

# European Food, Nutrition and Health Research Infrastructure



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## PREAMBLE

The Food, Nutrition and Health Research Infrastructure (FNH-RI) is a joined initiative of leading research institutes from ca 10 EU Members States who work closely together in the food and health domain. They share the vision that today's scientific and societal challenges in the food and health domain require scientific breakthroughs and societal innovations that can only be achieved when the scientific community joins forces by overcoming interdisciplinary, intersectoral and multistakeholder fragmentation.

The FNH-RI builds on the roadmap developed in EuroDISH (EU FP7; 2012-15 – [www.eurodish.eu](http://www.eurodish.eu)) and the recommendations of the European Strategy Forum on Research Infrastructures for a food and health research infrastructure (ESFRI; 2015). It will bring together emerging food- and health-related Research Infrastructures (RIs) at different stages of development and maturity including those originating from previous (e.g. EuroFIR, NuGO, GloboDiet, ISEKI-Food, Food4me, Quisper), and on-going EU-funded projects (e.g. iFAAM, REFRESH, SUSFANS and RICHFIELDS), as well as JPI-funded projects such as A Healthy Diet for a Healthy Life (JPI-HDHL with Knowledge Hubs DEDIPAC & ENPADASI) and JPI Agriculture, Food Security and Climate Change (JPI-FACCE).

By bringing together the research communities, data, tools and services from these scientific communities and emerging infrastructures, the FNH-RI supports the scientific analysis of the relations between the determinants of consumer food choice and dietary habits. With the consumer diets being central to FNHRI, the domain includes nutritional health and well-being, as well the roots of dietary choices in the nearby food environment and wider food supply chain. Thus, FNH-RI envisions a diet and consumer-centred doos systems approach, stretching from

A sustainable food supply chain, to food innovation, food behaviour and its determinants, food consumption as related to nutrients and food constituents, nutritional status, bodily functions and the

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mechanisms, maintenance and promotion of healthy diets and lifestyles and prevention of disease and how these relations are be influenced by policy, industry and consumers themselves.

## GOAL

The objective of Food, Nutrition and Health Research Infrastructure is to:

- To enable top-level research, breakthroughs and innovations that promote personal, public and planetary health, in innovative and inclusive communities.
- To serve the pan-European research community to overcome fragmentation to collate, connect and share innovative and existing data, tools and models from research, labs & experimental facilities.

## STATE OF THE ART OF FOOD, NUTRITION AND HEALTH RESEARCH INFRASTRUCTURE

- To be a foundation in 2018, which enables us to sign memorandum of Understandings (MoU) with ELIXER and BBMR-ERIC, ECRIN-ERIC and other related RI's, networks and knowledge hubs.
- 4 member states involved (DK, UK, IT and NL), 2 are rewarded on the national roadmaps for research infrastructures (DK and NL). UK will apply for this status in 2019, Italy in 2018.
- Food industry and facilitating industry co-create a business platform within the FNH-RI.
- New nodes are expected in 2018 in Sweden, Spain and Slovakia. Associate partners are from France, Germany, Belgium, etc. Preparatory actions are ongoing.
- The science case of the Food, Nutrition and Health Research Infrastructure will be launched by mid-2018.
- Full application for the ESFRI roadmap is expected in 2019-2020
- Building blocks are: [www.eurodish.eu](http://www.eurodish.eu), [www.richfields.eu](http://www.richfields.eu), [www.eurofir.com](http://www.eurofir.com), [www.thepreciousproject.eu](http://www.thepreciousproject.eu), [www.dedipac.eu](http://www.dedipac.eu), [www.qualify-fp7.eu](http://www.qualify-fp7.eu), [www.quisper.eu](http://www.quisper.eu) and [www.enpadasi.eu](http://www.enpadasi.eu).

## IMPACT

- European and global top level research on food-nutrition-health: The Food, Nutrition and Health Research Infrastructure focuses on food and nutrition security and health and govern data, tools and services to facilitate top level research on food chain, food behaviour and consumption, nutrition and health by standardization and harmonization of data, data interoperability and – management, e-interfaces, data access policy, ethical and IPR requirements and governance trans-disciplinary and trans-national. This fosters cooperation with aligned RIs as ELIXER and BBMRI and stimulate participation of third countries e.g. Australia, Kenya and Ghana as food industry.
- Addressing user needs: The Food, Nutrition and Health Research Infrastructure will enable researchers and other users to address key research challenges, encompassing the wider the food and health challenges security under framework research programmes as FOOD 2030, as well as helping to contributing to the proposed KICs, which will support research, training and entrepreneurship in Europe.
- Paradigm shift in food research: The Food, Nutrition and Health Research Infrastructure will facilitate new data collection tools as e.g. sensors, wearable tech, to stimulate citizens data collection and science by using e-science to link data sets. The European citizen will be the main data provider and, excitingly, the main user, enabled by a data platform for researchers to generate new insights from the data.

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