



Promoting systemic innovation with and for society







SGIODAI Instituto de Salud Global Barcelona IrsiCaixa

Managing complexity with RRI and system thinking

Is Responsible Research and Innovation enough?

Rosina Malagrida, Head of the Living Lab for Health at IrsiCaixa & Co-coordinator of the Barcelona "la Caixa" Living Lab

Cherries, September 2020





Our model of civilization is mainly defined by R&I

...and it is not sustainable







Respond to persistent & complex societal challenges







- Different solutions, different definitions of problem
- Involve different discplines and stakeholders
- At local and global level
- Complexity at c-t level vs at c-t & social



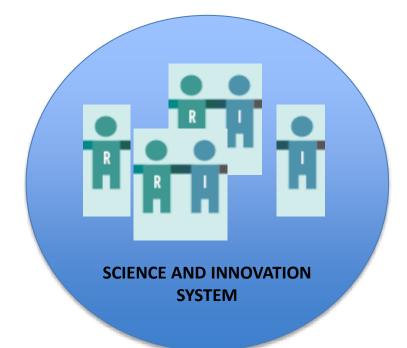
CHANGE

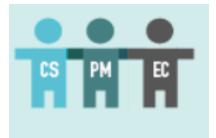
New form of problem solving





New model of relationship between R&I and stakeholders















EÛ





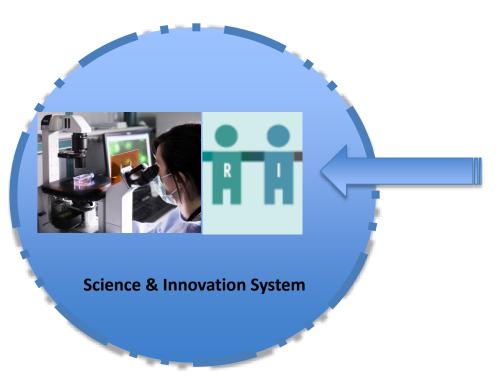


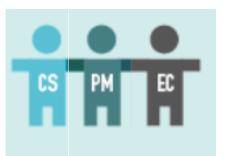
Science & Innovation System





Responsible Research and Innovation





SHARED RESPONSIBILITY DURING THE R&I PROCESS

(DIALOGUE FOR HIGHER IMPACT)

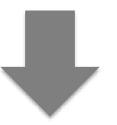
Impact towards different stakeholders not only patients or citizens!





Intermediary structures between R&I and society

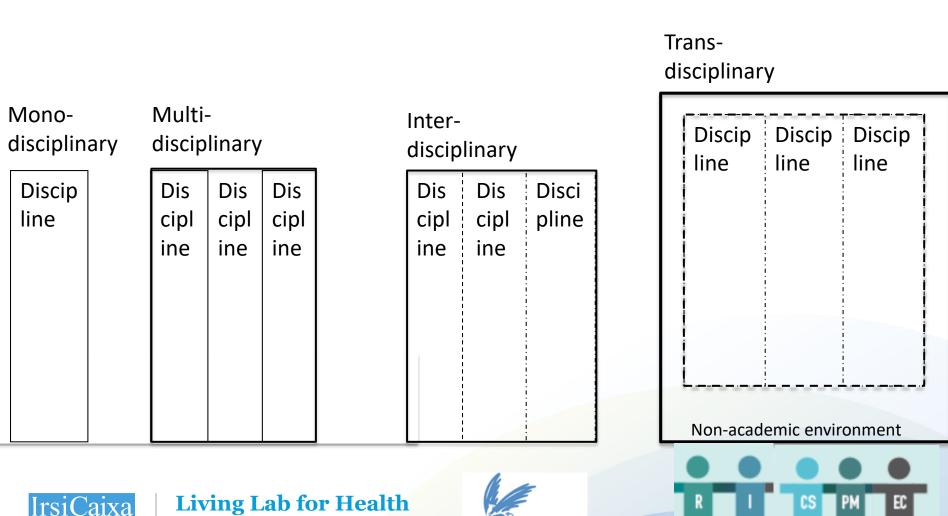




Social Impact



NEED FOR KNOWLEDGE INTEGRATION



vrije Universiteit amsterdam

Institut de Recerca de la Sida



Patient Experience Patient and Public Involvement in R&I (PPI) User engagement Transdisciplinary research Open Science & Open Innovation Science in Transition Community Based Participatory Research Responsible Research & Innovation Design oriented research

Design thinking



Social Impact





DEFICIT MODEL





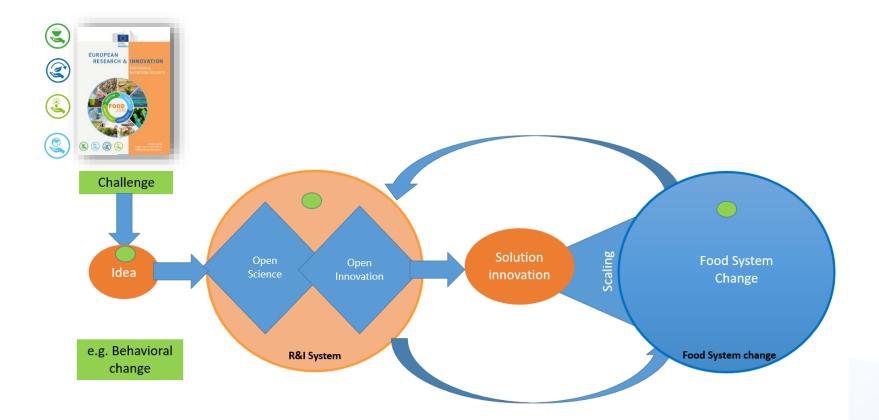
"We have efficacy at individual level and inefficacy at system level"

René Von Schomberg, EC, Bdebate, October 2018





The currrent paradigm: R&I with and for society

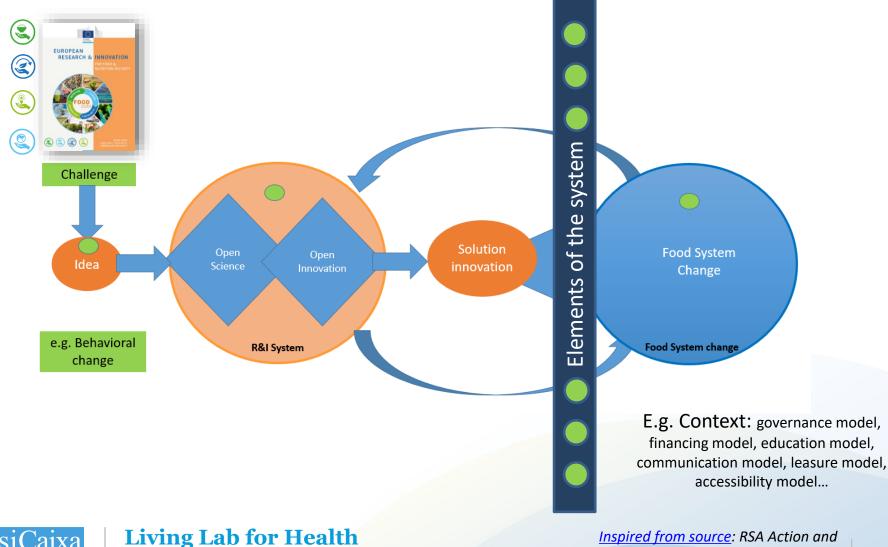






Inspired from source: RSA Action and Research Centre. From Design Thinking to Systems Change

The currrent paradigm: R&I with and for society

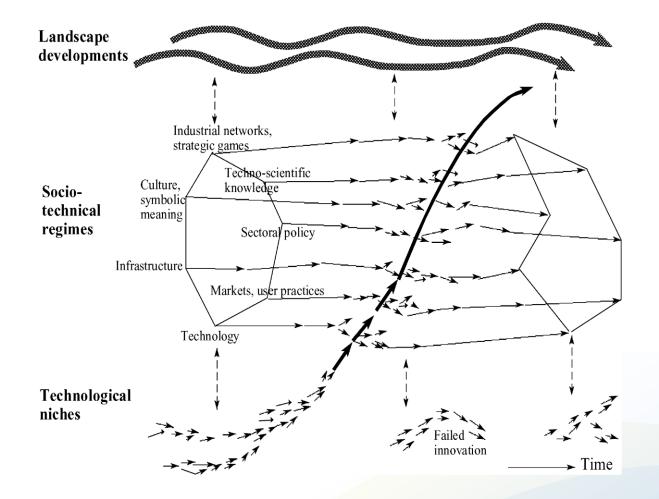


Institut de Recerca de la Sida

Promoting systemic innovation with and for society

Inspired from source: RSA Action and Research Centre. From Design Thinking to Systems Change

MULTI-LEVEL PERSPECTIVE IN TECHNOLOGICAL TRANSITIONS Transdsiciplinary complexity

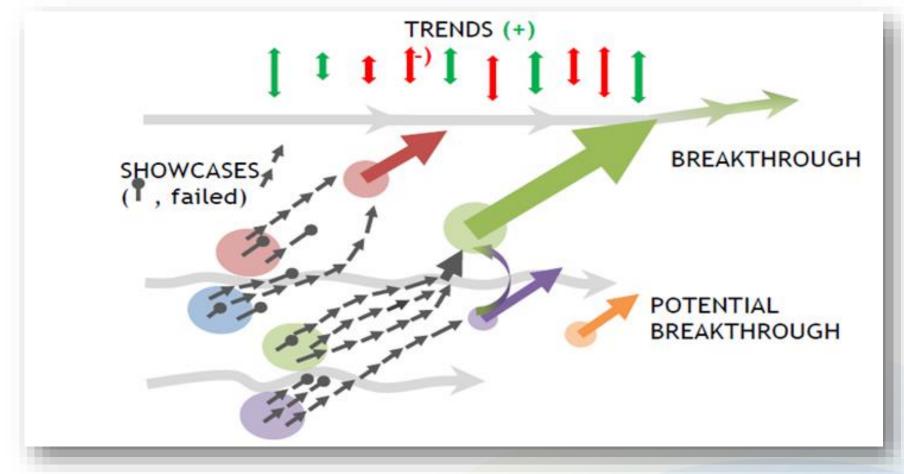




Living Lab for Health

Geels, F. Technological transitions as evolutionary reconfiguration processes: a multi-level perspective and a case-study. Research policy, 2002

How is change happening within transitions?





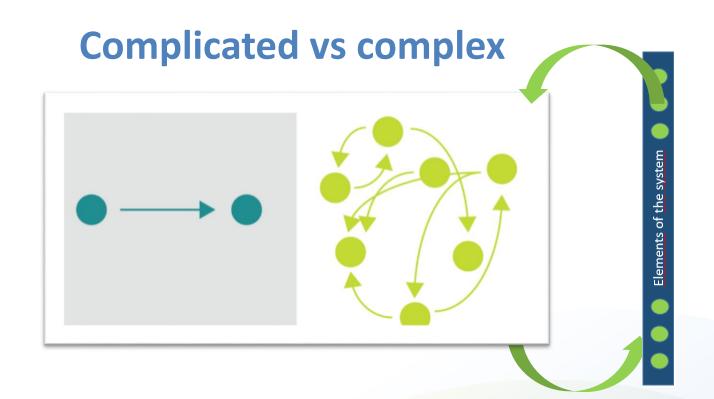








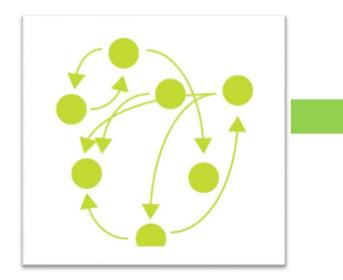








Complexity of the system









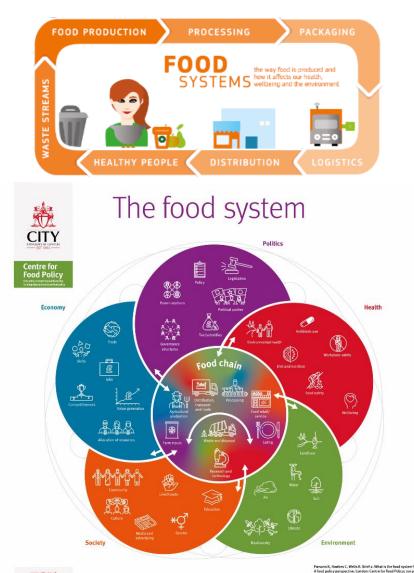
How can we manage complexity?

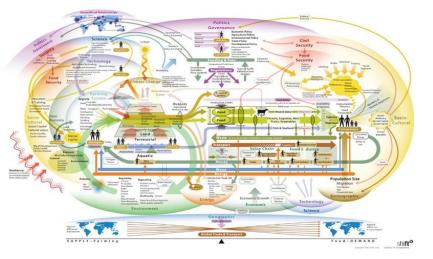






How can we explain complexity?



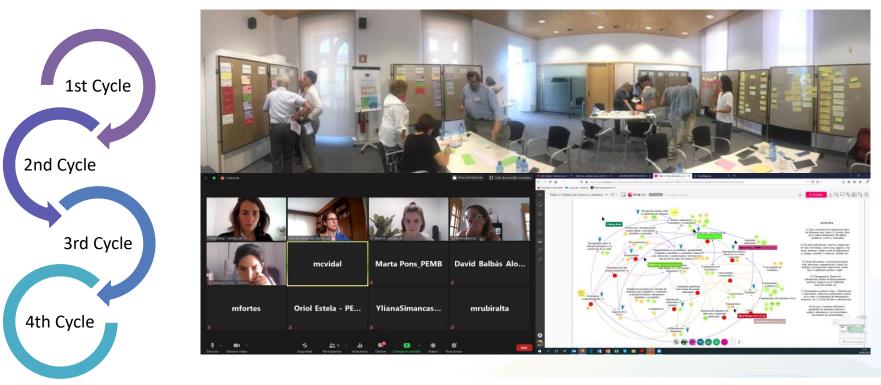






New ways of problem solving

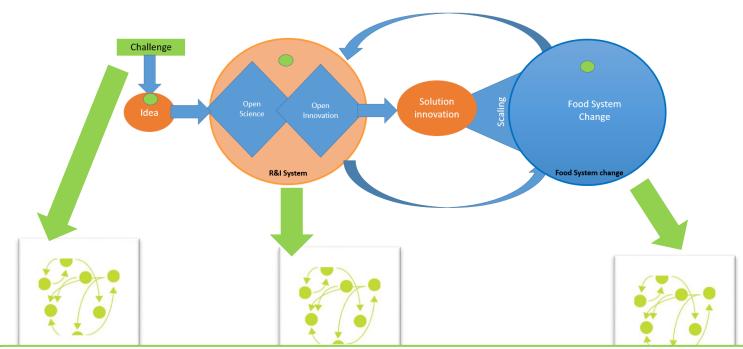
COMMUNITY OF PRACTICE



- **Process**: dynamic, iterative, mutual learning around complexity
- 2. Strategic reflection at organizational and collective level

1.

3. Focus on systemic change: Changes in strategies of organizations and collective strategies with more systemic solutions



System knowledge





Transformation knowledge



Target knowledge





1.Why is it so difficult to solve the challenge?

Key factors and dynamics that hinder change

3.Where is it necessary to promote change? How is change happening? Changes in current strategies and collective strategies

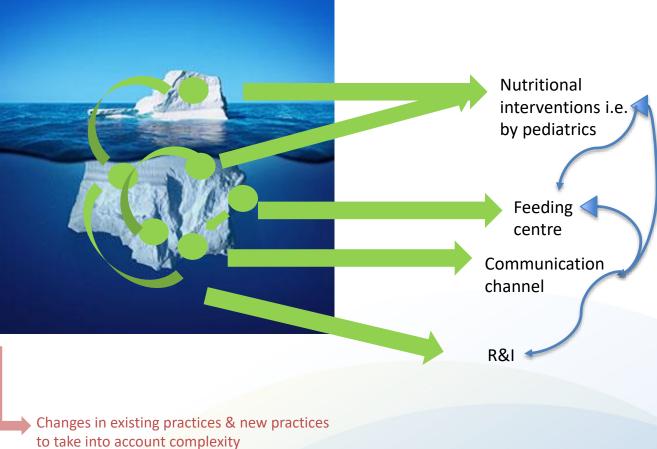
2.What do we want to achieve? Future shared vision





SYSTEMIC INNOVATION





Institut de Recerca de la Sida

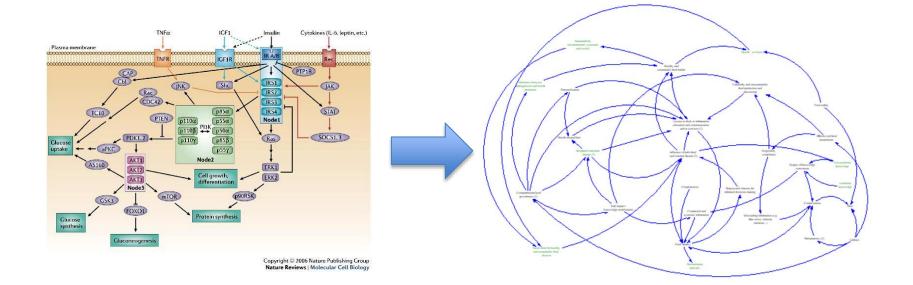
Living Lab for Health

How to transform the R&I system?

Inspiration from different movements...



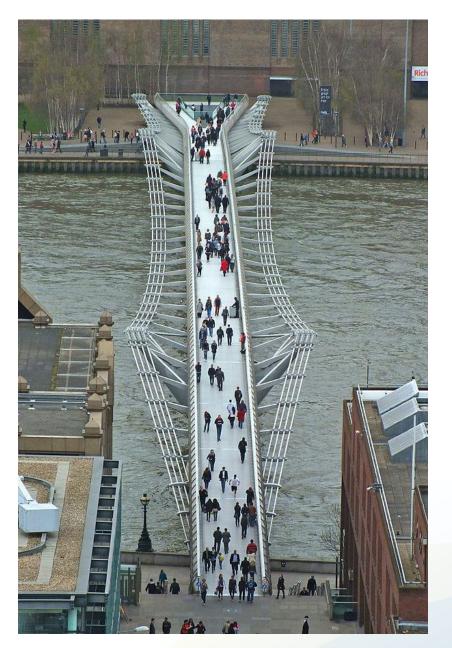
Mapping nature and mapping complexity for change (at TD)



"Missions must include new conversations between fundamental research, applied research and cutting-edge innovation", Mazzucatto, 2018.

Living Lab for Health Promoting systemic innovation with and for society











Thank you!

Rosina Malagrida (<u>rmalagrida@irsicaixa.es</u> @RosinaMalagrida) Head of Living Lab for Health and co-coordinator of Barcelona "la Caixa" Living Lab IrsiCaixa Hospital Germans Trias I Pujol





Barcelona-"la Caixa" Living Lab

