



Foresight for policy-making



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Joint Research Centre

Foresight and Behavioural
Insights Unit

Serving society

Stimulating innovation

Supporting legislation



Outline

- Brief introduction to the JRC
- What is foresight?
- Example JRC Foresight study on Food & Health





JRC - The European Commission's in-house science service

Mission:

To provide EU policies with independent, evidence-based scientific and technical support throughout the whole policy cycle.

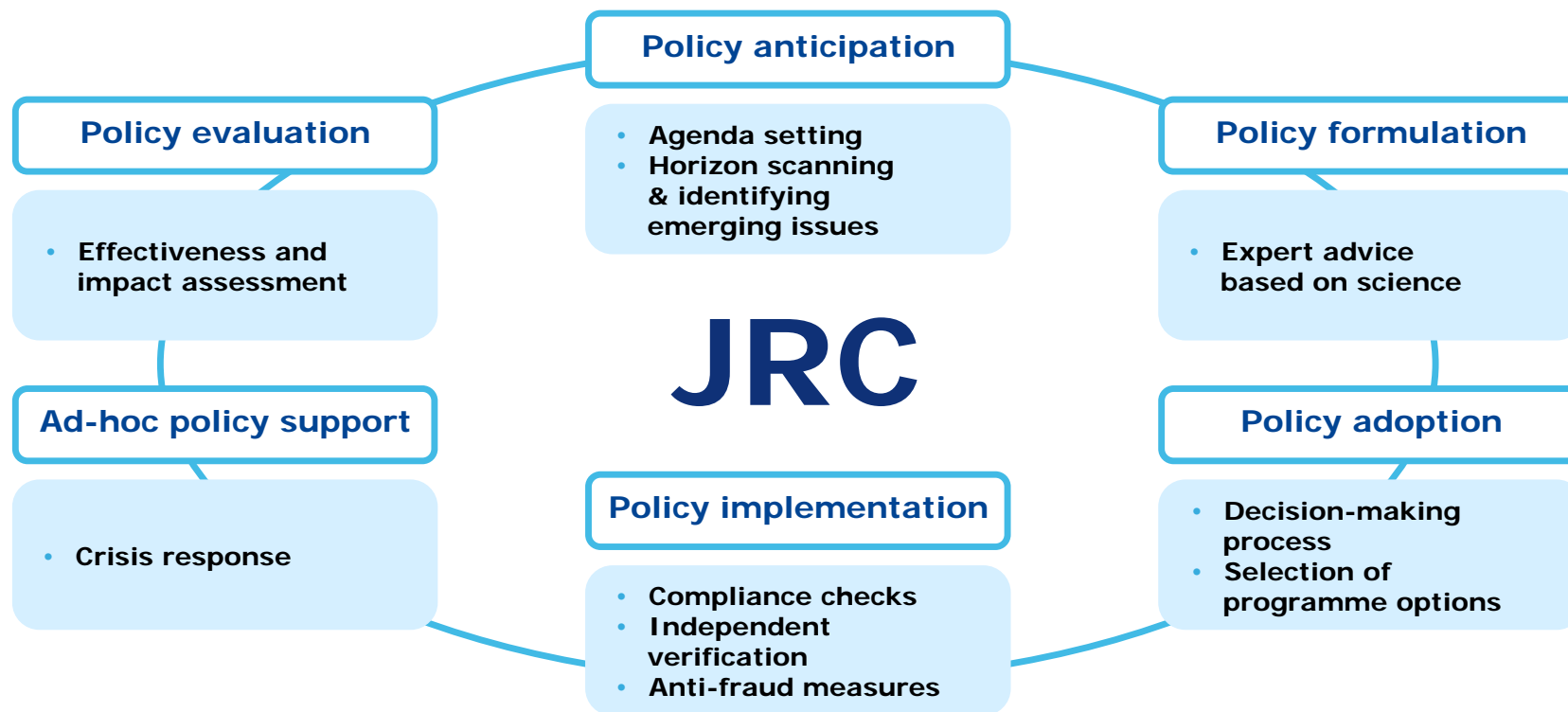
Quick Facts:

- Established in 1957
- 7 institutes in 5 countries
- 3 023 scientific, technical and administrative personnel
- 2013 Budget: €386 million





Implementing the JRC Mission in the EU Policy Cycle





What is foresight?





Why is thinking about the long-term powerful?

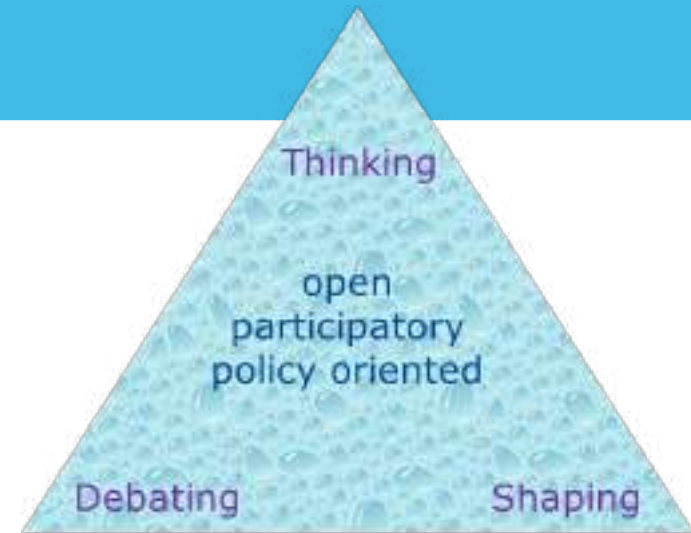
- helps to get out from present day concerns
- helps to go beyond the current mainstream thinking
- helps to look for opportunities
- better anticipate the challenges that shape the future
- supports creativity for today's strategies and actions
- helps break gridlock





Foresight ...

- does not predict the future
- complements desk research analyses with structured dialogue
- enhances future thinking by gathering anticipatory intelligence from a wide range of knowledge sources in a systematic way
- structures the analyses to ensure the emergence of collective intelligence derived beyond established pathways and links it to today's decision making





Foresight, Forecasting, Planning

- Foresight**
- can use forecasts, can contribute to planning
 - assumes that there are numerous possible futures that can be created through the actions we choose to take today
- Forecasting**
- often assumes that there is one probable future
- Planning**
- has shorter time horizons. Typical foresight time horizons vary between 5-30 years but may be longer



When should foresight support policy?

- **When critical functions change or are pushed to change:** decline of key industrial sectors, after natural catastrophes, climate change ...
- **When stakeholders need to stand behind decisions:** research priorities, regional development ...
- **When decisions entail deep or long-term engagement and investments:** infrastructures, healthcare ...
- **When innovation needs to be fostered:** adaptation to changed circumstances ...



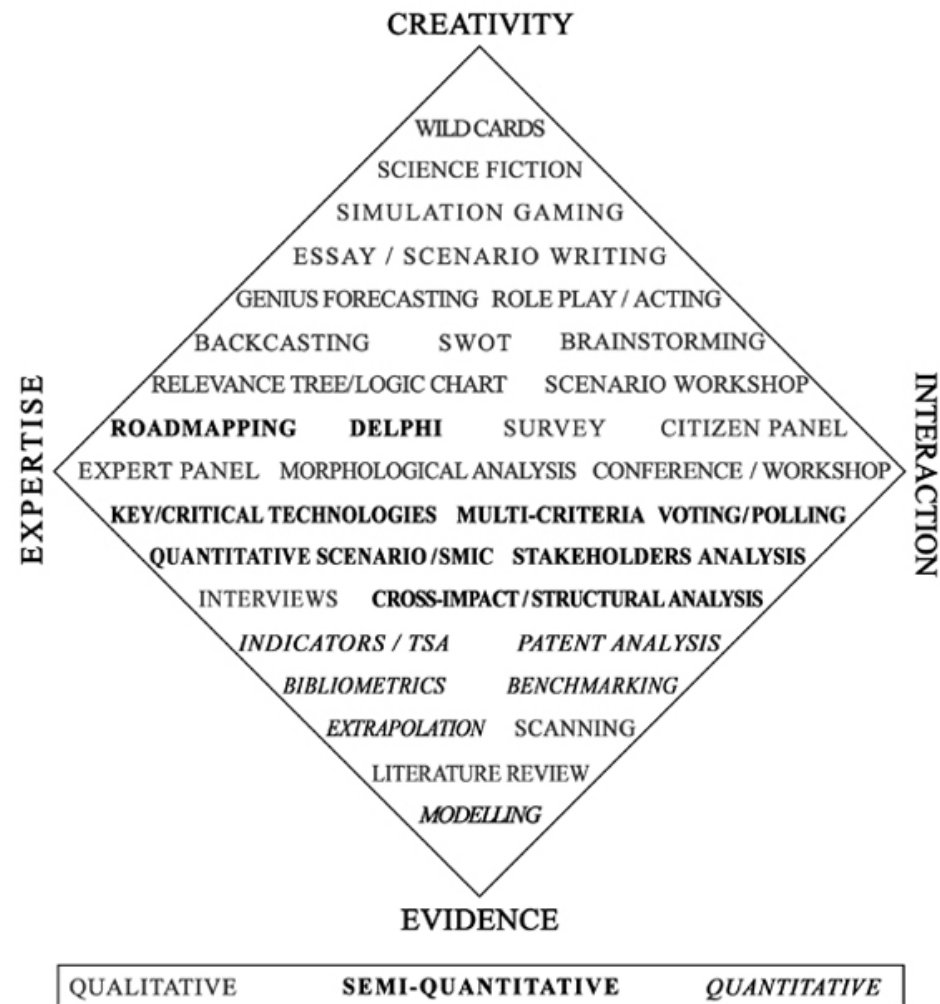
Foresight methods

Foresight diamond

Popper, R. (2008)

Often used, e.g. :

- Delphi
- Scenarios
- Extrapolation
- Brainstorming
- Interviews
- Literature review
- Expert panels
- Workshops





JRC Foresight study

Tomorrow's healthy society – research priorities for foods and diets

Foresight and Behavioural Insights Unit

Institute for Health and Consumer Protection IHCP

Institute for Reference Materials and Measurements IRMM





JRC Foresight study: Tomorrow's healthy society – research priorities for food and diets

Objectives

- Identify research priorities that support the provision and consumption of foods and diets for health
- Support the implementation of Horizon 2020

The study was carried out on request of DG RTD.





Implementation

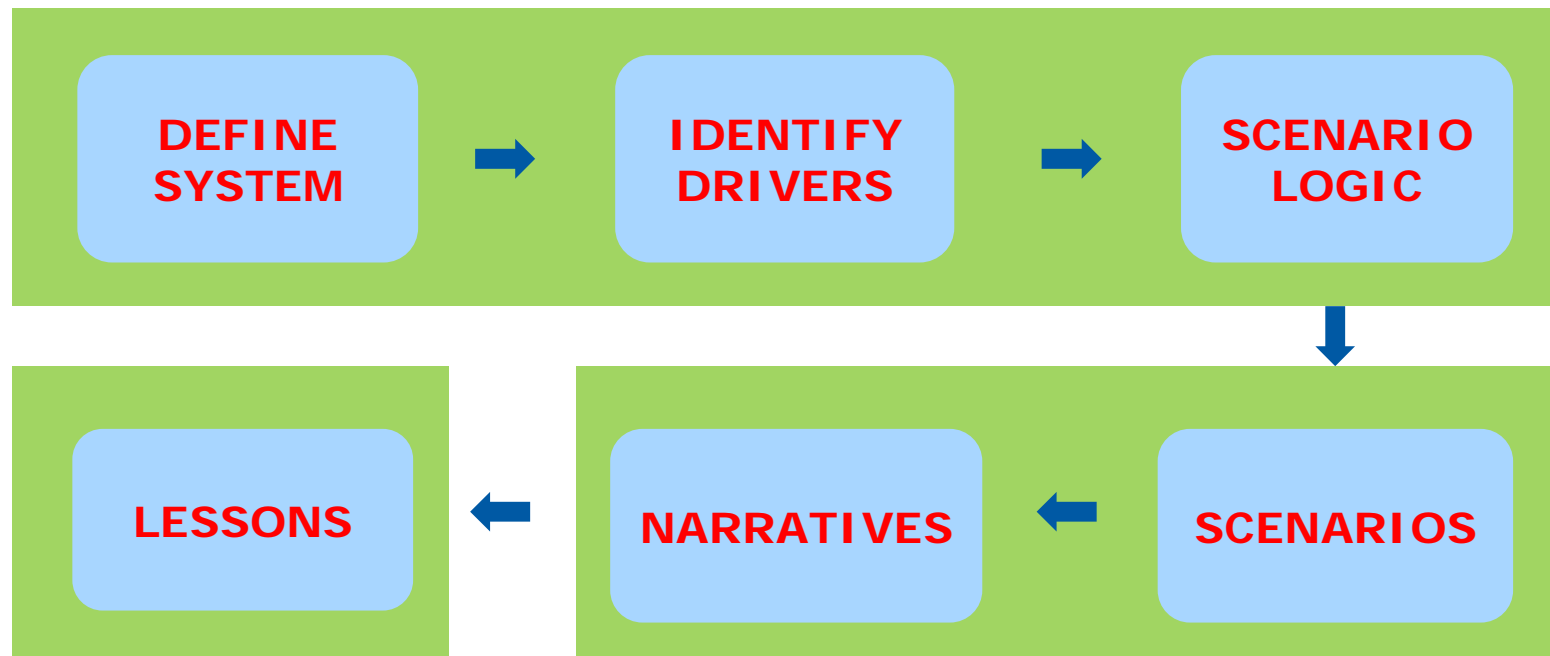
- Time horizon 2050
- Focus on the EU and EU consumers
- Scenario-based foresight approach
 - Scenarios are used to highlight possible futures, they do not predict the future or suggest a preferred future.
 - They are stories (creative combination of data, facts and hypotheses) which explore how the future could look like under the influence of a strengthening or weakening of a combination of driving forces.
 - Scenarios can be used to highlight challenges and opportunities to inform today's decisions.





Scenario process for Food&Health study

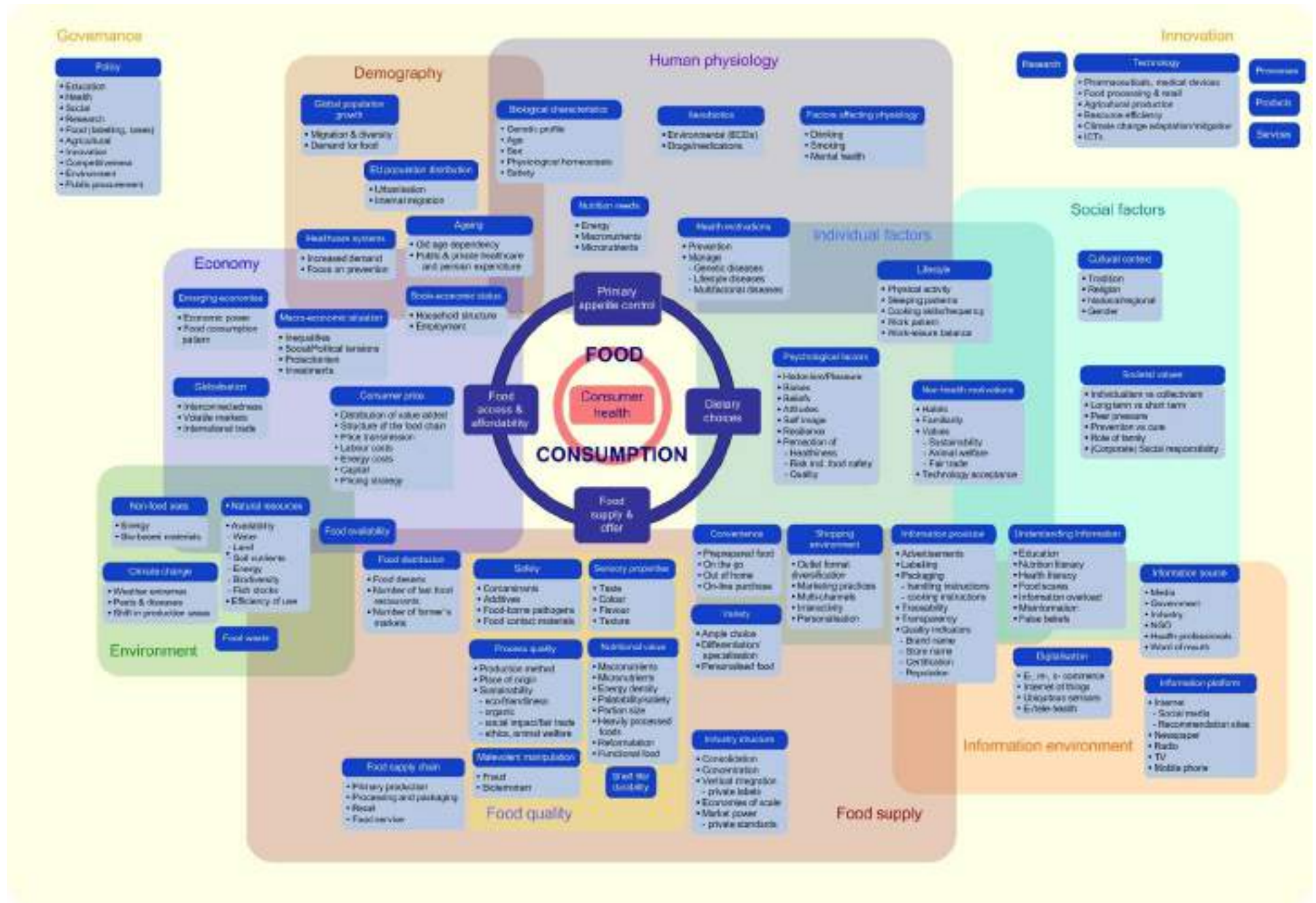
1st workshop



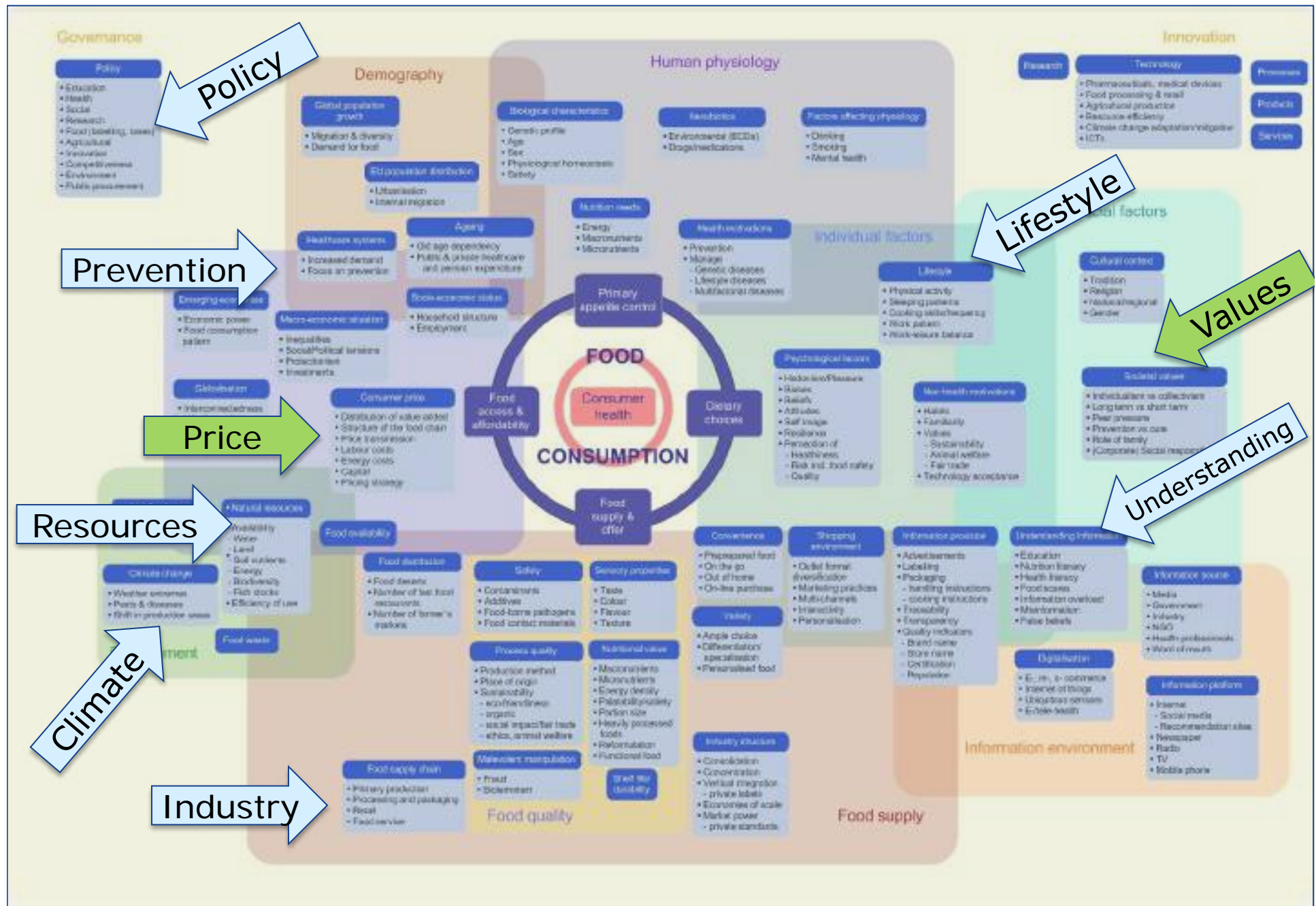
3rd workshop

2nd workshop

Food consumption map



Food consumption map



Strong community spirit

Importance to common goods, rights & social justice

Healthy new world

Heal the world



Scarce natural resources, Climate change, Biofuel competition, at global level

High agricultural commodity price



Me, myself and I

Eat to live

Individualistic society

Individual rights and initiatives valued, self-interest goes before common good

Low agricultural commodity price

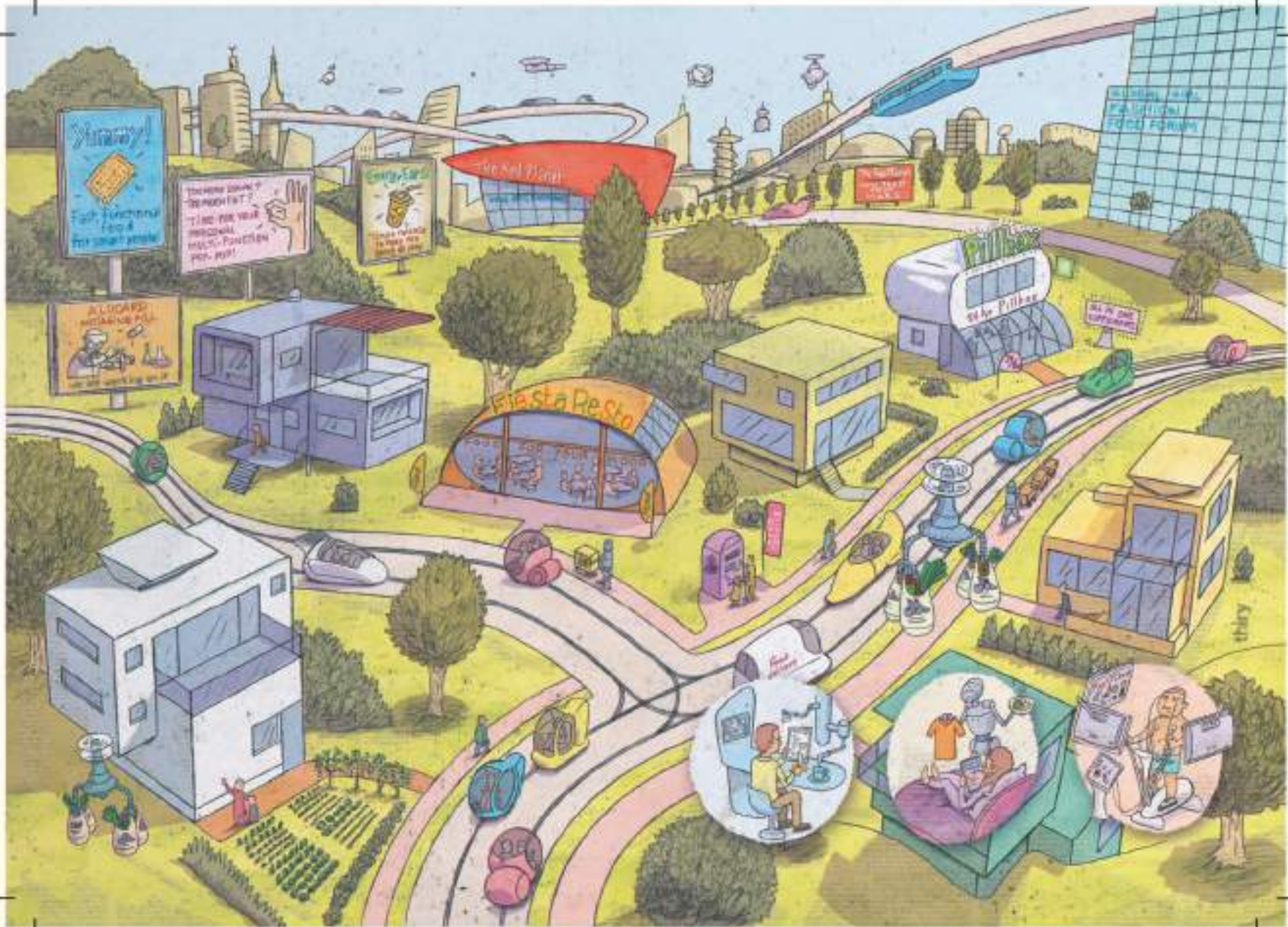
Adaptation to climate change, new generation of biofuels

Heal the world



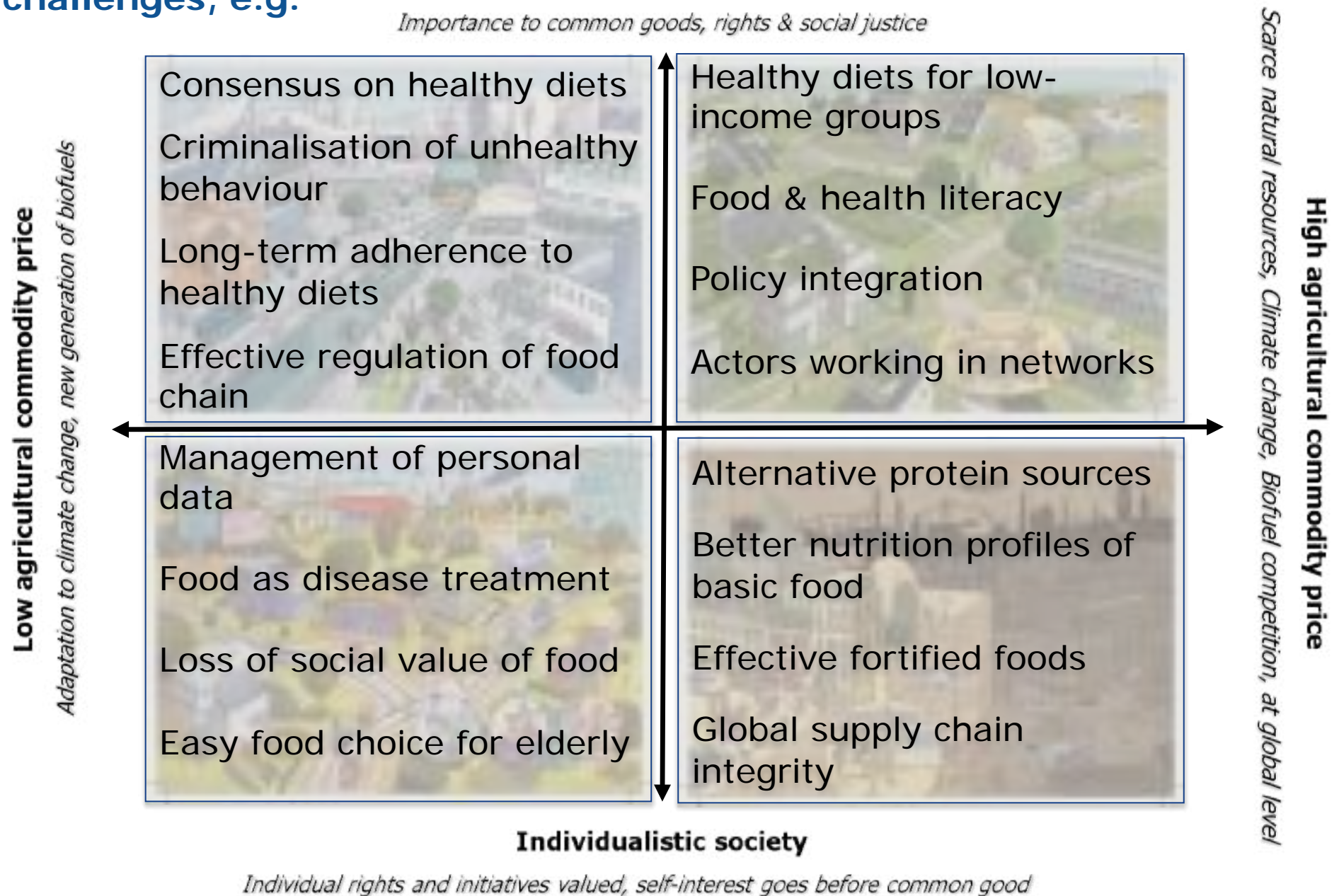


↓ Eat to live



Me, myself & I

Opportunities & challenges, e.g.





Tomorrow's healthy society: Research priorities

Towards healthier eating: integrated policy making

- Improve the evidence base for adoption of healthier dietary behaviours
- Developing a scientific framework for a systems approach to food and nutrition policies
- Provide a framework to design, monitor and evaluate policies

Food, nutrients and health: cross-interactions and emerging risks

- Deepening the understanding of human nutrition: facing the complexity
- Anticipation of emerging risks

Making individualised diets a reality

- Data needs: creation and management of necessary data for enabling individualised diets
- Analysing feasibility and impacts of individualised, healthy diets

Shaping and coping with the 2050 food system

- Understanding the social role of food
- Towards a sustainable food system producing safe, affordable and healthy dietary components
- Supporting technologies to meet societal needs

Multi-disciplinary Systems Approach



More on Food&Health foresight:



Report available soon on JRC website

<https://ec.europa.eu/jrc/en/publications-list>

More on foresight:

Engage today to shape tomorrow -

5th International Conference on Future-Oriented Technology
Analysis (FTA)

Brussels, 27 & 28 November 2014



Joint Research Centre (JRC)

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THANK YOU!

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