





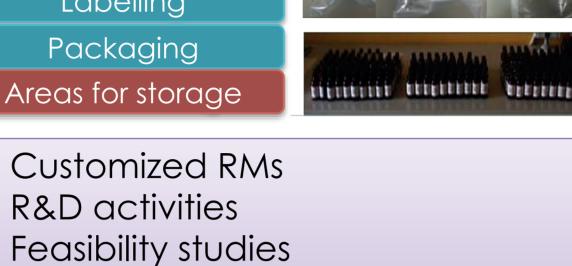
• FACILIES

Physical-RI - METRO side

Facilities for Reference Material (RM) development & production







Provision of Proficiency Testings

Method development Chemical, physical, and (micro)biological analysis and testing of foods and any other matrix of interest for the agrifood sector (e.g.

Physical-RI - FOOD side



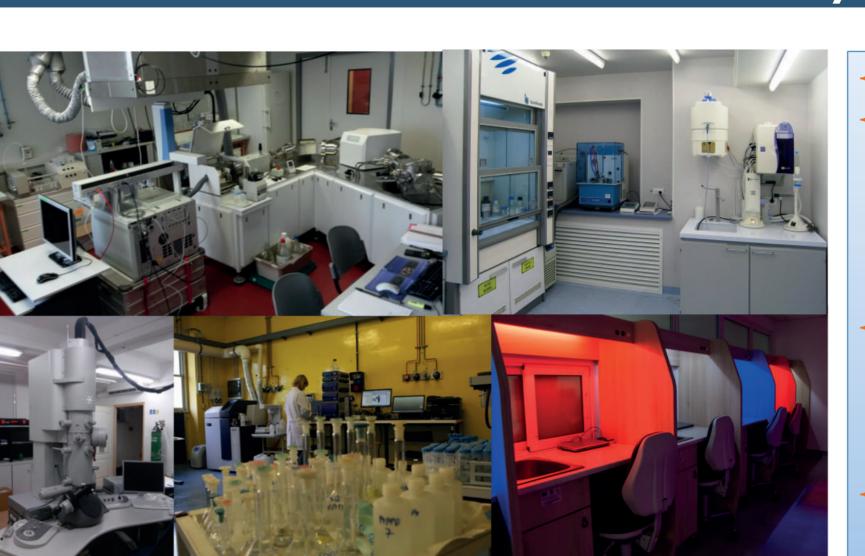
Field trials, greenhouses, grow chambers, experimental stables (controlled livestock production, ...) and fisheries

New RM production

Experimental Plants for food processing, packaging, storage and preparation (including kitchen lab facilities)

- Provision of new data on food (composition, contaminants, markers, etc.) Identification of markers and patterns for food traceability/authenticity
- Experimental studies for evaluating the nutritional value and contaminant contents of foods in relation to different influence parameters (geographic origin, technologies of production/process/storage/preparation)
- Food quality & safety studies along the value chain (post-retail included) Experimental studies to evaluate exposure through diet
- Evaluation of benefits & risks related to the application of new technologies (i.e.: nanotechnologies) in food
- production and packaging Development of best practices

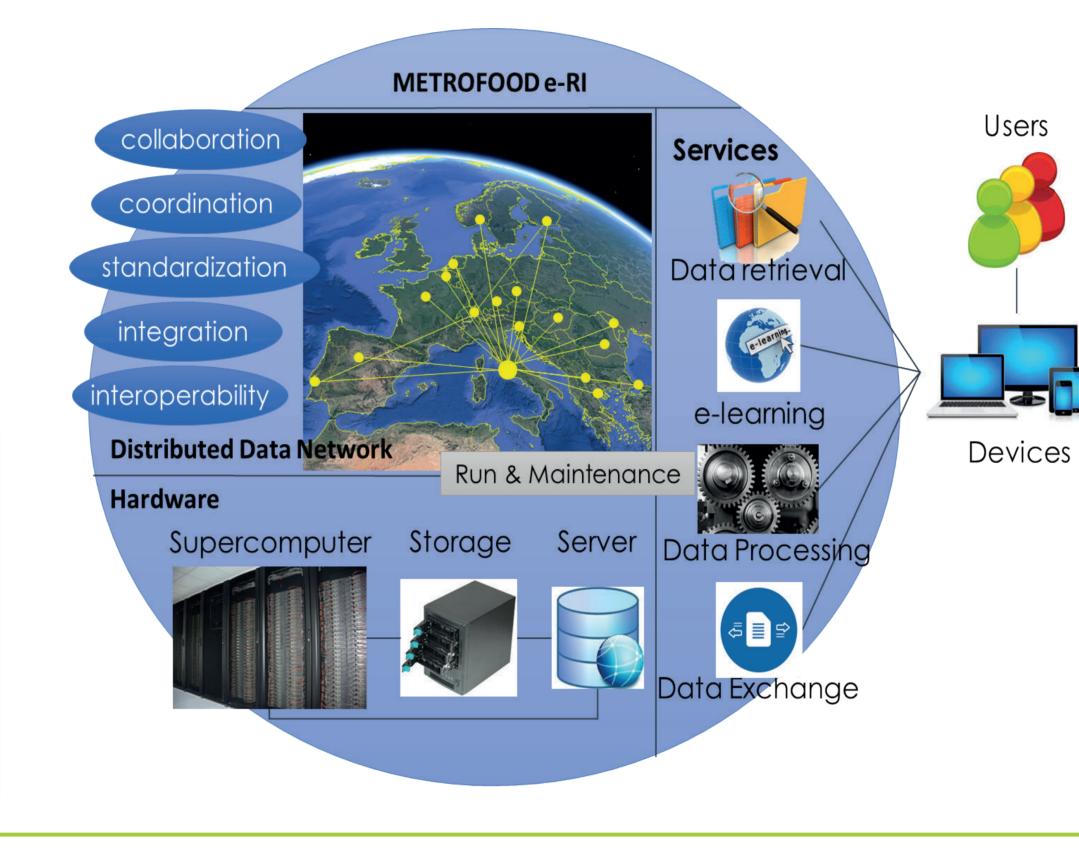
Analytical Labs



environmental matrixes, Food Contact Materials) Development of new devices, sensors and portable systems to check and evaluate food safety in situ (in field), during processing or retail (in line), and at a domestic level (post-retail) Standardisation and harmonisation of methods

electronic-RI

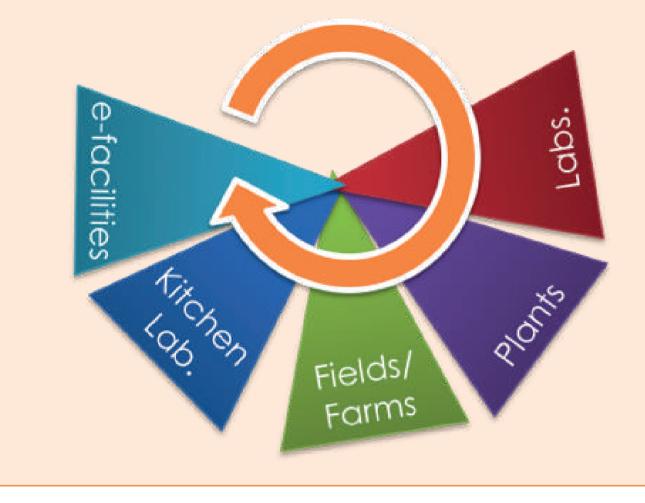
and procedures



Access to information on tools for standardizing and harmonizing food analyses (RMs, reference and official methods, Proficiency Testings, ...)

Collection, sharing, analysis, and interoperability of data, data link and visualisation (food composition, contaminants, markers; food production and processing; environmental and health impact; ...) Dissemination and training on metrology in

food and nutrition, food quality/safety/ traceability/authenticity, nutrition, ... Collection of information about the needs related to metrology in food and nutrition



METROFOOD-RI - in full harmony with the RRI principles - will provide distributed services, acting on the real plan of measurement reliability and procedure harmonization and adopting the FAIR approach on data management











By specific service

(e.g. RM development; PT management; method development and validation; sensor development)



Metrological and Standardisation Services

Agroecosystem characterisation, Food analysis, Food Contact Material testing and characterisation

> Services related to the improvement of Food Production & Consumption

> > e-Services





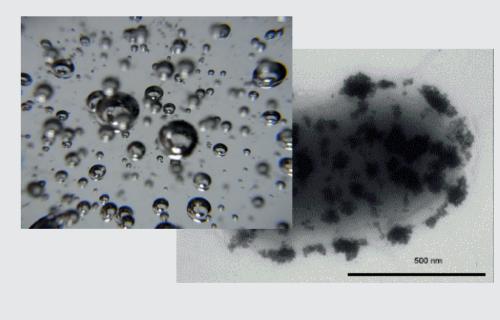


By technique (e.g. NMR; MS; TEM)



By specific application

(e.g. NP characterisation, isotope analysis, SCC)







By food chain

(dataBases, thesauri, best practices, integrated traceability systems etc.; e.g. cereals and cereal-based products; milk and dairy products; etc.)







Coordinate by

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