



Open Discovery Processes and Local Missions

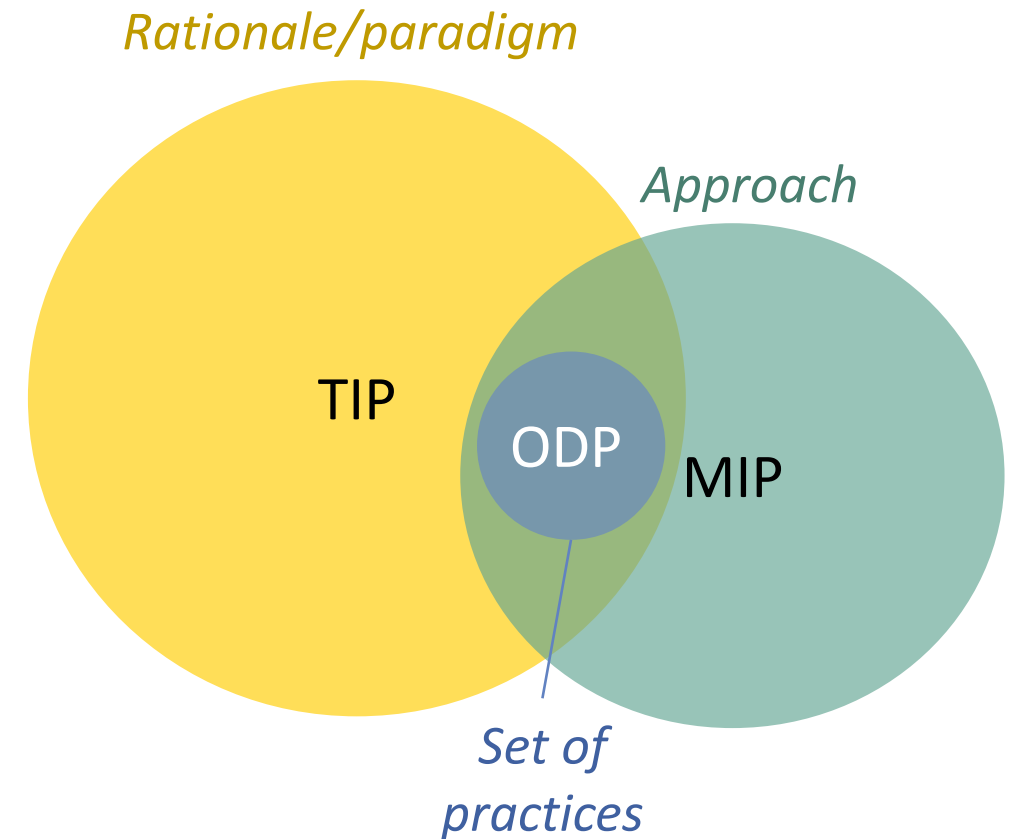
S3 Summit, Azores

Matthijs Janssen

Assistant Professor 'Innovation policy for societal challenges'

Content

- Transformative innovation policy (TIP) and open discovery processes (ODP)
- Mission-oriented innovation policy (MIP)
- ODP and Local Missions



Transformative innovation policy (TIP) and open discovery processes (ODP)

Transformative innovation policy

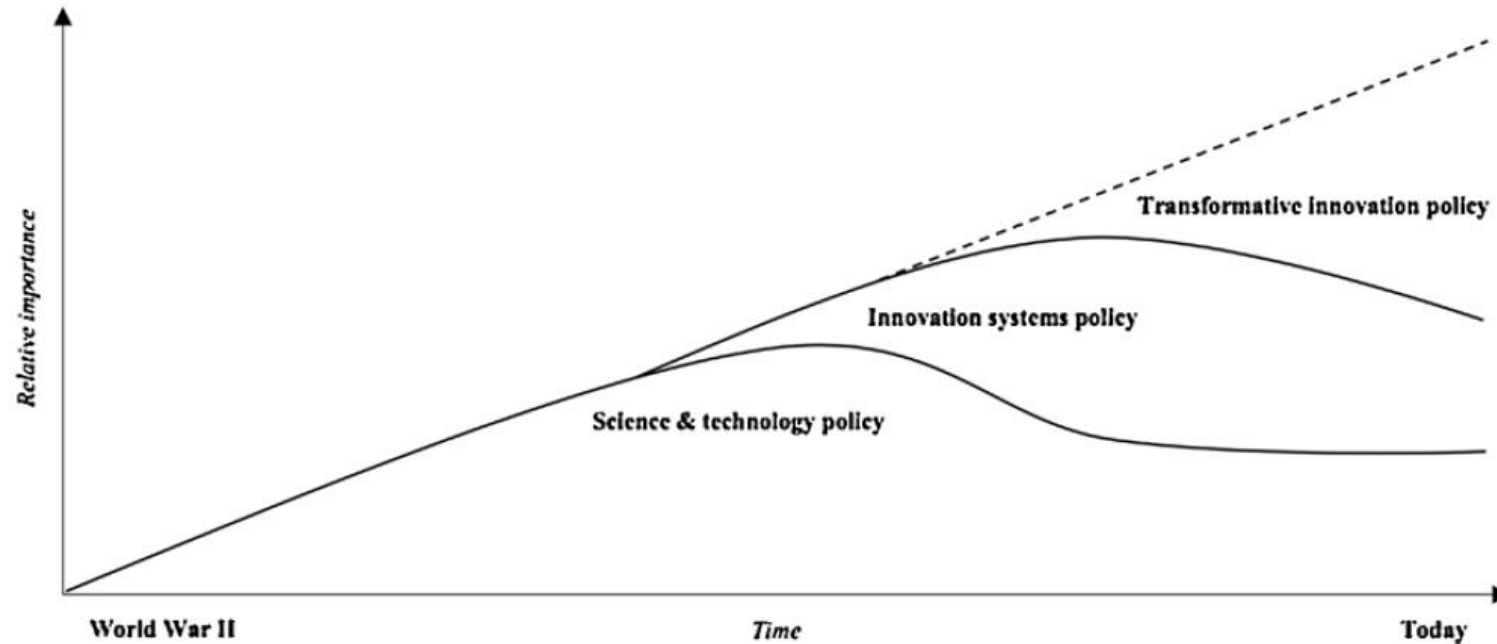


Fig. 1. Consecutive policy paradigms layered upon but not fully replacing each other (based on [Gassler et al., 2007](#)).

Diercks et al. 2019

Transformative innovation policy

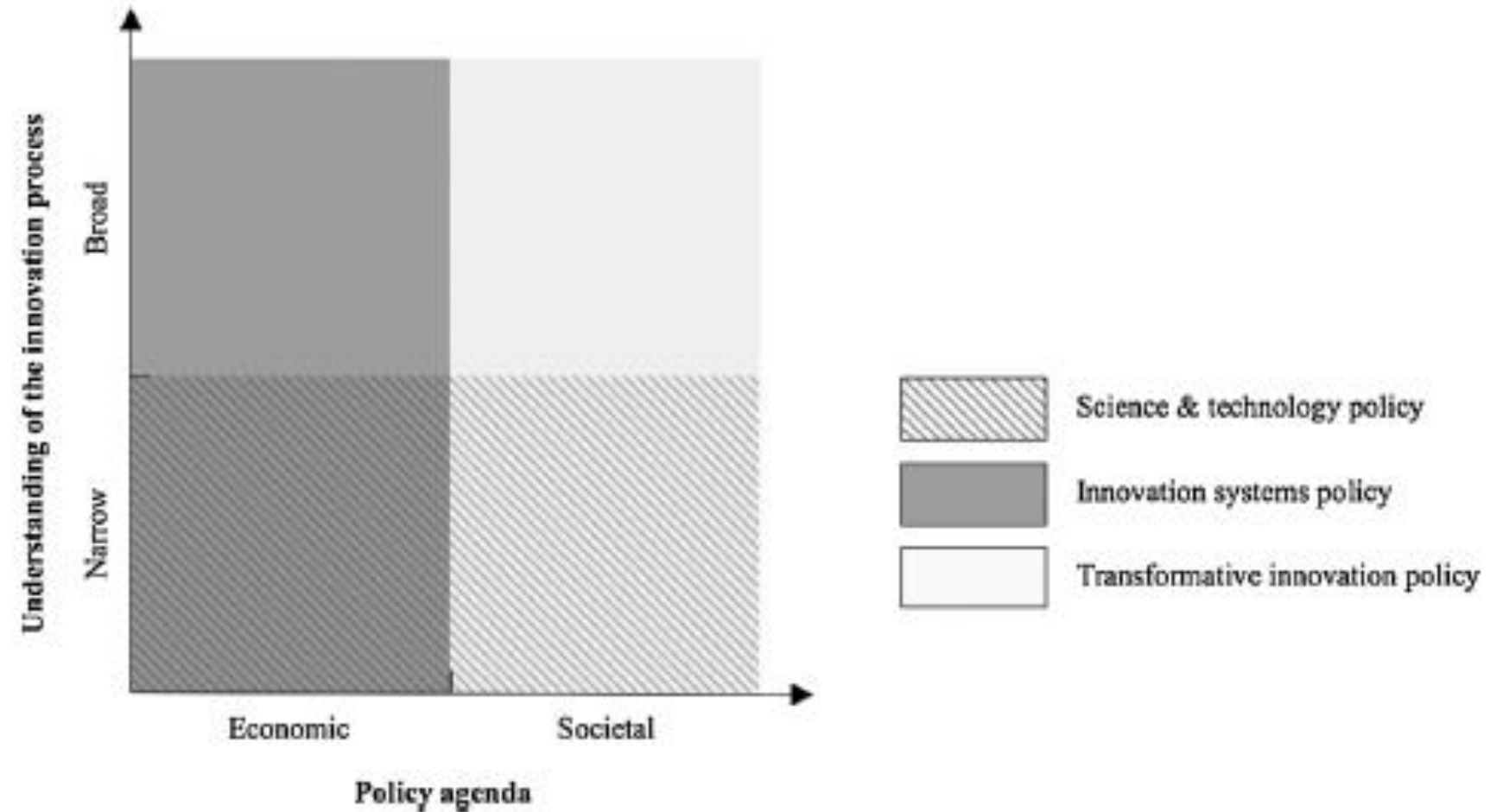


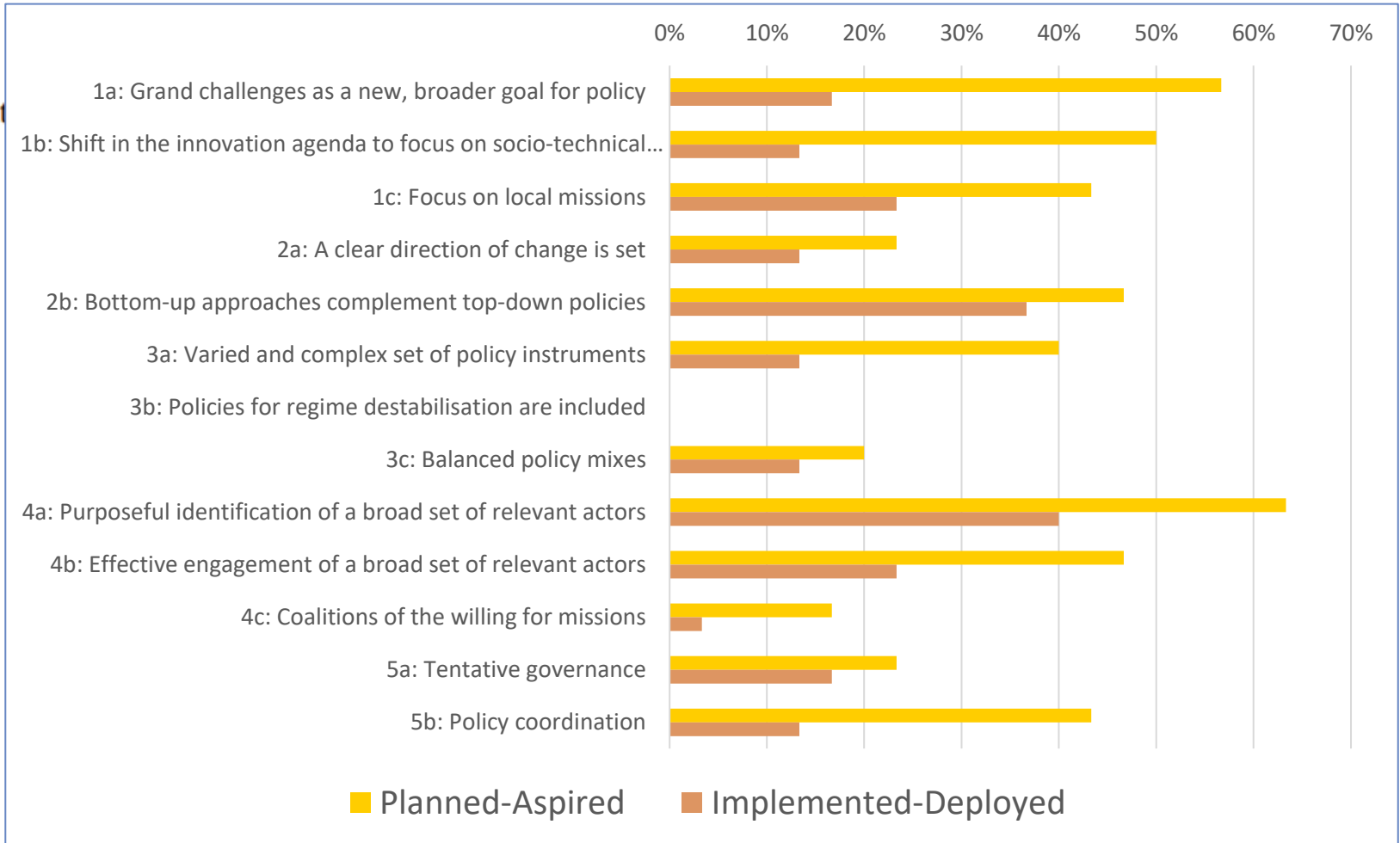
Fig. 5. Positioning the transformative innovation policy paradigm.

Transformative innovation policy

Table 1
Main characteristics of transformative innovation policy

Common characteristics
Grand challenges and inclusive growth
Directionality
Multi-faceted policy intervention
Multiple actors and global networks
Multi-level governance

Haddad et al. 2022



Transformative innovation policy → ODP

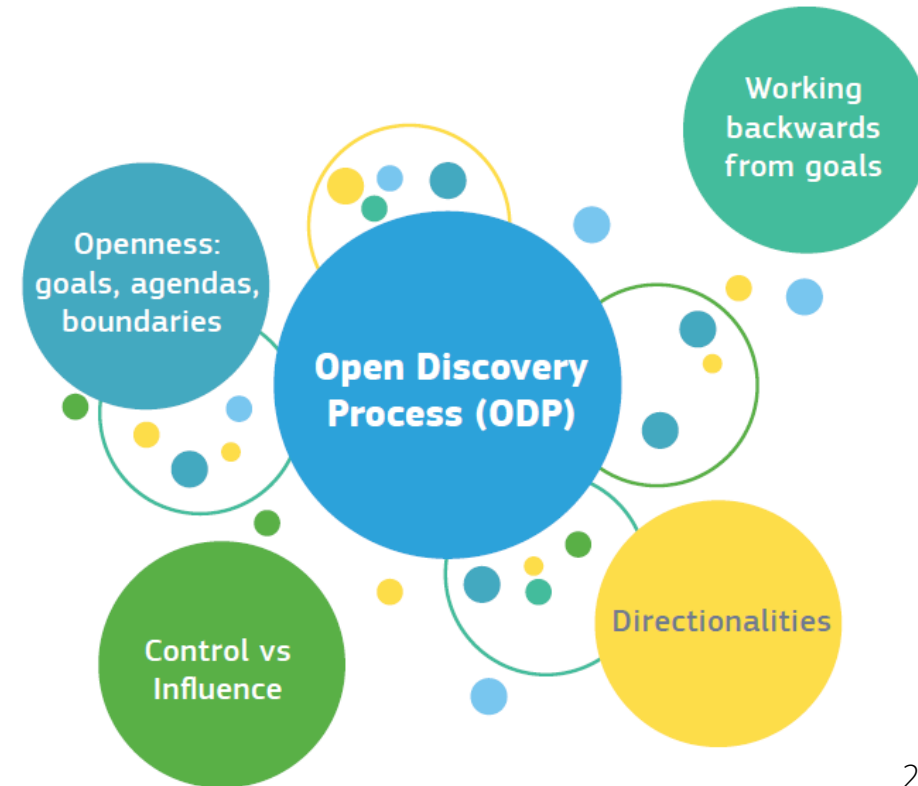
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Haddad et al. 2022

The Open Discovery Process (ODP) is the central PRI mechanism for **stakeholder engagement and co-creation**. It is where new **opportunities are co-discovered**, where the agreement for their exploration begins and where **joint plans** for action are developed.



PRI Playbook, p. 5, 39

Mission-oriented Innovation Policy (MIP)



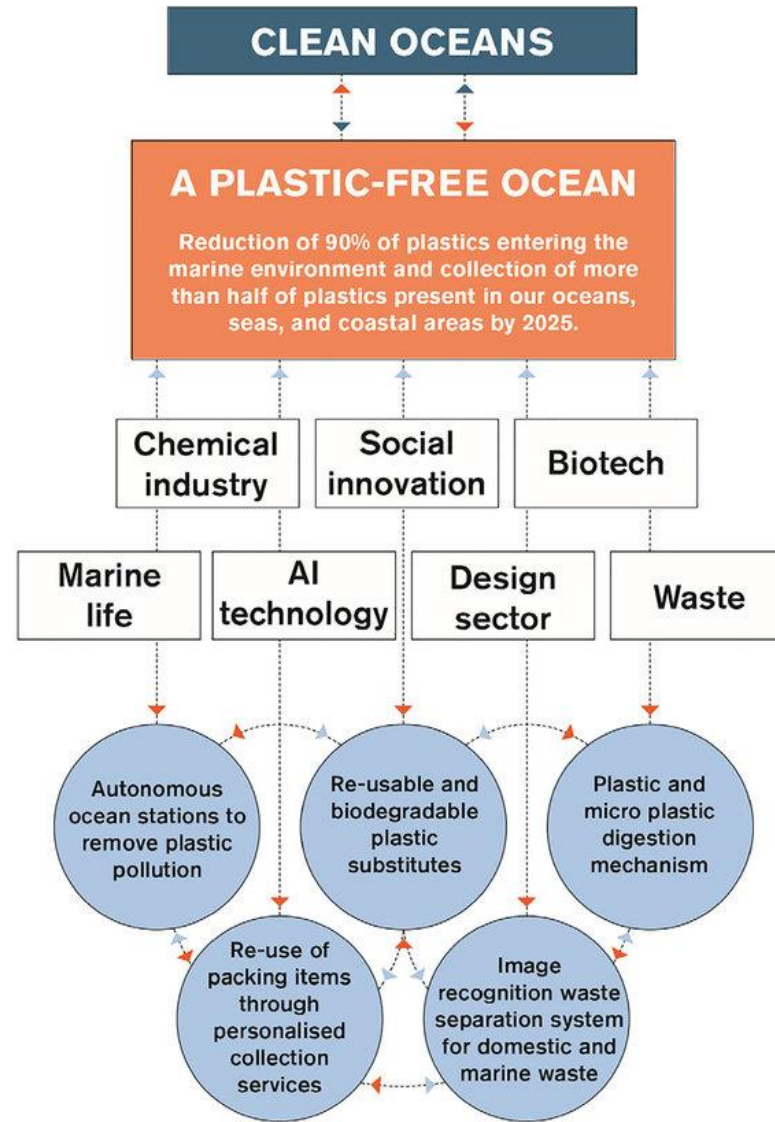
- Societal
- Ambitious
- Measurable
- Timebound

Political agenda setting and civic engagement

Clear targeted missions

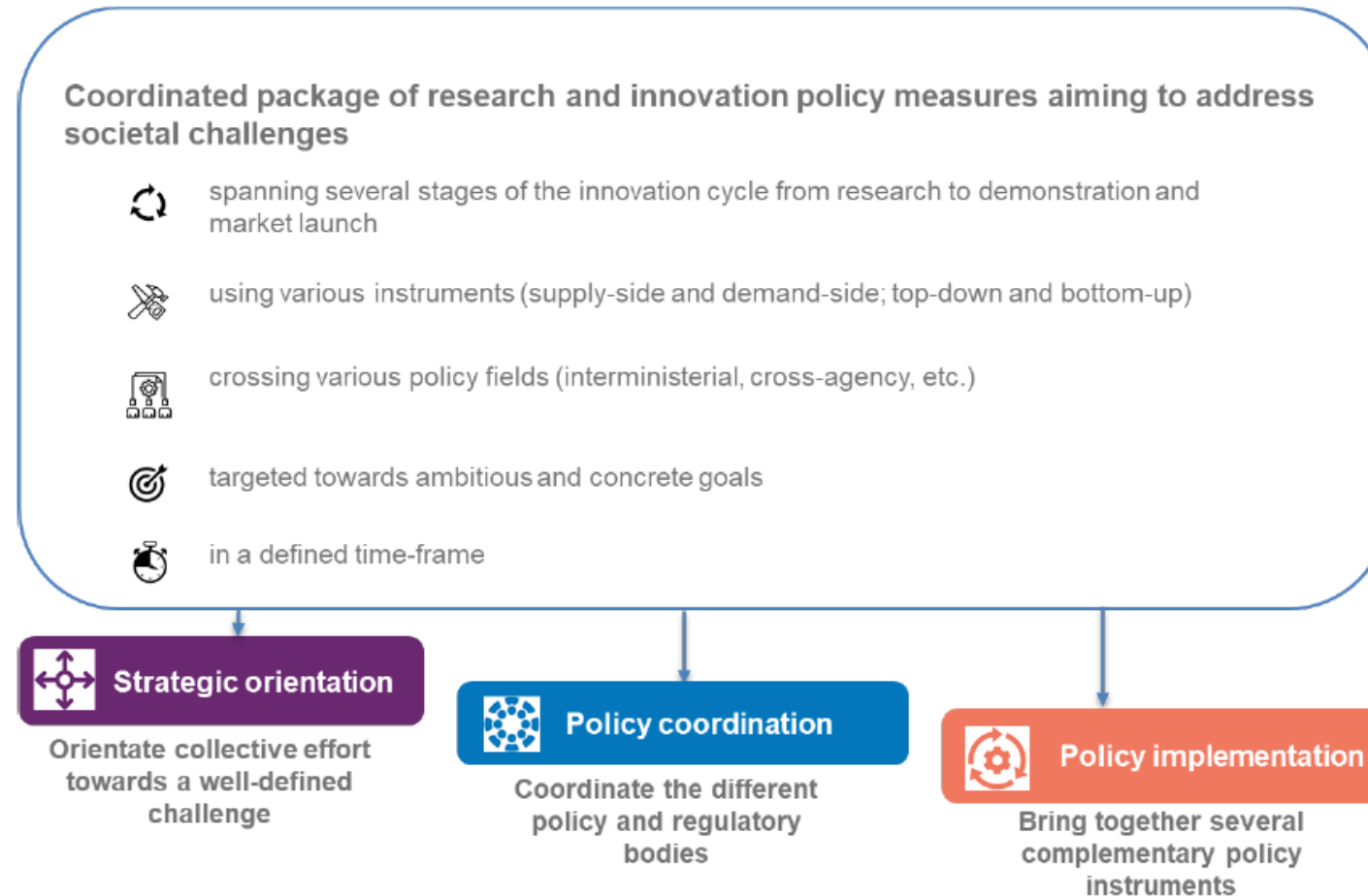
Cross-sectoral innovation

Portfolio of projects and bottom-up experimentation



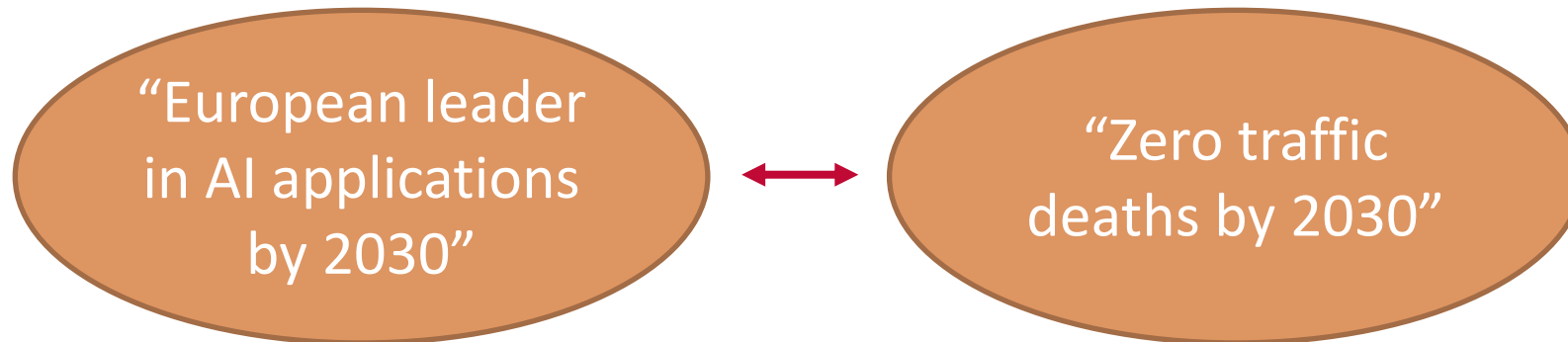
Mission-oriented innovation policy (OECD)

Figure 2. Synthetic view of the MOIP definition and the three MOIP dimensions



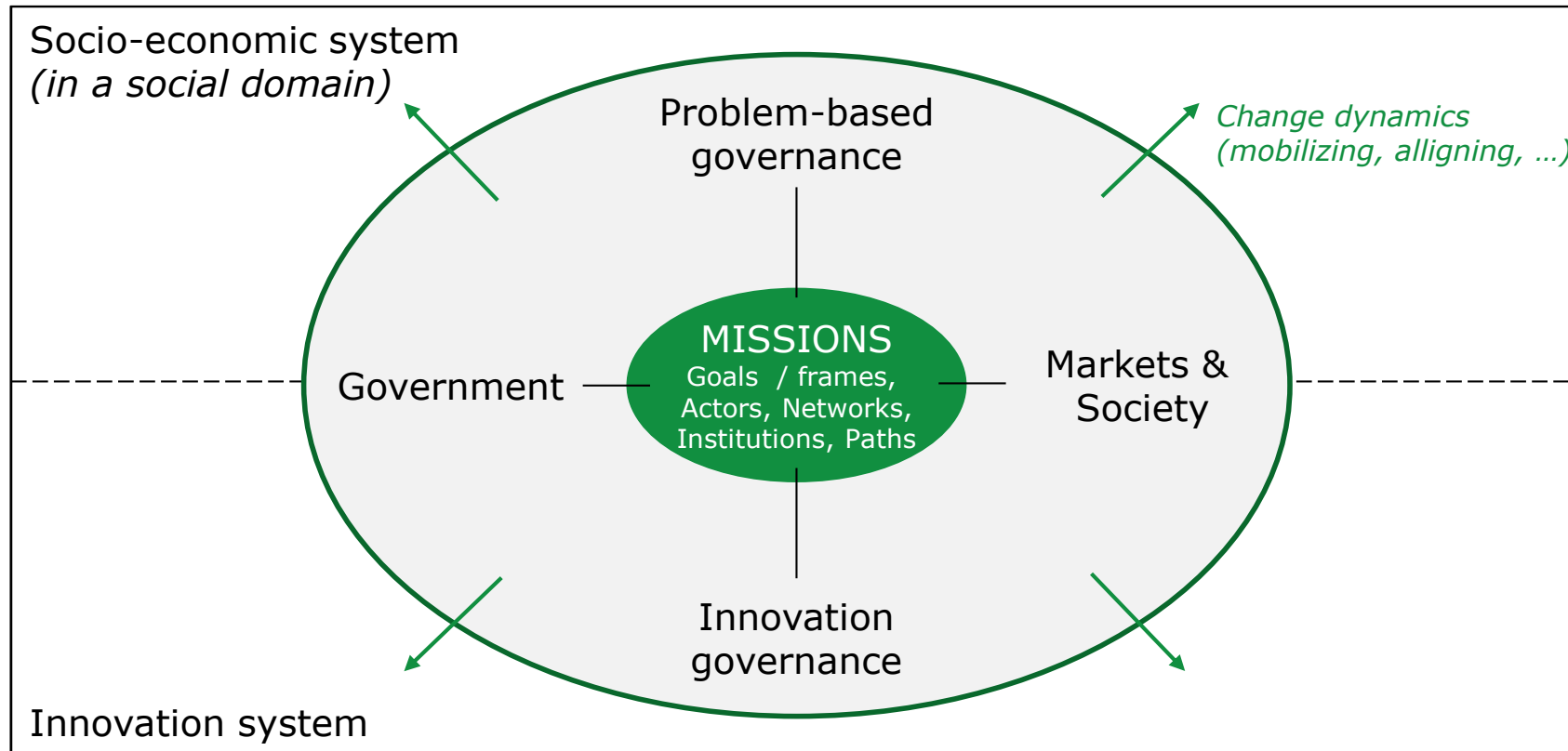
Mission-oriented innovation policy: variety

- Accelerator vs. Transformer missions
- Economic growth vs Challenge-oriented
- Closed vs. Open
- ...



Differences in motivation/interpretation hold important implications for governance, policy instrumentation, monitoring, etc.!

Missions: Embedded and evolving

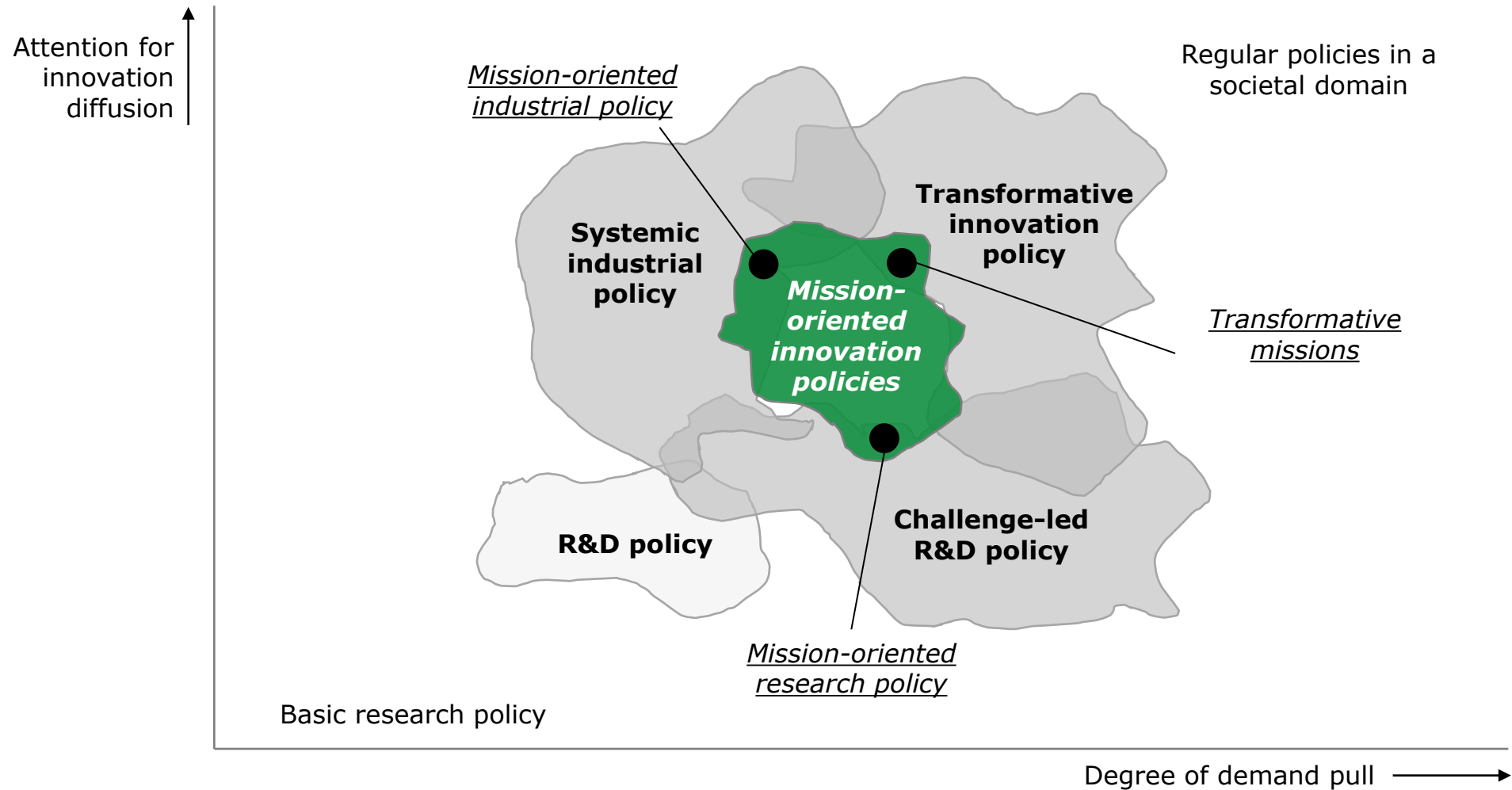


Missions as a boundary object / coordination mechanism

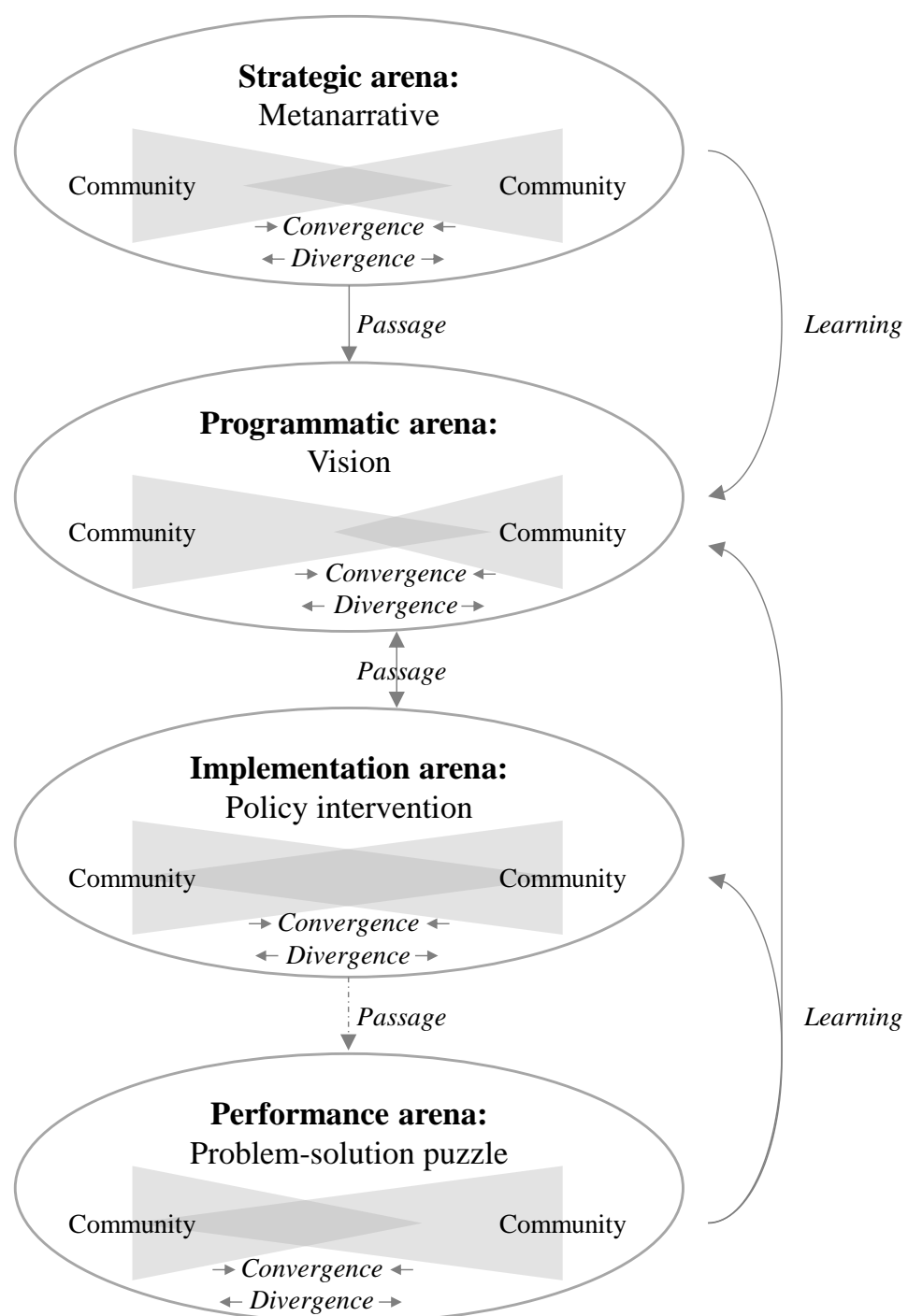
Missions seldomly rely on elaborated top-down plans and associated tasks; they are a way of enhancing consistency between the activities of different actors.

		Communities			
Arena type	Aspect of mission at stake	Community 1	Community 2	Community 3	Community <i>n</i>
Strategic arena	Intervention rationale				
Programmatic arena	Vision on mission completion				
Implementation arena	Concrete policy interventions				
Performance arena	Actual projects / efforts				

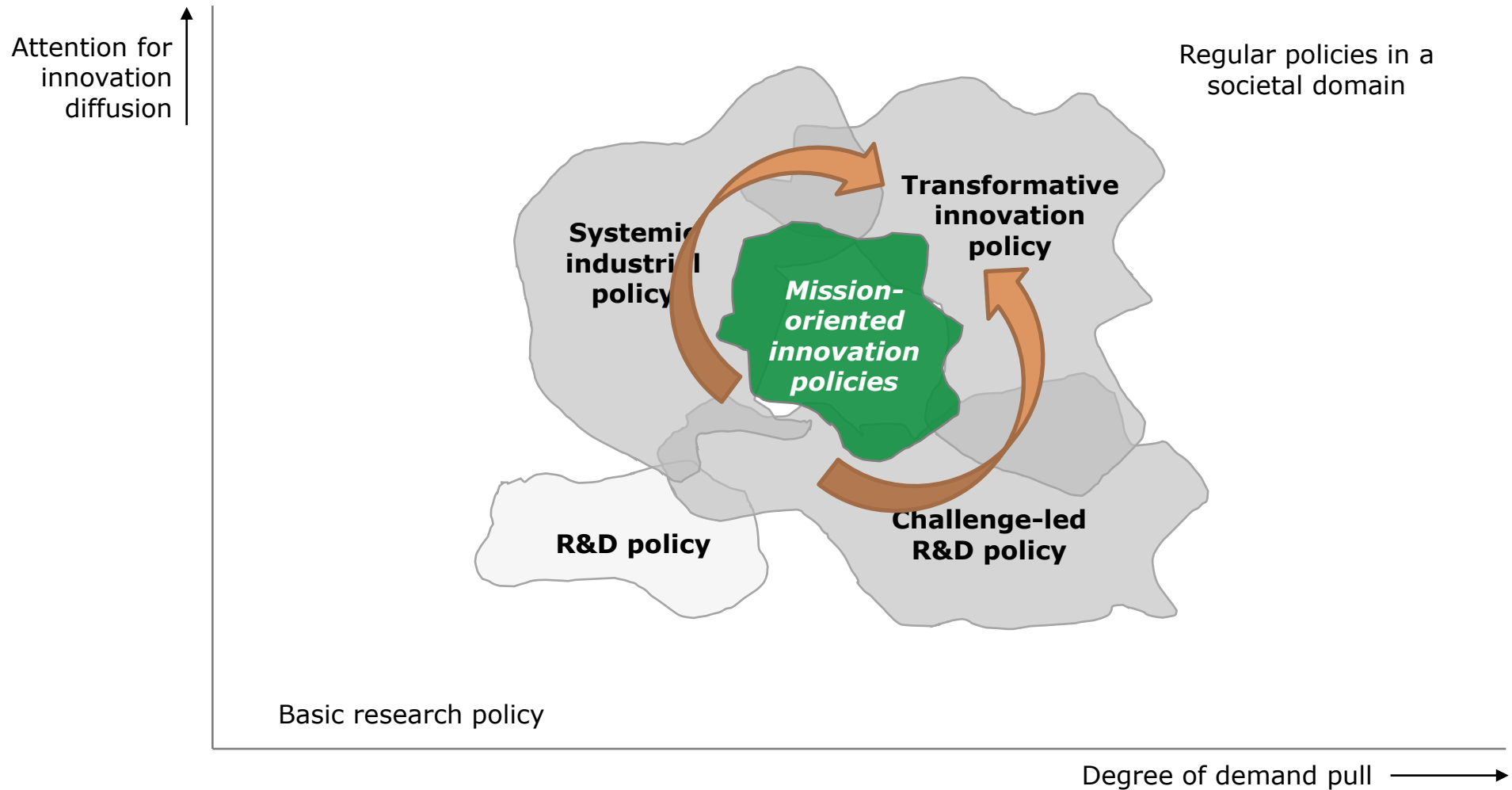
Strategic arena: missions at the interface as different policy traditions



Mission coordination across policy arenas: 3 key mechanisms



MIP as a vehicle for developing (TIP) capacities



In sum

Missions can be regarded as:

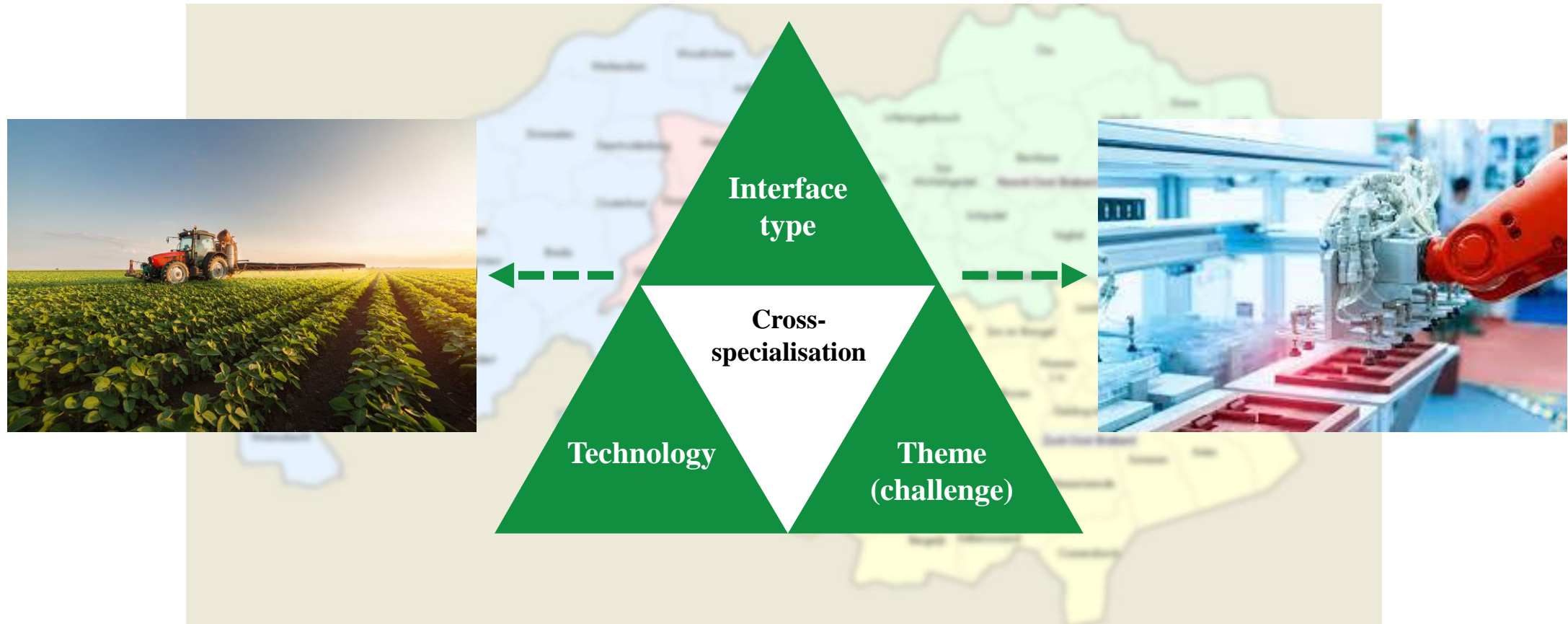
- Goals
- An innovation policy approach (governance + instruments)
- A process ...
 - ... for discovery and coordination/convergence (→ ODP)
 - ... for capacity building / policy transformation

ODP and Local Missions

Missions as a device for exploring the links between local strengths, demands, and preferences/resistance/etc.

- Which **global problems** have a **local dimension** (niche)?
- Which **capabilities/assets** might help to develop solutions?
- What does it take in terms of **public (policy) and private efforts**?

Missions as a unifying goal/strategy (1)



Janssen & Frenken (2019) - Cross-specialization policy: rationales and options for linking unrelated industries

Missions as a unifying goal/strategy (2)



Conclusions

There are many different ways to think about missions and MIP: *why* to consider it, *how* to deploy it, *who* to involve, etc.

As coordinating devices, MIPs always heavily rely on existing policies, structures, institutions. MIP is *inherently place-specific*.

Moreover, MIPs offer new opportunities for discovering and aligning local capacities in order to address local/global problems.



Upcoming MIPO events:

Special session EU-SPRI2023 conference (June 2023, Brighton):
“Governance and policy processes
for transformative research and innovation”

For more info, see:

Mission-oriented Innovation policy observatory (MIPO)

www.uu.nl/en/research/copernicus-institute-of-sustainable-development/mission-oriented-innovation-policy-observatory

The Observatory: Publications

- Janssen, M., Wanzenböck, I., Fünfschilling, L. & Pontikakis, D. (2023). Governance arrangements for the implementation of transformative innovation policy: Insights from a comparative case study. In: Transformative Missions (eds: Edler, Weber, Polt & Matt). *Edward Elgar Publishing Ltd*.
- Janssen, M., Wesseling, J., Torrens, J., Weber, K.M., Penna, C. & Klerkx L. (2023). [Missions as boundary objects for transformative change: Understanding coordination across policy, research and stakeholder communities](#). *Science and Public Policy*.
- Janssen, M. (2023). [Legitimation and effects of mission-oriented innovation policies: A spillover perspective](#). *Hacienda Pública Española / Review of Public Economics*.
- Janssen, M. & Abbasiharofteh, M. (2022). [Boundary spanning R&D collaboration: KETs and Missions as alleviators of proximity effects?](#) *Technological Forecasting & Social Change*.
- Janssen, M., Wesseling, J., & Bergek, A. (2022). [Towards a culture of learning: Evaluating systemic innovation and transition programmes](#). *PLOS Sustainability and Transitions*
- Flanagan, K., Uyarra, E., & Wanzenböck, I., (2022). [Towards a problem-oriented regional industrial policy: possibilities for public intervention in framing, valuation and market formation](#). *Regional Studies*.
- Craens, J., Frenken, K., & Meelen, T. (2022). [Mission-oriented innovation policy: The case of the Swedish ‘Vision Zero’ approach to traffic safety](#), in: J.A. Annema, J. Köhler, B. van Wee (eds.), *Innovations in transport. Success, failure, Societal impacts*, *Edward Elgar Publishing Ltd*.
- Bours, S. A., Wanzenböck, I., & Frenken, K. (2021). [Small wins for grand challenges. A bottom-up governance approach to regional innovation policy](#). *European Planning Studies*, 1-28.
- Janssen, M., Torrens, J.C.L., Wesseling, J., & Wanzenböck, I., (2021). [The promises and premises of mission-oriented innovation policy: A reflection and ways forward](#). *Science and Public Policy*, 48(3),438-444.
- Wanzenböck, I. & Frenken, K., (2020). [The subsidiarity principle in innovation policy for societal challenges](#), *Global Transitions*, 2, p.p. 51-59.
- Hekkert, M.P., Janssen, M., Wesseling, J.H., & Negro, S., (2020). [Mission-oriented Innovation Systems](#). *Environmental Innovation and Societal Transitions*, 34, 76-79.
- Wanzenböck, I., Wesseling, J., Frenken, K., Hekkert, M., & Weber, K.M. (2020). [A framework for mission-oriented innovation policy: Alternative pathways through the problem-solution space](#), *Science and Public Policy*.