D5.2- HETEROGENEOUS DATA FUSION

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RESPONSIBLE AUTHORS	Rob Knapen (ALTERRA)

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EXECUTIVE SUMMARY

For the domain of agro-climatic and agro-economic modelling and its research community, personas were identified and initial use cases focussing on opportunities to bring researchers from their current local, single computer and peer network based work space to a more cloud based compute and collaborative work environment, using Virtual Research Environments (VRE). On the D4Science platform a domain specific VRE has been set up to support developing the use cases of crop modelling and crop phenology estimation. The VRE already provides the core functionality for scientific collaboration and knowledge exchange, and access to compute and storage services. These will be tailored further to fit the specific needs of the use cases, e.g. to run detailed field level crop simulations and crop phenology estimations, and following data analytics using spatial and remote sensing data. Input data will mostly be derived from the AgroDataCube, a big data warehouse with relevant agronomic (open) data for The Netherlands, that will be made accessible from within the VRE. In parallel all functionality being developed will be assessed by (representatives of) the user community, which will provide further input to the project and this ongoing deliverable.

The deliverable has been created on the public space of the AGINFRA+ Wiki and can be accessed through the following link:

https://support.d4science.org/projects/aginfraplus_wiki/wiki/D52_-_Heterogeneous_Data_Fusion