Societal Challenge nr.2: *Food & Agriculture*

Big Data Focus area: Large-scale distributed agricultural data integration

BDE2020 domain partners:

Food and Agriculture Organization of the United Nations

Agroknow

Selected Key Data assets: INFOODS, AQUASTAT Green Learning Network (GLN), Agricultural Bibliography Network (ABN), AgroVoc, AquaMaps, Fishbase

Pilot 2:

Support advanced crop data discovery, processing, combining and visualization from distributed and heterogeneous data repositories

Reasons:

◎ Vine and Wine sector: emerging market in EU
◎ Sustainability and biodiversity challenges: local varieties are being lost
◎ Exploitation of new grapevine varieties and clones in terms of climate change adaptation
◎ Quality and health status of viticultural products
◎ Contribution to human health (antioxidants, prevention of heart diseases etc.)
◎ Wide variety of heterogeneous (and big) data from various information sources

BDE infrastructure functionality

• Near-real time execution of parameterized models to return operational statistics, including correlation analysis of data across units
• Weekly execution of operational statistics
• Weekly execution of model parametrization