

Box 10.3: The BioSense Institute for agriculture of the future

Founded in 2015, the Research and Development Institute for Information Technologies in Biosystems (BioSense Institute) in Novi Sad cross-fertilizes the two most promising sectors in Serbia: ICTs and agriculture.

Through multidisciplinary research in the fields of micro- and nanoelectronics, signal processing, remote sensing, big data, sensor design, artificial intelligence and biosystems, BioSense contributes to the wider goal of meeting the growing demand for food, while ensuring a sustainable agricultural system. The institute integrates all that ICTs currently have to offer to make

agriculture more efficient, developing practical solutions for farmers, companies of all sizes and farms.

The BioSense Institute is participating in more than 30 Horizon 2020 projects. The most important of these, Antares, aims to transform the BioSense Institute into a European centre of excellence for advanced technologies in sustainable agriculture and food security. According to FAO, global food production will need to increase by 50% in the next twenty years, with 80% of the increase coming from intensification.

The Serbian Ministry of Education, Science and Technological Development

is providing the Antares project with both institutional and legislative expertise, as well as co-financing to the tune of € 14 million. The participation of the Stichting Dienst Landbouwkundig Onderzoek (DLO), a leading European research institute for applied and market-driven research in agriculture and food security based in the Netherlands at Wageningen University, is helping to transfer expertise and experience to Serbia.

Source: www.cordis.europa.eu/project/rcn/196935/factsheet/en; www.biosens.rs

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