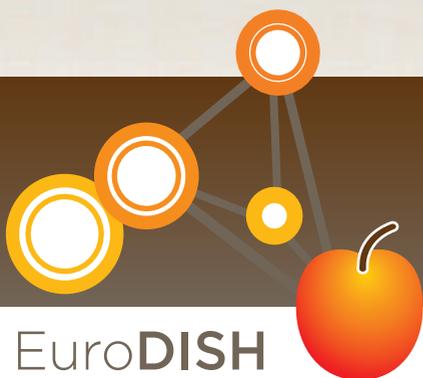


Advancing food and health research in Europe

Determinants • **I**ntake • **S**tatus • **H**ealth



Studying the need for **food and health research infrastructures** in Europe

Building a **research infrastructure** on food related to nutrition & health

DISH-RI



WHY?

Cutting edge research is needed to (a) understand the role of food and nutrition in maintaining health and preventing disease, and (b) improve the effectiveness of strategies in combatting diet-related societal challenges.

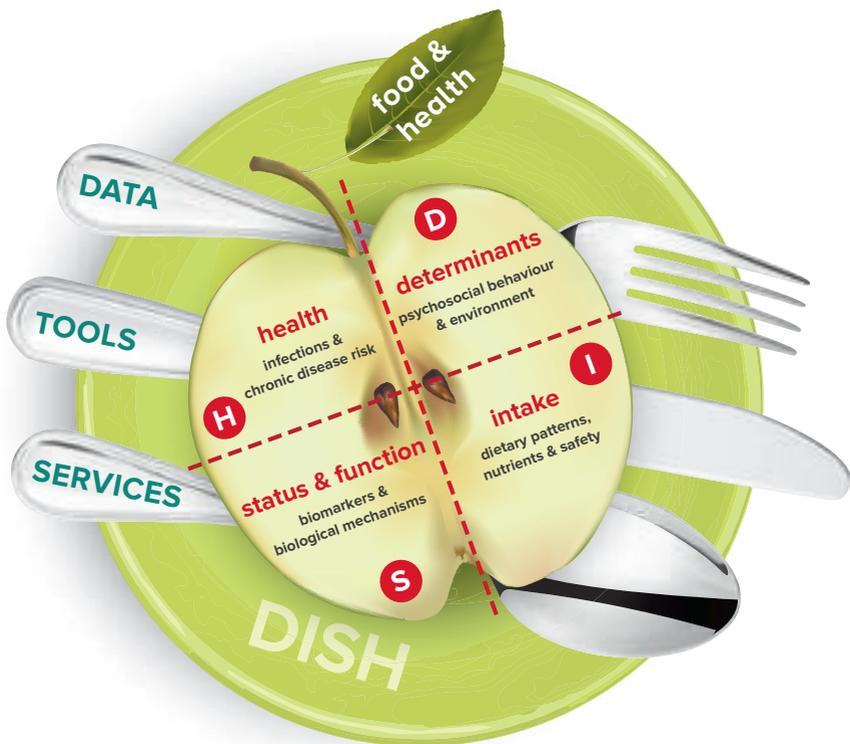
HOW?

By (a) connecting high quality **data** to innovative and standardised **tools** across research disciplines, and (b) providing **services** that support the scientist and stakeholder community, education, and capacity building.

WHAT?

DISH-RI: A European overarching research infrastructure (RI) that is specific for studying food in relation to nutrition and health and that connects the currently fragmented pieces of research on determinants, intake, status and health (DISH).

These are the outcomes of the EuroDISH project, a three-year project that aimed to define which RIs exist in the food and health area, what is needed, and how this can be achieved.



DISH-RI: Data, tools and services connecting the DISH domains in the food and health area

Background and societal challenges

Europe and its Member States face major societal challenges related to:

- The economic, social and health burden of diet-related public health challenges, including obesity, cardiovascular disease, cancer and type 2 diabetes.
- Food production, food and nutrition security, and environmental issues.

Such problems can be combatted by changes in people's lifestyles and by improvements in food and nutrition. Through regulations, policies, interventions, communication campaigns, product reformulation, and other public health nutrition strategies, public and private stakeholders contribute to the promotion of healthier lifestyles and food environments. Cutting-edge and high quality research is vital to better understand the relationship between food, nutrition and health, and progress the development of effective strategies to decrease diet-related health issues. DISH-RI will strengthen this research field and bring it to the next scientific level.

The need for DISH-RI

The European project EuroDISH (2012-2015) mapped existing RIs in a systematic way and identified the needs. Mapping was done for each domain of research related to food, nutrition and health: Determinants, Intake, Status and Health (DISH). The following gaps and needs were identified:

- RIs in the domains of Status and Health are emerging.
- RIs in the domains of Determinants and Intake of food are lagging behind.
- There is no specific RI that serves the needs of the food and health research community across the DISH domain as a whole.

Based on discussion with stakeholders in interviews and workshops, it was concluded that:

- There is a need for DISH-RI: A RI that is specific for food related to nutrition and health, that connects existing RIs, and that over-arches the DISH domains.
- The main value of DISH-RI would be to (a) enable research for better understanding the behaviour of consumers concerning food intake and lifestyle, including emerging opportunities in ICT and neuroscience, and (b) find a structure for public-private partnership that accommodates the different interests.
- DISH-RI would help to connect research on food production and on health and address the societal challenges in these domains.

Research infrastructures



RIs are facilities, resources or services which support the scientific community to conduct top-level research. Examples of RIs are CERN, the Hubble telescope, the BBMRI biobanks, and the European clinical research infrastructures network (ECRIN). RIs facilitate harmonisation of data and procedures, unique data management, training of staff, professional networks, knowledge transfer, major buildings, equipment and instruments and knowledge-containing resources such as e-platforms and data banks, etc. The main purpose of RIs is to:

- Build bridges between national (public and private) research communities and scientific disciplines.
- Connect research, education, and innovation.
- Help to shape scientific communities, attract young people to science, and attract the best researchers from around the world.

Hence RIs facilitate the research community in sharing and harmonising data, instruments, and methodologies, etc., avoids duplication, and increases impact.

Value creation by DISH-RI

DISH-RI will support the research community by integrating the fragmented data and tools and provide services across the DISH domains:

- **Data** generation, storage, management, harmonisation, access, analysis and interpretation, e.g., pan-EU food surveillance; pan-EU nutritional health cohorts and interventions; data on food quality, food safety and sustainability.
- **Tools:** The development, utility, innovation, standardisation and evaluation of innovative technologies for assessment of lifestyle, diet, biomarkers of exposure, functionality and health outcomes.
- **Services** to the research community and stakeholders relevant to integration of data and knowledge. These services will enable a systems approach for food

related to nutrition and health; attract young researchers; promote education, capacity building and e-training; provide a platform for industry, research, and policy; widen participation between European countries and global partners.

“The mapping as performed by EuroDISH contributes to the actions needed to establish a European Nutrition and Food Research Institute as envisioned by JPI HDHL.”

Jolien Wenink (Project Manager JPI-HDHL and member of the EuroDISH Project Advisory Board)

Organisation and governance

The proposed overarching structure is in line with current European research infrastructure models. It is based upon the hub and spokes model with a central co-ordination hub and connected expertise from different countries. Central elements are:

- **ICT backbone** supporting the interoperability, standardisation and quality management of data and tools.
- **Central entry point** to provide services to researchers, stakeholders, and related RIs.
- **Governance structure** that (a) provides conditions for access such as membership, ownership, privacy, and trust, (b) organises centralised and distributed activities, and (c) enables flexibility regarding innovation within the RI.



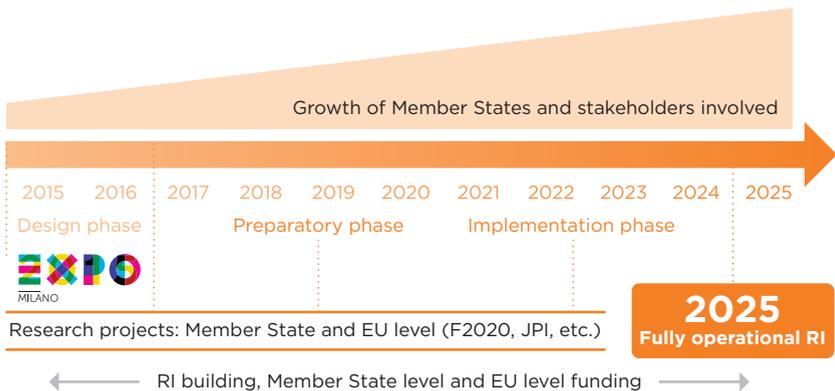
Stakeholder benefits

DISH-RI will enable:

- Policy makers to increase the impact of public health nutrition strategies and improve the health of all Europeans.
- Private partners to be involved as providers of data and as users of the services of the RI, to foster product innovation and strengthen competitiveness.
- Societal organisations and professionals to build their strategies and advice on solid evidence.

Ambitions for the future

The aim for DISH-RI is to reach a fully operational status within a 10-year period. Stakeholder support is required as well as funding at both Member State and EU level to construct the building blocks that shape the RI.



“EuroDISH / DISH-RI will contribute to capacity development of food, nutrition and health RIs that are relevant for public health nutrition strategies across Europe. This will enable improving the overall quality of the European population’s diet, nutritional status and health.”

Mirjana Gurinovic (Research team leader-nutrition at CENM and member of the EuroDISH Project Advisory Board)

EuroDISH partners



Join the EuroDISH LinkedIn group!



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EuroDISH—“Studying the need for food and health research infrastructures in Europe” has received funding from the European Union’s Seventh Framework Programme for research, technological development and demonstration (contract n°311788).

Duration: 3 years • Starting date: 1 September 2012

