





Foresight and RRI approaches for outcomeoriented food system strategies

Thom Achterbosch Fit4Food2030, 24 Nov. 2020









Well-targeted research and innovation provides potent entry points for transforming EU's food systems. (J. Bell, J. Broerse, this morning)

- On what compass are we making EU food systems sustainable?
- Foresight is an RRI approach that is helpful for targeting research and innovation.









Sources of inspiration









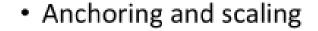
Role of Research and Innovation (R&I) in transforming food systems

From Analysing the System, to Envisioning the Future, and Exploring Pathways ...

...to Experimenting, Assessing and Translating.

- Understanding food system complexities and challenges
- Exploring and designing innovation and policy options for overcoming food system challenges

 Implementing interventions and evaluation of the evidence on impact







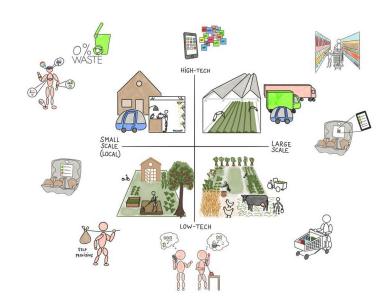
Achterbosch, Getz, Dengerink, Berkum (2019) for SCAR Food Systems Based on an interpretation of Matijs, Nevens, Vandenbrouck (2012) and Geels and Schot (2007).

Understanding systems, exploring pathways



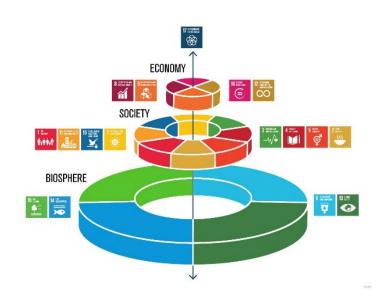


- -Trends, drivers
- -Voice, data, modelling



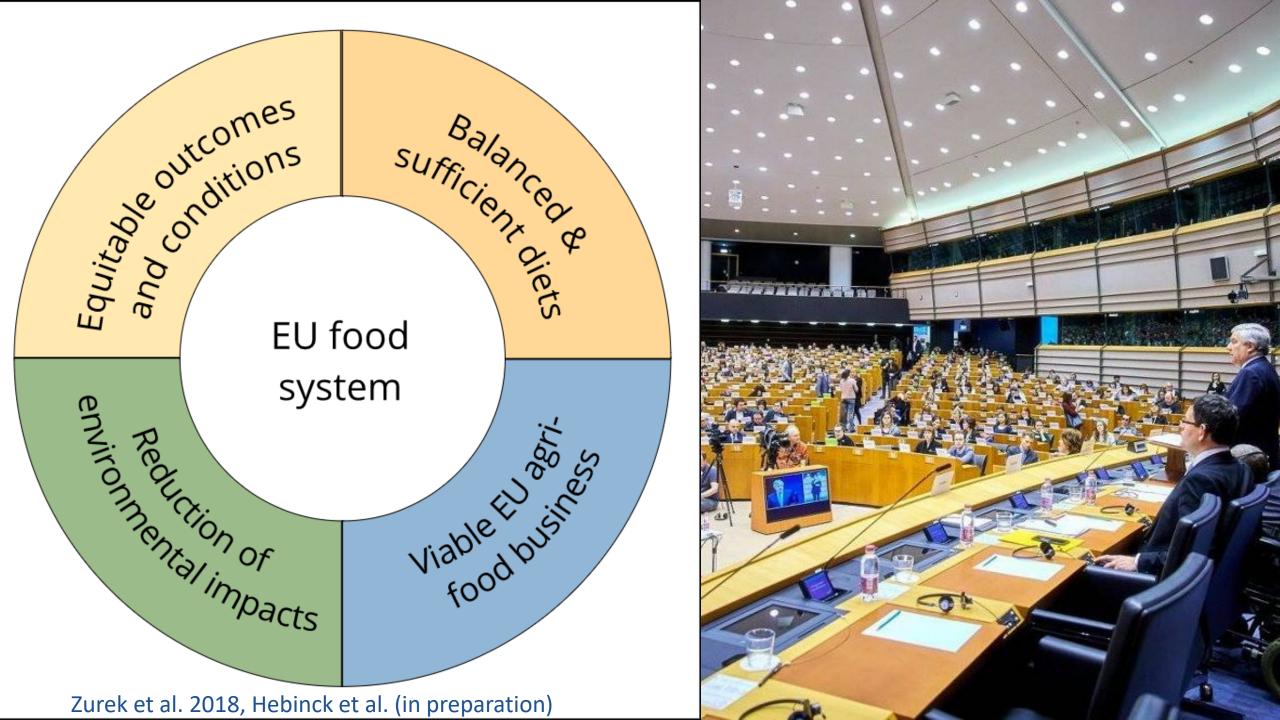
Transition pathways

- Vision/key areas
- Instrument design



Deliver 2030 Agenda

- On-target
- Co-benefits / trade-off



Prioritizing: Sustainability compass of EU food systems (2)

Policy goal	Metric for assessing EU sustainability performance 2030 against targets	rmance in Performance* from 0 (worst) – 100 (best)
Balanced and sufficient diets for EU citizens	Energy balance	Range: 48-71
	Adequate Food intake	75
	Adequate Nutrient intake	69
	Minimized burden of diet-related diseases	Low
Equitable outcomes and conditions	Equity and social justice: consumers, producers, resources	No metrics
Reduction of environmental impacts	Climate stabilisation	0.1
	Clean air and water	3
	Biodiversity conservation	49
	Preservation of natural resources	Low/moderate
Competitiveness of the EU agri- food business	Value added	17
	Productivity & innovation	40
	Job creation	SUSFANS Food spates for health-environment - equity and enterprise
	Carbon efficiency	93

Based on scenario projections with the SUSFANS assessment model (Frank et al., 2019) www.susfans.eu



1 - Experimentation on the economics of food systems transformation



New macro business case for sustainable EU agri-food system?

"Quality for Europe"

"Safety for the world"

"Circular systems"

"Consumer-centric"















shutterstock



2 - Integrate "mental models" in the pathways/ systems solutions



Future food

Circularity in food





Quelle: Pixabay



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774088

Example of visioning with psychological drivers





DLEASURE



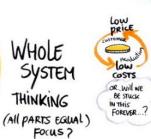
















Time & Money





What kind of world do I want a to have ...



"OUTER" & "INNER"

HEALTH



The field is the lab: "ground-proof" academic studies, support innovation scenarios with evidence, learn, transform











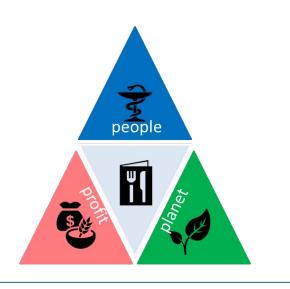








Underlying production systems





Thank you for your attention

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www.wur.nl/economic-research

http://susfans.eu



Towards FOOD 2030 future-proofing

the European food systems through Research & Innovation

> www.fit4food2030.eu #FOOD2030EU