



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

## Summer School Agenda

### Monday, 5 July 2021

- 9 – 10 am      **Introduction to the Summer School and training objectives.  
Presentation of participants**
- 10 am – 1 pm    **How to frame digital agriculture: Sustainable Food Systems and  
Digital agriculture** – M. Alabrese, Sant’Anna School of Advanced  
Studies  
The lecture will focus on the conceptual framework of sustainable food  
systems and on the role of digital agriculture in achieving the several  
components of food sustainability.
- 3 – 5 pm      **Digital Transition for sustainable development** – Z. Andreopoulou,  
Aristotle University of Thessaloniki  
The lecture will discuss sustainable development terms, definition and EU  
perspective as well as green entrepreneurship and digital transition issues in  
rural areas.

\* 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
- 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, Huawei Technologies Co., Ltd.

## Tuesday, 6 July 2021

- 9 – 11 am      **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
- 11 am – 1 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.
- 3 – 4 pm      **An introduction to e-business models: types and activities –**  
Z. Andreopoulou, Aristotle University of Thessaloniki
- The lecture will address e-business definition and the characteristics and main stages of ICT adoption, as well as strengths and weaknesses for farmers, rural entrepreneurs and consumers.
- 4 – 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.



## Wednesday, 7 July 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.

11 am – 12 pm **E-innovation applied in agriculture, environment, sustainability and climate change** – Z. Andreopoulou, Aristotle University of Thessaloniki

The lecture will examine the contribution of ICTs in sustainability, the 4 pillars of green technologies and services, as well as agricultural informatics and environmental information systems for the protection of environmental, natural ecosystems and natural resources.

2 – 5 pm **ICT for sustainable growth and development** – S. Louca, University of Nicosia

The lecture will provide an introduction to ICT for sustainable growth and development, by exploring facts and figures related to ICT adoption and challenges and discussing the impact of ICT in agriculture.

5 – 7 pm **Rural Innovation and Digital Transition in the food processing** – A. Saba, Sant'Anna School of Advanced Studies

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

## Thursday, 8 July 2021

9 am – 12 pm **Blockchain-enabled model to address current agricultural problems** – S. Louca, University of Nicosia

After an introduction to Blockchains and its historical facts, the lecture will focus on components of a blockchain-based system, taxonomy, consensus algorithms, smart contracts, decentralized applications, and the current use cases in agriculture.

2 – 4 pm **Blockchain, digital traceability and sustainability: what is the legal recognition?** – S. Louca, University of Nicosia – 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.

- 4 – 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, 9 July 2021

- 9 – 10 am      **Internet of Things and food circular economy: A tool for Sustainable Development?** – Z. Andreopoulou, Aristotle University of Thessaloniki
- The lecture will focus on Internet of Things as an approach for Sustainable Development Goals, with particular reference to food safety, food logistics, food waste, and value chain development.

- 10 am  
– 12 pm      **Blockchains and Data Management: Current Landscape and Challenges** – S. Louca, University of Nicosia
- The lecture will address the challenges in centralized, conventional distributed database and decentralized databases, discussing the benefits of blockchain data management, decentralized data markets and the current landscape examples (i.e. IPFS, Filecoin, Sia).

- 12 – 1 pm      **Final Test**

- 4 – 7 pm      **Smart Agriculture, Sustainable Food Systems and Digital Transition: strenghts and weaknesses – Round Table**

Chair: S. Louca, University of Nicosia

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 in the round table will be: **Daniel Azevedo**, Director Commodities and Trade, Copa-Cogeca; **Gianluca Brunori**, Professor, Department of Agriculture, Food and Environment, University of Pisa; **Giovanni Comandé**, Professor, Institute of Law, Politics and Development, Sant’Anna School of Advanced Studies; **Esther Muñiz Espada**, Professor, University of Valladolid, Spain; **Marie-Agnès Jouanjean**, Agriculture and Food Global Practice, Data-Driven and Digital Agriculture, World Bank; **Pamela Lattanzi**, Professor, Department of Law, University of Macerata; **Doris Marquardt**, DG Agriculture and Rural Development, European Commission; **Anna Camilla Moonen**, Assistant Professor, Institute of Life Sciences, Sant’Anna School of Advanced Studies; **Gerard Sylvester**, Investment Officer (Digital Agriculture), FAO