

Strategy Report on Research Infrastructures

# ROADMAP 2018

## LANDSCAPE

**Gabriela Pastori,**  
**Chair of Health and Food Strategy**  
**Working Group, UK ESFRI delegate**

**Launch event**  
ICRI 2016  
Cape Town  
South Africa

# Landscape analysis

- essential component of the Roadmap
- current context of EU RI ecosystem
- a reference for monitoring and evaluation
- future trends

## Strategy Working Groups

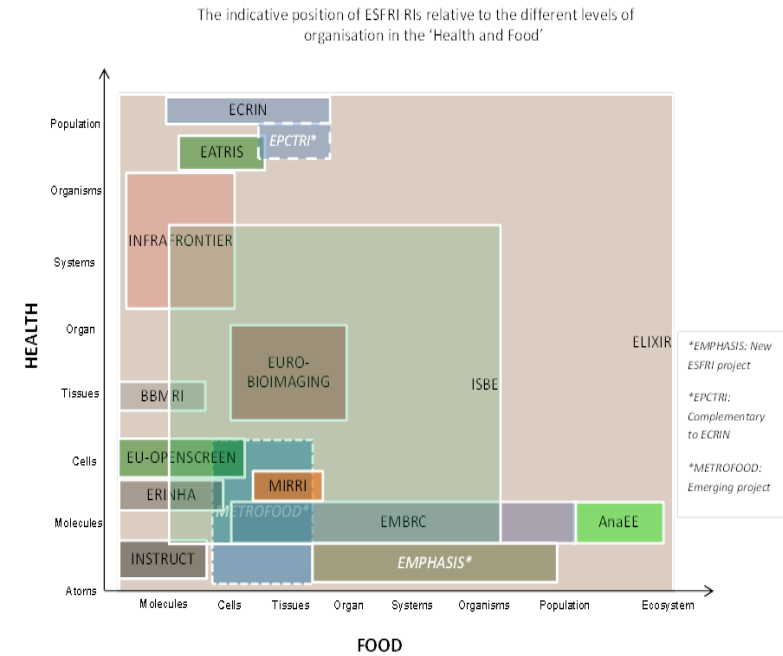
ENE – Harald Bolt

ENV – Gelsomina Pappalardo

HF – Gabriela Pastori

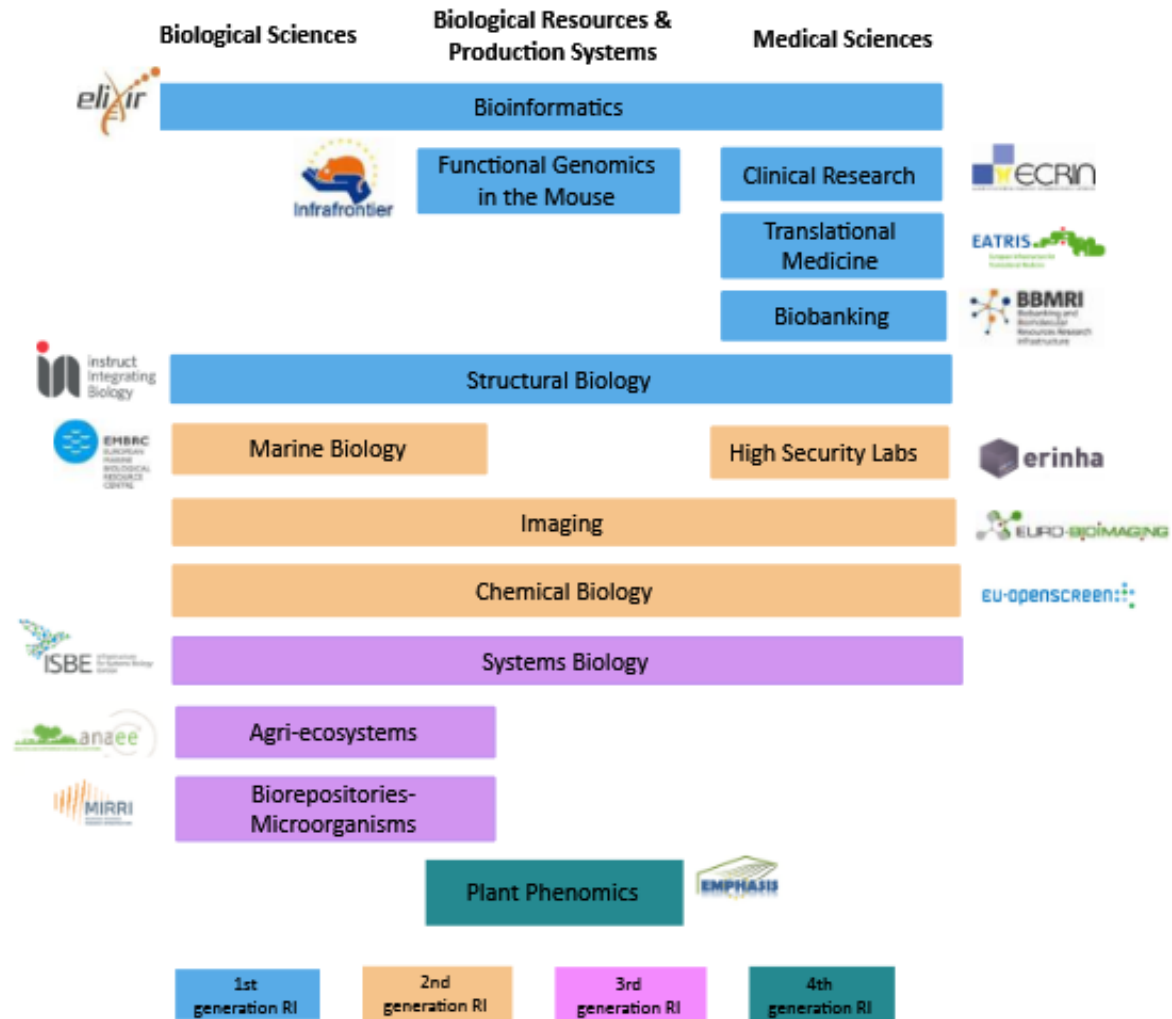
PSE – Jose Luis Martinez

SCI – Jacques Dubucs



# Health and Food Strategy Working Group

## Landmarks and Projects



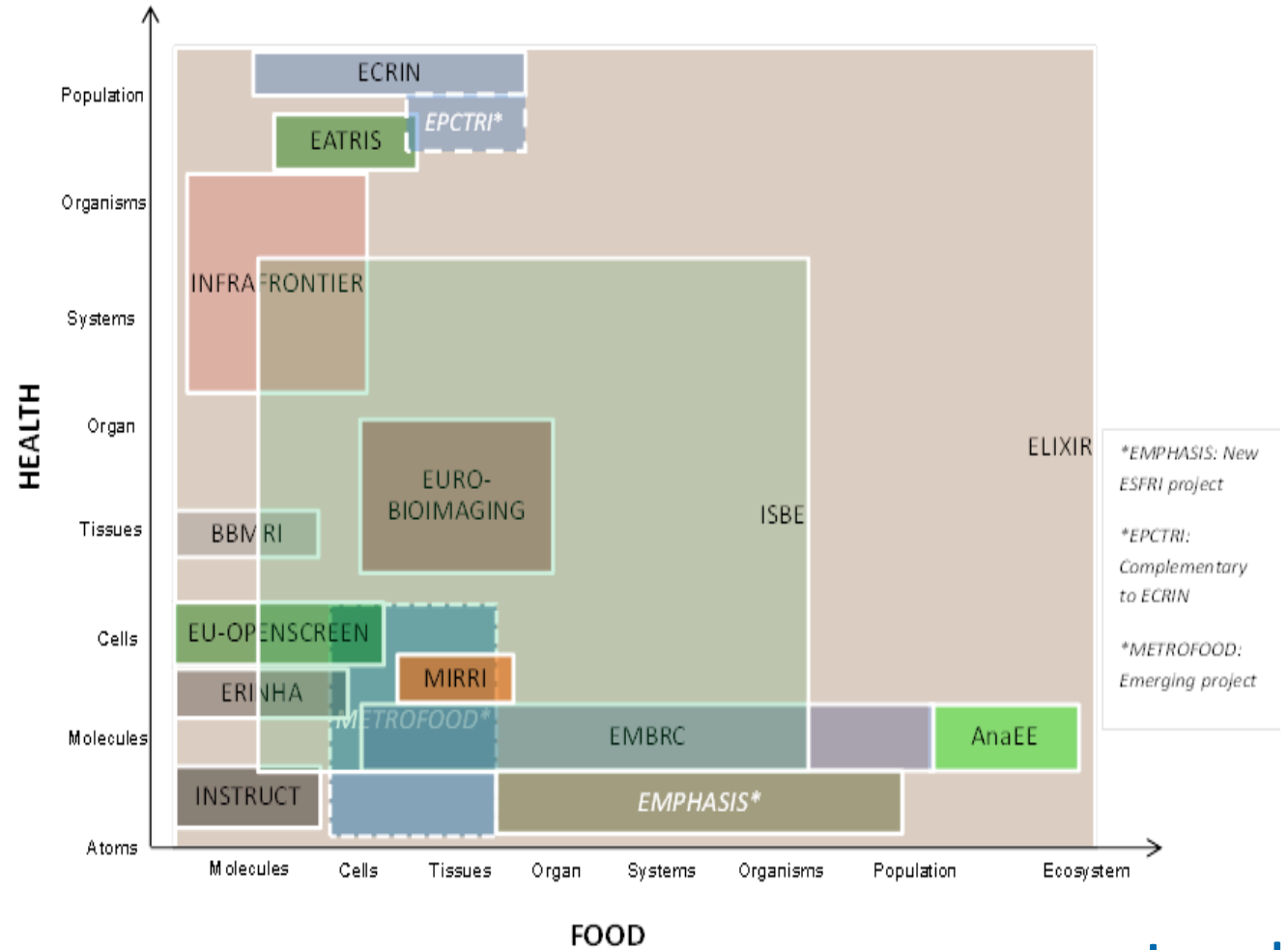
# Health and Food Strategy Working Group

Strategy Report on Research Infrastructures  
**ROADMAP 2018**

## Landmarks and Projects

## Complementary Emerging

The indicative position of ESFRI RIs relative to the different levels of organisation in the 'Health and Food'



Launch event

ICRI 2016, Cape Town - South Africa

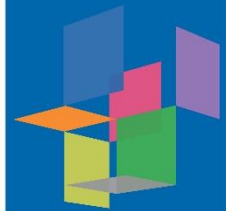
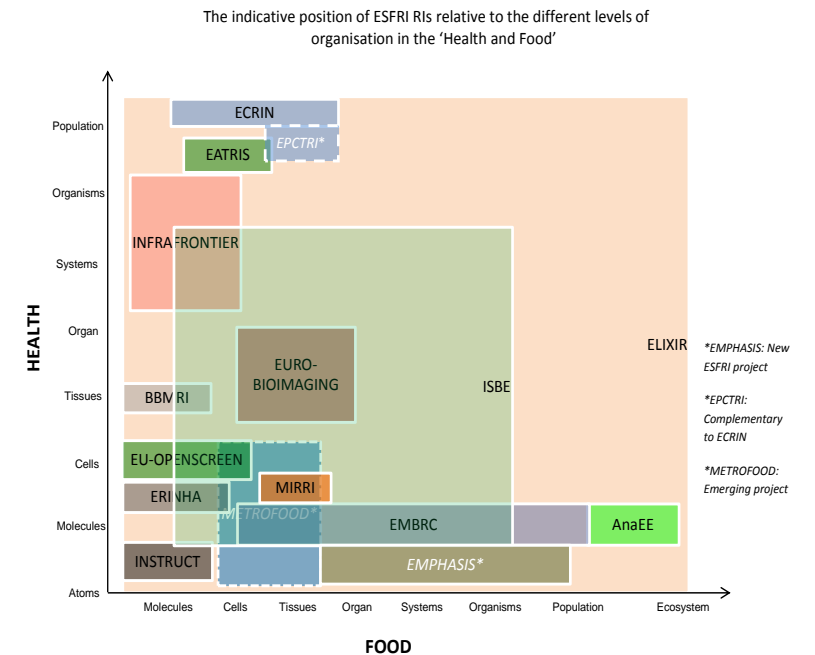


# Health and Food Strategy Working Group

## Landscape analysis

HF SWG plans its analysis in **four broad steps** that:

- set up a framework of the landscape analysis;
- evaluate the current status of the RI landscape and identify gaps;
- prioritise gaps to be filled, based on criteria defined at the beginning of the work;
- make recommendations to ESFRI Forum.

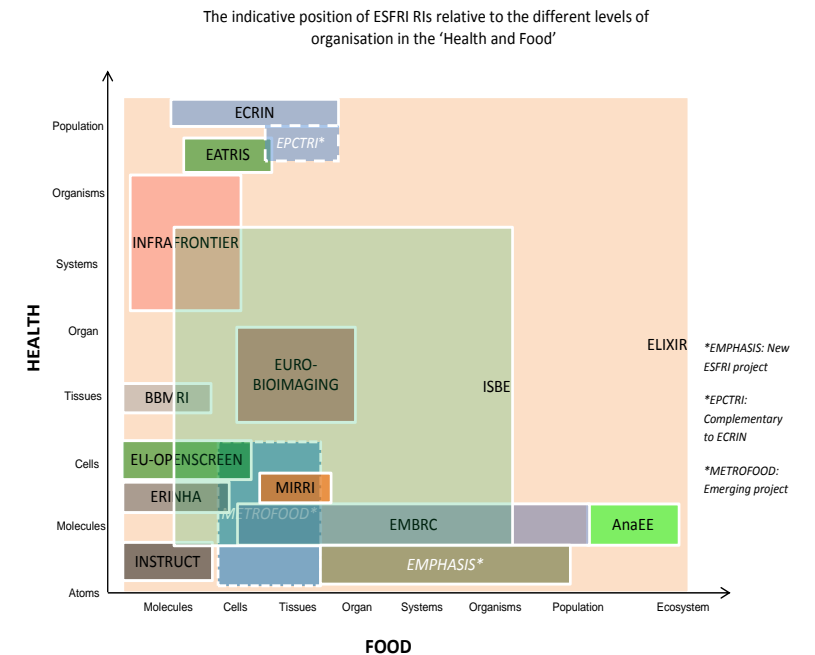


# Health and Food Strategy Working Group

## Landscape analysis

### Resources

- Analysis of National Roadmaps;
- Areas identified previously by the HFSWG and published in 2016 RM;
- Overview of all communities of research infrastructures;
- Recommendations from relevant established bodies/reports.



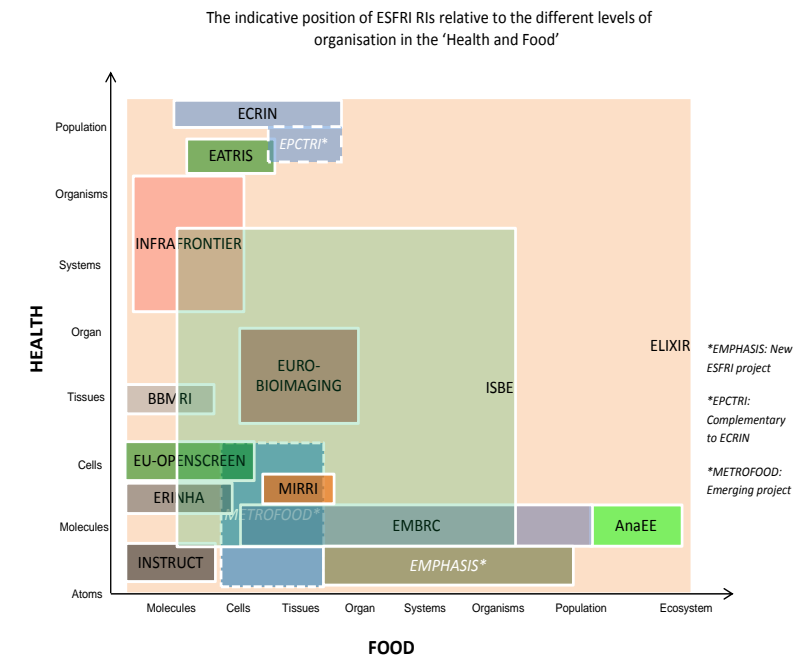


# Health and Food Strategy Working Group

## Landscape analysis

### Criteria

- Scientific and technological knowledge delivered (or contribution to the advancement of science and technology);
- Potential for structuring the ERA and addressing fragmentation;
- Timeliness (urgency; opportunities Europe will lose if delayed);
- Range of scientific communities covered and potential for integration;
- Potential for knowledge and technology transfer, training and increasing capacity;
- The extent to which the new infrastructure responds to the needs and improves the access for scientific communities;
- The extent to which the new infrastructure meets a gap in and connects to HF SWG landscape.



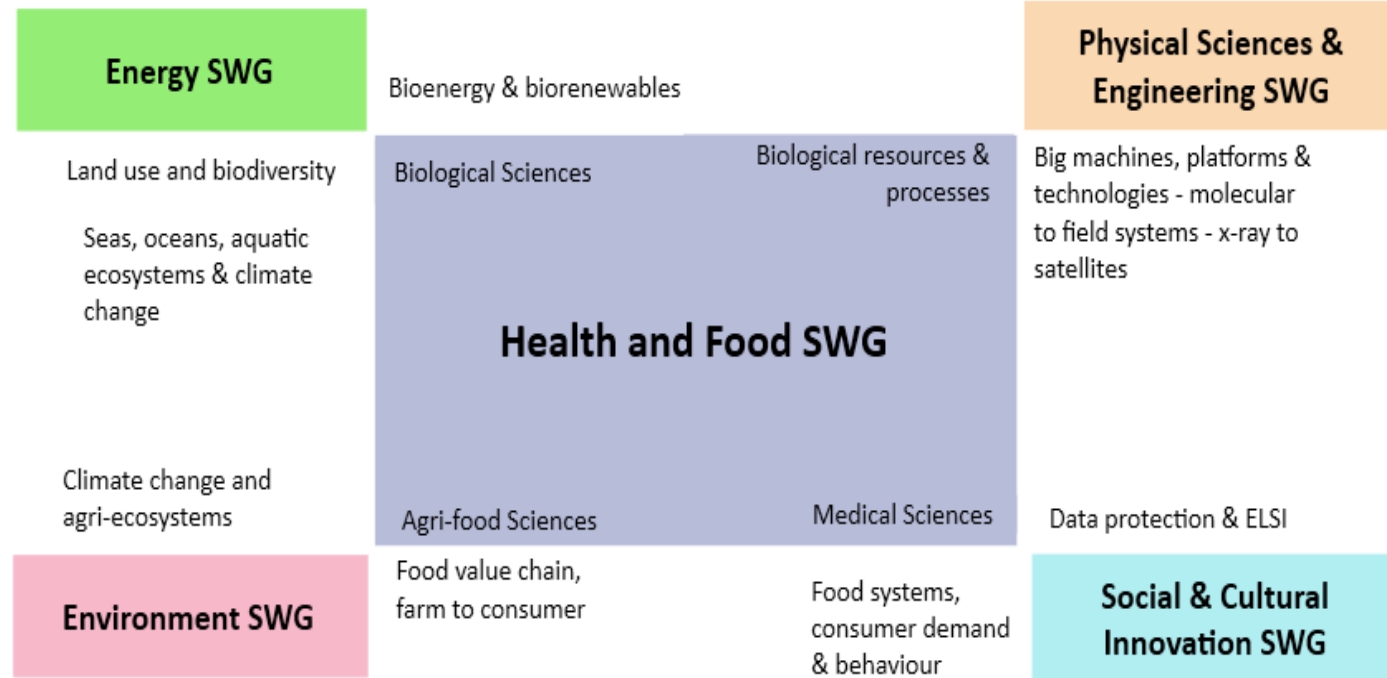
Launch event

ICRI 2016, Cape Town - South Africa



# Health and Food Strategy Working Group

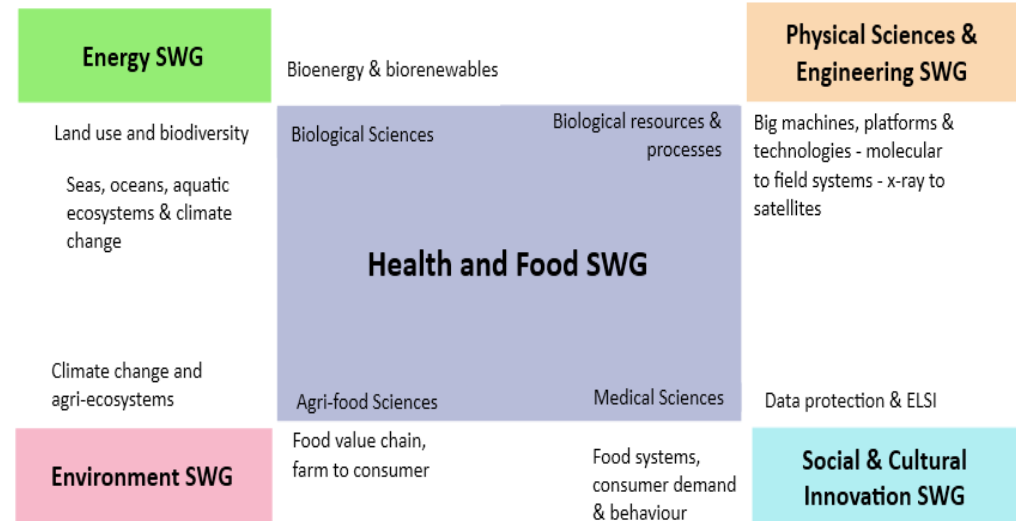
## Working at the boundaries New opportunities and new questions



# Health and Food Strategy Working Group

**Working at the boundaries  
 New opportunities and new questions**

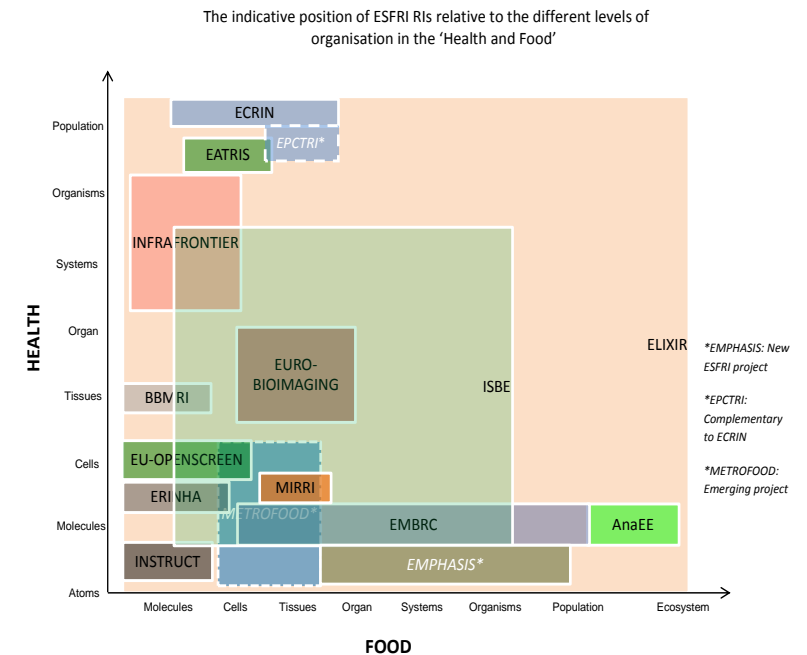
**CONNECTING THE  
 LANDSCAPES**  
 e.g. from ageing to food  
 systems; from food and non-  
 food systems to satellites



# Health and Food Strategy Working Group

## Towards a methodology for measuring socio-economic impact of RIs

- Generic to HF specific approaches for measuring socio-economic impacts of RIs
- Need to consider:
  - Different stages of RI lifecycle (preparatory, operational and beyond)
  - Different types of RI (single sited, distributed, virtual services etc.)
  - Varying RI contexts (regional, national, pan-European, global)
  - Varying users and services types
  - ...

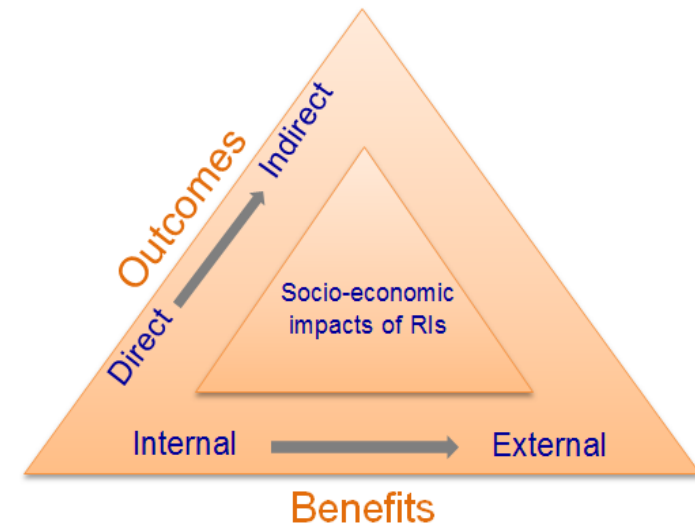


# Health and Food Strategy Working Group

## Towards a methodology for measuring socio-economic impact of RIs

- Socio-economic impacts can be identified as ‘benefits’ that impact economic growth and social changes
- KRDS\* Benefits framework – organises outcomes in broad ‘dimensions’ of benefits
  - Direct and indirect benefits
  - Near term and long term benefits
  - Internal and external benefits (i.e. private and public benefits)
- Given the specificity of each RI, difficult to comprehensively identify all potential benefits from RIs

\*Keeping Research Data Safe (KRDS) Benefits Framework



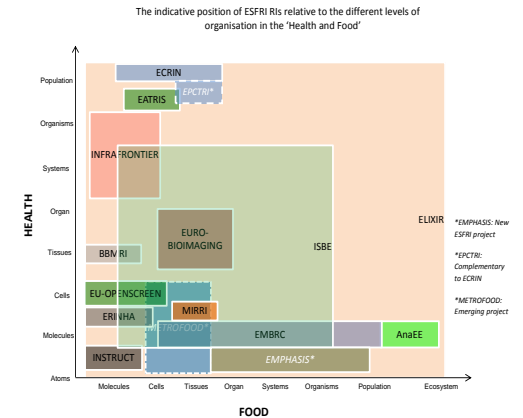
Outcomes and benefits framework (adopted from Beagrie et al 2010, Charles Beagrie 2011)

# Health and Food Strategy Working Group

## Towards a methodology for measuring socio-economic impact of RIs

- **Direct benefits:** Positive impact directly made by RIs
  - Examples: directly created jobs; direct outputs from using RI service; reduced time for data acquisition etc.
- **Indirect benefits:** Positive impact resulting indirectly from the RIs (*negative impact avoided due to the existence and use of RIs*)
  - Examples: commercial supplier's turnover due to procurement of equipment/resources for RI, reduced duplication of effort as a result of using RI services etc.
- **Near term benefits:** Benefits received in the near term (up to 5 years)
  - Examples: publications, professionals trained etc.
- **Long term benefits:** Benefits received in the longer term (beyond 5 years)
  - Examples: new spin offs as a result of scientific output through the use of RI services,
- **Private benefits:** Benefits to individuals and stakeholders directly affiliated to the RI
  - Examples: financial benefit to RIs, publication in journals, theses etc.
- **Public benefits:** Benefits to individuals and stakeholders not directly affiliated to the RI
  - Examples: impact on policy decisions as a result of research outcomes etc.

From  
generic to  
HF specific

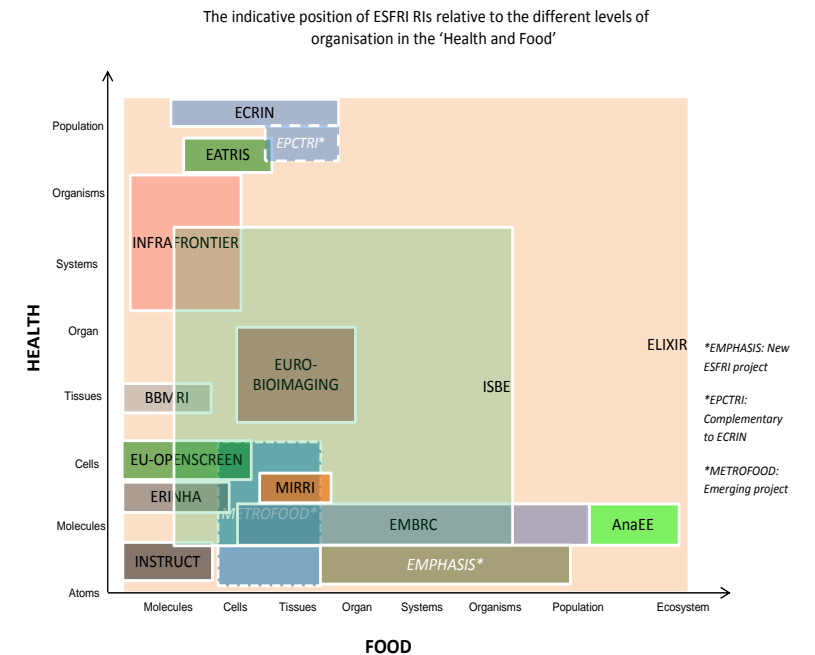


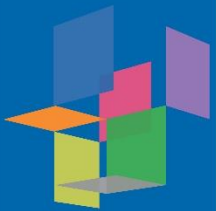
Aligned to value of RIs and connected to investment strategies

# Health and Food Strategy Working Group

## The landscape keeps evolving – our challenges remain urgent

- How will our RIs evolve?
- What will the future user needs be?
- European leadership
- Internationalisation and Visibility
- Individuality and Convergence





**Thanks!**

