

The Swiss Node of METROFOOD-RI



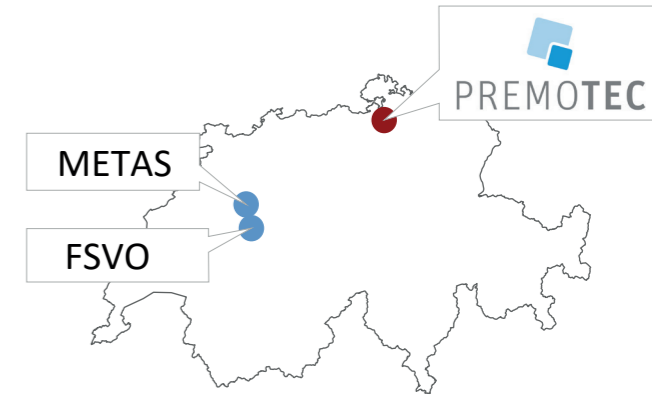
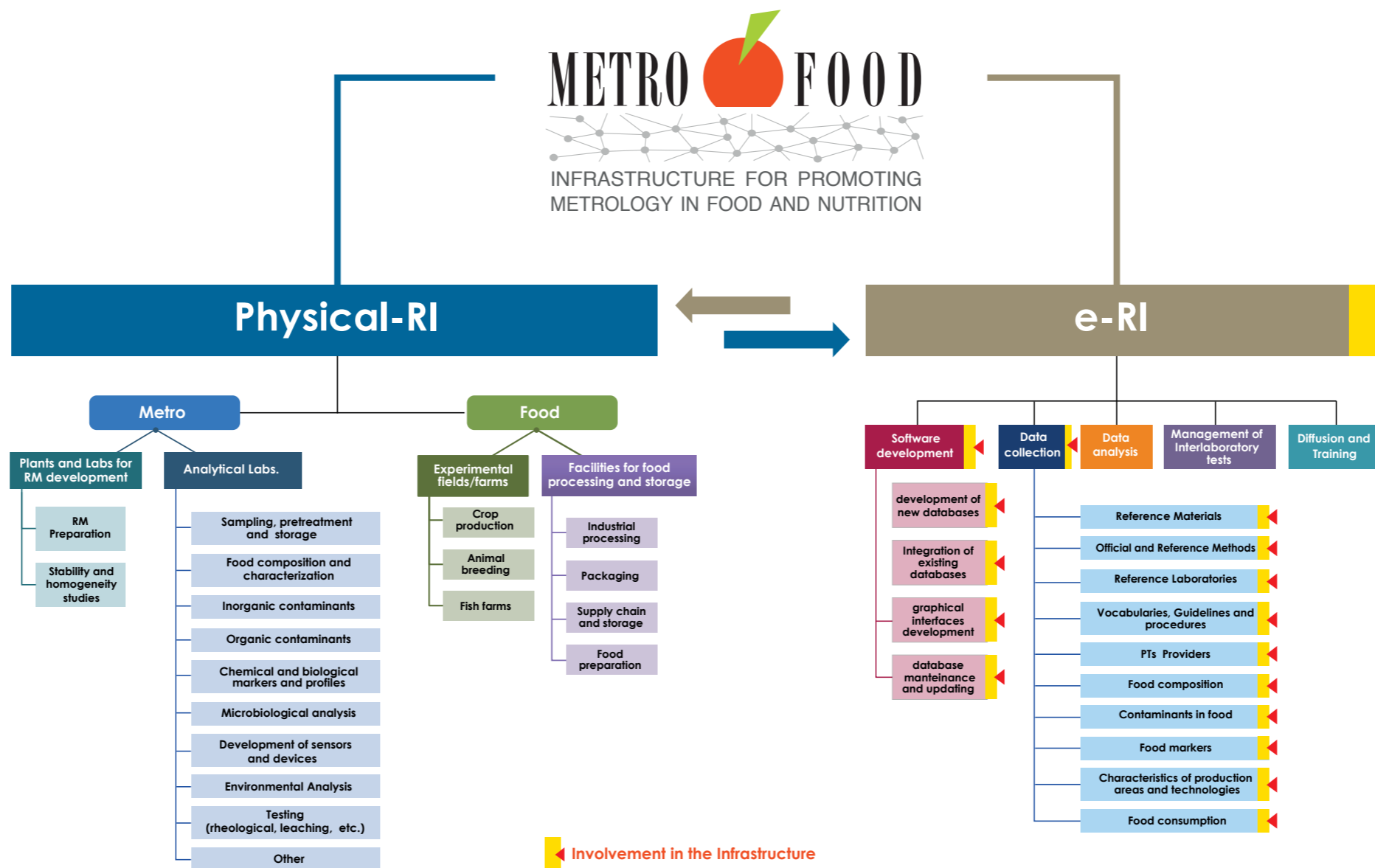
PARTNERS

PREMOTEC
PMT - PREMOTEC GmbH
 Premotec GmbH is an IT company situated in Winterthur near Zurich in Switzerland and was founded in 2007. The company focuses on specification and implementation of software solutions for food data and school administration. Since its foundation the company focused on these two areas leading to a profound knowledge in school administration processes and food data such as food composition, food consumption and total diet studies. Knowledge and experience come from cooperation in national, European and international projects with food scientists and experts from universities, governmental agencies and industry. For food data, the company created in cooperation with ETH Zurich an information system called FoodCASE to manage food data. Many European governments use FoodCASE nowadays as the national central food database. FoodCASE is in the meantime the most used database system to manage food data.
www.premotec.ch

External cooperations / In view to join

METAS - Federal Institute of Metrology
 The Federal Institute of Metrology (METAS) serves as the federal centre of competence for all issues related to measurement and for measuring equipment and measuring procedures. It is the Swiss national metrology institute. As such, its mandate is to ensure the availability in Switzerland of measurement and testing facilities with the degree of accuracy needed to meet the requirements of the economy, research and administration. It fulfils its mandate in collaboration with third parties: in legal metrology with the verification laboratories as well as the cantons and their verification officers; in the dissemination of units with its designated institutes. METAS stands at the cutting edge of measurement accuracy in Switzerland. It develops the national measurement base, that is to say it looks after the physical implementation, mutual comparison and thus the international recognition of measurement units. For this purpose, it operates the necessary laboratories and conducts the necessary research and development. It implements the Metrology Act, its other tasks are defined in the Federal Act on the Swiss Federal Institute of Metrology.

FSVO - Federal Food Safety and Veterinary Office
 The main task of the FSVO is to actively promote the health and well-being of humans and animals. The central pillars of this approach are food safety and healthy eating for humans, and animal health and welfare for animals.



- Pre-existing value:
 • tot. 2.515 k€ (at METROFOOD-RI disposal)
 Involved researchers:
 • 6 units (3,6 FTE)
 Research Areas:
 • Metrology in Food, Data Management

MINISTERIAL SUPPORT
 Federal Food Safety and Veterinary Office, involved in the EU-Inter-Ministerial Group

Electronic Facilities

Hardware

Several physical and virtual servers are running at different places. Most of the servers are dedicated to data management and some are dedicated to backup data. Servers are running in a server room with a cooling system, power backup and a dry sprinkler system. Servers are monitored and secured.

Software

PMT will run the electronic infrastructure in Switzerland with own servers and with the FoodCASE system. The FoodCASE system will be the central node in Switzerland and will be connected to the different data providers in Switzerland who are running the physical infrastructure. PMT has a small server room and is renting servers from service providers to spread hardware over several places. Separate server will be used for the production environment and the test environment. Also the database, the application server and the web application will be hosted on different servers.

FoodCASE will offer several APIs to communicate with the METROFOOD-RI central node and the user application to search and browse data. FoodCASE also has a desktop application where data can be managed.

Implementation of the e-pilot for METROFOOD-RI (in cooperation with ENEA and RIVM):

The data platform consists of an inventory of available datasets in METROFOOD-RI, a Search&Compare App, MCRA data tool and back-office applications. The data platform is the entry point for users and the inventory of datasets provides links to get to the different datasets. The Search&Compare App allows to live query and compare data across different datasets. The FoodCASE system was used for the four different data provider systems. The Search&Compare App is one of the added-value of the data platform and allows a combined search in data provider databases. The current platform offers MCRA as a data tool to perform risk assessment on consumption and concentration data. In future, more data tools will follow. The thesauri database is used internally and will be made public in next steps of METROFOOD-RI. A print screen of the Search&Compare App on the Data Platform is shown in the picture above.

FoodCASE

FoodCASE is a system that has been developed to not only manage the different food data sets, but also supports flexible means of linking between data sets and generally supports different processes involved in the acquisition, management and processing of data. A unique feature of FoodCASE is the quality framework. The quality framework helps food data managers to control and to improve data quality by conducting quality audits and by providing various tools for quality analysis. FoodCASE is the world-wide most used data management system for analytical food data.

