

# Realising a Science Gateway for the Agri-food: the AGINFRA PLUS Experience

M. Assante\*, A. Boizet<sup>†</sup>, L. Candela\*, D. Castelli\*, R. Cirillo\*, G. Coro\* E. Fernández<sup>§</sup>,  
M. Filter<sup>¶</sup>, L. Frosini\*, G. Kakaletis<sup>‡</sup>, P. Katsivelis<sup>k</sup>, M.J.R. Knapen<sup>\*\*</sup>, L. Lelii\*, R.M. Lokers<sup>\*\*</sup>, F.  
Mangiacrapa\*, P. Pagano\*, G. Panichi\*, L. Penev<sup>††</sup>, F. Sinibaldi\*, P. Zervas<sup>k</sup>

\*ISTI - National Research Council of Italy, Pisa, Italy – Email: {name.surname}@isti.cnr.it

<sup>†</sup>French National Institute for Agricultural Research, Paris, France – Email: alice.boizet@inra.fr

<sup>§</sup>EGI Foundation, Amsterdam, Netherlands – Email: enol.fernandez@egi.eu

<sup>¶</sup>Federal Institute for Risk Assessment (BfR), Berlin, Germany – Email: matthias.filter@bfr.bund.de

<sup>‡</sup>University of Athens, Athens, Greece – Email: gkakas@di.uoa.gr <sup>k</sup>Agroknow,

Athens, Greece – Email: {katsivelis.panagis, pzervas}@agroknow.com

<sup>\*\*</sup>Wageningen University & Research, Wageningen, Netherlands – Email: {rob.knapen, rob.lokers}@wur.nl

<sup>††</sup>Pensoft Publishers, Sofia, Bulgaria – Email: penev@pensoft.net

## ABSTRACT

The enhancements in IT solutions and the open science movement are injecting changes in the practices dealing with data collection, collation, processing and analytics, and publishing in all the domains, including agri-food. However, in implementing these changes one of the major issues faced by the agri-food researchers is the fragmentation of the “assets” to be exploited when performing research tasks, e.g. data of interest are heterogeneous and scattered across several repositories, the tools modellers rely on are diverse and often make use of limited computing capacity, the publishing practices are various and rarely aim at making available the “whole story” with datasets, processes, workflows. This paper presents the AGINFRA PLUS endeavour to overcome these limitations by providing researchers in three designated communities with Virtual Research Environments facilitating the use of the “assets” of interest and promote collaboration.

**Keywords**—*Virtual research environment; Agroclimatic modeling; Food safety risks assessment; Food security*

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