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The multidisciplinary approach of the new CoE will contribute to the wider goal: to meet the ever-increasing demand for food, feed and raw materials while ensuring the sustainability of primary production. Advanced technologies will provide a more precise and resource-efficient solutions across the entire agrifood chain. Although most practitioners can see the benefits of using a more precise and information-driven approach to manage agrifood production, the tools provided by ICT have not yet moved into mainstream. The increased complexity of systems, the size and diversity of farm structures, cultural perception, lack of expertise, economic constraints are obstacles that have hindered adoption, resulting in a gap between the availability of advanced ICT and their real adoption by end-users.

Thus our mission as a CoE is not limited to the development of advanced technologies but also to provisioning of appropriate business models for their rapid adoption. The impact of this strategy in terms of employment is also expected to be significant. Global trends show that the rural labour force will inevitably decrease, however the promotion of ICT technologies in the agrifood sector has the potential to balance this trend. This becomes particularly relevant for Serbia that needs to provide sustainable and high value-added jobs to young generations and prevent brain drain. For this purpose, we promote the model of science-enabled economic development that combines the competitive strengths of a traditional sector (farming and food production) with the expectations of the younger generation with respect to high-growth tech entrepreneurship. Through this approach we aim to contribute in Serbia's convergence path towards Europe, particularly under the prism of accession of Serbia to the European Union that has successfully started in 2014.

BioSense INSTITUTE

WAGENINGEN UNIVERSITY & RESEARCH

Министарство просвете, науке и технолошког развоја

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Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ НАУКЕ И ТЕХНОЛОШКОГ РАЗВОЈА

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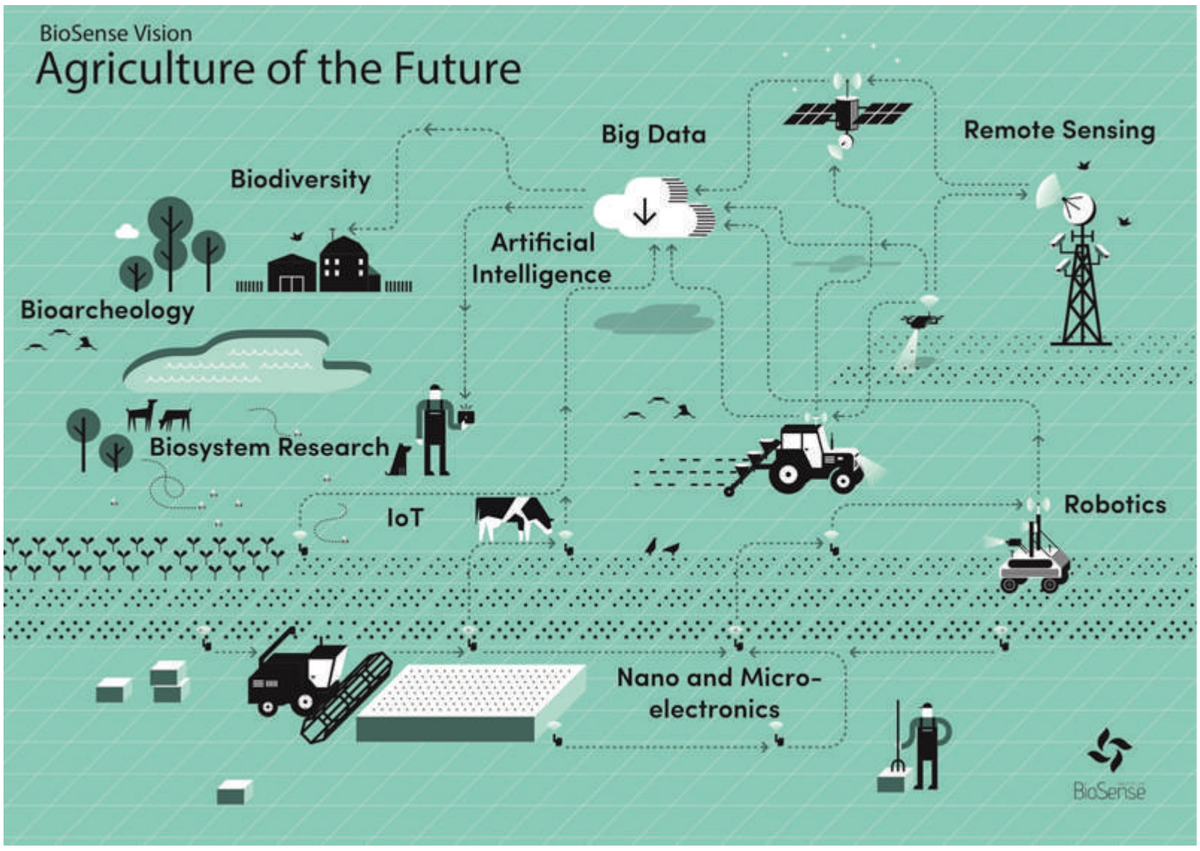
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Agriculture of the Future
Big Data
Remote Sensing
Biodiversity
Artificial Intelligence
Bioarcheology
Biosystem Research
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Robotics
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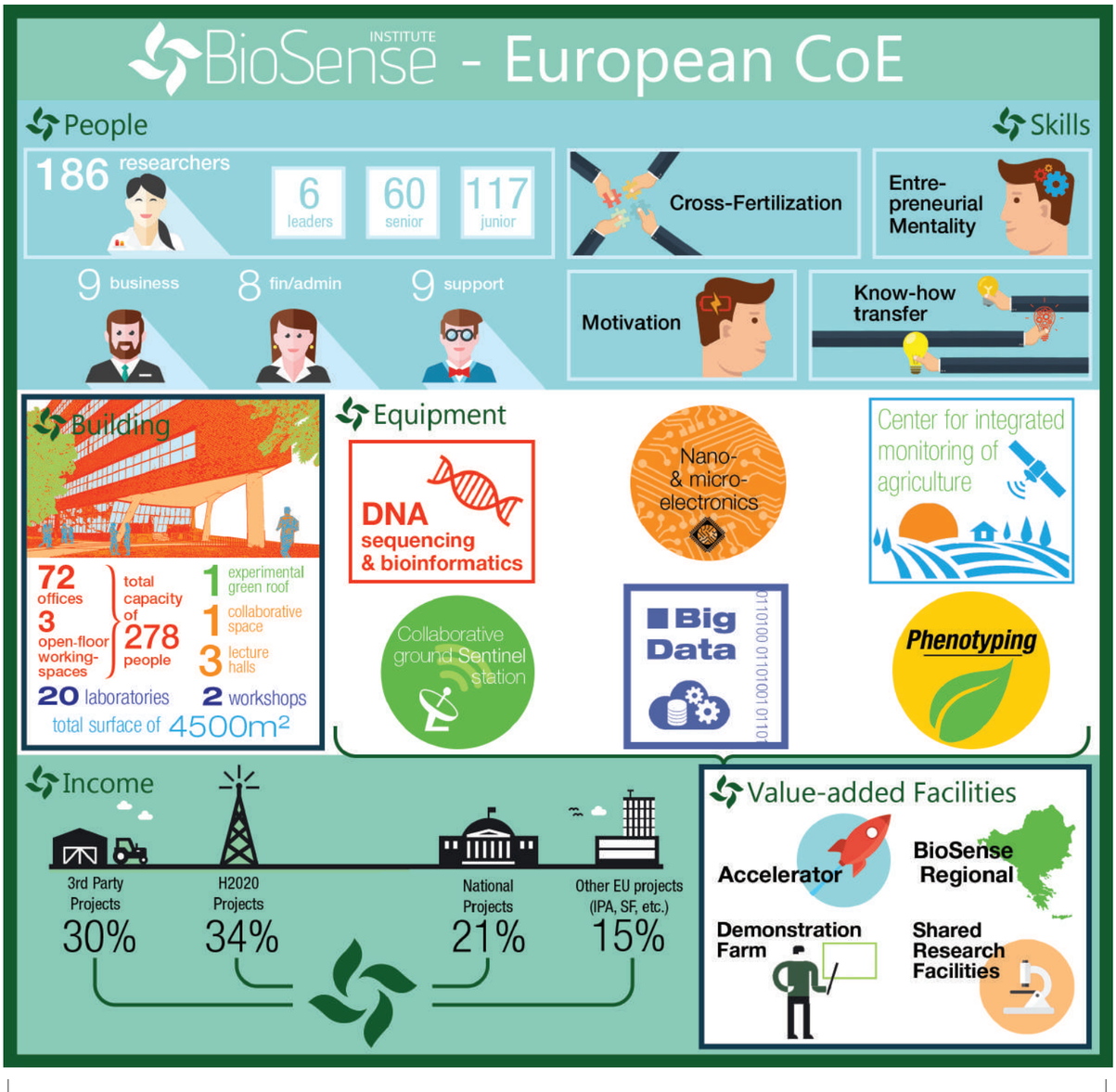
BioSense INSTITUTE - European CoE
People
186 researchers
6 leaders
60 senior
117 junior
9 business
8 fin/admin
9 support
Skills
Cross-Fertilization
Entre-preneurial Mentality
Motivation
Know-how transfer
Building
72 offices
3 open-floor working-spaces
total capacity of 278 people
20 laboratories
1 experimental green roof
1 collaborative space
3 lecture halls
2 workshops
total surface of 4500m²
Equipment
DNA sequencing & bioinformatics
Nano- & micro-electronics
Center for integrated monitoring of agriculture
Collaborative ground Sentinel station
Big Data
Phenotyping
Income
3rd Party Projects 30%
H2020 Projects 34%
National Projects 21%
Other EU projects (IPA, SF, etc.) 15%
Value-added Facilities
Accelerator
BioSense Regional
Demonstration Farm
Shared Research Facilities