen community-based mechanisms for climate change adaptation and disaster risk management, and support mainstreaming of food security and nutrition considerations into these mechanisms.</p> <p>2.5.1.2. Support community-led campaigns to raise awareness about how individual dietary and lifestyle choices affect the environment and climate (link to 1.3.1.4 and 3.1.1.5)</p>	<p>2.5.1.3. Include explicit food security and nutrition objectives in national disaster preparedness and management plans, including contingency and emergency response plans, and in national adaptation and resilience-building programmes of action, taking into account specific national and regional vulnerabilities and economic, environmental and social situations.</p> <p>2.5.1.4. Develop strategies to restore affected and vulnerable communities that depend on farming, livestock, fisheries and forestry for their livelihoods in event of disasters.</p> <p>2.5.1.5. Develop affordable climate and disaster insurance, in particular for climate risk management and develop tools to access climate insurance by farmers.</p> <p>2.5.1.6. Strengthen emergency response systems for food borne disease outbreaks, livestock disease and plant disease threats.</p>	<p>2.5.1.7. Include explicit food security and nutrition objectives in regional mechanisms for the management of food crises and disasters caused by natural hazards.</p>	<p>2.5.1.8. Support integrated approaches to improving food security and nutrition, conservation and use of biodiversity, and climate change adaptation and resilience.</p> <p>2.5.1.9. Provide coordinated capacity-building support for the integration of critical adaptation needs, including food security, nutrition water, sanitation, coastal protection, and protection of critical coastal infrastructures, into national development agendas.</p>
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Objective 3. Empowered people and communities for food security and nutrition

106. Food insecurity, hunger, and malnutrition are inextricably linked to poverty and inequality. Economic growth is vital to create the opportunities for people in poverty to get out of it. However, pro-poor growth and development policies and strategies are needed to increase the ability of poor people to take advantage of, and benefit from, these opportunities. This includes measures that target and address key sources of vulnerability and deprivation, and strengthen adaptive capabilities, in the areas of education, health, training, employment, and social protection. Targeted interventions and programmes are also needed to address food insecurity and malnutrition, and their determinants, in vulnerable

groups, particularly women, adolescent girls, infants and young children, including by supporting their rights and access to natural resources; by enhancing their access to land, a range of services, innovative technologies and markets; by increasing their options for decent employment and income generation; and by supporting their participation in policy and governance processes, including social protection.

107. It is essential that interventions, programmes, and services aimed at social and economic empowerment of communities, and at addressing food insecurity and malnutrition in target groups, are underpinned by enabling political, institutional and social environments. This includes the formulation and implementation of pro-poor and inclusive policies, and the mainstreaming of poverty reduction strategies into all national policies and planning processes, as well as regulatory measures (including those to promote gender equality, breastfeeding, such as maternity leave, and facilities and time for breastfeeding in workplaces) and social marketing strategies to promote and support healthy diets and nutrition throughout the life course.

Component 3.1. Social and economic empowerment

108. Historically, SIDS communities have been rooted in subsistence family farms and small-scale fisheries. Small-scale producers (encompassing agriculture, fish farming, and capture fisheries) are still the most common agricultural enterprise in SIDS. In the *SAMOA Pathway*, the international community pledged to support SIDS efforts to increase rural income and jobs, with a focus on the empowerment of small-scale producers. This calls for an inter-sectoral, pro-poor rural development approach to replace the classical paradigm of “business-as-usual” to agriculture development^{lxii}, involving enhanced investment in the most vulnerable sectors as well as the empowerment of producer organizations to ensure that they have the tools they need not only to overcome hunger and malnutrition, but to enhance their resources and capabilities. Small-holders themselves are the major source of investment in agriculture, but policies and programmes, including access to market, credit and insurance, often discriminate against them.
109. Achieving sustainable and inclusive development will depend on the empowerment of communities to self-organize, and to engage in local governance and collective action, with community-based organizations providing key entry points for action, including through technological innovation, market access, and greater bargaining power. Farmers/fishers’ organizations and cooperatives, for example, can play a critical role in ensuring quality and consistency of supply from groups of small holders and facilitating market linkages. Enhanced cooperation and support is needed to strengthen human and institutional capacities in these and other local organizations.
110. Empowerment is also about options. Providing options for primary producers, for example, can be a powerful way of improving livelihoods and food security. This can range from greater access to a variety of seeds and various credit schemes to improving opportunities

^{lxii} FAO, IFAD, WFP. 2015. *Achieving Zero Hunger: the critical role of investments in social protection and agriculture*. Rome.

for livelihood diversification into off-farm and non-agricultural activities. Growth of non-farm activities is often driven by agricultural growth and can stimulate local employment creation.

111. Gender equality, women's empowerment, and the full realization of human rights for women and girls have a transformative and multiplier effect on sustainable development and are a driver of economic growth in SIDS. Gender equality in the agricultural sector is imperative. At a minimum, agricultural policies, services and programmes should "do no harm" to women or gender dynamics, including by ensuring men and women equal access to extension and rural advisory loans and other financial services, education, relevant knowledge, and pro-poor policies and strategies. Advocacy for the protection of breastfeeding, adequate rest for pregnant and lactating women, and perinatal care is also vital. Encouraging cooperative membership is another strategy to enhance women's decision-making power and management of household resources. The gender implications of all agricultural programmes and recommended (agricultural) activities, including impacts on mother's/caregiver's time allocation and energy expenditure, should be considered.
112. Efforts to empower and engage youth in SIDS, including improving employment and livelihood opportunities, as well as targeted strategies to raise awareness and incentivise behaviour change are also vital.

Indicative actions: Social and economic empowerment

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
3.1.1. Improved access of rural and urban poor to knowledge, resources, services, markets, and decent employment and income opportunities, particularly among youth and women	<p>3.1.1.1. Provide and promote diverse income and livelihood opportunities for rural communities.</p> <p>3.1.1.2. Enhance support for farmer/fisher organizations and other local organizations (link to 2.4.1.2).</p> <p>3.1.1.3. Promote energy-saving and less labour-intensive tools to enable small-scale farmers/fishers to conserve time and energy to focus on their own and their families' optimal health and care practices.</p> <p>3.1.1.4. Address asset and organizational deficiencies to ensure smallholder farmers/fishers have a greater chance to access</p>	<p>3.1.1.7. Enhance coverage and delivery of pro-poor rural development and poverty reduction strategies.</p> <p>3.1.1.8. Strengthen regional networks of small-scale farmer/fisher organisations for agricultural research, outreach and development.</p> <p>3.1.1.9. Increase public and private investment in building and maintaining appropriate infrastructure, including ports,</p>	<p>3.1.1.10. Conduct collaborative, cross-sectoral research on the pathways between food security and nutrition, and social and economic empowerment, and document and share experience and best practices</p>	<p>3.1.1.11. Provide support for infrastructure development that maximizes pro-poor development and access to services and markets for nutrition-sensitive smallholder value chains.</p> <p>3.1.1.12. Support the development of regional/sub-regional evidence bases for maximizing</p>

	<p>resources, and support improved livelihoods, resource sharing, access to water and fisheries, land tenure, indigenous people's rights, and capital development (link to 2.4.1.3).</p> <p>3.1.1.5. Build capacities for community-led nutrition action, including awareness-raising and nutrition education activities for behavioral and social change (link to 1.3.1.4 and 2.5.1.2)</p> <p>3.1.1.6. Build capacity and support role of community/traditional leaders and other actors as agents of social and behavioral change, including demand generation for services; raising awareness about and modeling healthy diets and lifestyles; promotion of shared responsibilities between men and women in the household; and strengthening community accountability for maternal and child malnutrition.</p>	<p>roads, transportation, electricity and power generation and information and communications technology infrastructure, for nutrition-sensitive value chains (link to 2.4.1)</p>		<p>social and economic empowerment, and food security and nutrition in SIDS.</p>
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Component 3.2. Nutrition-sensitive social protection programmes

113. Social protection is recognized as an effective measure to reduce poverty and food insecurity, and foster inclusive rural development. The expansion of social protection systems to all, particularly the poorest and most vulnerable, is one of the proposed targets of the SDGs. With their vulnerability to climate change, natural hazards and shocks, a twin-track approach to social protection is critical in SIDS, with essential assistance provided in times of crisis/shocks through social protection transfers, combined with long-term support for livelihoods through targeted pro-poor investments in productive activities.
114. Evidence clearly shows the positive impacts of social protection, especially on poor and vulnerable rural households. However, the positive effects of pro-poor rural agriculture development and social protection policies on nutrition are not automatic. The aim, therefore, must be to design and implement them in a nutrition-sensitive manner.
115. Effective nutrition-sensitive social protection programmes target nutritionally vulnerable population groups (particularly the critical 'first 1,000 days' window of opportunity),

improve income, foster linkages between essential services, include education strategies to raise awareness and influence behaviours, include strategies to reduce vulnerability to external shocks, and improve diets through better access to food which conforms with the beliefs, culture, traditions, dietary habits and preferences of individuals, and which is consistent with recommendations for healthy diets outlined in regional/national food-based dietary guidelines. Effective governance of all social protection programmes, including transparency, accountability, and well-designed monitoring and evaluation components, is essential.

116. School food and nutrition programmes – encompassing the procurement and provision of more nutritious and locally grown foods through school feeding programmes, as well as education and skill-building programmes - are well-recognised social protection programmes and serve as an excellent example of how public policy outcomes can be amplified through a more inclusive approach to governance and can serve as a national development strategy. Schools provide excellent entry points for reaching children as well as their families and communities, and are a setting in which multiple sectors can join forces in improving nutrition.
117. There is a growing evidence base demonstrating that linking school feeding to agricultural development works.^{lxiii} These approaches are also potentially effective ways of diversifying school meals and nutrition-sensitive public food procurement, with significant potential to be extended beyond schools to other institutional procurement programmes (including hospitals and prisons). They require considerable political will and leadership and commitment to the development of better social and pro-poor policies.

Indicative actions: Nutrition-sensitive social protection programmes

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
3.2.1. Improved access to, and effectiveness of, nutrition-sensitive social protection programmes	3.2.1.1. Foster and support community-led initiatives to enhance food security and nutrition, including backyard gardening and school feeding programmes	3.2.1.2. Integrate food security and nutrition objectives and actions into the design of social protection programmes, and use food security and nutrition indicators to monitor and assess effectiveness. 3.2.1.3. Strengthen the design of social protection systems and interventions to make them more flexible and responsive to shocks caused by natural hazards, price shocks, and other key stresses in SIDS, in a way that governments can anticipate, prevent, and plan for	3.2.1.6. Document and share experience and best practices relating to the design, implementation, monitoring and evaluation of nutrition-sensitive social protection programmes, including school food and nutrition	3.2.1.7. Enhance and better coordinate support for the design, delivery, expansion, and monitoring and evaluation of nutrition-sensitive social protection programmes, including school food and nutrition

^{lxiii} For example, World Food Programme's (WFP's) Home Grown School Feeding and P4P programmes, and Brazil's national school feeding programme

		<p>crises through adaptation of the eligibility requirements, transfer size and delivery mechanisms of programmes, as well as through establishment of contingent financing structures.</p> <p>3.2.1.4. Increase investment in, and support for, school food and nutrition programmes, and other public procurement programmes that are linked to local smallholder producers (<i>link to 2.4.1.8</i>)</p> <p>3.2.1.5. Organize south-south visits to facilitate sharing of knowledge, lessons and best practices relating to nutrition-sensitive public procurement programmes.^{lxiv}</p>	programmes.	programs linked to smallholders and pro-poor agricultural development
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Component 3.3. Targeted community-based interventions and services to prevent and treat malnutrition in all its forms

118. Member States of the WHO have committed to implementing a range of cost-effective, evidence-based, community-level interventions for preventing and treating malnutrition through the WHO Comprehensive Implementation Plan on Maternal, Infant and Young Child Nutrition, WHO Global Action Plan for the Prevention and Control of NCDs, WHO/UNICEF Global Strategy for Infant and Young Child Feeding, WHO International Code of Marketing of Breastmilk Substitutes and subsequent relevant WHA Resolutions, and WHO Set of Recommendations on the Marketing of Food and Non-Alcoholic Beverages to Children; the Report of the Commission on Ending Childhood Obesity, and regional commitments such as the WPRO Action Plan to Reduce the Double Burden of Malnutrition.
119. This includes strategies to protect, promote and support optimal breastfeeding and complementary feeding practices; to strengthen and enforce legal frameworks on marketing of foods and beverages to children, as well as standards for foods and drinks provided and sold in schools; and to strengthen the delivery of nutrition services in multiple settings.
120. Social and behaviour change is critical for improving the nutrition status of key groups. The aim is to enhance coverage of service delivery through multiple platforms to promote optimal nutrition practices among individuals, families and communities and to create

^{lxiv} e.g. the Purchase from Africans, for Africa (PAA Africa) project jointly undertaken by FAO, WFP, and the governments of Brazil, UK, Ethiopia, Malawi, Mozambique, Niger, and Senegal to link school feeding programs to smallholder farmers and agricultural development

demand for and utilization of services for the prevention and timely treatment of malnutrition in all its forms. Understanding drivers and motivators of social change is also essential to facilitate a shift in social norms, including in relation to infant feeding and maternal nutrition, healthy diets, and perceptions of healthy weight.

121. A key dimension of community-based nutrition action is enabling households to maximise food security and nutrition with existing household resources, while also striving to increase such resources. Women's empowerment and nutrition education of men and women are essential to enhance the capacities of families and communities to better feed themselves.

Indicative actions: Targeted community-based interventions and services to prevent and treat all forms of malnutrition

OUTCOMES	INDICATIVE ACTIONS			
	Local level	National level	Regional level	Global level
3.3.1 Improved access to, demand for, and utilization of, targeted interventions and services to prevent and treat malnutrition in all its forms, particularly among children and women of reproductive age, adolescents, and youth	3.3.1.1. Support community-led education, skill-building, and behavior change initiatives to promote healthy eating and other behaviors, including safe hygiene and child-care practices, improved home food processing, storage and preservation techniques to retain nutritional value and food safety, and reduce seasonal food insecurity and post-harvest losses, breastfeeding and optimal complementary feeding, and the importance of diverse, balanced diets and physical activity (link to 1.3.1.1.)	3.3.1.2. Prioritise investment in implementing set of internationally-recognized, evidence-based, and cost-effective interventions to prevent and treat undernutrition and micronutrient deficiencies in children and women of reproductive age, including investment in monitoring and evaluation. ^{lxv} 3.3.1.3. Implement internationally-recognized policies and strategies to foster Baby Friendly Hospitals, promote educational training on how to breastfeed, and ban promotion of breastmilk substitutes at medical care facilities (unless breastfeeding is not possible). 3.3.1.4. Include specific agriculture-nutrition targeting criteria to ensure	3.3.1.7. Share experience and best practices relating to implementation of community-based food security and nutrition programmes. 3.3.1.8. Monitor implementation of the Baby Friendly Hospital Initiative. 3.3.1.9. Monitor diet quality shifts (<i>link to 1.3.1.16</i>)	3.3.1.10. Strengthen and enhance coordination of support for implementation, monitoring, and evaluation of interventions to prevent and treat malnutrition in target population groups, including children and women of reproductive age, adolescents and youth. 3.3.1.11. Support efforts to improve the evidence base on food-based approaches, including biofortification,

^{lxv} In particular, promoting and supporting optimal maternal nutrition, including counselling on diverse diets, optimal weight gain (neither too little nor not too much) during pregnancy, micronutrient supplementation and deworming; early initiation and exclusive breastfeeding up to six months where possible, continued breastfeeding to two years of age and beyond with appropriate complementary feeding, and optimal infant and young child feeding and care practices; enabling access to diverse and healthy diets; provision of safe food and drinking water and adequate sanitation facilities; promotion of good hygiene and sanitation practices; integrated management of acute undernutrition; counselling and management of obesity; micronutrient supplementation and food fortification.

		<p>that families with infants and young children, in particular women farmers, benefit from both agriculture and nutrition education programmes.^{lxvi}</p> <p>3.3.1.5. Integrate gender considerations in community-based food security and nutrition programmes and activities, including attention to impacts on mother's/caregiver's time allocation and energy expenditure, and promote shared responsibilities between men and women in the household.</p> <p>3.3.1.6. Develop and scale-up school and pre-school food and nutrition policies and programmes, including health promoting schools and school gardening programmes, linking school feeding programmes to local producers, micronutrient supplementation and deworming of school age children, mandatory policies on healthy foods and beverages provided or sold in and around schools, strengthening nutrition education, skill-building and physical activity in schools as part of the core curriculum.</p>		<p>to improving diet diversity and addressing micronutrient and protein deficiencies in SIDS.</p>
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^{lxvi} http://www.fao.org/fileadmin/user_upload/nutrition/docs/education/infant_feeding/Programme_Lessons.pdf

MONITORING AND EVALUATION

122. Monitoring and evaluation mechanisms will be developed as part of detailed implementation plans at the regional, national and local levels.
123. A dedicated mechanism to report back on progress in implementation of the action plan at the global level will be developed by the FAO, in collaboration with UN-DESA and UN-OHRLLS. It is envisaged that the FAO and UN-DESA will provide the necessary information to allow the Secretary-General to report to the General Assembly and to the Economic and Social Council on the progress achieved in the implementation of this Global Action Programme.
124. The mechanism, and the timeline for reporting, will be developed in alignment with the SDG monitoring framework. The GAP will fully adopt relevant SDG indicators to reduce reporting burden (See Appendix 2 for a draft results framework linking the anticipated outcomes of the GAP to SDG targets and indicators). It may also adopt additional indicators under other existing strategies/commitments where appropriate.
125. The GAP will be established for an initial phase of [ten] years (2017-2027), at which time it will be reviewed for eventual extension. At this time, the priorities and recommended actions may be revised, depending on evolving needs.

APPENDIX 1. DRAFT Theory of change for Global Action Programme on Food Security and Nutrition in SIDS



Appendix 2. DRAFT Results Framework – Linking indicative activities to SDG indicators and targets

Expected results	SDG Indicators	SDG Targets	Indicative Activities
OBJECTIVE 1. Enabling environment for food security and nutrition			
COMPONENT 1.1 Politics and governance			
OUTCOME 1.1.1: Enhanced political commitment to eradicate hunger, food insecurity, and malnutrition	<p>Prevalence of undernourishment (SDG 2.1.1)</p> <p>Prevalence of moderate or severe food insecurity in the population based on the Food Insecurity Experience Scale (FIES) (SDG 2.1.2)</p> <p>Prevalence of stunting among children under 5 years of age (SDG 2.2.1)</p> <p>Prevalence of malnutrition among children under 5 years of age, by type (wasting and overweight) (SDG 2.2.2)</p> <p>Mortality rate attributable to NCDs (SDG 3.4.1)</p>	<p>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 (SDG 2.1)</p> <p>By 2030, end all forms of malnutrition, including achieving, by 2025, the internationally agreed targets on stunting and wasting in children under 5 years of age, and address the nutritional needs of adolescent girls, pregnant and lactating women, and older persons (SDG 2.2)</p> <p>By 2030, reduce by one third premature mortality from NCDs through prevention and treatment (SDG 3.4)</p>	<p>Local level</p> <p>1.1.1.7. Strengthen advocacy and collective action to hold national governments to account in implementation of food security and nutrition commitments</p> <p>National level</p> <p>1.1.1.8. Set specific, measurable, achievable, relevant and time-bound (SMART) commitments for food security and nutrition</p> <p>Regional level</p> <p>1.1.1.9. Explore use of scorecard or other approach to track progress and hold governments to account in implementation of food security and nutrition commitments</p> <p>Global level</p> <p>1.1.1.4 Explore use of scorecard or other approach to track progress and hold governments to account in implementation of food security and nutrition commitments</p>
OUTCOME 1.1.2: Inclusive governance, coordination, and			<p>Local level</p> <p>1.1.2.1. Facilitate and support meaningful engagement of communities, particularly marginalized and at-risk groups, in multi-stakeholder coordination and decision-making</p>

accountability mechanisms for food security and nutrition in place at all levels			<p>platforms for food security and nutrition at all levels</p> <p>1.1.2.2. Integrate food security and nutrition priorities into community development plans and link to district and national cross-sectoral processes and strategies, drawing on experiences and lessons learnt in other SIDS (e.g. Tonga experience)</p> <p><u>National level</u></p> <p>1.1.2.3. Establish/strengthen multi-sectoral, multi-stakeholder, and multi-level governance and coordination platforms for developing and overseeing an integrated national approach to improving food security and nutrition, and strengthening horizontal and vertical coordination</p> <p>1.1.2.4. Develop comprehensive, multi-stakeholder national food security and nutrition plan and incorporate this into the national development strategy.^{lxvii}</p> <p>1.1.2.5. Allocate budget lines for nutrition strategies and plans</p> <p><u>Regional level</u></p> <p>1.1.2.6. Support development of national food security and nutrition plans and align relevant regional strategies and action plans</p> <p><u>Global level</u></p> <p>1.1.2.7. Provide coordinated support to strengthen capacities for collaborative multi-sectoral and multi-stakeholder food security and nutrition governance at national and sub-national levels</p>
OUTCOME 1.1.3: Legislative and institutional	Proportion of countries where the legal framework (including customary law) guarantees women's equal rights to land	Undertake reforms to give women equal rights to economic resources, as well	<p><u>Local level</u></p> <p>1.1.3.1. Strengthen local institutions, mechanisms, and systems for addressing food security and nutrition challenges and link to</p>

^{lxvii} Drawing on international guidelines where available e.g. FAO/Commission on Genetic Resources for Food and Agriculture (CGRFA) voluntary guidelines for Mainstreaming Biodiversity into Policies, Programmes, and National and Regional Plans of Action on Nutrition

frameworks are strengthened and harmonized to improve food security and nutrition	<p>ownership and/or control (SDG 5.a.2)</p> <p>Proportion of countries with systems to track and make public allocations for gender equality and women's empowerment (SDG 5.c.1)</p>	<p>as access to ownership and control over land and other forms of property, financial services, inheritance and natural resources, in accordance with national laws (SDG 5.a)</p> <p>Adopt and strengthen sound policies and enforceable legislation for the promotion of gender equality and the empowerment of all women and girls at all levels (SDG 5.c)</p>	<p>advocacy and awareness-raising strategies</p> <p><u>National level</u></p> <p>1.1.3.2. Harmonize and strengthen legislative and institutional frameworks across the food system to improve food security and nutrition, including those relating to food safety and quality; conservation and use of land, forest, marine, and freshwater biodiversity and resources; gender equality and women's empowerment.</p> <p><u>Regional level</u></p> <p>1.1.3.3. Harmonize and strengthen regional institutional frameworks, standards, guidelines, and processes to improve food security and nutrition</p> <p><u>Global level</u></p> <p>1.1.3.4. Provide coordinated support for capacity-development to develop, strengthen, harmonize, and implement legal and institutional frameworks</p>
OUTCOME 1.1.4: Effective and coherent policies are in place to promote food security and nutrition	<p>Prevalence of undernourishment (SDG 2.1.1)</p> <p>Prevalence of moderate or severe food insecurity in the population based on the Food Insecurity Experience Scale (FIES) (SDG 2.1.2)</p> <p>Prevalence of stunting among children under 5 years of age (SDG 2.2.1)</p> <p>Prevalence of malnutrition among children under 5 years of age, by type (wasting and overweight) (SDG 2.2.2)</p> <p>Mortality rate attributable to NCDs (SDG 3.4.1)</p>	<p>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 (SDG 2.1)</p> <p>By 2030, end all forms of malnutrition, including achieving, by 2025, the internationally agreed targets on stunting and wasting in children under 5 years of age, and address the nutritional needs of adolescent girls,</p>	<p><u>Local level</u></p> <p>1.1.4.1. Facilitate and support meaningful engagement of communities, particularly marginalized and at-risk groups, in political and policy-making processes affecting food security and nutrition</p> <p><u>National level</u></p> <p>1.1.4.2. Prioritise, and set time-bound targets for, implementation of global best-practice policy recommendations for promoting food security, healthy diets and nutrition, including evidence-based regulatory and policy measures to improve the nutritional quality of the food supply and limit the marketing, availability and consumption of unhealthy foods and beverages; and non trade-distorting measures to improve the supply and competitiveness of local, nutritious foods.</p>

		<p>pregnant and lactating women, and older persons (SDG 2.2)</p> <p>By 2030, reduce by one third premature mortality from NCDs through prevention and treatment (SDG 3.4)</p>	<p>1.1.4.3. Establish national food-based dietary guidelines incorporating sustainability principles to guide all national nutrition education programmes, as well as to create a link between food demand and supply by guiding policies and actions in all relevant sectors, including agriculture, health, social protection, and education (including food standards for schools as well as other public institutions)</p> <p><u>Regional level</u></p> <p>1.1.4.4. Explore opportunities to integrate food security and nutrition objectives into regional policies (including those relating to trade, investment, food safety and quality)</p> <p><u>Global level</u></p> <p>1.1.4.5. Provide coordinated support for capacity-development to design and implement effective and coherent public policies for improving food security and nutrition</p>
<p>OUTCOME 1.1.5: Policies and strategies across sectors are aligned to maximise benefits for food security and nutrition</p>	<p>Number of national action plans related to multilateral environmental agreements that support accelerated investment in actions that eradicate poverty and sustainably use natural resources (SDG 1.b.1)</p> <p>Agricultural export subsidies (SDG 2.b.2)</p> <p>Share of informal employment in non-agriculture employment, by sex (SDG 8.3.1)</p> <p>Percentage of medium and high-tech industry value added in total value added (SDG 9.b.1)</p> <p>Number of countries with sustainable consumption and production (SCP)</p>	<p>Create sound policy frameworks at the national, regional and international levels, based on pro-poor and gender-sensitive development strategies, to support accelerated investment in poverty eradication actions (SDG 1.b)</p> <p>Correct and prevent trade restrictions and distortions in world agricultural markets, including through the parallel elimination of all forms of agricultural export subsidies and all export measures with equivalent effect, in accordance with the mandate</p>	<p><u>Local level</u></p> <p>1.1.5.1. Facilitate and support meaningful engagement of communities, particularly marginalized and at-risk groups, in political and policy-making processes affecting food security and nutrition</p> <p>1.1.5.2. Integrate food security and nutrition priorities into local planning, development processes, and poverty reduction strategies.</p> <p><u>National level</u></p> <p>1.1.5.3. Review existing policies across all relevant sectors (including agriculture, health, economic development, social protection, education, trade, environment, water and sanitation, and industry) for their impacts on food security and nutrition, and integrate food security and nutrition objectives, actions and accountability frameworks into policies and programmes, based on scientific evidence and international guidelines.</p>

	<p>national action plans or SCP mainstreamed as a priority or target into national policies (SDG 12.1.1)</p> <p>Number of countries that have formally communicated the establishment of integrated low- carbon, climate-resilient, disaster risk reduction development strategies (e.g. a national adaptation plan process, national policies and measures to promote the transition to environmentally friendly substances and technologies) (SDG 13.2.1)</p> <p>Number of national development plans and processes integrating biodiversity and ecosystem services values (SDG 15.9.1)</p>	<p>of the Doha Development Round (SDG 2.b)</p> <p>Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services (SDG 8.3)</p> <p>Support domestic technology development, research and innovation in developing countries, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities (SDG 9.b)</p> <p>Implement the 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns, all countries taking action, with developed countries taking the lead, taking into account the development and capabilities of developing countries (SDG 12.1)</p>	<p>1.1.5.4. Strengthen/reform policies to promote social and economic security and empowerment, including rural infrastructure and services; urban planning, housing, land use, and development; water and sanitation; social, health, education, and employment policies.</p> <p><u>Regional level</u></p> <p>1.1.5.5. Establish inter-regional trade policies and platforms and integrate food security and nutrition objectives, actions and accountability mechanisms</p> <p><u>Global level</u></p> <p>1.1.5.6. Provide coordinated support to build capacities of government and other stakeholders for policy development and reform</p>
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		<p>Integrate climate change measures into national policies, strategies and planning (SDG 13.2)</p> <p>By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts (SDG 15.9)</p>	
COMPONENT 1.2. Capacity and resources			
<p>OUTCOME 1.2.1: Increased investment in promoting food security and nutrition across agricultural and food systems</p>	<p>Agricultural orientation index for government expenditures (SDG 2.a.1)</p> <p>Total official flows (ODA plus others) to the agricultural sector (SDG 2.a.2)</p> <p>7.a.1 Mobilized amount of United States dollars per year starting in 2020 accountable towards the \$100 billion commitment</p> <p>7.b.1* Ratio of value added to net domestic energy use, by industry</p> <p>14.a.1 Budget allocation to research in the field of marine technology as a percentage of total budget for research</p> <p>Official development assistance and public expenditure on conservation and sustainable use of biodiversity and ecosystems (SDG 15.a.1)</p>	<p>Increase investment, including through enhanced international cooperation, in rural infrastructure, agricultural research and extension services, technology development and plant and livestock gene banks in order to enhance agricultural productive capacity in developing countries, in particular least developed countries (SDG 2.a)</p> <p>7.a By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in</p>	<p><u>Local level</u></p> <p>1.2.1.1. Identify opportunities to increase resources available to local institutions and organisations.</p> <p><u>National level</u></p> <p>1.2.1.2. Attract and scale-up public and private investment in agricultural research and development for improved food security and nutrition, including the creation, adoption and incubation of innovative technologies and practices developed for, and in, islands and atolls, based on CFS guidelines for responsible investment in agriculture.</p> <p>1.2.1.3. Increase investment in infrastructure, services, and markets for local, inclusive, and nutrition-sensitive value chains, including improved transport, storage and processing capacities.</p> <p><u>Regional level</u></p> <p>1.2.1.4. Explore novel opportunities to harmonize and pool resources for improved food security and nutrition (e.g. regional approach to address inter-island transportation challenges).</p>

	Forestry official development assistance and forestry foreign direct investment (SDG 15.b.1)	<p>energy infrastructure and clean energy technology</p> <p>7.b By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States and landlocked developing countries, in accordance with their respective programmes of support</p> <p>14.a Increase scientific knowledge, develop research capacity and transfer marine technology, taking into account the Intergovernmental Oceanographic Commission Criteria and Guidelines on the Transfer of Marine Technology, in order to improve ocean health and to enhance the contribution of marine biodiversity to the development of developing countries, in particular small island developing States and least developed countries</p> <p>Mobilize and significantly</p>	<p>Global level</p> <p>1.2.1.5. Mobilize and increase resources available to support efforts to improve food security and nutrition in SIDS.</p>
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		<p>increase financial resources from all sources to conserve and sustainably use biodiversity and ecosystems (SDG 15.a)</p> <p>Mobilize significant resources from all sources and at all levels to finance sustainable forest management and provide adequate incentives to developing countries to advance such management, including for conservation and reforestation (SDG 15.b)</p>	
<p>OUTCOME 1.2.2: Human and institutional capacities for addressing food security and nutrition challenges enhanced in all relevant sectors</p>	<p>Aid for Trade commitments and disbursements (SDG 8.a.1)</p> <p>The dollar value of financial and technical assistance, including through North-South, South-South and triangular cooperation, committed to developing countries' designing and implementing a holistic policy mix that aims at sustainable development in three dimensions (including elements such as reducing inequality within a country and governance) (SDG 17.9.1)</p>	<p>Increase Aid for Trade support for developing countries, in particular least developed countries, including through the Enhanced Integrated Framework for Trade-related Technical Assistance to Least Developed Countries (SDG 8.a)</p> <p>Enhance international support for implementing effective and targeted capacity-building in developing countries to support national plans to implement all the Sustainable Development Goals, including through North-South, South-South and triangular</p>	<p><u>Local level</u></p> <p>1.2.2.1. Strengthen capacities of local government and community-based organizations for addressing food security and nutrition challenges, including for community-based surveillance, program/service delivery (including training of community nutrition/ behaviour change promoters), and monitoring; natural resource management; and capacity development of individuals to access and manage finances, and to generate income</p> <p><u>National level</u></p> <p>1.2.2.2. Strengthen organizational capacities for ecosystem stewardship, livelihoods, food security and nutrition at all levels, with a focus on governance, social inclusion and community empowerment.</p> <p>1.2.2.3. Strengthen research capacities for addressing food security and nutrition challenges, including capacity for inter-sectoral coordination between research organizations.</p> <p>1.2.2.4. Provide training and capacity-building to social workers,</p>

		cooperation (SDG 17.9)	<p>agricultural extension personnel, teachers, health professionals, and other front-line personnel in the delivery of programs and services to promote food security, nutrition and social and economic security (link to 3.3.1).</p> <p>1.2.2.5. Provide training and capacity-building to improve production and post-harvest management, address inefficiencies, and improve competitiveness in value chains for nutritious, locally-produced foods, including staple crops, fruits, vegetables, animal products and seafood, particularly those involving smallholders.</p> <p>1.2.2.6. Strengthen capacity to conduct <i>ex ante</i> impact assessments of all proposed free trade agreements for food security and nutrition considerations, including potential impacts on local production, and import volumes of different food categories, and for nutrition/health representatives to participate in trade negotiations.</p> <p>1.2.2.7. Strengthen public sector capacities to monitor and enforce compliance to regulatory frameworks in the areas of fisheries, agriculture, forestry, conservation and use of marine and terrestrial biodiversity, food safety and quality.</p> <p>1.2.2.8. Identify and build the capacity of potential advocates, champions, and drivers of change for improving the food system, food security and nutrition (including politicians, celebrities, civil society representatives, and local leaders)</p> <p><u>Regional level</u></p> <p>1.2.2.9. Strengthen capacities of regional organisations working in all relevant sectors to address food security and nutrition challenges, including capacity for coordination and improved coherence (e.g. CARICOM, IOC, SPC).</p>
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			<p>1.2.2.10. Strengthen and build research capacities for addressing food security and nutrition challenges, including capacity for inter-sectoral coordination between research organizations.</p> <p><u>Global level</u></p> <p>1.2.2.11. Provide coordinated support to build institutional and human capacities in all relevant sectors (including agriculture, forestry, fisheries, and health) and at all levels (regional, national and municipal/local) for addressing food security and nutrition challenges, including capacities for the development and adoption of low-cost surveillance, monitoring and assessment capabilities, program delivery, and inter-sectoral coordination between organisations and ministries, and nutrition advocacy (including identifying and building the capacities of potential “nutrition champions” at local and national levels)</p> <p>1.2.2.12. Provide coordinated support to strengthen legal, institutional, and human capacities for effective regulation and governance of food systems for improved food security and nutrition, including legislative assistance, and support for monitoring and enforcement in the areas of fisheries, agriculture, forestry, conservation and use of marine and terrestrial biodiversity, food safety and quality.</p> <p>1.2.2.13. Enhance support for collaborative research, technology transfer initiatives, and exchanges (including south-south and north-south) in the fields of agriculture, forestry and other land- use, and fisheries that contribute to better food security and nutrition outcomes, including exchanges on innovative approaches to linking local agricultural development and public procurement (such as home-grown school feeding programs).^{lxviii}</p>
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^{lxviii} e.g. WFP’s Centre of Excellence on school feeding in Brazil

			<p>1.2.2.14. Enhance financial and technical support for the development of sustainable, accessible and resilient quality infrastructure, including transport, energy, water and sanitation.</p> <p>1.2.2.15. Provide coordinated support to strengthen the nutrition-sensitivity of disaster preparedness, risk reduction, and relief, and resilience-building programmes and initiatives.</p> <p>1.2.2.16. Provide trade-related capacity-building and technical assistance to support participation of SIDS in the multilateral trading system while protecting and promoting food security and nutrition.</p>
COMPONENT 1.3. Knowledge and evidence generation, dissemination, and use			
<p>OUTCOME 1.3.1: Collection, generation, dissemination and use of reliable, timely, locally-relevant data and knowledge, including surveillance, monitoring and evaluation</p>	<p>Proportion of sustainable development indicators produced at the national level with full disaggregation when relevant to the target, in accordance with the Fundamental Principles of Official Statistics (SDG 17.18.1)</p>	<p>By 2020, enhance capacity-building support to developing countries, including for least developed countries and small island developing States, to increase significantly the availability of high-quality, timely and reliable data disaggregated by income, gender, age, race, ethnicity, migratory status, disability, geographic location and other characteristics relevant in national contexts (SDG 17.18)</p>	<p><u>Local level</u></p> <p>1.3.1.1. Collect and document traditional knowledge and practices relating to natural resource management and the production and preparation of traditional foods, and support sharing of knowledge between communities (link to 3.3.1.1).</p> <p>1.3.1.2. Develop and support community-based climate and food security surveillance systems.</p> <p>1.3.1.3. Support local research on the identification, utilisation, and market development of diverse, locally produced, nutrient-rich foods.</p> <p>1.3.1.4. Support community-led campaigns to raise awareness about the importance of efforts to improve food security and nutrition, nutrition education programmes to build knowledge and skills needed for healthier and more sustainable dietary habits, as well as safe hygiene and childcare practices (link to 3.1.1.5).</p>

			<p><u>National level</u></p> <p>1.3.1.5. Monitor the implementation of policies and strategies outlined in the national food security and nutrition plan, and evaluate impacts across social groups.</p> <p>1.3.1.6. Conduct regular surveillance and monitoring of the food security and nutrition situation in different population groups, with timely response to emerging needs and challenges.</p> <p>1.3.1.7. Support agricultural research and development of a diverse range of foods including local staples and other crops, including underutilized traditional crops, a diverse range of fruits and vegetables best adapted to the effects of climate change, and appropriate production of animal-source products, applying sustainable food production and natural resource management practices (link to 2.3.1.2).</p> <p>1.3.1.8. Support research relating to climate-smart, nutrition-sensitive food systems, including use of renewable sources of energy which are abundant (such as wind, water and solar power) and related technologies.</p> <p>1.3.1.9. Support policy-oriented research to develop clear, usable analytic tools for assessing coherence between policies and programmes across all sectors (in particular, agriculture and trade), and food security and nutrition objectives; for monitoring the impacts of policy measures on food supply, food consumption and nutrition indicators; and for identifying opportunities to enhance positive/mitigate adverse impacts.</p> <p>1.3.1.10. Integrate a limited but key set of food security and nutrition indicators into existing relevant surveillance, monitoring and evaluation mechanisms where appropriate, based on scientific evidence and international guidelines.</p>
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			<p>1.3.1.11. Support improved baseline monitoring of island systems and the downscaling of climate model projections to enable better projections of the future impacts on small islands.</p> <p>1.3.1.12. Develop/improve national environment and resource databases, and the dissemination of information to relevant groups - especially rural communities, youth and women - as the basis for all aspects of land-use planning and management, along with appropriate decision-making tools such as land/geographic information systems, that contribute to better food security and nutritional outcomes.</p> <p>1.3.1.13. Promote research, investment in, and the adoption of, ICT technologies to advance information sharing between urban and rural areas, and to ensure access to markets, data, and knowledge, particularly for small-scale farmers/fishers.</p> <p>1.3.1.14. Support research to better understand knowledge, attitudes, practices and norms related to food and nutrition, including motivators, sources of influence and the communication channels most likely to impact shifts in practices.</p> <p>1.3.1.15. On the basis of this research, develop appropriate, evidence-based behaviour change approaches and communication strategies to disseminate/reinforce key food security and nutrition messages through multiple communication channels, such as focused, sustained public awareness campaigns on climate change risks and the importance of human and environmental resilience to the longer-term impacts of climate change; the benefits of a sustainable approach to land-use practices and the importance of biological diversity conservation and use; the importance of protecting freshwater resources; and on how</p>
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			<p>individual dietary and lifestyle choices affect individual health and the environment (based on national food-based dietary guidelines and tailored to specific population groups).</p> <p><u>Regional level</u></p> <p>1.3.1.16. Support maintenance and utilization of regional plant genetic resource facilities, including support for use of climate-resilient traditional crop varieties by farmers.</p> <p>1.3.1.17. Establish regional and inter-regional knowledge exchange platforms to facilitate sharing of knowledge, information and experience, document key lessons on what works and share.</p> <p>1.3.1.18. Develop regional research, technology transfer, and other initiatives.</p> <p>1.3.1.19. Integrate culture into regional development plans and strategies</p> <p><u>Global level</u></p> <p>1.3.1.20. Support inter-country collaboration, such as North-South, South-South and triangular cooperation, and information exchange on agriculture, nutrition, food, technology, research, good governance, policies and programmes.</p> <p>1.3.1.21. Provide support to strengthen national and regional research capacities on climate resilience, and facilitate research that takes into account the rich local, traditional and indigenous knowledge of SIDS as well as SIDS-based innovation and technologies.</p> <p>1.3.1.22. Support efforts to assess the effectiveness of 'health excises' and other fiscal measures in changing food consumption patterns, as well as their impacts on finance,</p>
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			<p>in order to progress evidence-based policy approaches to incentivize healthier eating patterns.</p> <p>1.3.1.23. Provide support to monitor and track progress towards relevant global commitments and goals including exploring opportunities for a scorecard approach that builds on existing data collection processes to track progress in implementation of ICN2 and SDG (especially SDG2) commitments.</p>
OBJECTIVE 2. Sustainable and resilient food systems that support healthy diets and optimal nutrition			
COMPONENT 2.1 Sustainable management and use of oceans and seas and their resources for food security and nutrition			
<p>OUTCOME 2.1.1. Oceans and seas and their resources are sustainably managed and used for food security and nutrition</p>	<p>Percentage of coastal and marine development with formulated or implemented integrated coastal management/maritime spatial planning plans (that are harmonized where applicable), based on an ecosystem approach, that builds resilient human communities and ecosystems and provides for equitable benefit sharing and decent work (SDG 14.2.1)</p> <p>Proportion of fish stocks within biologically sustainable levels (SDG 14.4.1)</p> <p>Progress by countries in the degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing (SDG 14.6.1)</p> <p>Sustainable fisheries as a percentage of GDP in small island developing States,</p>	<p>By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans (SDG 14.2)</p> <p>By 2020, effectively regulate harvesting and end overfishing, illegal, unreported and unregulated fishing and destructive fishing practices and implement science-based management plans, in order to restore fish stocks in the shortest time feasible, at least to levels that can produce maximum sustainable yield as</p>	<p><u>Local level</u></p> <p>2.1.1.1. Empower all communities to manage their resources and work with government collaboratively for coastal fisheries management.</p> <p>2.1.1.2. Evaluate social, economic and environmental viability of community based farming of sea cucumbers and seaweeds for sale as a cash crop</p> <p>2.1.1.3. Build capacity at the local level to ensure fish produced meets minimum food safety standards</p> <p>2.1.1.4. Promote the consumption of fish and the utilization of fish byproducts for direct consumption rather than discarding</p> <p><u>National level</u></p> <p>2.1.1.5. Strengthen implementation of community-based ecosystem approaches to coastal fisheries management to achieve national coverage</p> <p>2.1.1.6. Implement the Port State Measures Agreement</p>

	<p>least developed countries and all countries (SDG 14.7.1)</p> <p>Progress by countries in adopting and implementing a legal/regulatory/policy/institutional framework which recognizes and protects access rights for small-scale fisheries (SDG 14.b.1)</p> <p>Number of countries making progress in ratifying, accepting and implementing through legal, policy and institutional frameworks, ocean-related instruments that implement international law, as reflected in UNCLOS, for the conservation and sustainable use of the oceans and their resources (SDG 14.c.1)</p>	<p>determined by their biological characteristics (SDG 14.4)</p> <p>By 2020, prohibit certain forms of fisheries subsidies which contribute to overcapacity and overfishing, eliminate subsidies that contribute to illegal, unreported and unregulated fishing and refrain from introducing new such subsidies, recognizing that appropriate and effective special and differential treatment for developing and least developed countries should be an integral part of the World Trade Organization fisheries subsidies negotiation (SDG 14.6)</p> <p>By 2030, increase the economic benefits to small island developing States and least developed countries from the sustainable use of marine resources, including through sustainable management of fisheries, aquaculture and tourism (SDG 14.7)</p> <p>Provide access for small-scale artisanal fishers to marine resources and markets (SDG</p>	<p>2.1.1.7. Evaluate social, economic and environmental viability of community based farming of sea cucumbers and seaweeds for sale as a cash crop</p> <p>2.1.1.8. Ensure fish consumption is part of national food security and nutrition plan</p> <p><u>Regional level</u></p> <p>2.1.1.9. Provide support to achieve implementation of community-based ecosystem approach to coastal fisheries management that reaches all coastal communities</p> <p>2.1.1.10. Evaluate the potential for development of more efficient and equitable market chains for internationally traded farmed aquatic products, especially sea cucumbers and marine macroalgae.</p> <p>2.1.1.11. Ensure regional standards for food safety and quality include fisheries products</p> <p><u>Global level</u></p> <p>2.1.1.12. Provide coordinated support to build capacities for sustainable management and use of oceans and seas and their resources</p> <p>2.1.1.13. Provide support to the implementation of the Port State Measures Agreement</p> <p>2.1.1.14. Provide support to the implementation of the Guidelines for Small-Scale Fisheries</p>
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		<p>14.b)</p> <p>Enhance the conservation and sustainable use of oceans and their resources by implementing international law as reflected in the United Nations Convention on the Law of the Sea, which provides the legal framework for the conservation and sustainable use of oceans and their resources, as recalled in paragraph 158 of “The future we want” (SDG 14.c)</p>	
COMPONENT 2.2 Sustainable management and use of freshwater resources for food security and nutrition			
<p>OUTCOME 2.2.1</p> <p>Freshwater resources are sustainably managed and used for food security and nutrition</p>	<p>Change in water-use efficiency over time (SDG 6.4.1)</p> <p>Level of water stress: freshwater withdrawal as a proportion of available freshwater resources (SDG 6.4.2)</p> <p>Degree of integrated water resources management implementation (0-100) (SDG 6.5.1)</p> <p>Percentage of change in the extent of water- related ecosystems over time (SDG 6.6.1)</p> <p>Amount of water- and sanitation-related official development assistance that is part of a government coordinated spending plan (SDG 6.a.1)</p>	<p>By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity (SDG 6.4)</p> <p>By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate (SDG 6.5)</p> <p>By 2020, protect and restore water-related ecosystems, including mountains, forests,</p>	<p>Local level</p> <p>2.2.1.1. Support communities to take ownership of water planning and management at relevant levels, including participatory mechanisms for the sustainable management of ecosystems and landscapes that are key to ensure the availability, quality and stability of water for food security and nutrition (with strong governance and accountability frameworks and mechanisms, possibly through the establishment of water users associations).</p> <p>2.2.1.2. Strengthen the capacity of households and local organizations to adopt water-saving practices and technologies for innovative water storage and distribution, efficiency in multiple water uses and disposal of wastewater that is appropriate for the environmental, social and cultural contexts.</p> <p>2.2.1.3. Pilot and assess school feeding programmes built around</p>

	<p>Percentage of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management (SDG 6.b.1)</p>	<p>wetlands, rivers, aquifers and lakes (SDG 6.6)</p> <p>By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies (SDG 6.a)</p> <p>Support and strengthen the participation of local communities in improving water and sanitation management (SDG 6.b)</p>	<p>pond aquaculture.</p> <p><u>National level</u></p> <p>2.2.1.4. Improve access to environmentally sound and energy efficient technologies for the catchment, production, conservation and delivery of freshwater, including rainwater catchment, water treatment systems and desalination and the trialling and development of aquaponics.</p> <p>2.2.1.5. Investigate the viability of integrating aquaculture into agricultural landscapes, such as fish into rice field systems, or the development of multi-purpose farm ponds.</p> <p>2.2.1.6. Explore feasibility and effectiveness of targeted incentives and disincentives to ensure quality of freshwater resources is preserved, particularly for drinking water.</p> <p>2.2.1.7. Develop integrated national water resource management strategy, and incorporate food security and nutrition concerns.</p> <p>2.2.1.8. Review national policies related to trade, rural development, and industrialization to ensure that they promote water for food security and nutrition and eliminate practices that disadvantage the vulnerable and marginalized.</p> <p>2.2.1.9. Design and implement agricultural practices (agronomic practices, agro-ecological innovations, seeds, livestock breeds, diversification) and landscape management which increase resilience of agricultural systems to water stress</p> <p><u>Regional level</u></p> <p>2.2.1.10. Strengthen regional cooperation to build capacities for management of freshwater resources</p>
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			<p>2.2.1.11. Strengthen regional research and knowledge exchange relating to water for food security and nutrition</p> <p>2.2.1.12. Assess viability of enterprise oriented aquaculture and the results to secure inward business investment</p> <p>Global level</p> <p>2.2.1.13. Strengthen international cooperation to build capacities and mobilize resources for water and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies.</p> <p>2.2.1.14. Strengthen international research and development cooperation to investigate issues relating to water for food security and nutrition in SIDS.</p>
COMPONENT 2.3 Sustainable management and use of terrestrial resources for food security and nutrition			
<p>OUTCOME 2.3.1 Terrestrial resources are sustainably managed and used for food security and nutrition</p>	<p>Proportion of agricultural area under productive and sustainable agriculture (SDG 2.4.1)</p> <p>Number of plant and animal genetic resources for food and agriculture secured in either medium or long-term conservation facilities (SDG 2.5.1)</p> <p>Proportion of local breeds classified as being at risk, not-at-risk or at unknown level of risk of extinction (SDG 2.5.2)</p> <p>Forest area as a proportion of total land area (SDG 15.1.1)</p>	<p>By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality (SDG 2.4)</p> <p>By 2020, maintain the genetic diversity of seeds, cultivated</p>	<p>Local level</p> <p>2.3.1.1. Foster role of local organizations in improving food security and nutrition through sustainable resource management approaches that value local knowledge and practices.</p> <p>National level</p> <p>2.3.1.2. Promote the diversification of crops, including underutilized traditional crops, more production of fruits and vegetables, nuts and seeds and legumes, and appropriate production of animal-source products, applying sustainable food production and natural resource management practices. Link these to strategies to ensure access to and affordability of these more nutritious foods on domestic markets.</p> <p>2.3.1.3. Explore opportunities for cooperation and shared agendas between health and agricultural sectors for production of crops that are 'high value' from both a nutritional and economic perspective (e.g. fruits, vegetables, organic</p>

	<p>Progress towards sustainable forest management (SDG 15.2.1)</p> <p>Proportion of land that is degraded over total land area (SDG 15.3.1)</p>	<p>plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed (SDG 2.5)</p> <p>By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements (SDG 15.1)</p> <p>By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and</p>	<p>traditional crops).</p> <p><u>Regional level</u></p> <p>2.3.1.4. Support conservation and utilization of traditional crop varieties stored in plant genetic resource facilities.</p> <p><u>Global level</u></p> <p>2.3.1.5. Facilitate knowledge generation, dissemination, and sharing, and provide technical assistance on integrated approaches to promoting food security and nutrition, and sustainable land management, including forest and tree-based systems.</p>
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		<p>reforestation globally (SDG 15.2)</p> <p>By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world (SDG 15.3)</p>	
COMPONENT 2.4 Inclusive and efficient nutrition-sensitive value chains			
<p>OUTCOME 2.4.1: Increased access to and participation of smallholders and small-scale enterprises in nutrition-sensitive value chains</p>	<p>Percentage share of small-scale industries in total industry value added (SDG 9.3.1)</p> <p>Percentage of small-scale industries with a loan or line of credit (SDG 9.3.2)</p>	<p>Increase the access of small-scale industrial and other enterprises, in particular in developing countries, to financial services, including affordable credit, and their integration into value chains and markets (SDG 9.3)</p>	<p><u>Local level</u></p> <p>2.4.1.1. Facilitate and support engagement of smallholder farmers, particularly women, in nutrition-sensitive value chains, including through financial literacy education, technical advice, value chain education, access to finance mechanisms; and childcare facilities.</p> <p>2.4.1.2. Empower smallholder organizations to facilitate market linkages, including mechanisms for the collection/aggregation of locally produced product for sale to processors, and ensure quality and consistency of supply.</p> <p>2.4.1.3. Increase access of farmers/fishers and enterprises to agricultural and climate financing (including risk sharing and insurance services, and low-interest loans) and improved technologies (including seeds), particularly smallholder women.</p> <p>2.4.1.4. Support use of traditional food preservation techniques in rural areas, and value-adding for local products via agri-processing.</p> <p><u>National level</u></p> <p>2.4.1.5. Direct public investments towards, and enhance</p>

			<p>institutional support and other incentives for, value chains that increase availability of nutritious, locally-produced foods, including staple crops, fruits, vegetables, animal and fish products and seafood, while enhancing returns for producers, particularly smallholders, and that are job-intensive and environmentally sustainable.</p> <p>2.4.1.6. Explore innovative approaches to integrate smallholder farmers into nutrition-sensitive value chains, including commercially-oriented cooperative business models (as has been successfully done in the Caribbean)</p> <p>2.4.1.7. Encourage creative business models, to enable low interest financing and risk sharing.</p> <p>2.4.1.8. Identify and enhance opportunities for nutrition-sensitive institutional food procurement, including school feeding programs, to provide reliable markets for small-scale producers (link to 3.2.1.4)</p> <p>2.4.1.9. Promote stronger linkages between small-scale producers and the tourism, hospitality, and culinary sectors and stimulate demand for local products, utilizing emerging regional and international alliances and platforms in this area (e.g. Chefs for Development)^{lxix}</p> <p>2.4.1.10. Evaluate selected agriculture value chains and map opportunities for additional marketing and distribution of current and new food products</p> <p><u>Regional level</u></p> <p>2.4.1.11. Establish regional market facilities and regional market information systems.</p>
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^{lxix} <http://chefs4dev.org>

			<p>2.4.1.12. Promote regional cooperation and trade in agricultural products, between the islands and with neighbouring continental states.</p> <p>2.4.1.13. Support efforts to promote stronger linkages between small-scale producers and the tourism, hospitality, and culinary sectors and stimulate demand for local products, utilizing emerging regional and international alliances and platforms in this area (e.g. Chefs for Development)^{lxx}</p> <p>Global level</p> <p>2.4.1.14. Enhance cooperation between national and regional bodies, and international development partners, in harmonizing standards, and designing and enforcing effective quarantine systems.</p> <p>2.4.1.15. Investigate the potential to scale up school feeding initiatives as a means to promote and ensure a sustainable market for locally-produced fresh foods and to promote healthy eating habits among children.</p>
<p>OUTCOME 2.4.2: Increased productivity and efficiency of inclusive, nutrition-sensitive value chains</p>	<p>Volume of production per labour unit by classes of farming/pastoral/forestry enterprise size (SDG 2.3.1)</p> <p>Average income of small-scale food producers, by sex and indigenous status (SDG 2.3.2)</p> <p>Annual growth rate of real GDP per employed person (SDG 8.2.1)</p> <p>Resource productivity (SDG 8.4.1)</p> <p>Global food loss index (SDG 12.3.1)</p>	<p>By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers, pastoralists and fishers, including through secure and equal access to land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment” (SDG 2.3)</p>	<p>National level</p> <p>2.4.2.1. Promote use of new, energy-efficient technologies in post-harvest processes.</p> <p>2.4.2.2. Facilitate adoption of scale-appropriate food processing technologies.</p> <p>2.4.2.3. Explore innovative financing mechanisms to improve storage, preservation, transport and distribution technologies and infrastructure to reduce food and nutrient losses and waste</p> <p>2.4.2.4. Explore low cost and sustainable transport options for food security and domestic economies, as well as access to</p>

^{lxx} <http://chefs4dev.org>

		<p>Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors (SDG 8.2)</p> <p>Improve progressively, through 2030, global resource efficiency in consumption and production and endeavour to decouple economic growth from environmental degradation, in accordance with the 10-Year Framework of Programmes on Sustainable Consumption and Production, with developed countries taking the lead (SDG 8.4)</p> <p>By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses (SDG 12.3)</p>	export markets
COMPONENT 2.5 Climate adaptation and resilience for food security and nutrition			
OUTCOME 2.5.1 Increased resilience of food systems and	Number of deaths, missing persons, and persons affected by disaster per 100,000 people (SDG 1.5.1 = 11.5.1 = 13.1.2)	By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and	<u>Local level</u> 2.5.1.1. Strengthen community-based mechanisms for climate change adaptation and disaster risk management, and support mainstreaming of food security and nutrition

<p>communities to climate change, disasters and shocks</p>	<p>Direct disaster economic loss in relation to global GDP (SDG 1.5.2)</p> <p>Number of countries with national and local disaster risk reduction strategies (SDG 1.5.3 = 13.1.1)</p> <p>Percentage of cities that are implementing risk reduction and resilience strategies aligned with accepted international frameworks that include vulnerable and marginalized groups in their design, implementation and monitoring (SDG 11.b.1)</p> <p>Number of least developed countries and small island developing States that are receiving specialized support for mechanisms for raising capacities for effective climate change-related planning and management, including focusing on women, youth, local and marginalized communities (SDG 13.b.1)</p>	<p>vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters (SDG 1.5)</p> <p>By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations (SDG 11.5)</p> <p>By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all levels (SDG 11.b)</p> <p>Strengthen resilience and</p>	<p>considerations into these mechanisms.</p> <p>2.5.1.2. Support community-led campaigns to raise awareness about how individual dietary and lifestyle choices affect the environment and climate (link to 1.3.1.4 and 3.1.1.5)</p> <p><u>National level</u></p> <p>2.5.1.3. Include explicit food security and nutrition objectives in national disaster preparedness and management plans, including contingency and emergency response plans, and in national adaptation and resilience-building programmes of action, taking into account specific national and regional vulnerabilities and economic, environmental and social situations.</p> <p>2.5.1.4. Develop strategies to restore affected and vulnerable communities that depend on farming, livestock, fisheries and forestry for their livelihoods in event of disasters.</p> <p>2.5.1.5. Develop affordable climate and disaster insurance, in particular for climate risk management and develop tools to access climate insurance by farmers</p> <p>2.5.1.6. Strengthen emergency response systems for food borne disease outbreaks, livestock disease and plant disease threats.</p> <p><u>Regional level</u></p> <p>2.5.1.7. Include explicit food security and nutrition objectives in regional mechanisms for the management of food crises and disasters caused by natural hazards.</p> <p><u>Global level</u></p> <p>2.5.1.8. Support integrated approaches to improving food security and nutrition, conservation and use of biodiversity, and climate change adaptation and resilience.</p>
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		<p>adaptive capacity to climate-related hazards and natural disasters in all countries (SDG 13.1)</p> <p>Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities (SDG 13.b)</p>	<p>2.5.1.9. Provide coordinated capacity-building support for the integration of critical adaptation needs, including food security, nutrition water, sanitation, coastal protection, and protection of critical coastal infrastructures, into national development agendas.</p>
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Objective 3. Empower people and communities for improved food security and nutrition

COMPONENT 3.1 Social and economic empowerment

<p>OUTCOME 3.1.1</p> <p>Improved access of rural and urban poor to knowledge, resources, services, markets, and decent employment and income opportunities, particularly among youth and women</p>	<p>Proportion of population below the international poverty line, by sex, age, employment status and geographical location /rural/urban) (SDG 1.1.1)</p> <p>Proportion of population living below the national poverty line, by sex and age (SDG 1.2.1)</p> <p>Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions (SDG 1.2.2)</p> <p>Proportion of the population living in households with access to basic services (SDG 1.4.1)</p>	<p>By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day (SDG 1.1)</p> <p>By 2030, reduce by at least half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions (SDG 1.2)</p> <p>By 2030, ensure that all men and women, in particular the poor and the vulnerable, have</p>	<p><u>Local level</u></p> <p>3.1.1.1. Provide and promote diverse income and livelihood opportunities for rural communities.</p> <p>3.1.1.2. Enhance support for farmer/fisher organizations and other local organisations (link to 2.4.1.2)</p> <p>3.1.1.3. Promote energy-saving and less labor-intensive tools to enable small-scale farmers/fishers to conserve time and energy to focus on their own and their families' optimal health and care practices.</p> <p>3.1.1.4. Address asset and organizational deficiencies to ensure smallholder farmers/fishers have a greater chance to access resources, and support improved livelihoods, resource sharing, access to water and fisheries, land tenure, indigenous people's rights, and capital development (link</p>
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	<p>Proportion of total agricultural population with ownership or secure rights over agricultural land, by sex (a), and (b) share of women among owners or rights-bearers of agricultural land, by type of tenure (SDG 5.a.1)</p> <p>Average hourly earnings of female and male employees, by occupation, age group and persons with disabilities (SDG 8.5.1)</p> <p>Unemployment rate, by sex, age group and persons with disabilities (SDG 8.5.2)</p> <p>Percentage of youth (aged 15-24) not in education, employment or training (SDG 8.6.1)</p> <p>Total government spending in social protection and employment programmes as a percentage of the national budgets and GDP (SDG 8.b.1)</p> <p>Share of the rural population who live within 2 km of an all-season road (SDG 9.1.1)</p> <p>Passenger and freight volumes, by mode of transport (SDG 9.1.2)</p> <p>Total official international support (official development assistance plus other official flows) to infrastructure (SDG 9.a.1)</p>	<p>equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance (SDG 1.4)</p> <p>Undertake reforms to give women equal rights to economic resources, as well as access to ownership and control over land and other forms of property, financial services, inheritance and natural resources, in accordance with national laws (SDG 5.a)</p> <p>By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value (SDG 8.5)</p> <p>By 2020, substantially reduce the proportion of youth not in employment, education or training (SDG 8.6)</p> <p>By 2020, develop and</p>	<p>to 2.4.1.3).</p> <p>3.1.1.5. Build capacities for community-led nutrition action, including awareness-raising and nutrition education activities for behavioral and social change (link to 1.3.1.4 and 2.5.1.2).</p> <p>3.1.1.6. Build capacity and support role of community/traditional leaders and other actors as agents of social and behavioural change, including demand generation for services; raising awareness about and modelling healthy diets and lifestyles; promotion of shared responsibilities between men and women in the household; and strengthening community accountability for maternal and child malnutrition.</p> <p><u>National level</u></p> <p>3.1.1.7. Enhance coverage and delivery of pro-poor rural development and poverty reduction strategies</p> <p>3.1.1.8. Strengthen regional networks of small-scale farmer/fisher associations for agricultural research, outreach and development.</p> <p>3.1.1.9. Increase public and private investment in building and maintaining appropriate infrastructure, including ports, roads, transportation, electricity and power generation and information and communications technology infrastructure, for nutrition-sensitive value chains</p> <p><u>Regional level</u></p> <p>3.1.1.10. Conduct collaborative, cross-sectoral research on the pathways between food security and nutrition, and social and economic empowerment, and document and share experience and best practices.</p>
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COMPONENT 3.2 Nutrition-sensitive social protection programmes			
OUTCOME 3.2.1 Improved access to, and effectiveness of, nutrition-sensitive social protection	Proportion of population covered by social protection floors/systems, by sex, distinguishing children, unemployed persons, older persons, persons with disabilities, pregnant women, newborns, work-injury victims and the poor and	Implement nationally appropriate social protection systems and measures for all, including floors, and by 2030 achieve substantial coverage of the poor and the	<p><u>Local level</u></p> <p>3.2.1.1. Foster and support community-led initiatives to enhance food security and nutrition, including backyard gardening and school feeding programmes</p> <p><u>National level</u></p>

programmes	vulnerable (SDG 1.3.1)	vulnerable (SDG 1.3)	<p>3.2.1.2. Integrate food security and nutrition objectives and actions into the design of social protection programmes, and use food security and nutrition indicators to monitor and assess effectiveness.</p> <p>3.2.1.3. Strengthen the design of social protection systems and interventions to make them more flexible and responsive to shocks caused by natural hazards, price shocks, and other key stresses in SIDS, in a way that governments can anticipate, prevent, and plan for crises through adaptation of the eligibility requirements, transfer size and delivery mechanisms of programmes, as well as through establishment of contingent financing structures.</p> <p>3.2.1.4. Increase investment in, and support for, school food and nutrition programs, and other public procurement programmes that are linked to local smallholder producers (<i>link to 2.4.1.8</i>).</p> <p>3.2.1.5. Organize south-south visits to facilitate sharing of knowledge, lessons and best practices relating to nutrition-sensitive public procurement programmes.^{lxxi}</p> <p><u>Regional level</u></p> <p>3.2.1.6. Document and share experience and best practices relating to the design, implementation, monitoring and evaluation of nutrition-sensitive social protection programmes, including school food and nutrition programmes.</p> <p><u>Global level</u></p> <p>3.2.1.7. Enhance and better coordinate support for the design, delivery, expansion, and monitoring and evaluation of nutrition-sensitive social protection programmes, including school feeding programs linked to smallholders and pro-</p>
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^{lxxi} e.g. the Purchase from Africans, for Africa (PAA Africa) project jointly undertaken by FAO, WFP, and the governments of Brazil, UK, Ethiopia, Malawi, Mozambique, Niger, and Senegal to link school feeding programs to smallholder farmers and agricultural development

			poor agricultural development
COMPONENT 3.3 Targeted community-based interventions and services to prevent and treat all forms of malnutrition			
OUTCOME 3.3.1 Improved access to, demand for, and utilization of, targeted interventions and services to prevent and treat malnutrition in all its forms, particularly among children and women of reproductive age, adolescents, and youth	<p>Prevalence of undernourishment (SDG 2.1.1)</p> <p>Prevalence of moderate or severe food insecurity in the population based on the Food Insecurity Experience Scale (FIES) (SDG 2.1.2)</p> <p>Prevalence of stunting among children under 5 years of age (SDG 2.2.1)</p> <p>Prevalence of malnutrition among children under 5 years of age, by type (wasting and overweight) (SDG 2.2.2)</p> <p>Mortality rate attributable to NCDs (SDG 3.4.1)</p>	<p>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 (SDG 2.1)</p> <p>By 2030, end all forms of malnutrition, including achieving, by 2025, the internationally agreed targets on stunting and wasting in children under 5 years of age, and address the nutritional needs of adolescent girls, pregnant and lactating women, and older persons (SDG 2.2)</p> <p>By 2030, reduce by one third premature mortality from NCDs through prevention and treatment (SDG 3.4)</p>	<p>Local level</p> <p>3.3.1.1. Support community-led education, skill-building, and behaviour change initiatives to promote healthy eating and other behaviours, including safe hygiene and child-care practices, as well as education and skill-building to improve home food processing, storage and preservation techniques in order to retain nutritional value and food safety, and reduce seasonal food insecurity and post-harvest losses, breastfeeding and optimal complementary feeding, and the importance of diverse, balanced diets and physical activity (link to 1.3.1.1.).</p> <p>National level</p> <p>3.3.1.2. Prioritise investment in implementing set of internationally-recognized, evidence-based, and cost-effective interventions to prevent and treat undernutrition and micronutrient deficiencies in children and women of reproductive age, including investment in monitoring and evaluation.^{lxxii}</p> <p>3.3.1.3. Implement internationally-recognized policies and strategies to foster Baby Friendly Hospitals, promote educational training on how to breastfeed, and ban promotion of breastmilk substitutes at medical care facilities (unless breastfeeding is not possible).</p> <p>3.3.1.4. Include specific agriculture-nutrition targeting criteria to ensure that families with infants and young children, in</p>

^{lxxii} In particular, promoting and supporting optimal maternal nutrition, including counselling on diverse diets, optimal weight gain (neither too little nor not too much) during pregnancy, micronutrient supplementation and deworming; early initiation and exclusive breastfeeding up to six months where possible, continued breastfeeding to two years of age and beyond with appropriate complementary feeding, and optimal infant and young child feeding and care practices; enabling access to diverse and healthy diets; provision of safe food and drinking water and adequate sanitation facilities; promotion of good hygiene and sanitation practices; integrated management of acute undernutrition; counselling and management of obesity; micronutrient supplementation and food fortification.

			<p>particular women farmers, benefit from both agriculture and nutrition education programmes.^{lxxiii}</p> <p>3.3.1.5. Integrate gender considerations in community-based food security and nutrition programmes and activities, including attention to impacts on mother's/caregiver's time allocation and energy expenditure, and promote shared responsibilities between men and women in the household.</p> <p>3.3.1.6. Develop and scale-up school and pre-school food and nutrition policies and programmes, including health promoting schools and school gardening programmes, linking school feeding programmes to local producers, micronutrient supplementation and deworming of school age children, mandatory policies on healthy foods and beverages provided or sold in and around schools, strengthening nutrition education, skill-building and physical activity in schools as part of the core curriculum.</p> <p><u>Regional level</u></p> <p>3.3.1.7. Share experience and best practices relating to implementation of community-based food security and nutrition programmes.</p> <p>3.3.1.8. Monitor implementation of the Baby Friendly Hospital Initiative.</p> <p>3.3.1.9. Monitor diet quality shifts (link to 1.3.1.16).</p> <p><u>Global level</u></p> <p>3.3.1.10. Strengthen and enhance coordination of support for implementation, monitoring, and evaluation of interventions to prevent and treat malnutrition in target population groups, including children and women of</p>
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^{lxxiii} http://www.fao.org/fileadmin/user_upload/nutrition/docs/education/infant_feeding/Programme_Lessons.pdf

			<p>reproductive age, adolescents and youth.</p> <p>3.3.1.11. Support efforts to improve the evidence base on food-based approaches, including biofortification, to improving diet diversity and addressing micronutrient and protein deficiencies in SIDS.</p>
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