



EU Law on Sustainable and Climate-Resilient  
Agriculture after the European Green Deal



With the support of the  
Erasmus+ Programme  
of the European Union

# EU law on Digital Agriculture

## Winter School Agenda

### Monday, 15 November 2021

- 9 – 11 am      **Introduction to the Winter School and training objectives.  
Presentation of participants**
- 11 am – 1 pm    **Digital innovation and disruptive technologies for agriculture –  
M. Bacco, National Research Council of Italy**  
The lecture will focus on digital transformation process in farming and food systems and discuss the key emerging technologies that can contribute to build a more sustainable future for agriculture and rural areas.
- 3 – 5 pm        **How to frame digital agriculture: policy and legal appraisal –  
M. Alabrese, Sant’Anna School of Advanced Studies**  
The lecture will explore the way in which policy makers and international organizations are navigating the current scenario of emerging digital technologies in the agri-food sector.

\* the agenda may change,  
more speakers will be announced soon

5 – 7 pm      **Smart Agriculture in action: an analysis of case studies –**  
A. Saba, Sant’Anna School of Advanced Studies – L. Ricci,  
University of Pisa

The lecture will analyse a number of case-studies and practical instances that explore smart agriculture in action, with the contributions of:

- Claudia-Silviana Mureşan, Development and Applications, DG Defense Industry and Space, European Commission;
- and, agricultural technology companies (t.b.c.).

## Tuesday, 16 November 2021

9 – 11 am      **Blockchain for dummies –** L. Ricci, University of Pisa

The lecture will introduce Blockchain Technologies by exploring facts and figures as well as discussing the resulting challenges and opportunities.

11 am – 1 pm      **Digital Agriculture at the EU level –** M. Alabrese, Sant’Anna School of Advanced Studies – M.D. Masseno, Polytechnic Institute of Beja

The lecture will address the European policy for digital agriculture, by analysing the new strategies and the foreseen CAP, as well as the governance of data, both personal and non-personal, with a closer regard to artificial intelligence.

3 – 5 pm      **How to frame the use and sharing of non-personal agricultural data in the EU –** M.D. Masseno, Polytechnic Institute of Beja

The lecture will be focused on the legal status of non-personal data, its boundaries with personal data and intellectual property, with a special focus on the contents of the Regulation on the free flow of non-personal data.

5 – 7 pm      **Rural Innovation and Digital Transition in food systems –** A. Saba, Sant’Anna School of Advanced Studies – M. Bacco, National Research Council of Italy

The lecture will analyse real case-studies that show strengths, weaknesses, and opportunities in adopting ICTs in the food system, with the contribution of Tomi Sirén, Head of Digital and Technological Innovation, Arla Oy.



## Wednesday, 17 November 2021

9 am – 12 pm **Socio-economic impacts of ICT-related innovation in rural areas**  
– G. Brunori, University of Pisa

The lecture will discuss the socio-economic impacts of digitalization and ICT-related innovation in rural areas, while exploring the digital game changers that can contribute to a sustainable, resilient and fair society.

2 – 5 pm **IoT-based scenarios for smart and sustainable agriculture** –  
M. Bacco, National Research Council of Italy

The lecture will focus on the role that Internet of Things can play in supporting and enhancing the sustainable productivity of farms, taking into account the role of long-range wireless communications and the potential of 5G in enabling such scenarios.

5 – 7 pm **Role playing game to understand data sharing in the agricultural sector in action** – A. Saba, Sant'Anna School of Advanced Studies

The simulation will provide an active learning experience to understand what agricultural data are, how they are shared in real-world context and how to frame profit-sharing for farmers, with the contribution of Tessa Agritech Srl - spin-off of Bruno Kessler Foundation.

## Thursday, 18 November 2021

9 – 10 am **The EU Code of Conduct on Agricultural Data Sharing by Contractual Arrangement** – M.D. Masseno, Polytechnic Institute of Beja

The lecture will analyse the origins, the contents and the legal effects of the Code of Conduct, within the framework of EU Law, including issues related to data protection, data ownership and cybersecurity.

10 am – 1 pm **Blockchain-enabled model to address current agricultural problems** – L. Ricci, University of Pisa

The lecture will introduce the main components of a blockchain-based system and examine taxonomy, consensus algorithms, smart contracts, decentralized applications, and the current use cases in agriculture.

3 – 5 pm      **Blockchain, digital traceability and sustainability: what is the legal recognition?** – L. Ricci, University of Pisa – A. Saba, Sant’Anna School of Advanced Studies

Within the context of blockchain-based supply chains in agriculture, the lecture will focus on the barriers for blockchain adoption in sustainable supply chains and the main policy and legal framework.

5 – 7 pm      **Main legal and social challenges: what is the suitable governance?** – M. Alabrese, Sant’Anna School of Advanced Studies

This work group will trigger critical thinking and discussion on social and legal challenges and opportunities stemming from digital agriculture with the aim of elaborating on the suitable governance of the sector.

## Friday, 19 November 2021

9 am – 12 pm      **How to improve the capacity to respond to the challenges and opportunities of the digitalization in rural areas** – G. Brunori, University of Pisa

The lecture will discuss strategies and principles that can guide and support the development and implementation of digitalisation processes in rural areas and agri-food systems toward a desirable sustainable future.

12 – 1 pm      **Final Test**

3 – 7 pm      **Agriculture, Sustainable Food Systems and Digital Transition: strengths and weaknesses – Round Table**

The final Round Table will explore the key issues and main challenges in addressing sustainable food systems and climate-smart agriculture within the current digital transition in the farming and food value chains.

Speakers will be **Priscila Andrade**, Legal Officer, UNIDROIT, **Daniel Azevedo**, Director Commodities and Trade, Copa-Cogeca; **Giovanni Comandé**, Professor, Sant’Anna School of Advanced Studies; **Esther Muñiz Espada**, Professor, University of Valladolid; **Marie-Agnès Jouanjean**, Agriculture and Food Global Practice, World Bank; **Pamela Lattanzi**, Professor, University of Macerata; **Doris Marquardt**, DG Agriculture and Rural Development, European Commission; **Anna Camilla Moonen**, Assistant Professor, Sant’Anna School of Advanced Studies; **Silvia Rolandi**, Post-Doc Researcher, University of Pisa; **Graziella Romito**, Italian Ministry of Agriculture – MiPAAF; **Gerard Sylvester**, Investment Officer (Digital Agriculture), FAO; **Philine Wehling**, Legal Officer, UNIDROIT