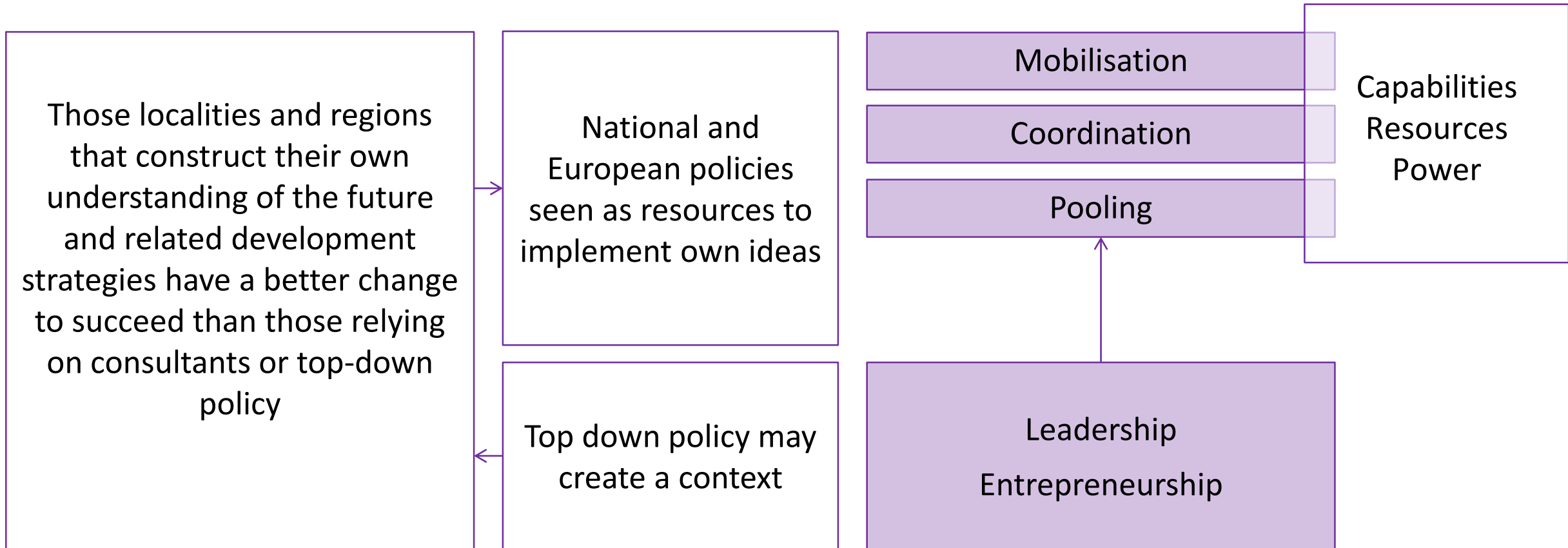


Green Path Development and Change Agency in Nordic Regions

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The paper is based on the tentative observations of the Gonst and ReGrow projects.
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The core argument in blocs



Questions

- What kinds of agency are required in green path development?
- Who are the main actors in the efforts to green regions?



Appr. 20 case studies (8 Gonst; 12 ReGrow)

- Bioeconomy: Scania, Värmland, Central Finland and (Trøndelag)
- The greening of the maritime industry and offshore wind industry: Northern Jutland, Southern Denmark and (Hordaland)
- Cleantech: Tampere
- 174 (79+95) interviews and secondary data

But also a patent analysis on green technologies and an extensive statistical analysis on green skills as well as regional growth

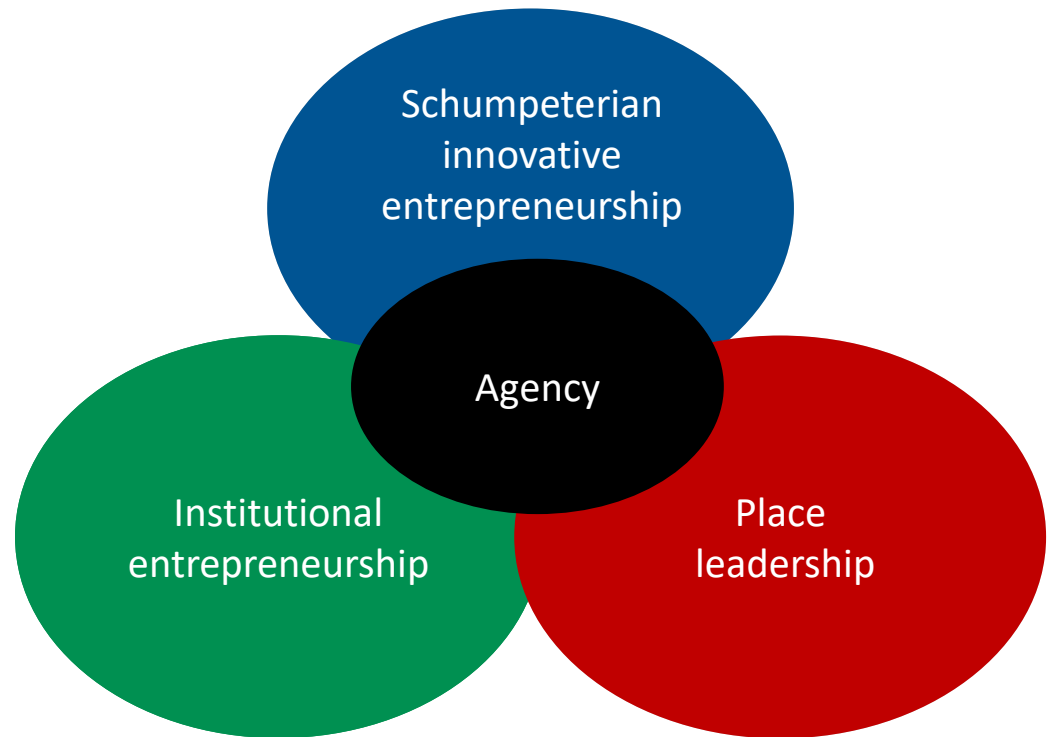
Green growth requires competencies that allow for handling complex, non-routine situations in both the private and public sectors as well as between them.

(Capasso et al, 2018)

Trinity of Change Agency

Connects three types of agency originating in different fields of literature

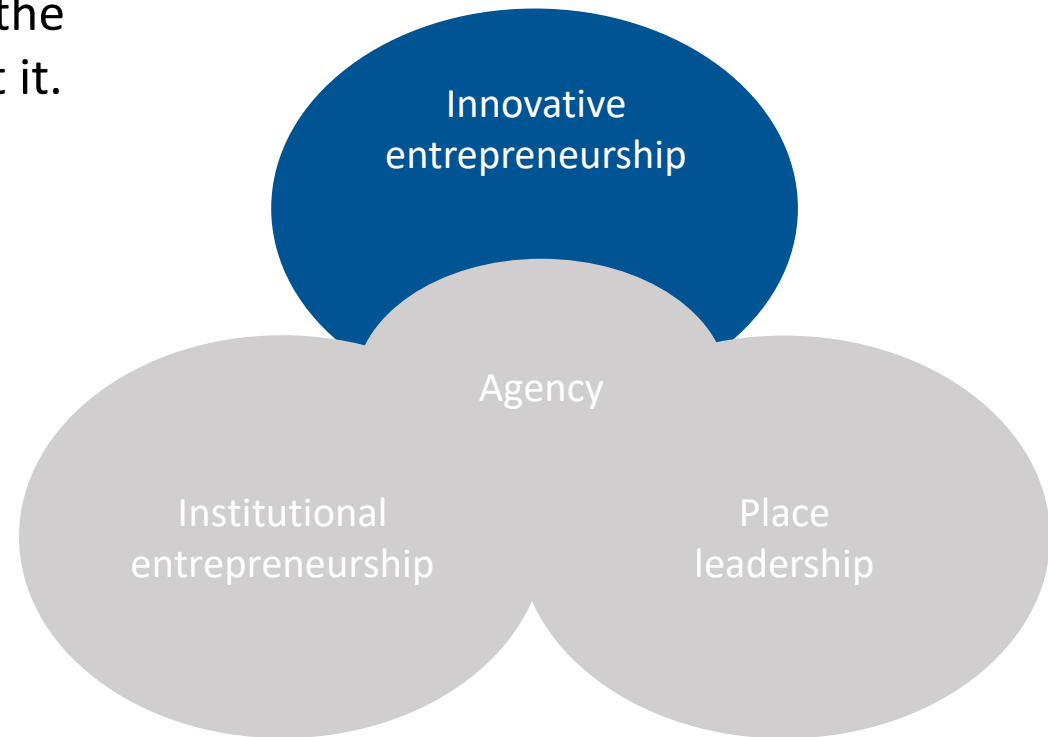
- Works to change the rules of the game
- In each case region, institutional entrepreneurship has systemic features



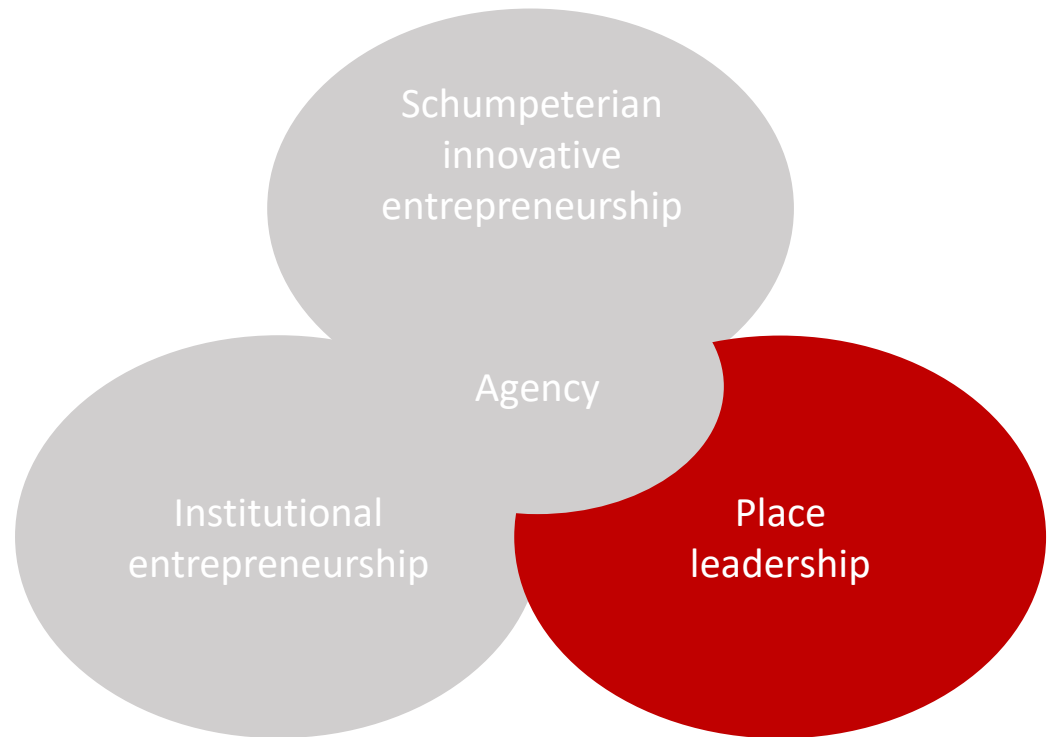
- Exploit the existing and emerging games and possibly simultaneously change them
- In all the cases several firms in different capacities have been mobilised to contribute to the collective effort and exploit it.

Path upgrading

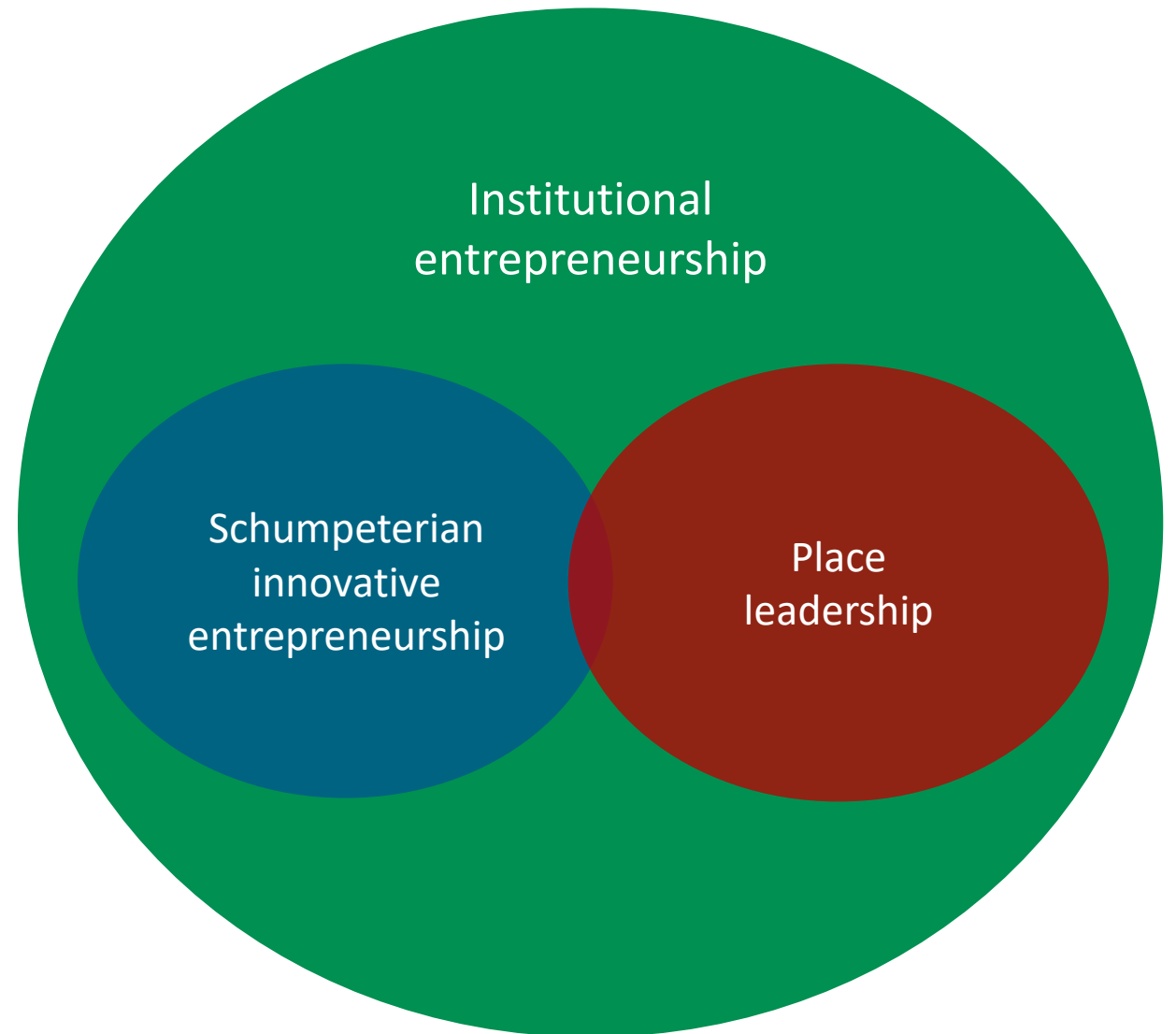
- Major intra-path changes
- **Renewal** - infusion of new technologies or major organizational changes
- **Climbing** - improvement of the position of the regional industry within GVCs
- **Niche development** - the development of niches in mature industries



- Mobilizes powers, resources and capabilities
- Place-based leadership and placeless leadership
- In many cases – but not always – local and/or regional authorities have assumed the role of PBL
 - May be shared (but also distributed)



- Place leaders and innovative entrepreneurs are in the centre of green path development
- In tandem they are in the core roles in a system of shared institutional entrepreneurship
 - Which again calls for support actors in differing capacities.

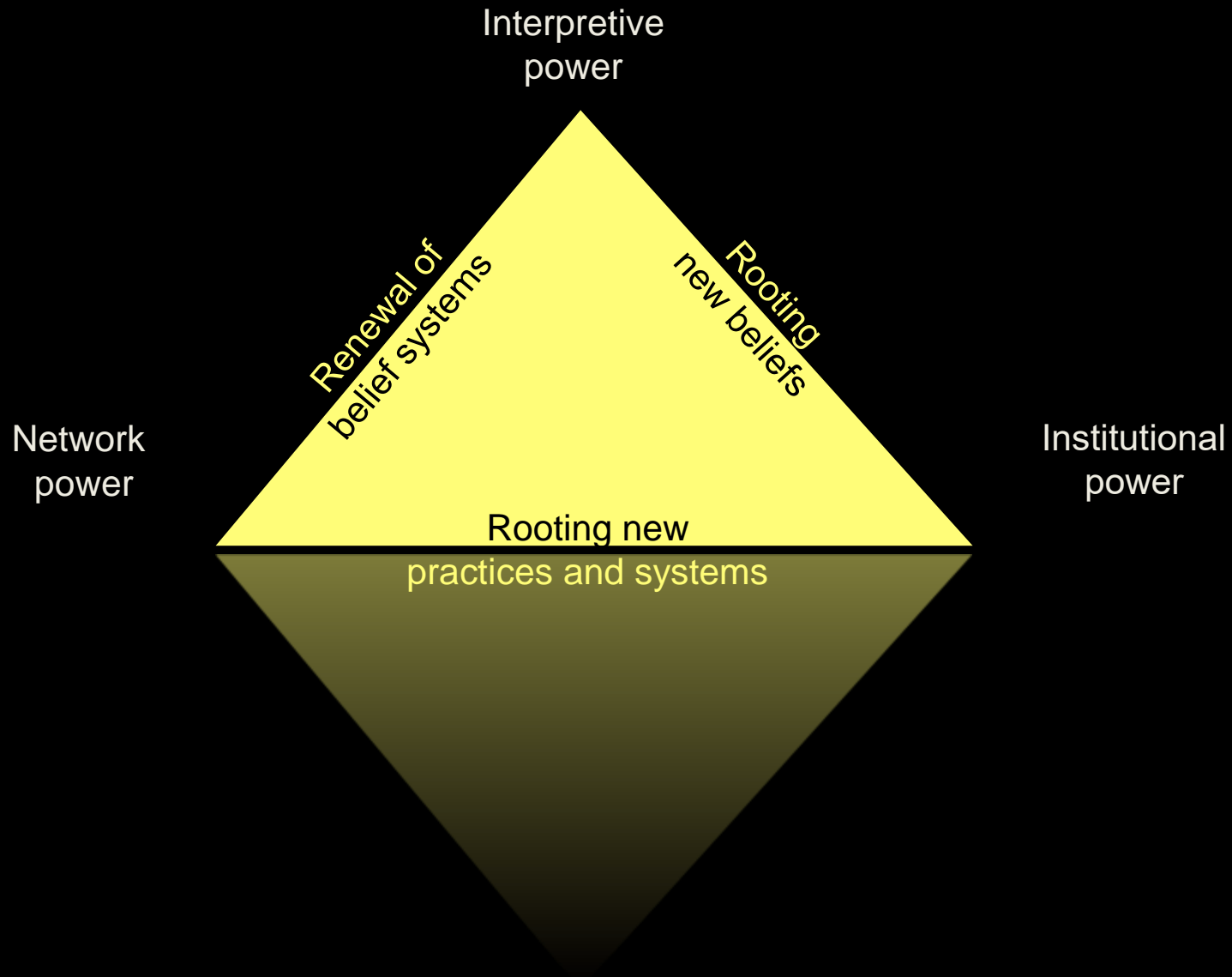


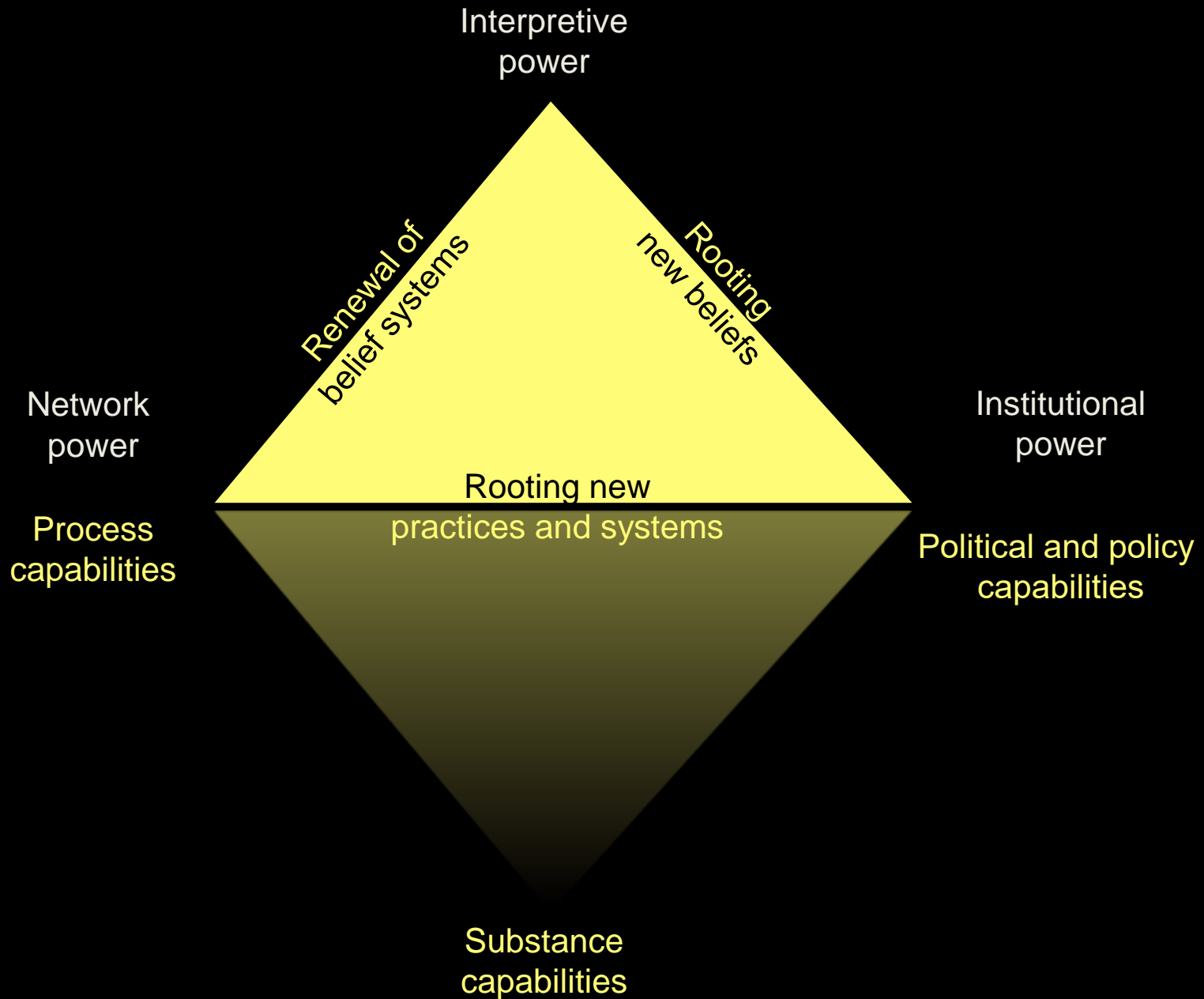
- **Visionaries** imagine new games
- **The vision brokers** transmit ideas and future imaginaries

In regional path development, instead of imagining totally new games, more important are the ways how generic visions in global/national circulation are being made sense of and translated into collective action

- **Critics** do not work for the game or improve the ways it is played but indirectly help the players to improve their game
- **Support actors** do not play the game by themselves but help the players and those who make/change the rules
- **Mentors** teach others to play better or change the rules more effectively

We need to learn better mobilise
powers, resources and capabilities!





Thank you!

