

# Agenda

09.40 - 09.50

#### **Introducing DVI in Europe and Central Asia**

Ms Daniela Di Gianantonio, FAO Digital Agriculture Team Leader

## Session 1 - DVI in Central Asia and Azerbaijan

09.50 - 10.15

#### Ministerial roundtable: Central Asia and Azerbaijan

- H.E. Sarvan Jafarov, Deputy Minister of Agriculture of the Republic of Azerbaijan
- H.E. Nurdin Alisherov Kuvanychbekovich, Deputy Minister of Agriculture of the Kyrgyz Republic
- Mr Fayzimahmad Amonov, Head of the Department on International Relations, Science and Implementation of Scientific Achievements of the Ministry of Agriculture of Tajikistan
- Mr Aziz Khakimov, Chief Specialist in Information Communication Technologies, Ministry of Agriculture

Moderated by Mr Viorel Gutu, FAO Sub-regional Coordinator for Central Asia

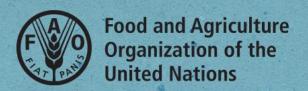
10.15 - 10.4

#### **Experiences from project countries**

- Azerbaijan Mr Elmaddin Namazov, Programme Coordinator, FAO Azerbaijan
- Kyrgyzstan Dr Kanat Sultanaliev, Executive Director, Tian Shan Policy Center, American University of Central Asia
- Tajikistan Ms Veronika Sherova, FAO Digital Agriculture Analyst
- Uzbekistan Mr Fenton Beed, Senior Agricultural Officer, FAO Plant Production and Protection
   & Ms Katerina Antanevich, FAO Digital Agriculture Specialist and Sociologist (live from Novkent village)

10.45 - 10.55

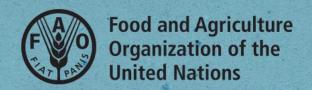
Q&A



# Agenda

## Session 2 – DVI in the Western Balkans, Georgia and Türkiye

10.55 - 11.20	<ul> <li>Ministerial roundtable: Western Balkans, Georgia and Türkiye</li> <li>H.E. Frida Krifca, Minister of Agriculture and Rural Development of Albania</li> <li>H.E. Slobodan Cvijanović, Assistant Minister at the Ministry of Foreign Trade and Economic Relations of Bosnia and Herzegovina</li> <li>Mr Metin Türker, Director General of Agricultural Research and Policies of the Ministry of Agriculture and Forestry of Republic of Türkiye</li> <li>Ms Ekaterine Zviadadze, Head of the Agriculture and Rural Development Policy Department of Georgia</li> <li>Moderated by Mr Nabil Gangi, FAO Regional Deputy Representative</li> </ul>
11.20 - 11.40	<ul> <li>Experiences from project countries</li> <li>Albania - Ms Barbara Battioni Romanelli, UN Fellow, FAO Albania</li> <li>Bosnia and Herzegovina - Dr Grujica Vico, Digital Villages Specialist</li> <li>Georgia - Mr Dragan Angelovski, FAO Technical Adviser</li> <li>Türkiye - Mr Frank Hollinger, FAO Senior Rural Finance Officer</li> </ul>
11.40 - 11.50	Q&A
11.50 - 12.00	Take home messages and closing
7000	<ul> <li>Mr Dejan Jakovljevic, FAO Chief Information Officer</li> <li>Mr Raimund Jehle, FAO Regional Programme Leader</li> </ul>

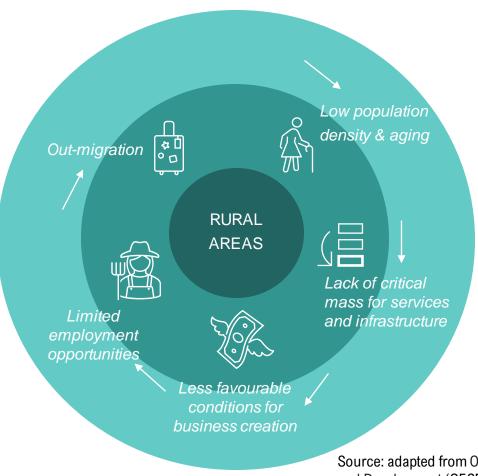




Daniela Di Gianantonio FAO Digital Agriculture Team Leader

## The FAO Digital Villages Initiative (DVI)

Empowering rural communities through digital innovation



Many rural areas are locked into a 'circle of decline' due to limited access to resources, inadequate infrastructure, and lack of economic opportunities; finding themselves at the intersection of the triple divide – a convergence of the rural-urban, gender, and digital divides.

With the **1 000 Digital Villages Initiative**, FAO aims to harness the power of technology and innovation to bridge the gaps faced by rural areas by empowering rural communities to respond to the challenges they face.

Source: adapted from Organization for Economic Cooperation and Development (OECD), 2006.



# Improving agricultural production through DVI

DVI focuses on 3 dimensions: the first aims at integrating ICT in agriculture production to improve productivity



### AGRICULTURAL PRODUCTION



Stimulating the use of ICTs and digital technologies in agricultural production



Application of various technologies (IoT, geospatial, remote sensing, AI, etc.)



Smart farming, precision agriculture, agrorobots, farm management solutions



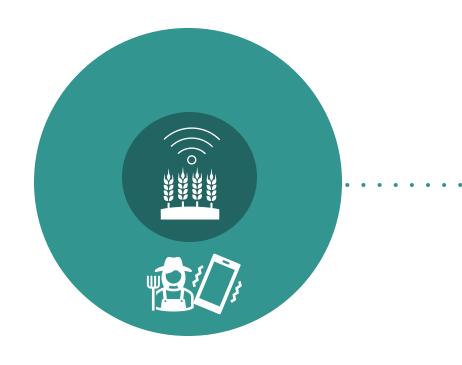
To make farming more precise, automated and environmentally sustainable



Targeting especially small-scale and family farmers

## Enhancing farmers' access to digital services

DVI focuses on 3 dimensions: the second aims at enhancing farmers' access to digital services for agriculture



**DIGITAL SERVICES** 



Enhancing farmers' access to services via ICT and digital means



Advisory and extension services, knowledge, financial and insurance, market access



Traditional media (TV, radio), SMS



Web platforms, messengers, mobile apps, ecommerce, social media



## Improving rural livelihoods

DVI focuses on 3 dimensions: the third aims at achieving a holistic digital transformation also outside agriculture





Enhance delivery of public services in agriculture and other sectors, such as tourism, education and energy



Developing capacities and digital skills at all levels



Stimulate innovation across the entire rural community

RURAL LIVELIHOODS

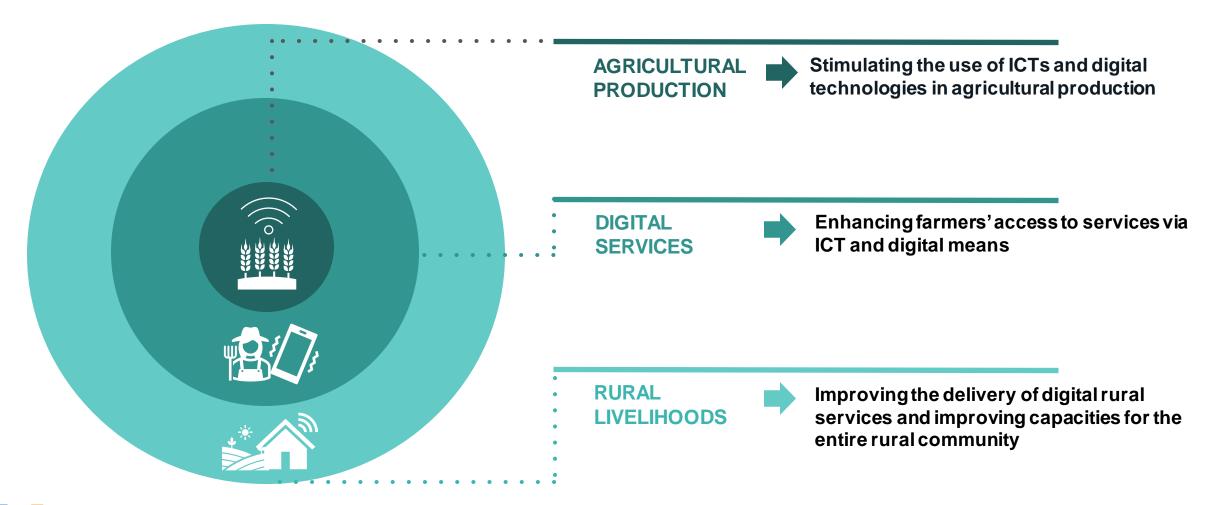


Improving the delivery of digital rural services and improving capacities for the entire rural community



## Achieving a holistic digital rural transformation

Empowering rural communities through digital innovation across 3 different dimensions





## Technology empowering people

Digital Villages are rural communities able to harness the power of digital technologies, innovations, knowledge and partnerships



To empower every village and rural community in Europe and Central Asia, to build on local strengths to make smart use of digital technologies to improve agricultural productivity, enhance rural livelihoods, in full respect of the environment.











#### People-centric

Participatory and inclusive approaches to ensure that DVI interventions respond to local needs and are co-created with the community

#### **Smart**

Are smart players in their own digital transformation journey and make smart use of innovative technologies

#### Green

Aim to transform themselves into green, resourceefficient villages, applying the principles of the circular economy

#### Connected

Use new
technologies to
connect with markets,
information, training
and economic
opportunities, and
networks

#### Interconnected

Benefit from cooperation and twinning partnerships with other communities, local actors and internationally

Leaving no one behind





## **DVI** twinning

Digital Villages benefit from cooperation and alliances with other rural communities and actors locally and internationally

#### **DVI** twinning









Hand-in-hand approach

**Exchange of good** practices and technology transfer

**Matchmaking** between villages and institutions

Longstanding collaboration and partnership





Partnerships to promote knowledge exchange, technology transfer between partners and sustainable community development



Bringing together the right partners whose interests match is one of the key factors of successful twinning partnerships

An approach to establish long-lasting formal cooperation between villages and institutions

A robust partnershipbuilding approach to accelerate the transformation of agrifood systems



DIGITAL VILLAGES IN ACTION **Europe and Central Asia** 

## DVI Readiness Assessment



17 questions across 3 dimensions and 9 enabling factors



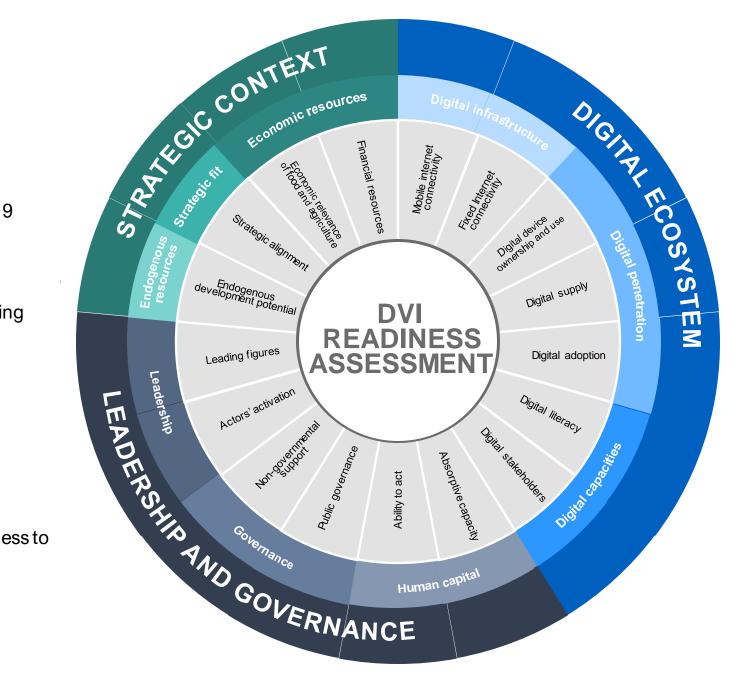
Evaluator plays critical role in determining the score, based on its analyses and interviews



Quantitative score complemented by qualitative score



Final score to determine level of readiness to undergo DVI transformation process





## Digital Ecosystem



#### **DIGITAL INFRASTRUCTURE**

- Mobile internet connectivity
- Fixed internet connectivity



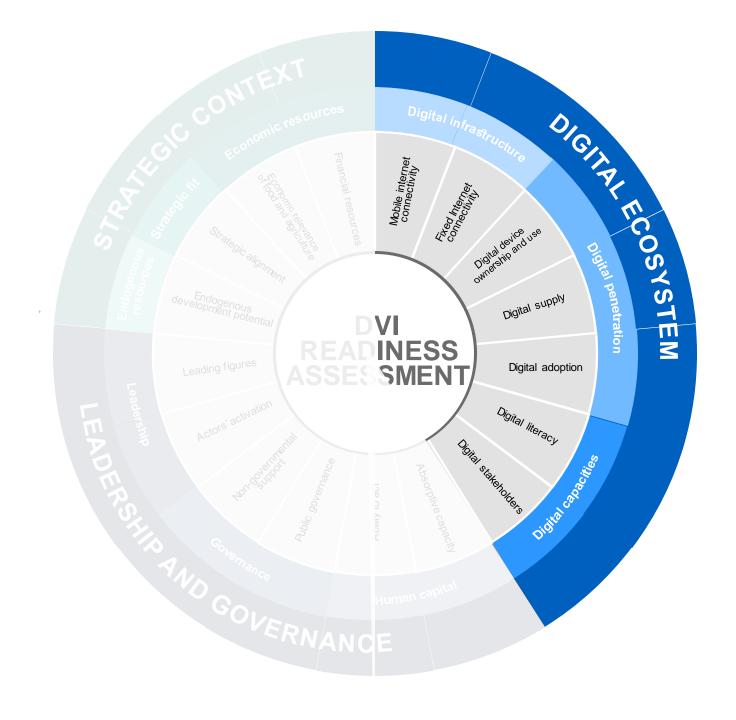
#### **DIGITAL PENETRATION**

- Digital device ownership and use
- Digital supply
- Digital adoption



#### **DIGITAL CAPACITIES**

- Digital literacy
- Digital stakeholders





# Leadership & Governance



#### **HUMAN CAPITAL**

- Absorptive capacity
- Ability to act



#### **GOVERNANCE**

- Public governance
- Non-governmental support



#### **LEADERSHIP**

- Leading figures
- Actors' activation





## Strategic context



#### **ENDOGENOUS RESOURCES**

Endogenous resources



#### STRATEGIC FIT

Strategic alignment



#### **ECONOMIC RESOURCES**

- Economic relevance of agriculture
- Financial resources





#### 18 May 2023 | LAUNCH EVENT

DVI Readiness Levels



These villages classify as strong or very strong in most of the criteria. Their digital rural transformation should focus on ongoing process improvement and on sharing good practices with others.



These villages have already made some progress in their digital rural transformation journey. Challenges are understood and actions are identified in response to specific needs. In addition, digital solutions and services may already be adopted, with opportunities to scale their uptake, including to vulnerable groups.



These villages are at the beginning of their digital rural transformation journey. While showing progress in certain areas, further development is needed in instituting a responsive digital rural transformation.

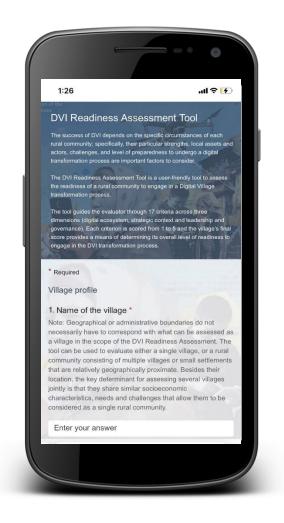


Key enabling conditions are weak as these villages are still at the very beginning of their digital rural transformation journey. They may lack the necessary digital infrastructure or leadership structures, and overall have a weak resource base.



DIGITAL VILLAGES IN ACTION
Europe and Central Asia

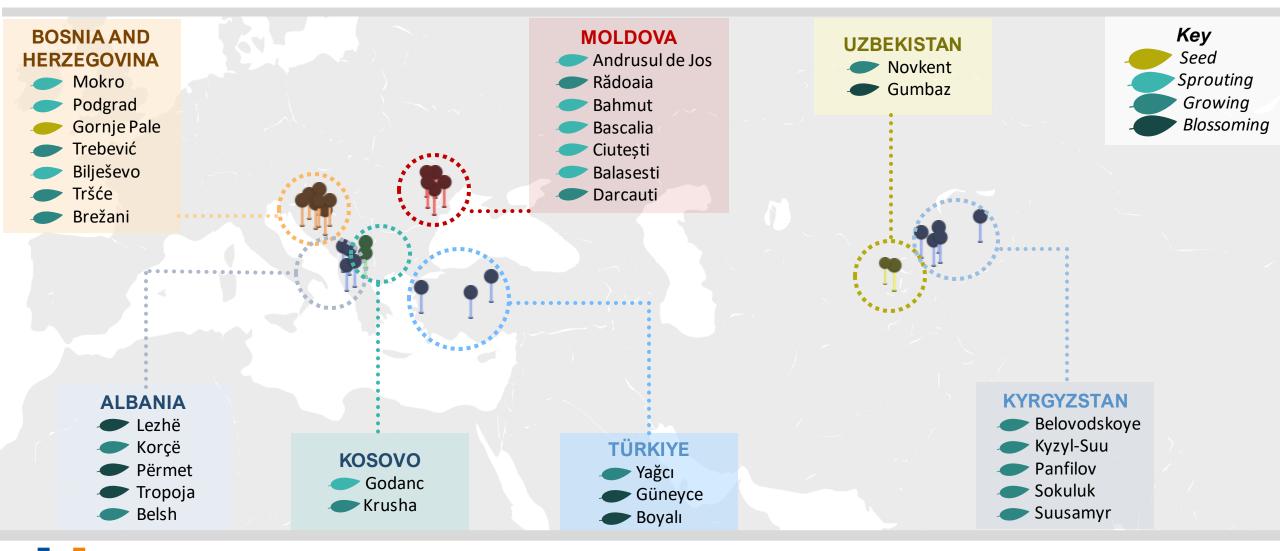
## Try the DVI Readiness Assessment tool





https://forms.office.com/e/a9hrpyTGix

# Villages assessed through DVI Readiness Tool

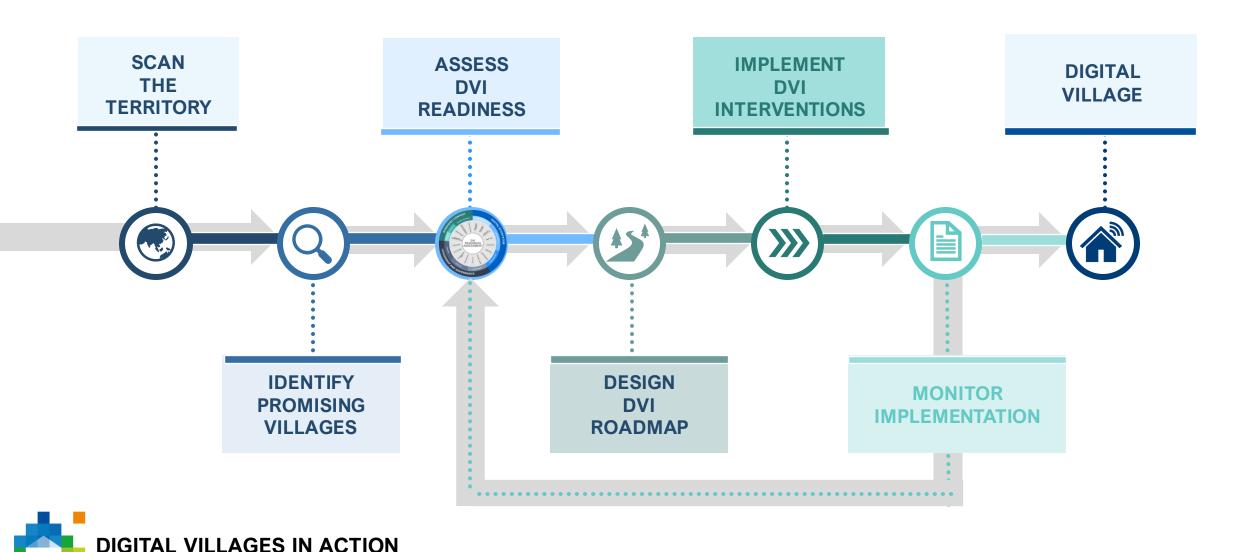


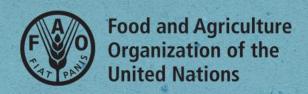


## **DVI** in Action

**Europe and Central Asia** 

While there is no single pathway to Digital Villages, a step-by-step approach can guide the process





# Session 1 Azerbaijan and Central Asia DVI COUNTRY EXPERIENCE



#### **Azerbaijan**

Mr **Elmaddin Namazov**, *Programme Coordinator, FAO Azerbaijan* 

#### **Kyrgyzstan**

Dr **Kanat Sultanaliev**, Executive Director, Tian Shan Policy Center, American University of Central Asia

#### **Tajikistan**

Ms **Veronika Sherova**, *FAO Digital Agriculture Analyst* 

#### **Uzbekistan**

Mr Fenton Beed, Senior Agricultural Officer, FAO Plant Production and Protection
Ms Katerina Antanevich, FAO Digital
Agriculture Specialist and Sociologist (live from Novkent village)



## Digitalization and green growth as key priorities

Digitalization and green growth are the key priorities of the country's pathway towards socio-economic development



From 2022 to 2026, the central objective of the socio-economic development strategy is to emphasize the significance of **digitalization in various sectors** and drive the **promotion of digital transformation**.







Establishing a development equilibrium between rural and urban regions through the implementation of digital technologies

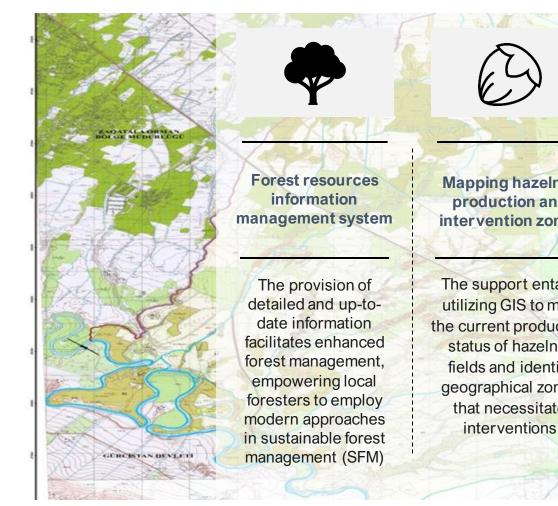
Enhancing the human capital relevant to digital technologies and nurturing the potential for low-contact economic sectors, considering prospects and advancements in digital applications

framework to expand the scope and potential of digital technologies, facilitating their widespread adoption and utilization

Leveraging digitalization as a catalyst for progress

## FAO's support leverages geospatial technologies

FAO supported Azerbaijan with the development of several geospatial-based information management systems



Mapping hazelnut production and intervention zones

The support entails utilizing GIS to map the current production status of hazelnut fields and identify geographical zones that necessitate



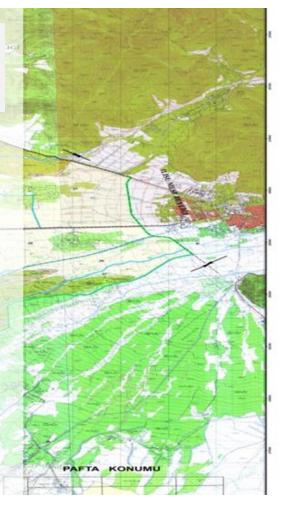
**Land degradation** neutrality decision support tool

Improving land management by offering comprehensive and up-to-date information to address land degradation and support the government's land degradation neutrality initiative



Locust population management

Developing a geospatial data collection system to effectively manage locust populations by leveraging modern geospatial technologies that enable precise and timely data collection and analysis





## An integrated community development approach

FAO is providing technical assistance to implement the "Smart Village" concept with an integrated community development approach







**Digital services** 



**Employment** 



**Green energy** 



#### Community dev. plan

Development of a
Community
Development Plan
(CDP) with the strong
involvement of the
community and local
stakeholders



#### **Smart demo farm**

Use of smart technologies in agriculture as a value added. A farm equipped with digital technologies based on community needs.



#### **Capacity development**

On a variety of thematic areas, from digital agriculture to climate smart technology and practices; land conservation, GAPs, etc.



#### **Best practices**

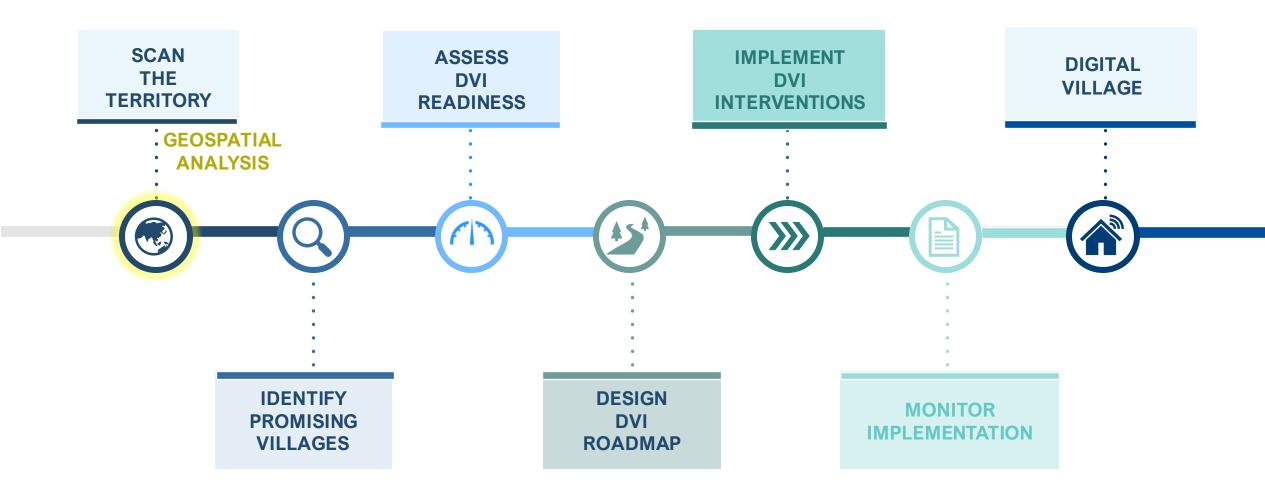
Transferring
international smart
village best practices
and establishing
linkages and networks
with international
practitioners.

In a highly participatory and inclusive manner aimed at addressing several problems in a coordinated and coherent way leaving no one behind



## Scanning the territory in Kyrgyzstan

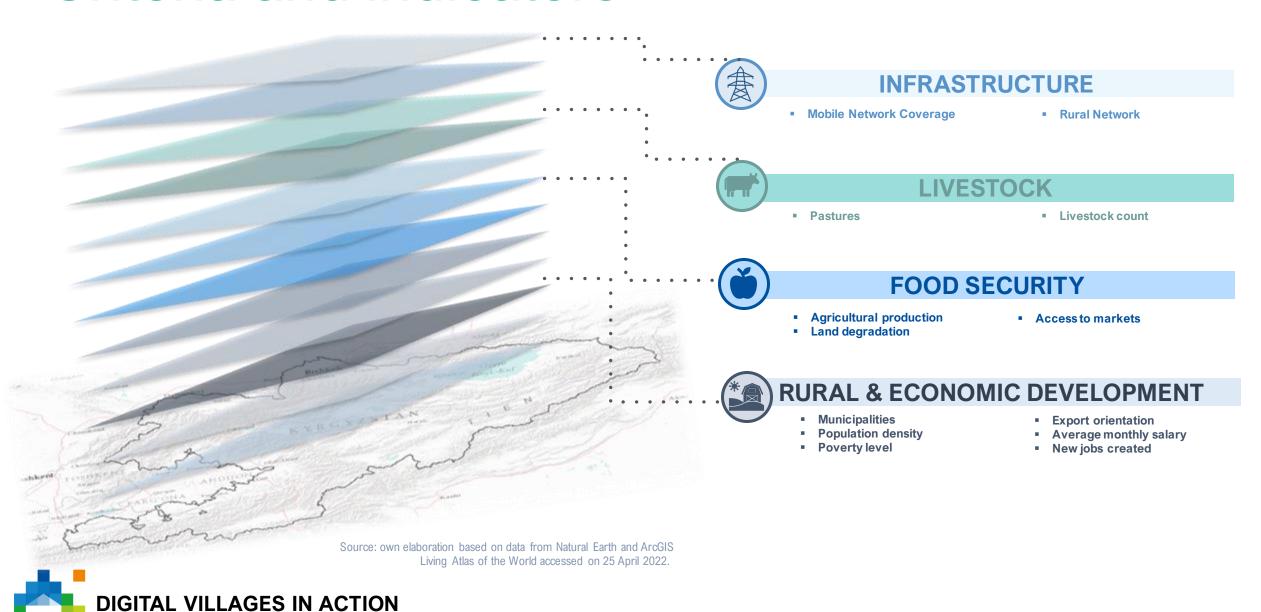
Application of geospatially-referenced criteria and indicators to identify potential Digital Villages



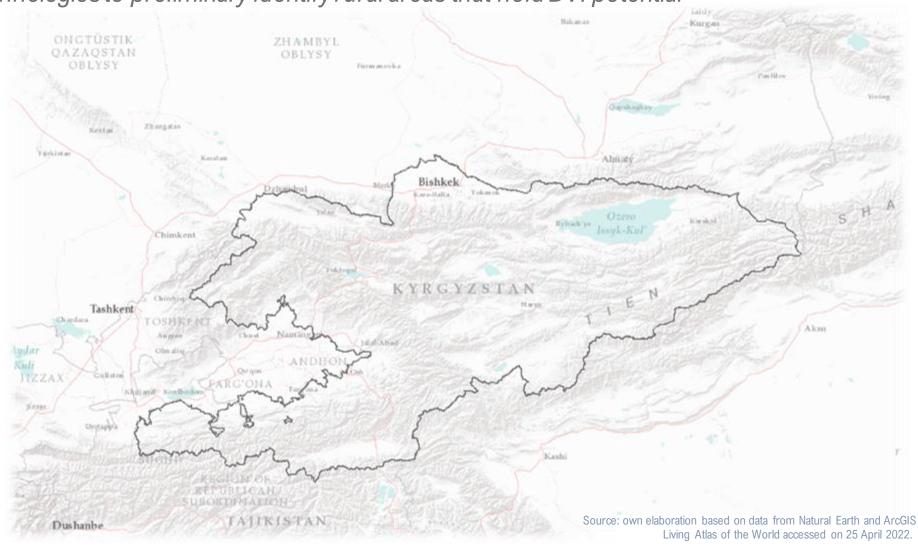


## Criteria and indicators

**Europe and Central Asia** 

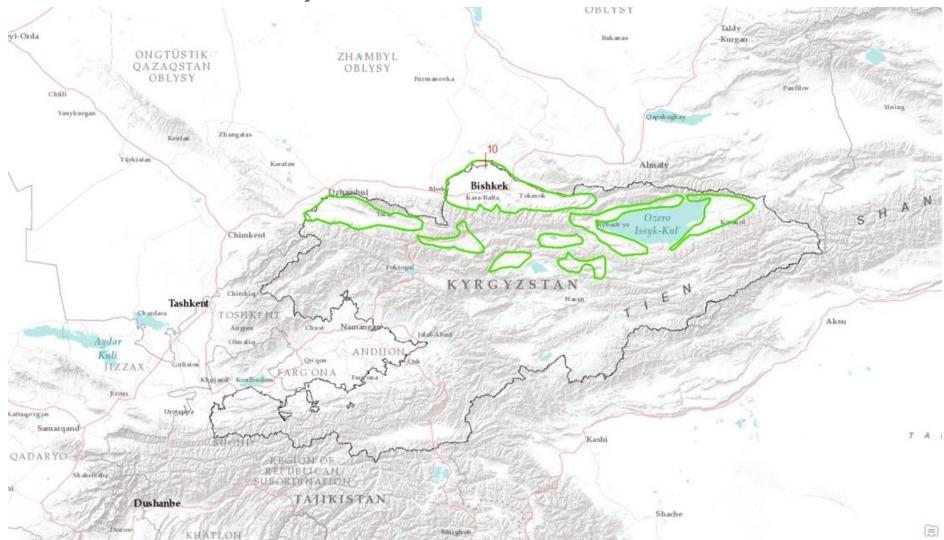


Applying geospatial technologies to preliminary identify rural areas that hold DVI potential



Mobile internet coverage is a crucial indicator to identify candidate areas for DVI

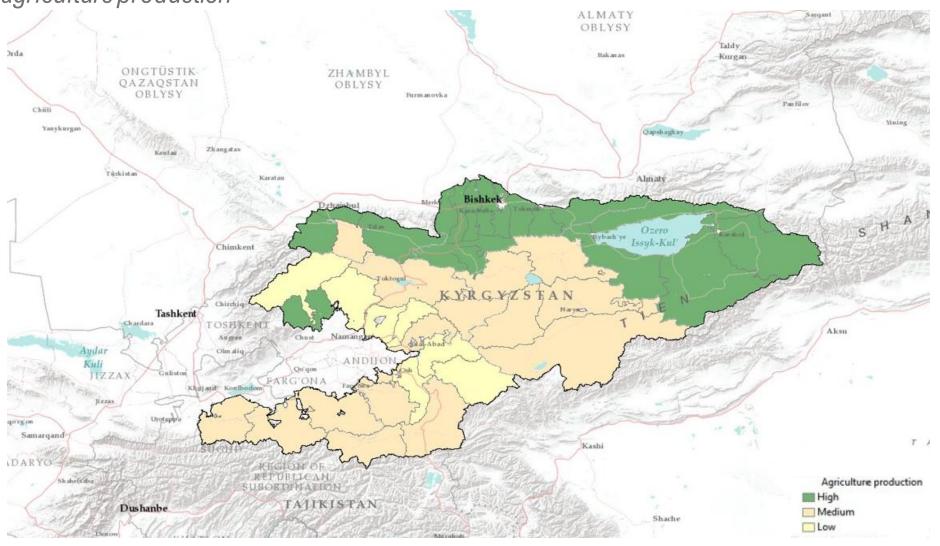
4G Mobile coverage



Areas with prevalence of agriculture production

Mobile coverage

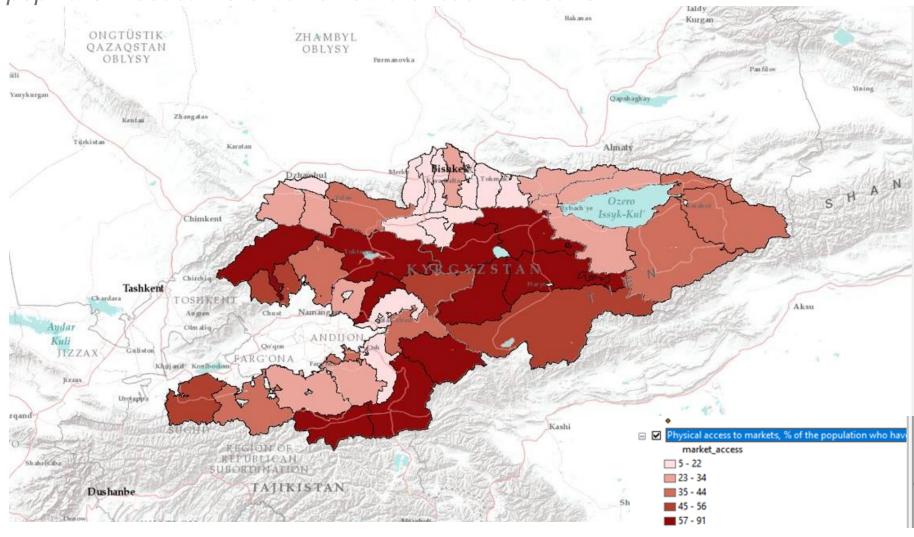
**Agriculture production** 





# GIS-based country scanning in Kyrgyzstan Access to markets: % of population needed more than 3 hours to reach nearest town

**Access to markets** 





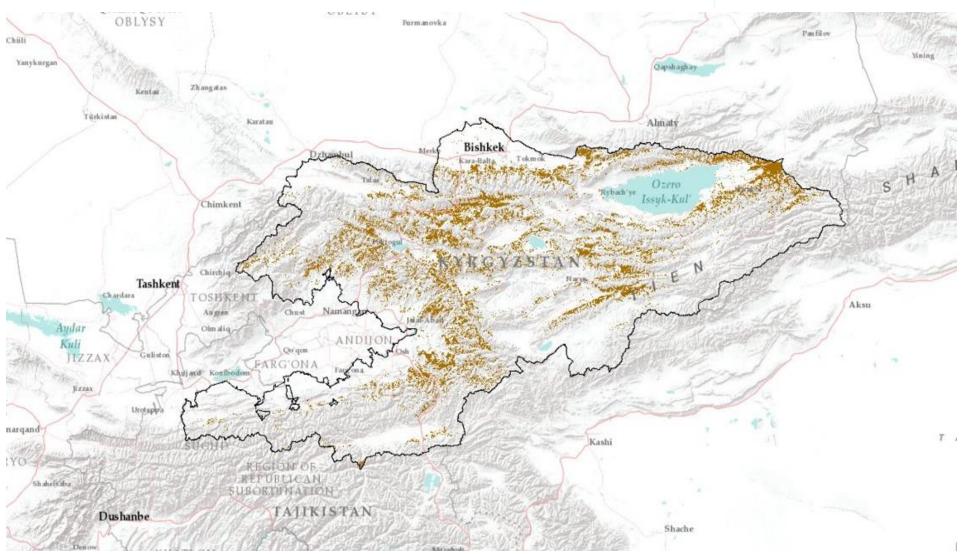
**Pastures** 

Mobile coverage

**Agriculture production** 

**Access to markets** 

**Pastures** 





Source: own elaboration based on data from Natural Earth and ArcGIS Living Atlas of the World accessed on 25 April 2022.

Land degradation

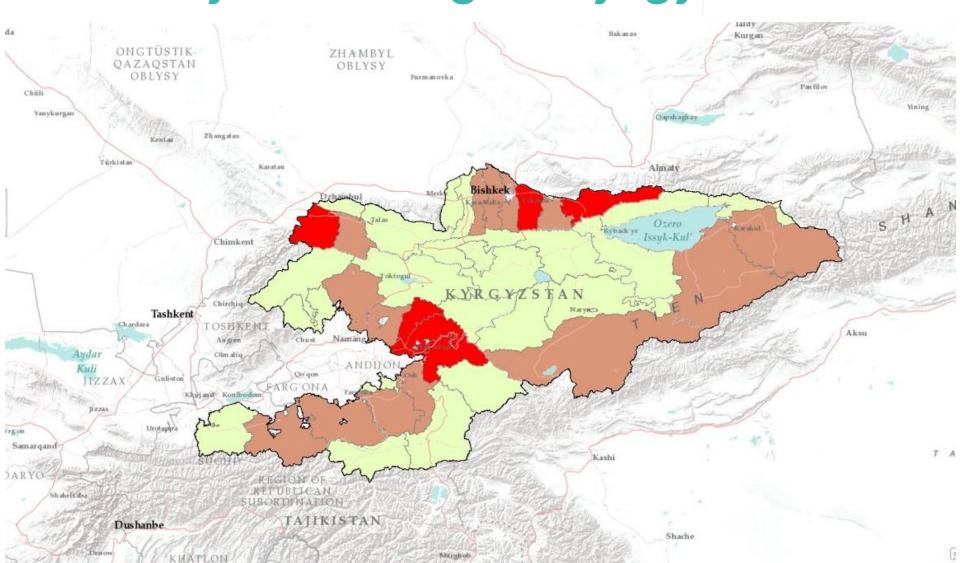
Mobile coverage

**Agriculture production** 

**Access to markets** 

**Pastures** 

**Land degradation** 





Source: own elaboration based on data from Natural Earth and ArcGIS Living Atlas of the World accessed on 25 April 2022.

Municipality level analysis

Mobile coverage

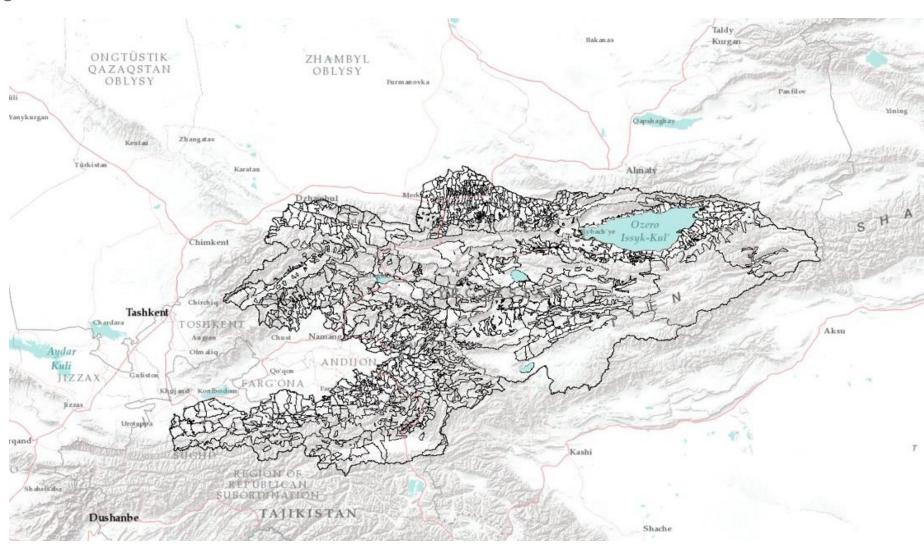
Agriculture production

Access to markets

**Pastures** 

Land degradation

**Municipalities** 

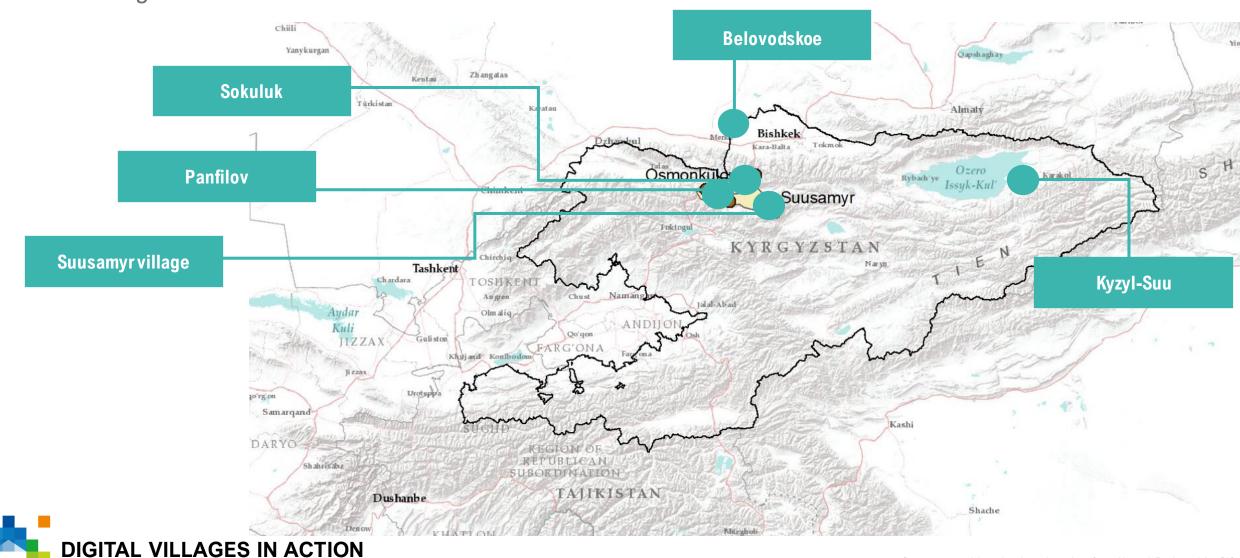




Source: own elaboration based on data from Natural Earth and ArcGIS Living Atlas of the World accessed on 25 April 2022.

Identified regions and rural communities

**Europe and Central Asia** 

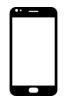




# Context and challenges in Tajikistan











Predominantly rural population heavily dependent on agriculture

Disaster-prone country, significantly suffering from climate change

Limited access to technology and low ownership of digital devices Insufficient infrastructure, including electricity, mobile network and internet penetration

Low digital literacy among rural population and turnover of qualified personnel in the government



By 2030, the development of digital agriculture in Tajikistan will empower every jamoat, every village, every farmer and all people living in rural areas, women and men, to achieve a more sustainable agricultural production and competitiveness, enhance food security and safety, using resources more sustainably and building resilience to climate change

**Stronger institutions** 

**Physical infrastructure** 

**Knowledge transfer** 

**Enhance food security** 

Modernize the food safety system

**Efficient functioning of value chains** 

Tajikistan's agricultural priorities

Developing the foundations for digital agriculture

Harnessing data and building e-government systems for agriculture

Advancing agricultural knowledge, skills and innovation

Growing a market ecosystem



### Infrastructure developed

Rural connectivity Electrifying rural areas Infrastructure for agriculture



### Data

Data integration Data-based decision making



### **Awareness & Digital** skills

Digital campaign Digital skills: public sector







### Innovation, academia, research & development

Demo farms University programme Research & development Innovation



### **Existing solutions** support



### Increase farm productivity

Knowledge & advisory Smart farming Farm management



### **Enhance access to** markets and finance



### **Digital** Villages



### Regulatory reforms in place

Governance Incentives Data protection and cybersecurity



### eGovernment **Systems**

Architecture Registries Market &Trade Better production Weather & Water Disaster risk management

# Entry points for DVI in Tajikistan



Early warnings and agromet advice to farmers



Agritourism and digital marketing in agricultural heritage communities





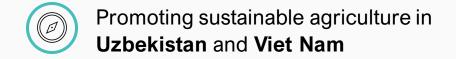
Smart farming in greenhouses using low-cost sensors assembled with communities

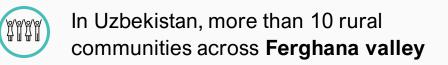


# Smart farming for the future generations

Empowering small-scale farmers and rural communities with affordable and adaptable technologies and practices







Yields increased by 90-140 percent depending on the crop





# Open-source IoT smart devices

Simple and affordable connected sensors to gather environmental parameters and send them to farmers' phones





# Open-source hardware

A device that is relatively easier to program and customize because all hardware specifications are openly available



Internet-ofthings

Enables to create a network of interconnected devices, sensors and systems allowing for remote monitoring



# **Remote** Sensing

Connected sensors allow to control of environmental parameters on the temperature, humidity, light and soil moisture in the greenhouse



# Farmers' phones

Farmers receive the information through a mobile interface, which also sends a notification and alerts in case certain parameters are reached



# Smart farming for the future generations

Empowering small-scale farmers and rural communities with affordable and adaptable technologies and practices

### **SMART FARMING**

Simple, yet innovative, technologies and practices to increase farming efficiency in an affordable and clever way, without necessarily relying on the latest technology







**Agricultural** production

Post-harvest, safety & marketing Capacity building





Improving greenhouse structures, drip irrigation systems, bumblebees for pollination, efficient use of inputs and pesticides

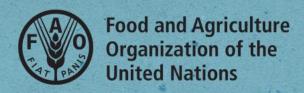


Enhancing post-harvest skills, infrastructure, and food safety practices, leading to improved marketing opportunities



Continuous training for farmers and their neighbours across over 10 villages of Fergana valley to foster knowledge transfer





# Session 2 Western Balkans, Georgia and Türkiye

### **DVI COUNTRY EXPERIENCE**



### **Albania**

Ms Barbara Battioni Romanelli UN Fellow, FAO Albania

### **Bosnia and Herzegovina**

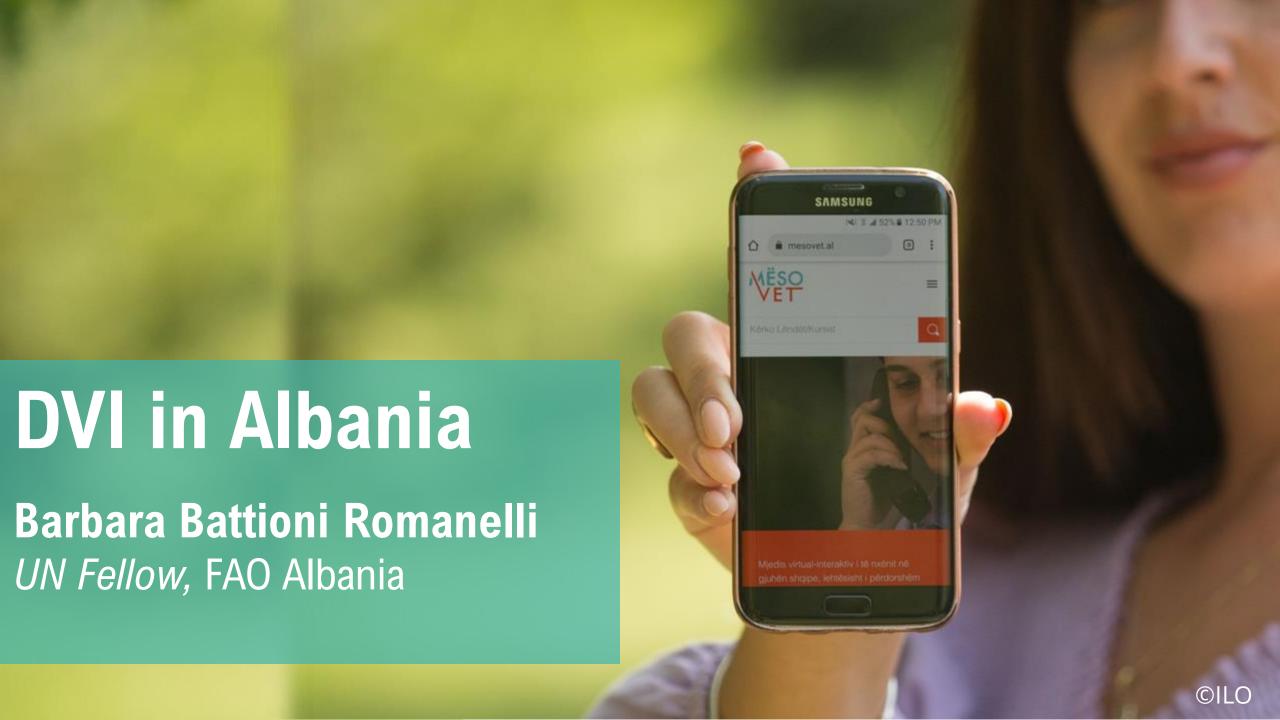
Dr **Grujica Vico** FAO Digital Villages Specialist

### Georgia

Mr **Dragan Angelovski** FAO Technical Adviser

### Türkiye

Mr Frank Hollinger FAO Senior Rural Finance Officer



# DVI-approach pilots in 4 villages



# Precision agriculture

Farmers and extensionists trained on precision agriculture technologies (face-to-face VET training) in partnership with ILO



# Online training

Blended training approach: face-to-face training complemented with online training through "mesovet" online platform and mobile app



### **Agritourism**

Couple with agritourism capacity development to strengthen value chains, increase competitiveness and provide income diversification opportunities

In Përmet, to increase availability of digital soil data to improve data-base decision making for small-scale farmers; the first of its kind in Albania

# Digital soil maps



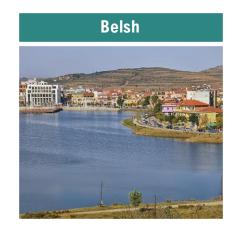


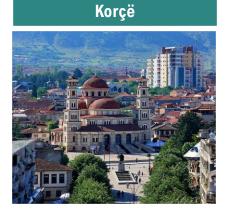
Source: own elaboration, based on UN Geospatial, accessed in May 2023

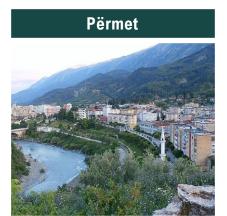


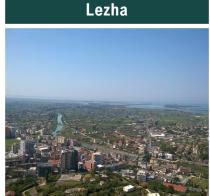
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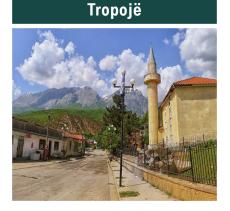
### **DVI** Readiness Assessment











From top left to bottom right: ©Pasztilla aka Attila Terbócs, CC BY-SA 4.0; ©Pasztilla aka Attila Terbócs, CC BY-SA 4.0; ©Thanas Todhe (Guri Q..., CC BY 3.0); ©2000 at Italian Wikipedia, CC BY-SA 4.0; ©Pasztilla aka Attila Terbócs, CC BY-SA 4.0



Source: own elaboration, based on UN Geospatial, accessed in May 2023



### DIGITAL VILLAGES IN ACTION Europe and Central Asia

# **DVI Twinning pilot**

A twinning pilot exercise between Përmet (Albania) and Lormes (Smart Village of France)



### **DVI Twinning**





Exchange of good practices and technology transfer

Matchmaking between villages and institutions

Longstanding collaboration and partnership





Lormes exchanged good practices on how to engage with the community to co-create digital services, deliver fibre-optic internet in every street and create a digital fab-lab

Lormes and Përmet are similar in size and have a shared internet in promoting agritourism by offering digital experiences to visitors









# Tropojë: Albania's DVI in Action

Tropojë was selected as Albania's DVI in action under the FAO technical cooperation programme



# Digital marketing for agritourism

Develop capacities in the community to promote their touristic and culinary attractions through social media and digital marketing



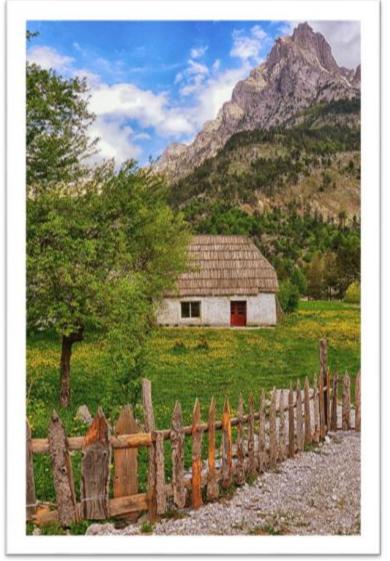
# Chestnut value chain traceability

QR codes or blockchain could trace products and producers, increasing the transparency and quality of chestnuts and potentially leading to GIs

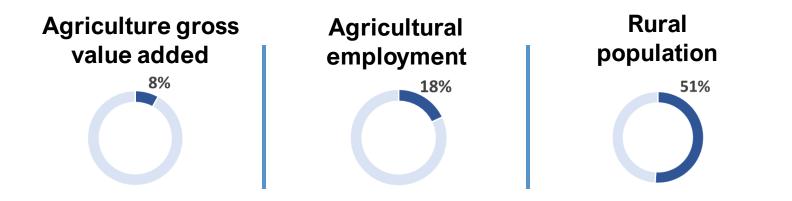


# Better connecting producers

Digital platforms can better connect producers with buyers and suppliers, shortening the value chain and leading to increased efficiencies



# State of digital agriculture in Bosnia and Herzegovina



### **DIGITAL DEVELOPMENT**

Early stages



Agricultural digitalization index



ITU ICT develop.



### **BARRIERS**



infrastructure

Skills & knowledge



Investment power

Support





# E-agriculture strategy in Bosnia and Herzegovina



**STRATEGIC VISION**: By 2027, Bosnia and Herzegovina will have complied with all requirements regarding the European Union accession process in terms of digitalization of agriculture to ensure a higher level of productivity and efficiency in agriculture











Accelerating
digital
transformation
of agriculture in
the public
sector

Improving
digital
infrastructure
in rural areas

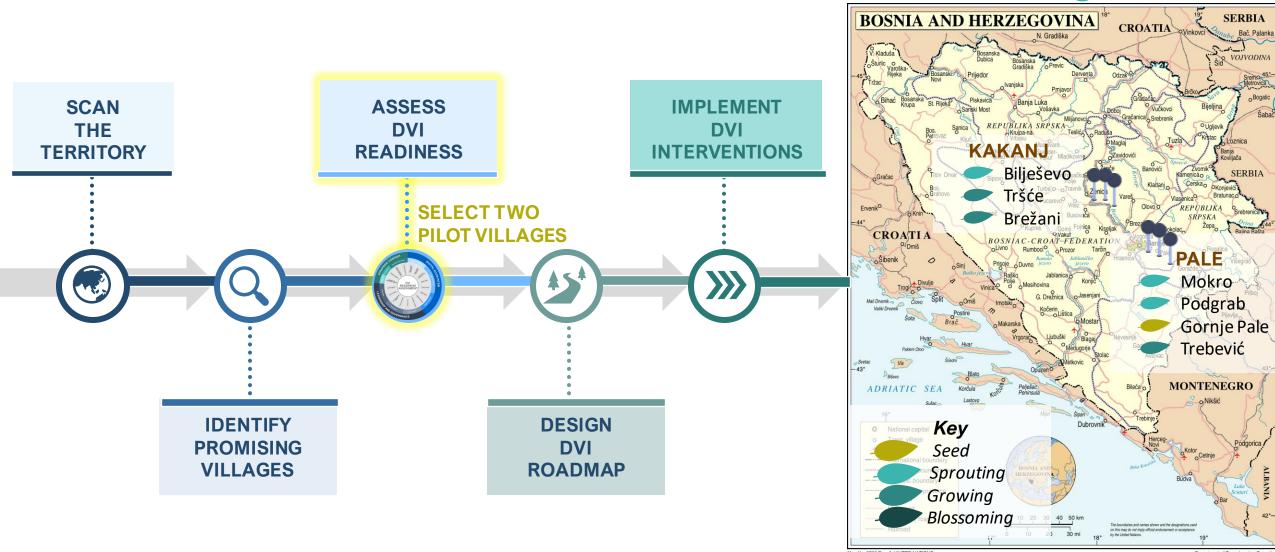
of ICT solutions at farm level

Development of institutional and individual capacities on digital agriculture

Raising
awareness on
the benefits of
implementing
ICT solutions in
agriculture

25 practical actions for implementation

### DVI Readiness Assessment in Bosnia and Herzegovina



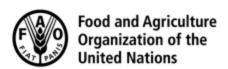


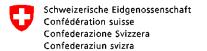


# Tracing animals with NAITS

National animal identification, registration and traceability system

of the Food Agency of Georgia





Swiss Cooperation Office South Caucasus

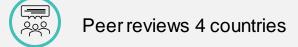




1,8 million USD



Experience and expertise from 9 countries



Albania, Bulgaria, France, Austria, Lithuania, North Macedonia, Serbia, Switzerland, Zimbabwe



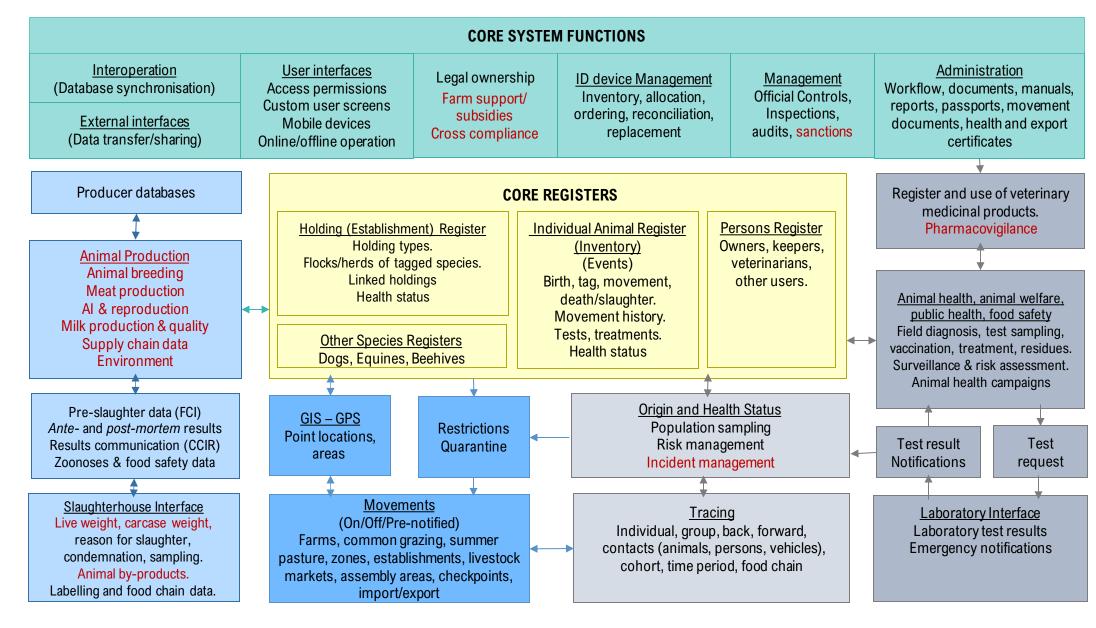


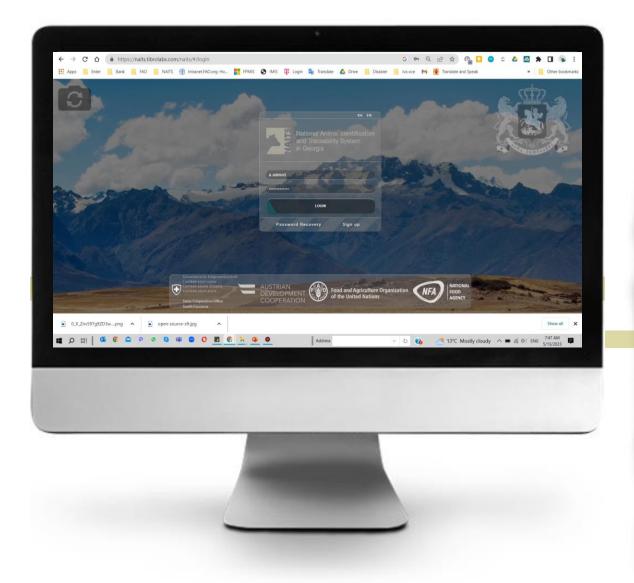






# Reference model for a multi-species NAITS





# **Platforms**





Multilanguage support + Google Translate



Dynamic browser design



3 environments (development, test, production)



Access to 12 types of external stakeholders

# Technology stack







# NAITS as a global digital public good

NAITS is being transferred to 8 countries worldwide at a marginal cost of its original cost





**Transfer cost:** 20k-100k USD



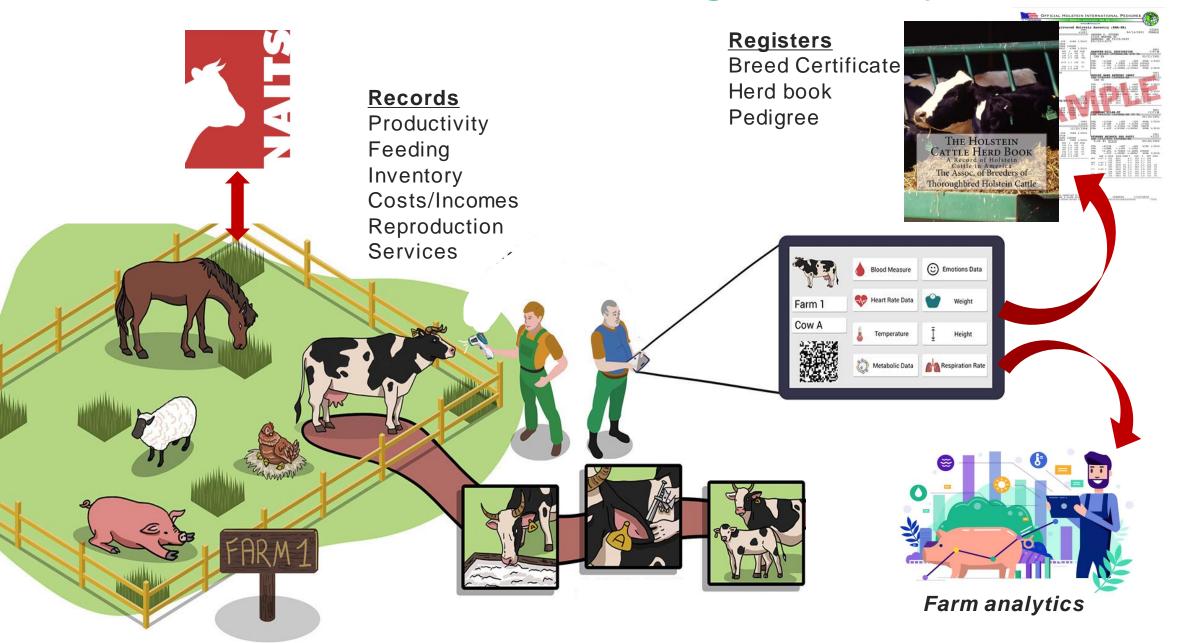
**Maintenance cost:** 180-2k USD/month







# From NAITS to a farm management system





# FAO digital agriculture projects in Türkiye

FAO has supported Türkiye in the field of digital agricultural technologies in various ways, including:



National E-agriculture strategy (2021)

With the 'Support to Develop National E-Agriculture Strategy' project, a national eagriculture strategy and vision was elaborated by the Ministry of Agriculture and Forestry with the support of FAO.



Dissemination and adoption of digital technologies (2022)

Contribute to the design of activities to support the dissemination and adoption of digital technologies under the TUCSAP project funded by the World Bank (effective in 2022)



FAO-EBRD Review on the state of digital technologies (forthcoming)

The study identifies the main technologies currently used, including the most prominent use cases, users and adoption levels, drivers for and barriers to adoption, issues as challenges in practice.



Women e-commerce cooperatives (2022)

Women cooperatives from 10 provinces operate under the brand name "Hep Yerinden" and work together to establish a permanent market in the digital world, developing common strategies.



Digital Villages Initiative (starting)

With the regional technical cooperation programme "DVI in Action", FAO will provide technical assistance to develop a pilot digital village in Türkiye. Three villages have been assessed so far.

# A growing sector facing numerous challenges

Availability of digital technologies and solutions in agriculture are growing quickly but uptake is still limited







**Technologies** 











Including service providers and distribution models; ranging from remote sending-based services to internet-of-things devices, artificial intelligence, etc.

Application of digital technologies span several use cases: early warning, crop monitoring, remote advisory, traceability, ecommerce, etc.

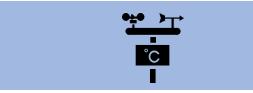
Users are mainly large farmers and agribusiness as "technology brokers"; several examples of multi-farm use of internet to DVI



From top left to bottom right: ©Engr Fahad; ©Metos\_IBERIA; ©meteoblue

# Multi-farm use covering smallholder farmers

An example of multi-farm use covering smallholder farmers



### **Digital weather stations**

Early warning systems and remote farm advisory services

Kemalpasa Chamber of Agriculture Cherry growers Manissa MOAF Grape growers

Improved timing of agronomic practices Reduced pesticide applications (up to 30%)



### **Digital insect traps**

Early warning and remote monitoring

Provincial Directorates of MOAF Large cooperatives

Reduction of pesticide application



### Soil moisture sensors

Smart irrigation in orchards

Medium and large orchard growers

Reduction of water consumption and energy use (up to 30%)



# Challenges and opportunities for DVI

There are several challenges and opportunities for DVI implementation in Türkiye



Need for training and capacity development at all levels



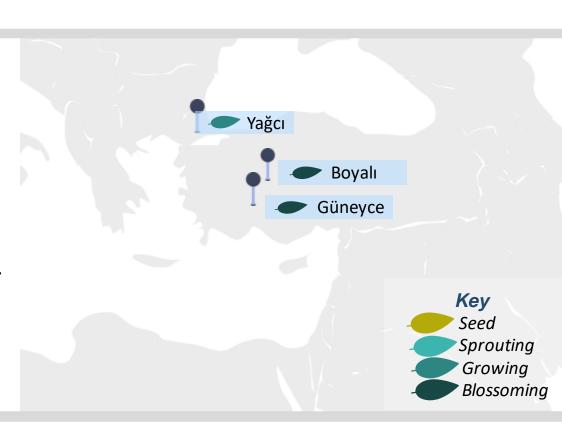
Develop viable business models for AgTech providers (tech sharing, service provider models)



Evidence on drivers and constraints to adoption, costbenefit for different users under different conditions



Innovations for downscaling of technologies





### 18 May 2023 | LAUNCH EVENT

https://www.fao.org/digital-villages-initiative/europe/



Discover ~



### Digital Villages Initiative in Europe and Central Asia

#### Featured Stories



^ dvanced weather data for allholders in Tajikistan

Farmers in Tajikistan are benefiting from weather stations gathering important climate data and producing advanced agrometeorological information for...



Smartphones are boosting gender equality in Georgia

07/03/2023

The use of social media is transforming people's lives, including in small villages like Malika's. By communicating through social media and messaging...



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#### Smart fa mir 20/10/2022

Raising greenho new level with t high-quality ser source technolo phone interface

#### Related links

- math Regional Digital Agriculture
- FAO Regional Technical Platform on Green Agriculture
- ## FAO Digital Agriculture
- @ e-Ag Community of Practice
- ## FAO Digital Services Portfolio
- ## FAO Office of Innovation
- ## FAO in Albania
- ## FAO in Azerbaijan
- ## FAO in Bosnia and Herzegovina
- # FAO in Georgia
- # FAO in Kyrgyzstan
- # FAO in Tajikistan
- # FAO in Türkiye
- ## FAO in Uzbekistan

#### Featured Videos



**Improving** traditional livelihoods with modern technology in Kazakhstan

In Kazakhstan, approximately 2 million families earn a living in the dairy sector, 80 percent of all milk in



Smartphones: A new agricultural tool for women in Georgia

Nestled in the vast plains of Georgia, in the shadows of the snow-covered mountains, Malika Machalikashvili's farm in Pankisi Gorge was once.



Street art promoting National Animal Identification and Traceability System

FAO in Georgia implements National Animal Identification and Traceability System (NAITS), funded by the Swiss



Vision for the Future: Transition to Digital Agriculture International Conference Azerbaijan

Organized by the Ministry of Agriculture of the Republic of

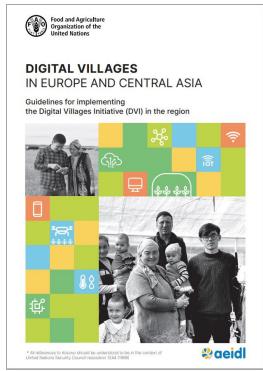




REU-Digital-Agriculture@fao.org

Stay tuned

# Coming soon!

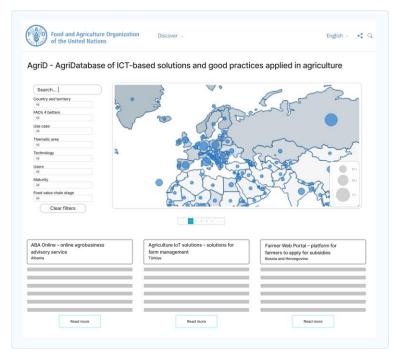


Guidelines for implementing the Digital Villages Initiative in Europe and Central Asia

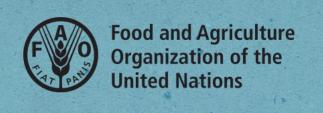
### **DVI Readiness Assessment Tool** on our website soon

https://forms.office.com/e/a9hrpyTGix





AgriD – agriDatabase of digital solutions and practices stemming from Europe and Central Asia





# Thank you!

