

Digital transformation based on ICT innovations for the development of the digital economy

Session 2: Approaches of the UN System to support digital transformation

15 December, 13:00-14:30 CET



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With the contribution of:





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Digital Transformation of Agriculture in Europe and Central Asia

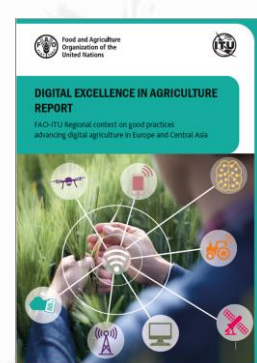
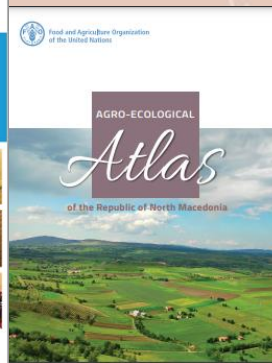
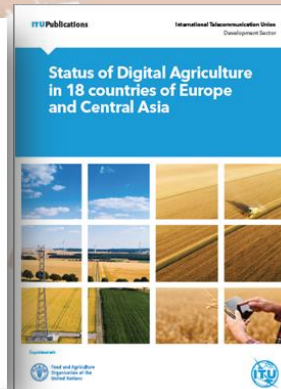
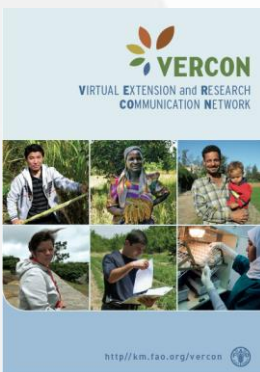
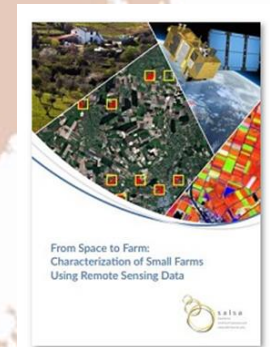
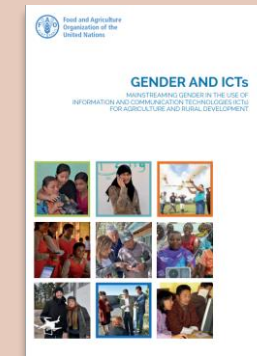
Sophie Treinen

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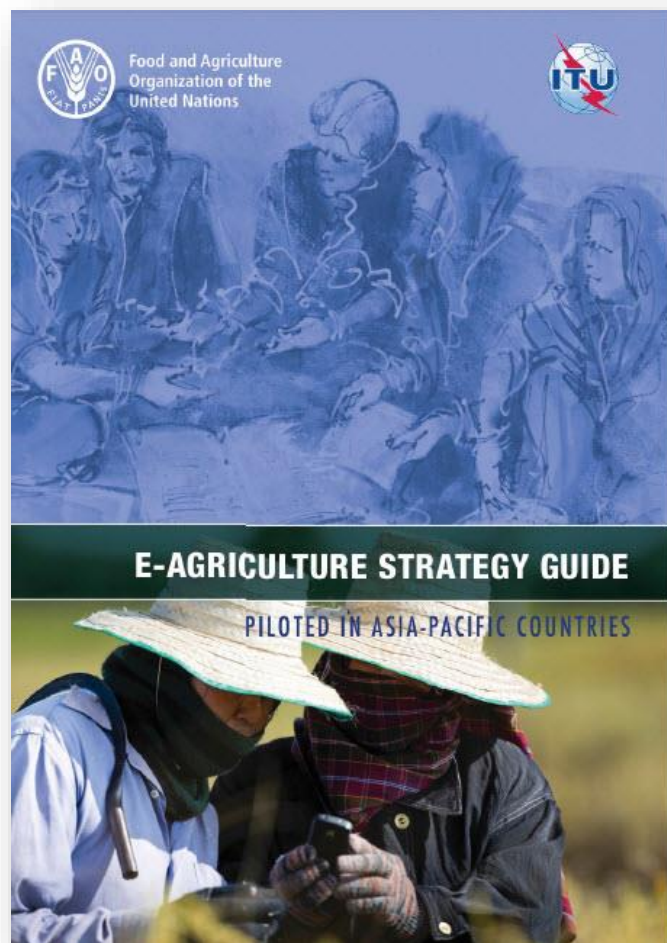
15 December 2021

Time line

- Started in 2009 with Virtual Extension Research Communication Networks
- Since 2015 - Regional events
- Since 2017 - National digital agriculture strategies
- Since 2020 - UN digital transformation group
- As from 2021 smart/digital villages



National digital frameworks



www.fao.org/3/i5564e/i5564e.pdf



www.fao.org/3/i9515ru/I9515RU.pdf

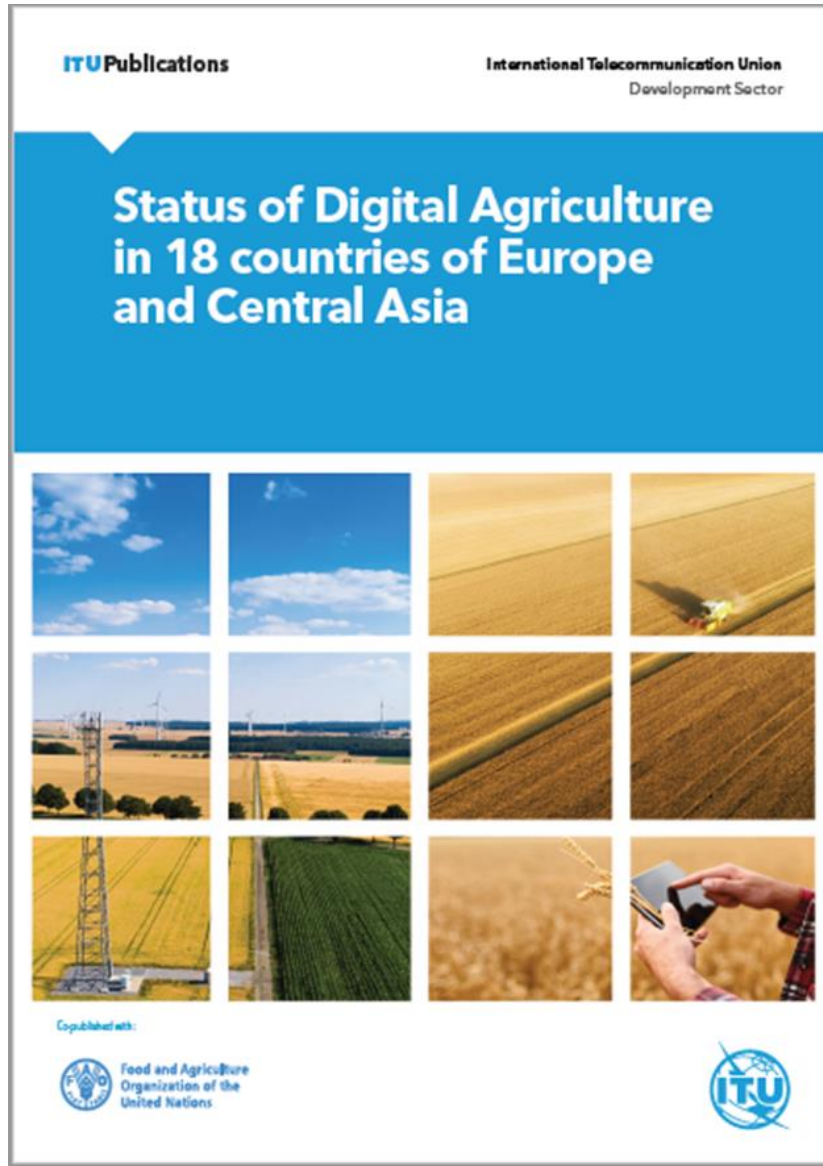


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Albania
Armenia
Bosnia-Herzegovina
Kazakhstan
Kyrgyzstan
Moldova
Turkey
Uzbekistan

From policies to ...



Albania

Armenia

Azerbaijan

Belarus

Bosnia & Herzegovina

Georgia

Kazakhstan

Kyrgyzstan

Moldova

Montenegro

North Macedonia

Russian Federation

Serbia

Tajikistan

Turkey

Turkmenistan

Ukraine

Uzbekistan

From policies to ... to good practices

Albania
Armenia
Azerbaijan
Belarus
Bosnia & Herzegovina
Georgia
Kazakhstan
Kyrgyzstan
Moldova
Montenegro
North Macedonia
Russian Federation
Serbia
Tajikistan
Turkey
Turkmenistan
Ukraine
Uzbekistan

Digital Excellence in Agriculture in Europe and Central Asia - Regional Contest



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From Europe and Central Asia

171 eligible practices



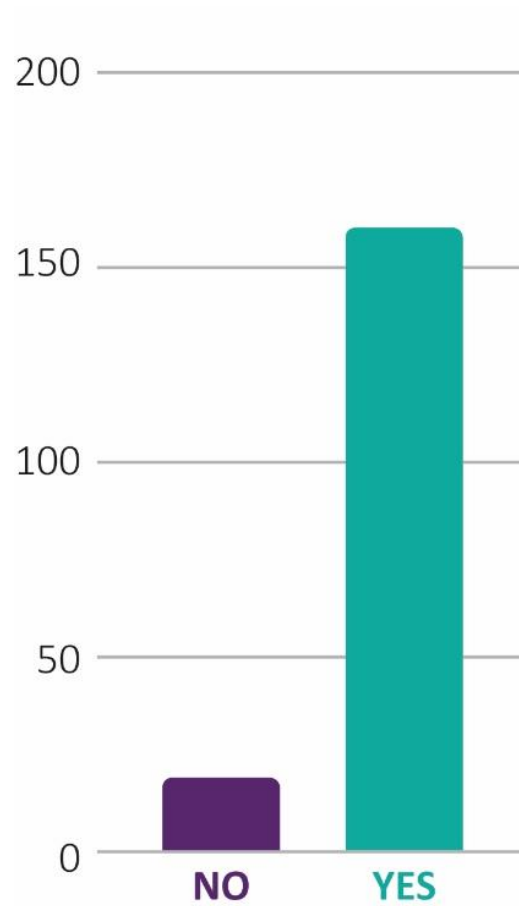
28 finalists



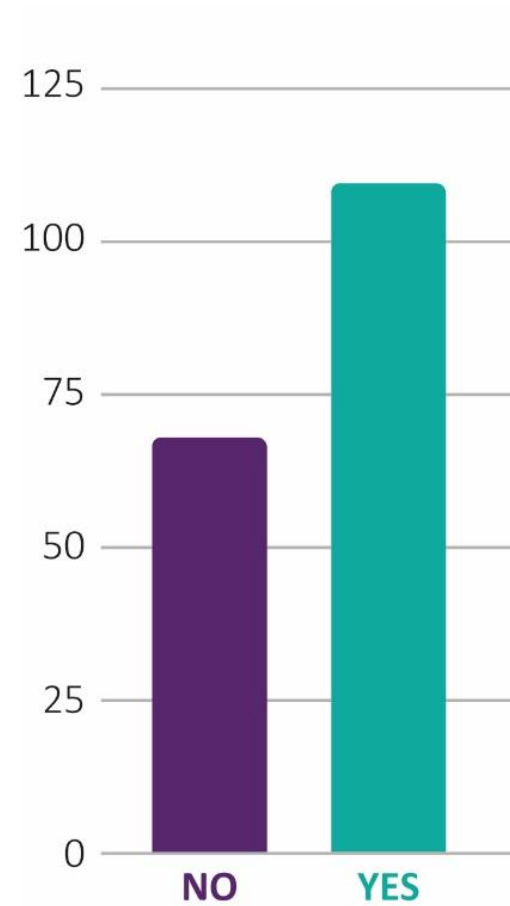
UN Geospatial. 2020. BNDA_CTY [Shapefile]. New York, USA, UN

Special attention

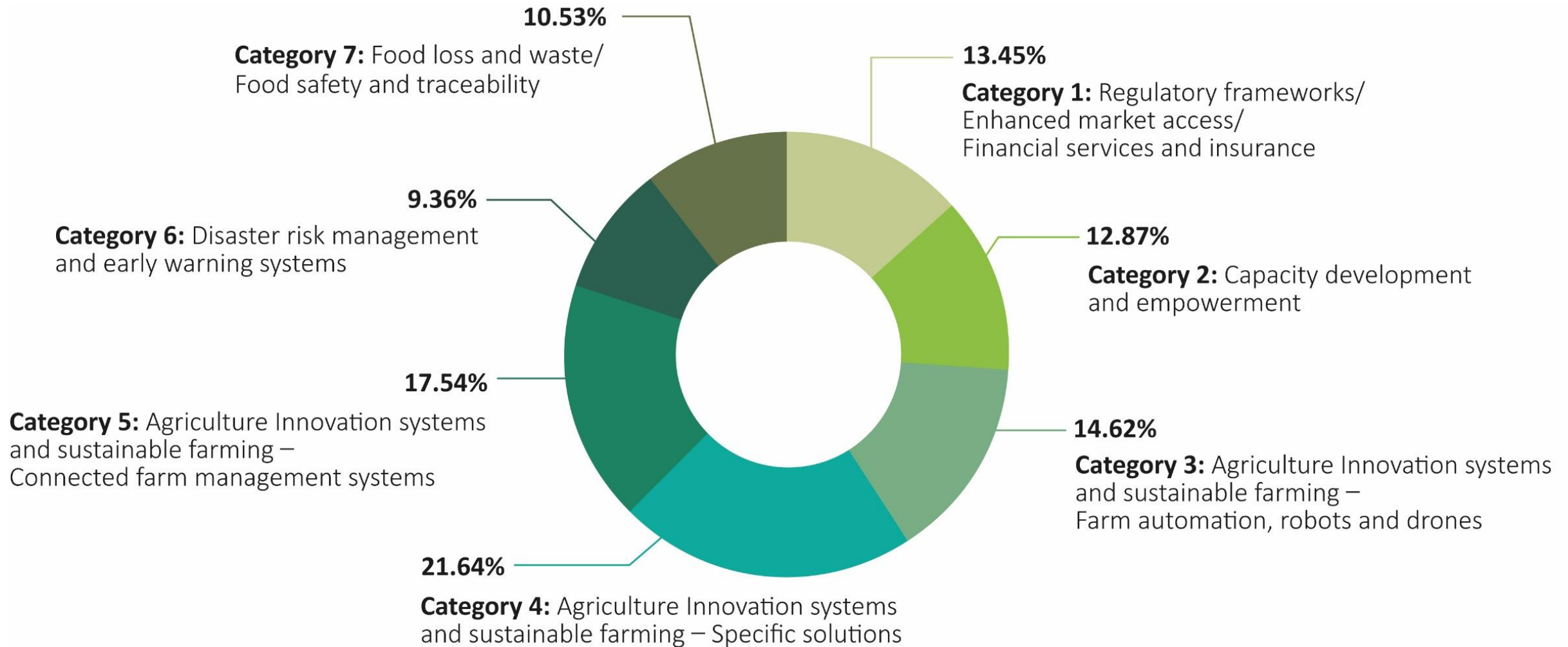
Smallholders target



Partnerships



Repartition per category of practice





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DIGITAL EXCELLENCE IN AGRICULTURE REPORT

FAO-ITU Regional contest on good practices
advancing digital agriculture in Europe and Central Asia



CATEGORY 1: Regulatory frameworks/Enhanced market access/

Financial services and insurance

WINNER: Straight from the Farm – Fresh.Land – *Denmark*

HONOURABLE MENTION: Local Food Nodes – Local Food Nodes Röstånga ek Förening – *Sweden*

HONOURABLE MENTION: Mobile application “NMA agro” – National Paying Agency under the Ministry of Agriculture of the *Republic of Lithuania*

CHAMPION: Integrated One Stop Shop for farmers to access finance, markets, inputs, and knowledge – Agrianalytica LLC – *Ukraine*

CATEGORY 2: Capacity development and empowerment

WINNER: Organic Farm Knowledge – Online platform to promote knowledge exchange among organic farmers and advisors – *Belgium*

HONOURABLE MENTION: Genpro – Ruralbit Lda – *Portugal*

HONOURABLE MENTION: Electronic agricultural maps – Agro InformAsia – *Kyrgyzstan*

CHAMPION: FarmForesight – FarmForesight – *Ukraine*

CATEGORY 3: Agriculture innovations systems and sustainable farming – Farm automation, robots, drones

WINNER: High-Precision Weed Control in Organic Farming – West Coast University of Applied Science – *Germany*

HONOURABLE MENTION: Intelligent watering taking advantage of the existing irrigation installation – BRIOAGRO TECH. – *Spain*

HONOURABLE MENTION: Bakus, full electric and autonomous vineyards robot – VitiBot – *France*

CHAMPION: Biological protection of plants by entomophages using unmanned aerial vehicles – LLC „Fly and See Agro” – *Russia*

CATEGORY 4: Agriculture innovations systems and sustainable farming – Specific solutions

WINNER: FINedap CowControl – Nedap Livestock Management – *Netherlands*

HONOURABLE MENTION: Apiary Book – Apiary Book Ltd. – *Romania*

HONOURABLE MENTION: Hive-Tech – 3Bee Srl. – *Italy*

CHAMPION: i-bee – IT INNOVATIONS – *Ukraine*

CATEGORY 5: Agriculture innovations systems and sustainable farming – Connected farm management systems

WINNER: AGRIVI Farm Management Software – AGRIVI d.o.o. – *Croatia*

HONOURABLE MENTION: Agricolus platform – Agricolus s.r.l. – *Italy*

HONOURABLE MENTION: xFarm – xFarm – *Italy*

CHAMPION: OneSoil – OneSoil – *Belarus/Switzerland*

CATEGORY 6: Disaster risk management and early warning systems

WINNER: Disease and Pest Forecast with Artificial Intelligence – Pessl Instruments GmbH. – *Austria*

HONOURABLE MENTION: VIPS – NIBIO – *Norway*

HONOURABLE MENTION: Sencrop: Precision ag-weather solutions – Sencrop – *France*

CHAMPION: agroNET – digital platform for sustainable farming – DunavNET – *Serbia*

CATEGORY 7: Food loss and waste/Food safety and traceability

WINNER: OLIO - OLIO Exchange Limited – *United Kingdom*

HONOURABLE MENTION: Real-time digital food supply chain auditing, powered by blockchain – Connecting Food – *France*

HONOURABLE MENTION: Farmer Expert – Farmer Expert – *Turkey*

CHAMPION: BIOSens Myco – BIOSens – *Ukraine*

Embedding good practice at village level



Digital Skills
Capacity Development
Administrative platform
Extension and advisory services
Soil mapping
Land cadaster
Value chain
Market access
Rural development
Agritourism
Financial services



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Thank you !

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<https://www.itu.int/en/ITU-D/ICT-Applications/Pages/e-agriculture-strategies.aspx>