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ESOF, Toulouse, July 12, 2018

Research Infrastructure Roadmapping – challenges from a strategic perspective

Prof. Dr. Dr. h.c. Barbara Haering

My RI roadmapping experience

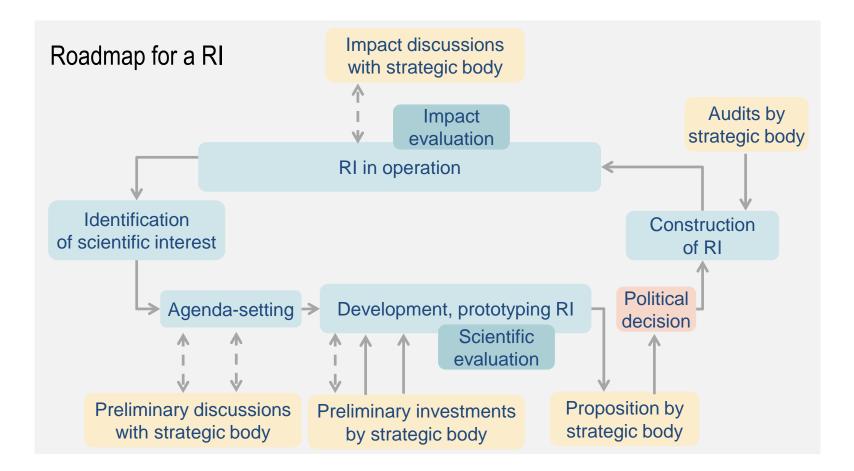
- Working at interfaces: Research, teaching, consulting as well as strategic and political decision making.
- Guidance at the strategic level as member of boards:
 - O President Strategy Committee of the University of Geneva
 - Member of the Board of the ETH Domain
 - Member of the Board of the TU Dresden
 - Member of the Board of Foundation of SNSF
- Decision making at political level as (former) member of the Swiss National Parliament, chairing the Committee on Science, Education and Culture.
- **Research** as part of the H2020 Inroad-Project.

Outline

• Life cycle of a RI: Actors involved

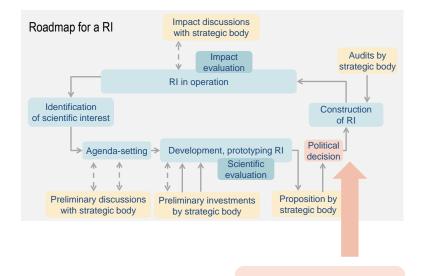
- Complexity of national/ international RI roadmapping
- Challenges and support for strategic decision making

Research infrastructures: Life cycle and actors



RI roadmapping is a societal and cultural process!

- Science is clearly driving the process.
- Strategic boards are involved throughout the life cycle of an RI. They invest seed money at an early stage.
- Politics usually comes in at a late stage – after all strategic decisions have already been taken.



Go! / No go!

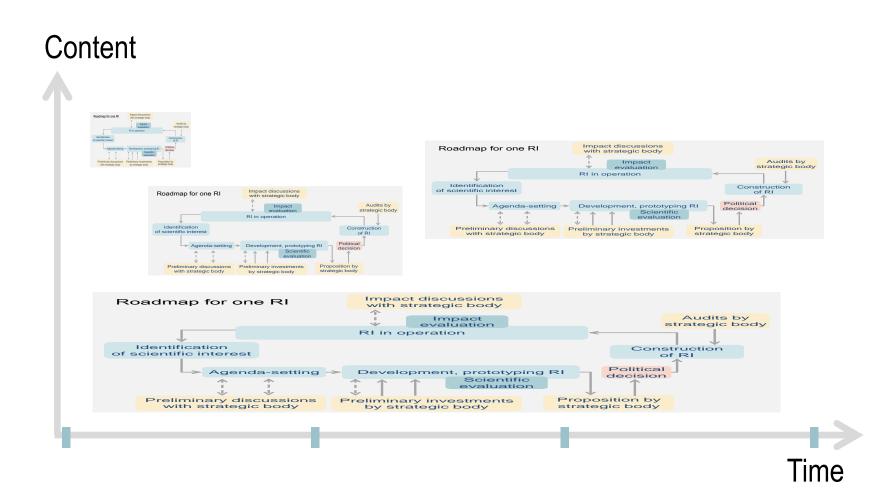
Different logics of actors and stakeholders

	Science	Strategy	Politics
Bodies	 Research/ user community Research/construction community 	 Strategic boards Funding agencies Administrations 	GovernmentParliament
Interests	 Research interests of isciplenary specialists Career interests Economic interests 	 Interests in science and its' return on investment Strategic guidance Delegated responsibilities Advocacy for science Accountability for politics 	 Interests in science and its' return on investment Responsibility for the nation R&I-system Responsibility for public funds Political/ electoral interests of generalists

Outline

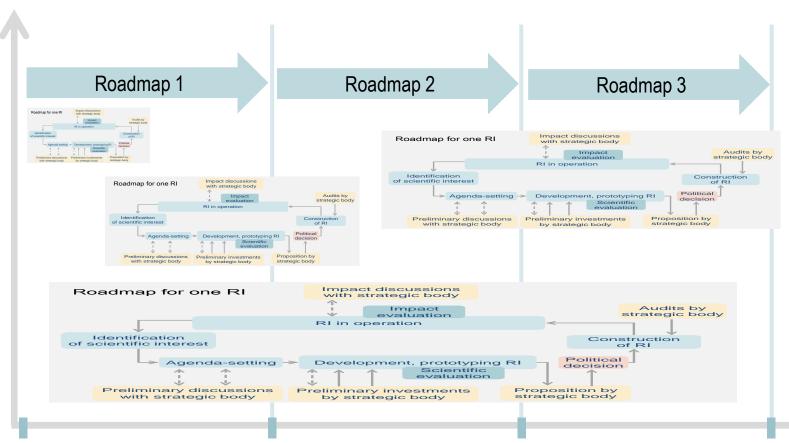
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National roadmaps covering many RI

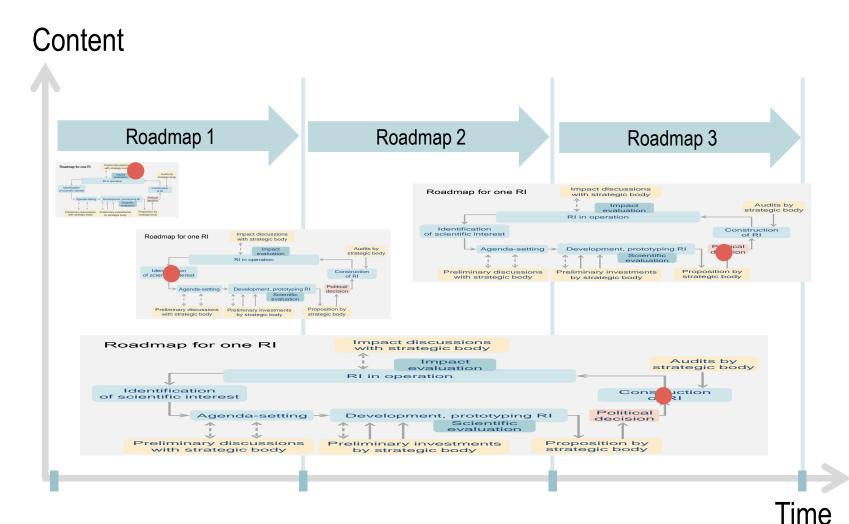


Complexity of national RI roadmapping

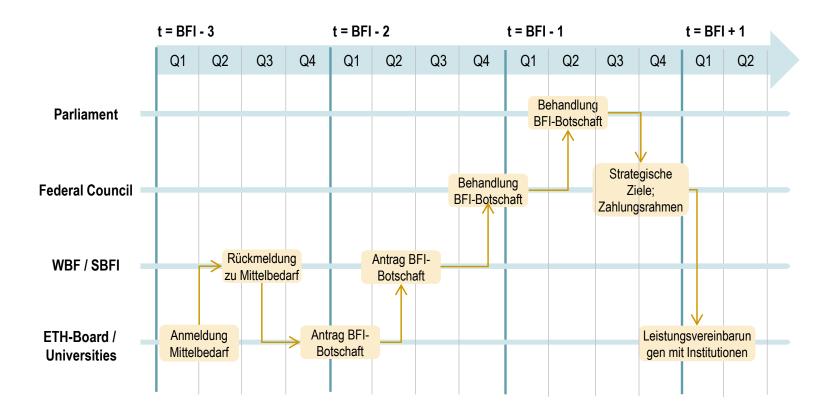




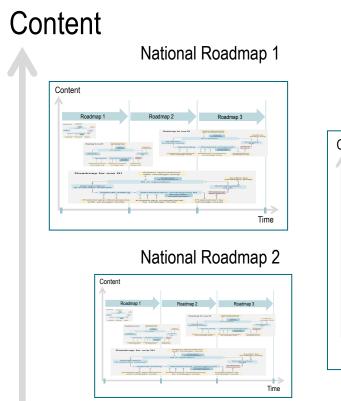
RI at different stages of their life cycle

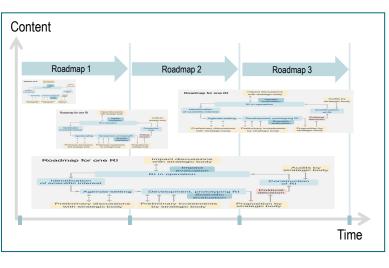


National Roadmapping Process Switzerland



ESFRI: Alignment at a level of high complexity





National Roadmap 3

Time

Outline

- Life cycle of a RI: Actors involved
- Complexity of national / international RI roadmapping
- International RI roadmapping
- Challenges and support for strategic decision making

Challenges at the strategic level

- Bridging the gap between demand from research and funding by politics:
 - Different logics, requirements and expectations
 - Different kind of expertise: specialists <-> generalists
 - Different time lines: long term (RI) <-> short-term (politics)
- **Need for comprehensive bases** to support decisions:
 - Overview regarding planning and implementation processes
 - Comprehensive national strategies regarding R&I, including explicit ambitions regarding its' international competitivness

• Need for independent evaluations of RI based

- Transparent and harmonized criteria
- Best practice regarding methodologies
- Adressing the whole life cycle of a RI

Key factors for successful RI roadmapping

- Roadmapping supports a competitive and sustainable RI landscape if it
 - is embedded in comprehensive R&I strategies at national / European level addressing all scientific fields and defining national ambition regarding international competitiveness
 - includes business plans regarding the whole life cycle of RI and assures sustainable RI-funding,
 - uses harmonized definitions, methodologies and SMART indicators,
 - allows stakeholder impact at appropriate stages.
- RI roadmapping shall address a broad notion of science reflecting Europe's successful tradition of enlightenment and cooperation.