

Title: “Effective agricultural monitoring for the new CAP”

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Short Abstract:

Recent technological improvements in terms of big data handling, available computing power, and Copernicus Sentinel data, allow the continuous and automated provision of agri-environmental information to objects being monitored, such as agricultural parcels.

Smart Farming is a sector that relies for many of its key business processes on Earth Observation technology. It is also a core concept that CAP has promoted as a necessity for the improvement of agricultural production and efficient farm management after 2020. In the upcoming Common Agricultural and Food Policy, which is currently being designed, Smart Farming and EO are the most valuable tools, since their combined usage leads to an optimal and sustainable production, enabling the provision of advisory services based on objective facts.

During the presentation, we will present the technological framework of our platform, called GAIA Sense, and demonstrate the effectiveness and ability for an automated multi-temporal agricultural monitoring at parcel level. We will also present, using data coming from many smart farming pilot sites, how the ability for decision making is enhanced when the information is enriched by microclimate data coming from Internet of Things sensor data, or/and by farm logs that document farmer’s activities. The use cases will demonstrate how the incorporation of technology for agricultural monitoring can contribute to a more efficient CAP, and will also improve the potential of IACS to share actionable content to various stakeholders, or even allow the interaction with other digital platforms. This will promote the development of a new data value chain in EU digital economy creating macro and microeconomic impacts.