

The role of Technology Commercialisation in the operationalisation of Innovation and Industrial Policies



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Problem Statement

The White Paper on Science and Technology (1996), advocates for an establishment of an efficient and well-coordinated technological and socially innovative system

The National Industrial Policy Framework (2007) , concurs
“As a middle income developing country South Africa needs to increasingly invest in its innovation and technology capabilities...,”

Problem Statement...

Despite the *investment* by the state in this area and the countries internationally recognition of *strong research-intensive universities and science councils*;

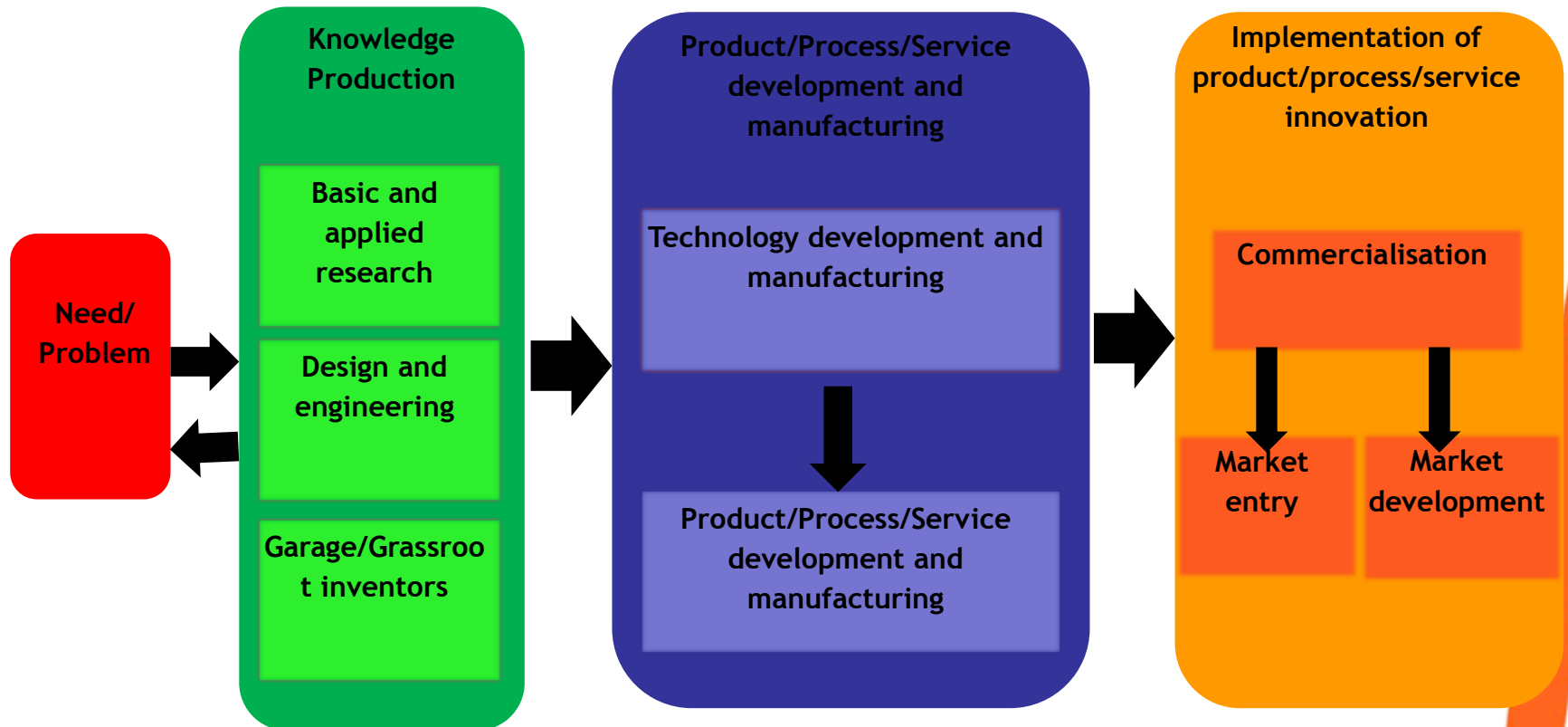
- relatively few of the research outputs reach the market
- businesses undertaking innovative activities in 2008, only four out of ten succeeded in reaching a commercial phase and bringing their innovative products to the market (CeSTII)
- Lack of co-relation between the two policies

Research Question

What types of models for cooperation and/or implementation tools can be introduced to ensure achievement of the objectives of the innovation and industrial policies?

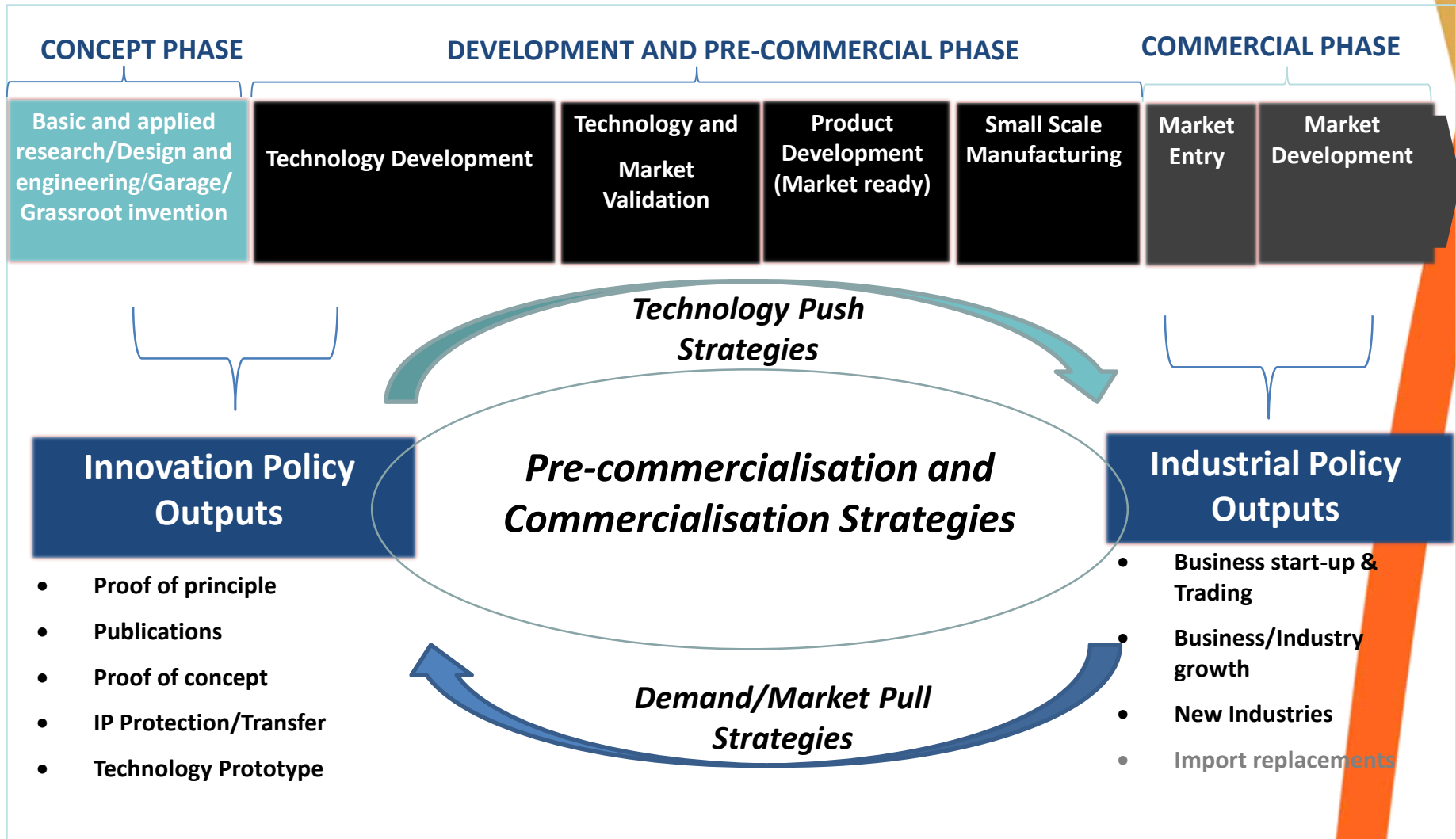
Innovation Process

Practical integrated approach for innovation and industrial policies through technology commercialisation.



Edquist and Lundvall link the use and importance of innovation systems to economic development especially in developing countries

Innovation Process



How Systemic is the National Systems of Innovation?

Key considerations

- Strategic coherence and coordination for technology commercialisation between government departments.
- The **value chain-thematic approach** is necessary for programme and project-to-project focus.

How Operational is the “Triple Helix” Orientation?

Key considerations

- understanding the linkages among the actors involved in innovation is key to improving technology performance.
- this model responds to the technological and sectoral innovation system.
- state should play a catalytic role in funding and prioritising innovation projects

Homogeneity of the “State”

How Homogeneous is the state?

Key consideration

- Adoption of *mission-oriented framework*” (Mazucatto, 2017) - which differentiates between public policies that target the development of specific technologies in line with state-defined goals (‘missions’) and those that aim at the institutional development of a system of innovation”

Conclusion

SUCCESS DEPEND ON:

- Operational Partnerships
- Functional Technology Commercialisation strategies



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