

Development of a Model for Assessing Innovation Policy

ECN: Koen Schoots, Bert Daniëls, Ton van Dril

NL Agency: Joost Koch, Dick Both

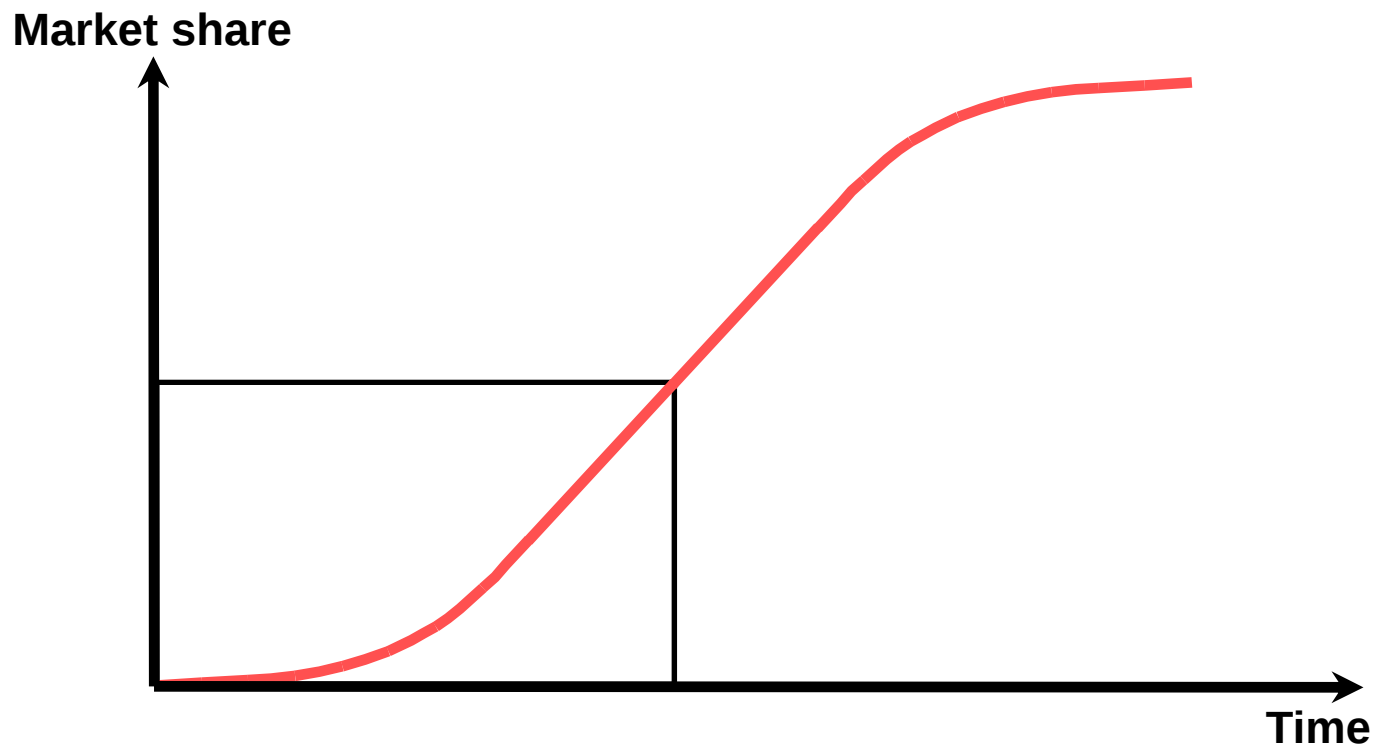


Innovation policy: Invest now; result unclear

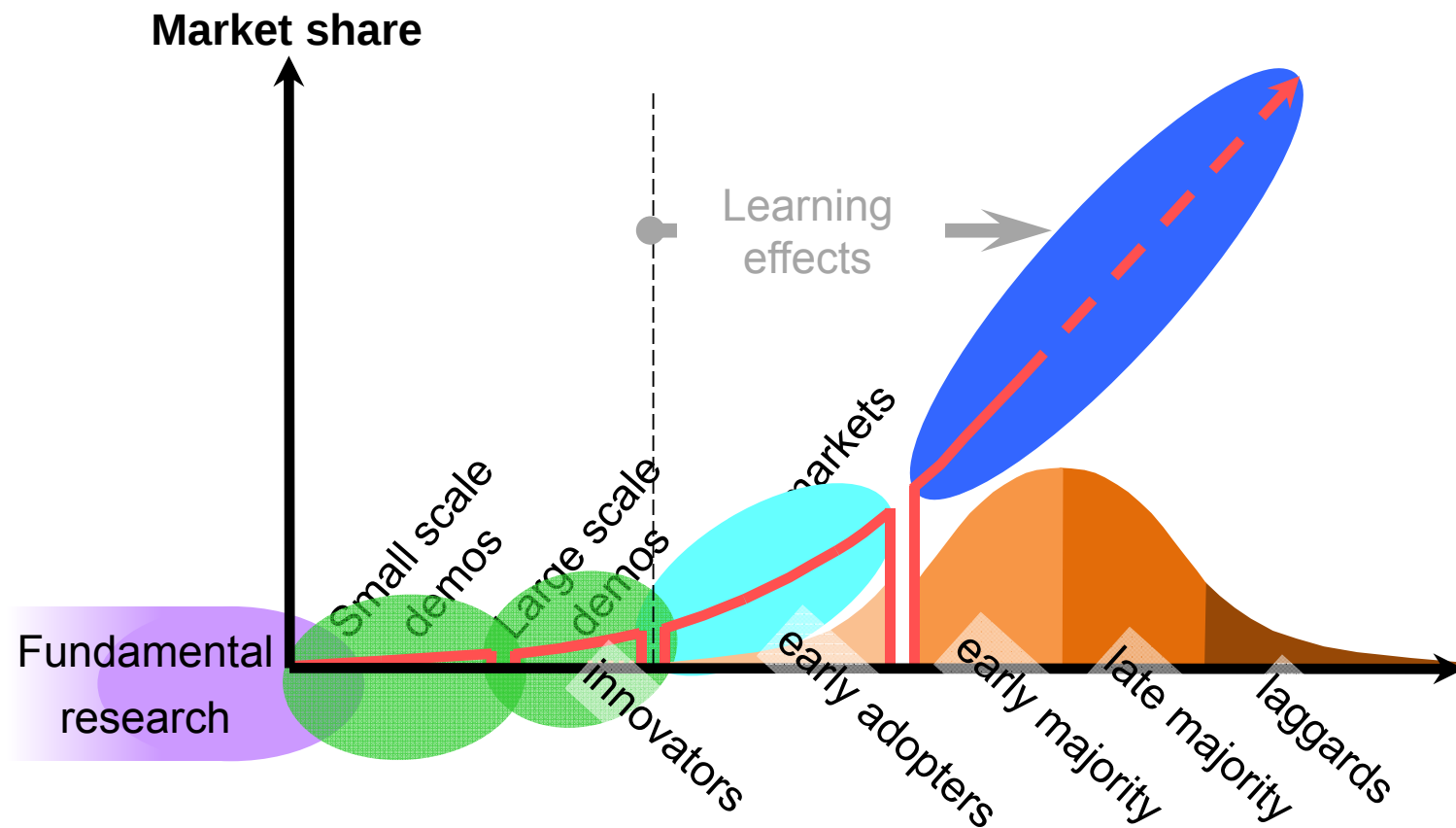
Test for effectiveness and added value of policies required



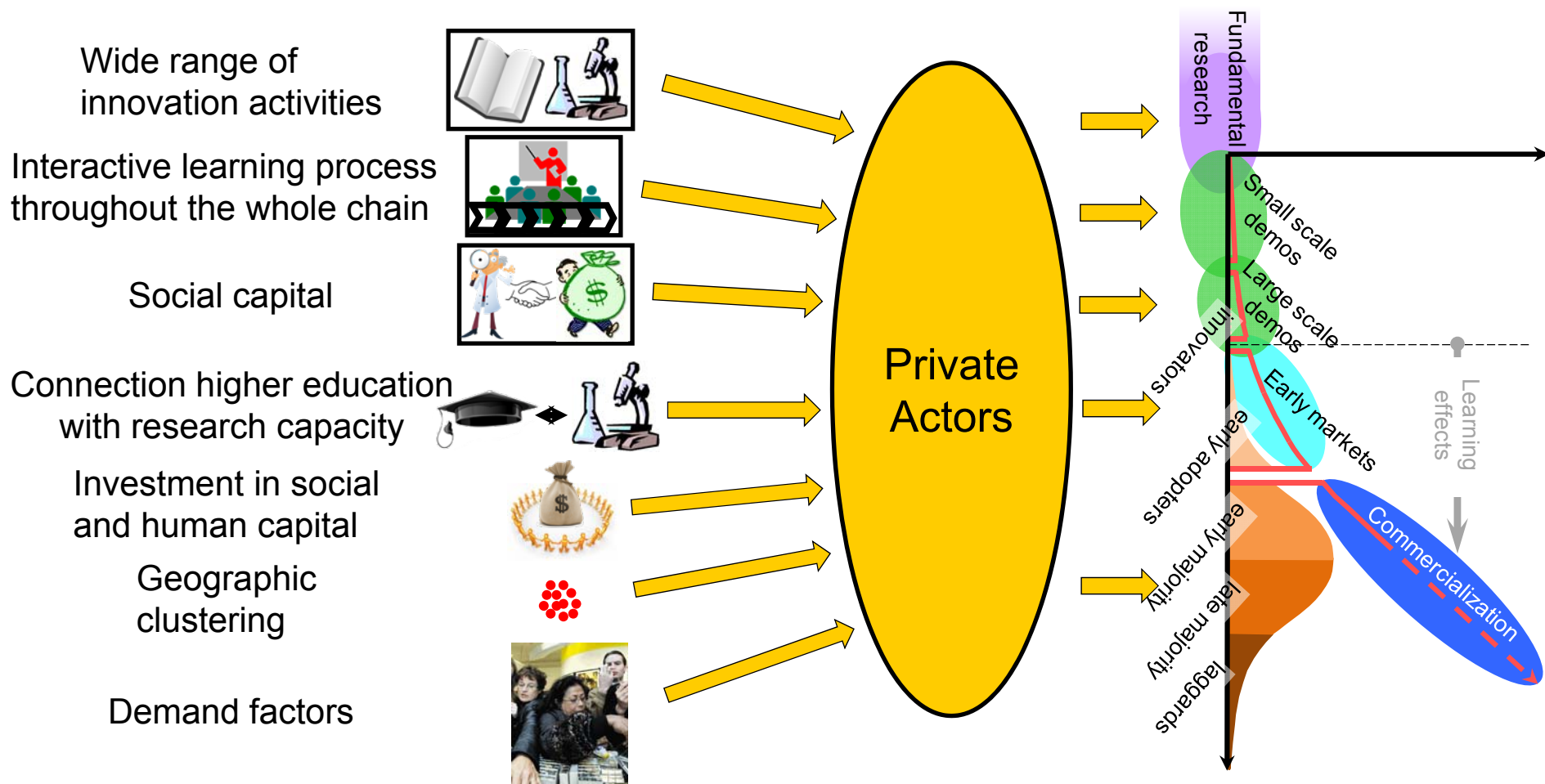
Technology development phases



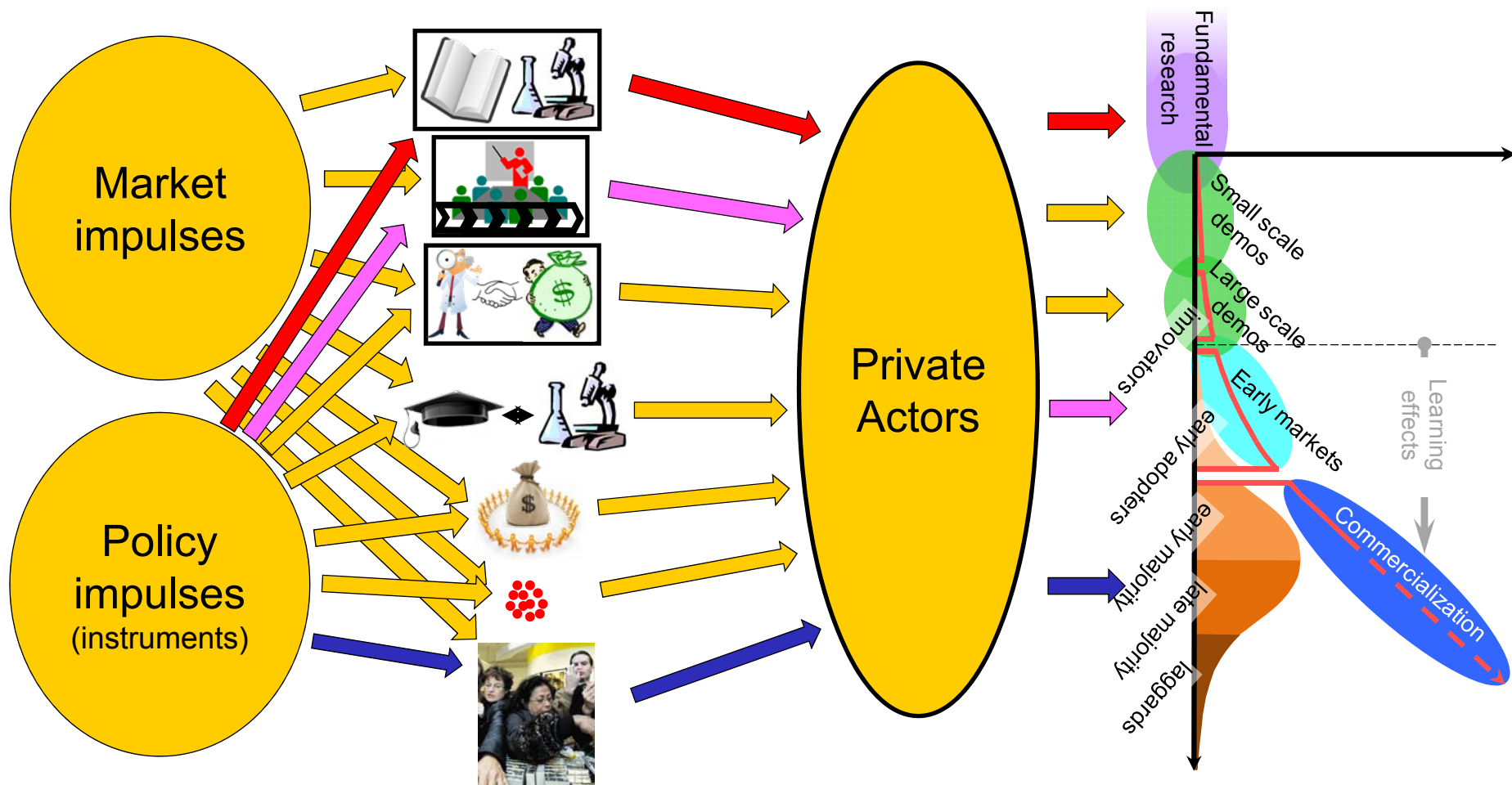
Technology development phases



Technology innovation model

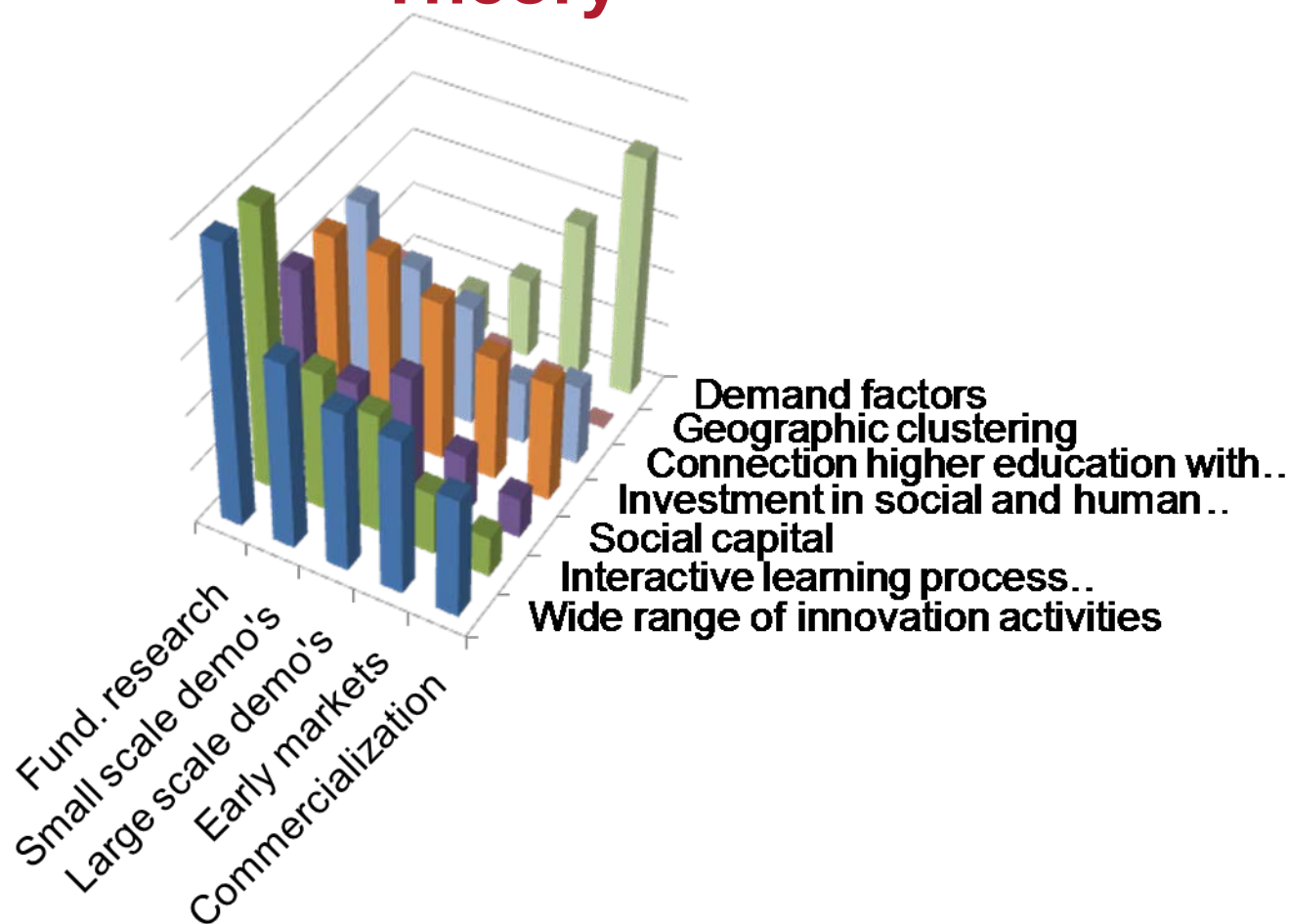


Technology innovation model

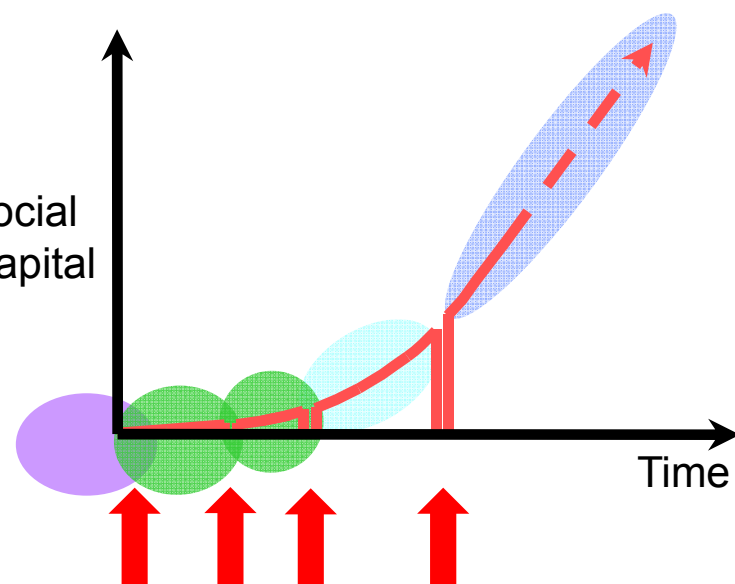
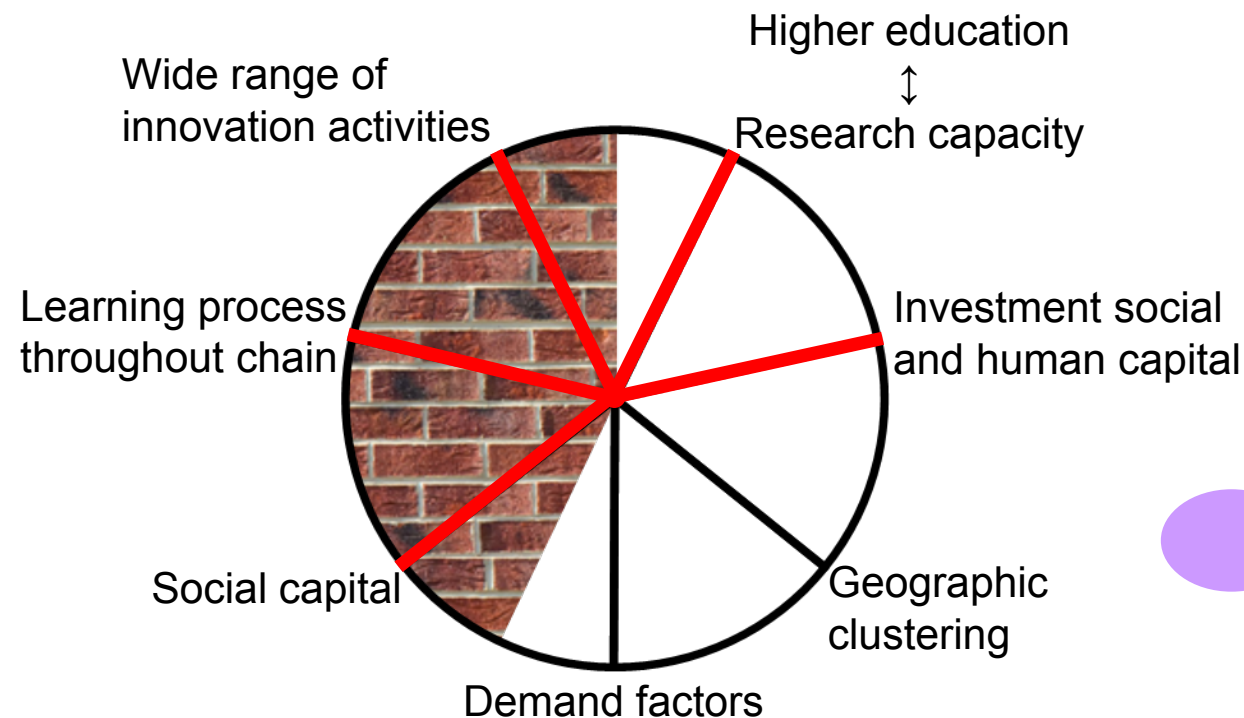


Assessment structure innovation policy

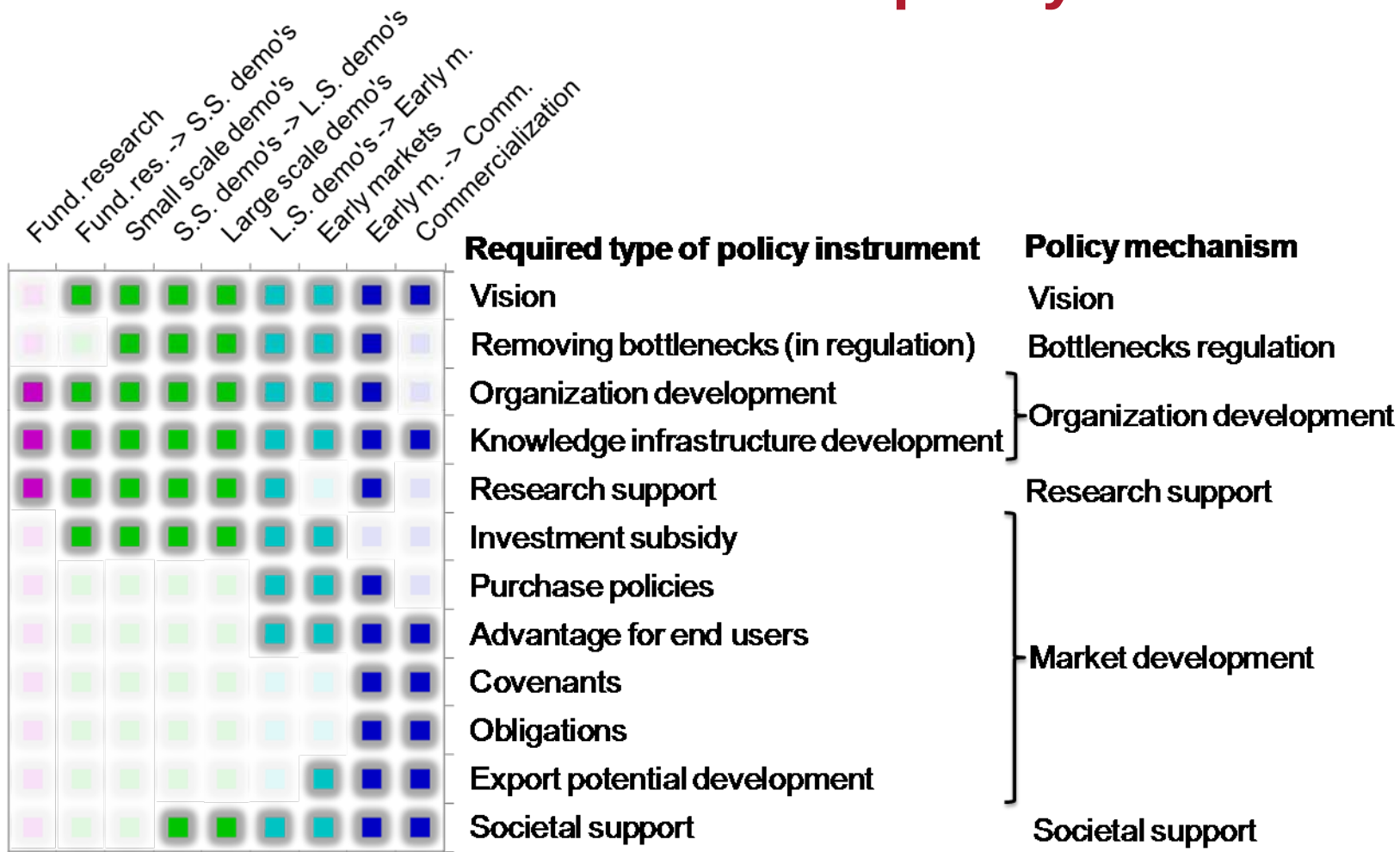
Theory



Innovation factors 'Research support'

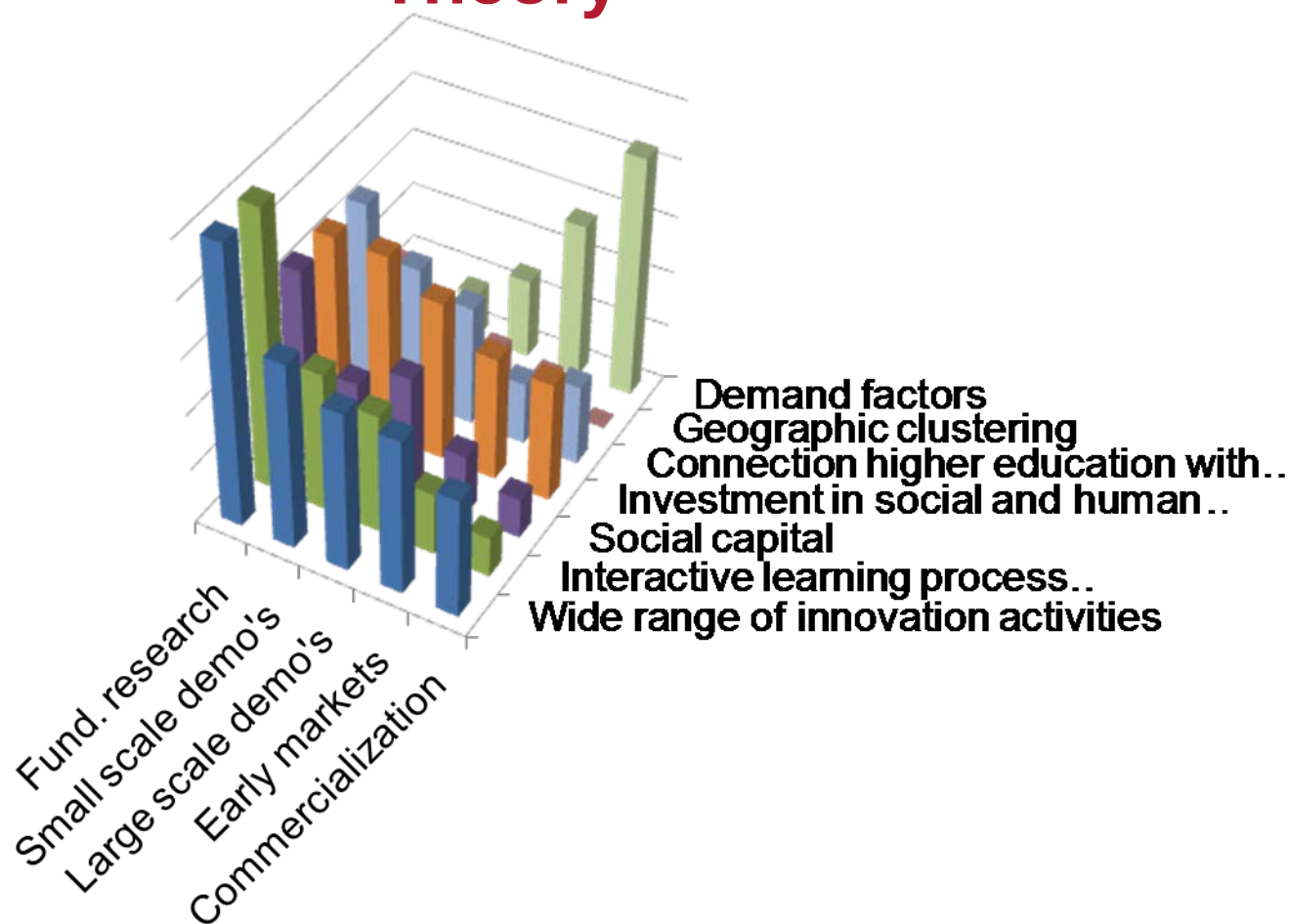


Structure innovation policy



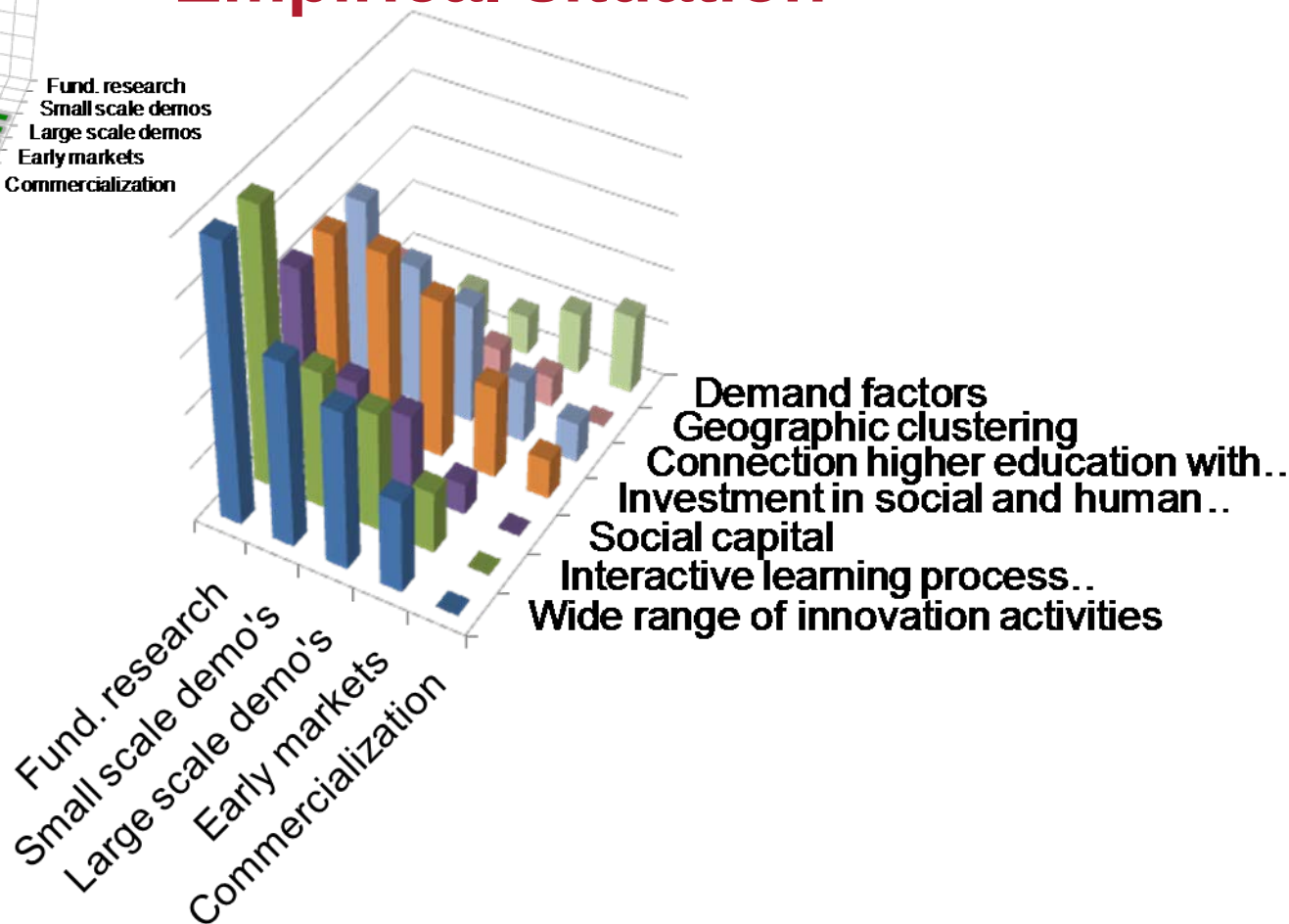
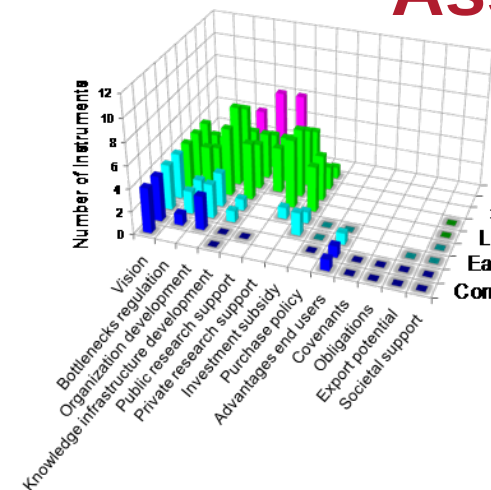
Assessment structure innovation policy

Theory



Assessment innovation policies

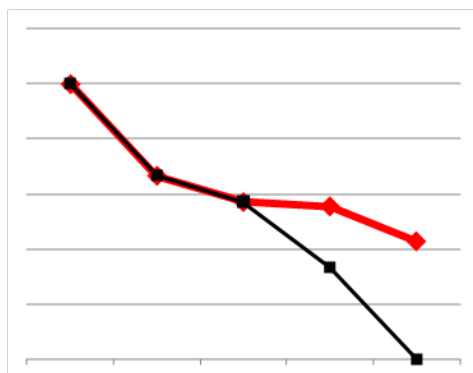
Empirical situation



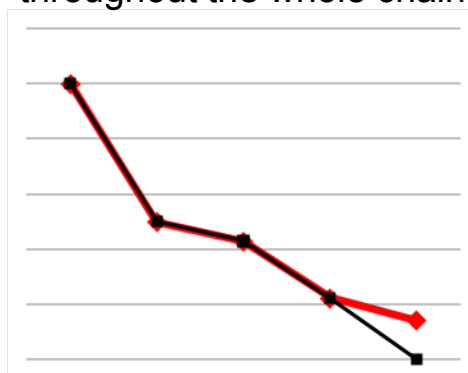
Assessment innovation policies

Theory vs. Empirical

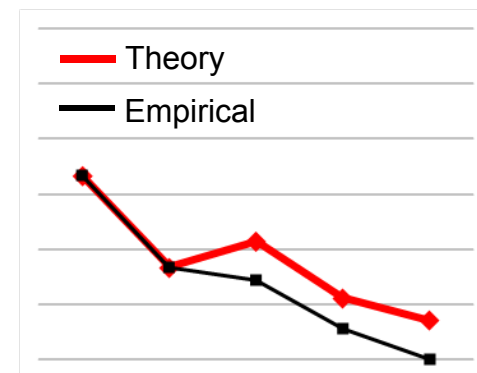
Wide range of innovation activities



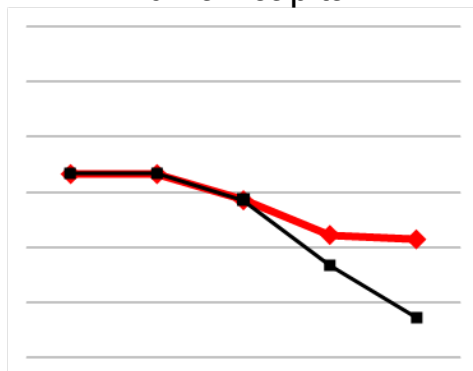
Interactive learning process throughout the whole chain



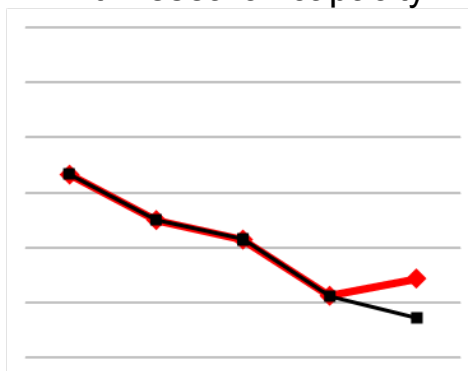
Social capital



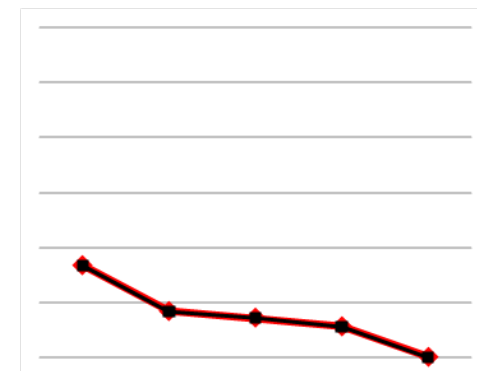
Investment in social and human capital



Connection higher education with research capacity



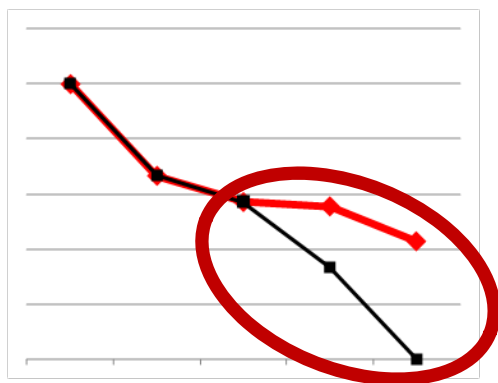
Geographic clustering



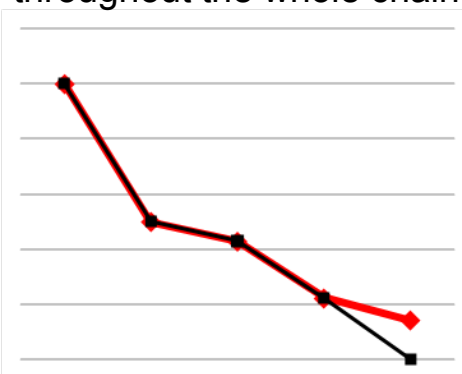
Assessment innovation policies

Theory vs. Empirical

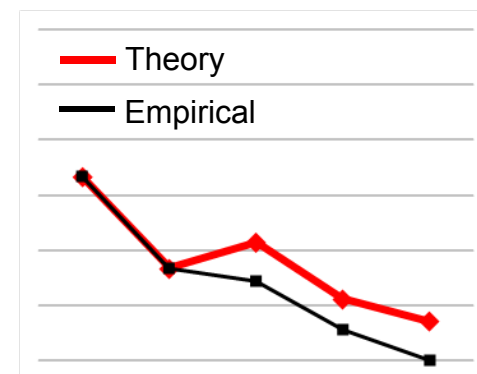
Wide range of innovation activities



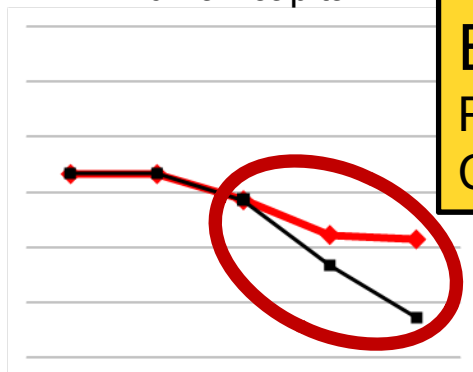
Interactive learning process throughout the whole chain



Social capital

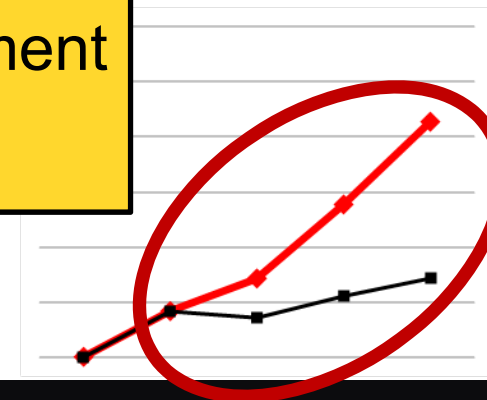


Investment in social and human capital



Best solutions to fill gaps:
Exportpotential development
Purchase policies
Covenants

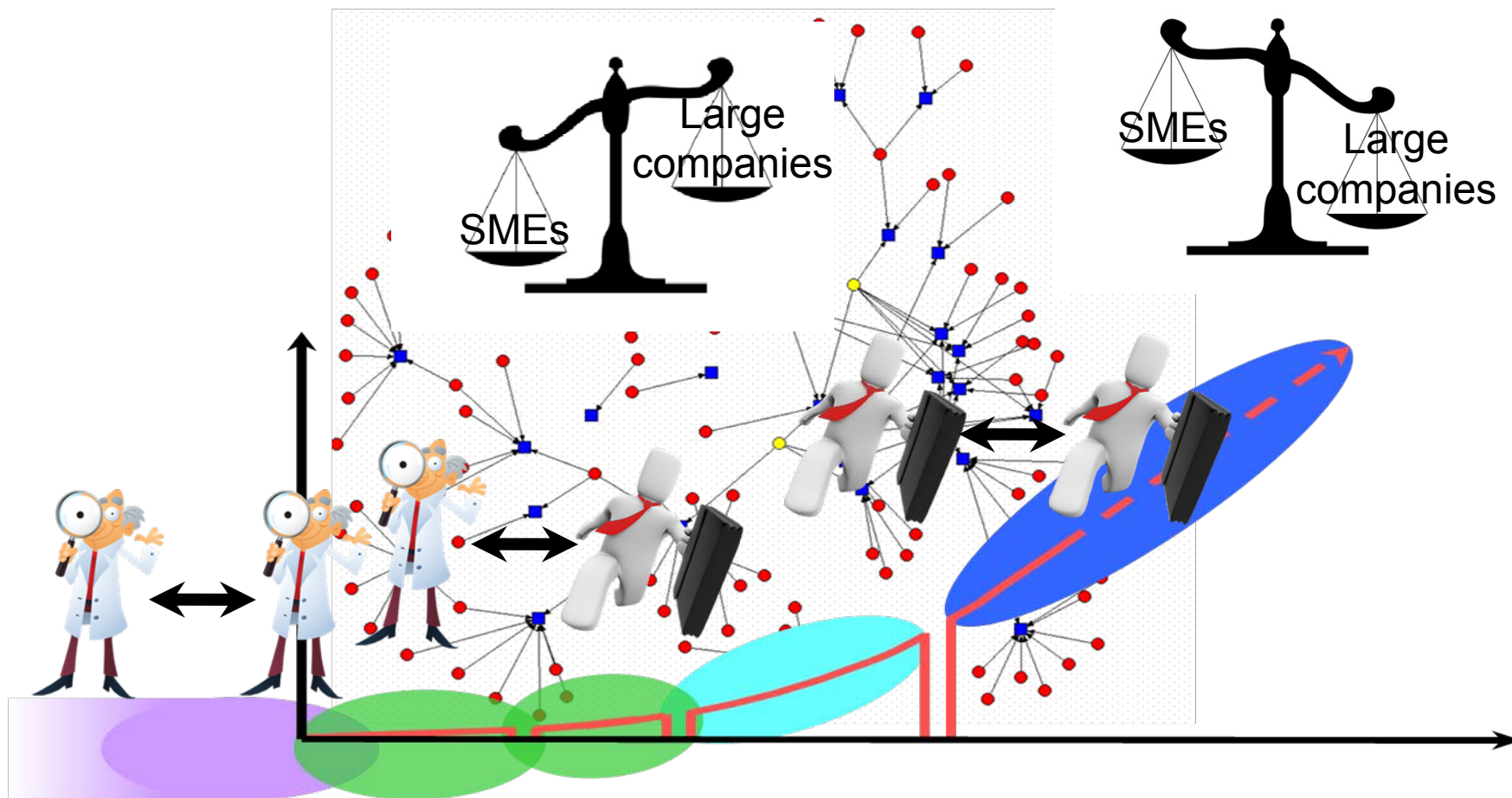
Demand factors



What can we do with this information?

- Test policy intentions beforehand. Are policies effective, what is its added value?
 - *Ideal situation vs. intended situation.*
 - *Where market does not provide required support...*
 - *Gaps require additional policies.*
- How to repair gaps?
 - *Identify factors not sufficiently covered.*
 - *Design instrument that fulfil these factors only.*
- Next step, measure the real performance of policies
 - What are proper indicators?

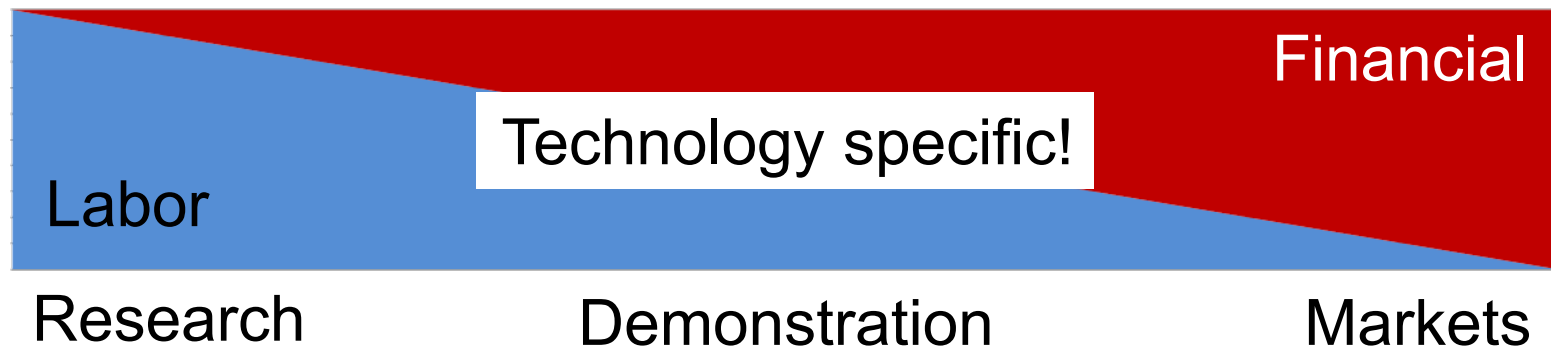
Interactive learning process throughout the whole chain



Investment in social and human capital

On a project level collect data on:

- Amount of funding involved (only on aggregated level)
- Type of funds (e.g. financial, business accomodation, private assets)
- Labor costs
- Physical assets
- Contribution in knowledge (e.g. patents, licences)



Conclusion

- Assessing innovation policy effect on innovation factors
 - *Assesses policy intentions beforehand*
 - *Provides insight in the role of specific policy instruments*
 - *Shows how to effectively fill gaps*
- Ex-post policy assessment
 - *By determining indicators on innovation factors, the real effect of policy instruments can be determined*