

Peer learning sessions of the 2021 Regional Forum on Sustainable Development for the UNECE Region

Presentation of policy practices as a basis for the peer learning discussion

Session 4.2. Digital Transformation for SDG implementation

Title of intervention, country and name of presenter	Highlighting the emerging role of information and communication technologies (ICTs) as an engine for agriculture development in Europe and Central Asia Ms. Sophie Treinen, Head of Digital Agriculture Team, FAO Regional Office for Europe and Central Asia, Hungary Ms. Eszter Varga, Researcher Institute of Agricultural Economics, Hungary
Brief description	Due to the pandemic, the digitalization process has accelerated significantly. There are challenges and opportunities of applying digital agriculture in Europe and Central Asia. Based on the Status of Digital Agriculture in 18 Countries of Europe and Central Asia, co-published by FAO and ITU, the two organizations are running a Digital Excellence in Agriculture Contest to identify the Good practices in the region. The fist results will be share at the meeting. With the 'Digital Decade', the European Union aims at exploiting the opportunities from the digital age within safe and ethical boundaries. Pre-accession countries should be prepared and align themselves with the requirements of the EU in all areas, including agriculture. The second presentation will discuss opportunities and expectations the Common Agricultural Policy (CAP) new legislative proposals conveys for pre-accession countries from the perspective of digitalisation and the role of ICTs.
Policy goal(s) or challenge(s) to be addressed	Closing the rural digital divide requirements investments in supply-side and demand-side factors, in order to increase technology adoption rates. On the Supply-side, rural network, coverage and availability of digital applications are needed. On the demand-side, digital skills and literacy, especially for smallholders are fundamental.



Instruments and proposals	 Addressing the rural digital divide necessitates a range of public policy interventions, and most importantly a regulatory environment that attracts private sector investment. Participation of Governments in investments, through public-private partnerships, can ensure that gaps in infrastructure and access are bridged also in rural areas. Public-private partnerships will be important to provide
	 incentives for private investments. Designing a regulatory framework that is both conducive to innovation and takes into account the specificities and risks digitalization entails Expanding and improving infrastructure — both for ICTs and not only Raising awareness among stakeholders on the importance of digitalisation and on the benefits, showing evidence on the return over investment Establishing and implementing a good regulatory framework that ensures safe and standardised data
	 Establishing and implementing a good regulatory framework that ensures sale and standardised data exchange, respects data ownership and privacy while supporting business development. Developing digital skills Developing user-friendly software interface for farmers in local languages adapted to local context Addressing energy-related issues (battery life of sensor, solar panels) Adapting the legislation to the digitalization FAO geospatial platform 1000 digital villages initiative International Platform for Digital Food and Agriculture
Constraints and difficulties	 Young generation leaving rural areas Ageing farming population Majority of farmers are smallholders and technologies not yet fully adapted to their needs Awareness level and mentality of stakeholders towards digitalisation and digital solutions. Digital divide between rural and urban areas (e.g. digital infrastructure, skills, gender divide) Lack of trust in the technologies Low profitability of the sector / reluctance to invest Human capital (lack of competencies or specialized expertise)



Lessons	 National Digital Agriculture Strategies are offering a good framework to bridge the rural / gender / digital divides Use multi-stakeholders approach, inviting different ministries, private sector, public institution, academia Sharing good practices at national, regional and global levels Analysing the digital solutions with a return over investment perspective Speeding up innovation according to the new CAP – potential development paths for the pre-accession countries. Benefits of a more digitalised integrated system for both the government and the farmer. Importance of providing guidelines and
Links to additional materials	Status of Digital Agriculture in 18 countries of Europe and Central Asia - www.fao.org/3/ca9578en/CA9578EN.pdf Gender and Information and Communication Technologies - www.fao.org/3/i8670en/l8670EN.pdf FAO websites: www.fao.org/digital-agriculture www.fao.org/e-agriculture/news/digital-excellence-agriculture-europe-and-central-asia www.fao.org/europe/resources/e-agriculture ITU website: https://www.itu.int/en/ITU-D/ICT-Applications/Pages/e-agriculture.aspx European Union resources related to digitalization https://eur-lex.europa.eu/legal-content/en/ALL/?uri=CELEX:52018PC0392 https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=COM%3A2018%3A393%3AFIN https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=COM:2020:67:FIN https://ec.europa.eu/neighbourhood- enlargement/sites/near/files/communication on wb economic and investment plan october 2020 en.pdf