



Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

Setup and implementation of National Systems of Innovation

Good practices and lessons learned

*PCCB Follow-up webinar to 11th Durban Forum on Capacity Building
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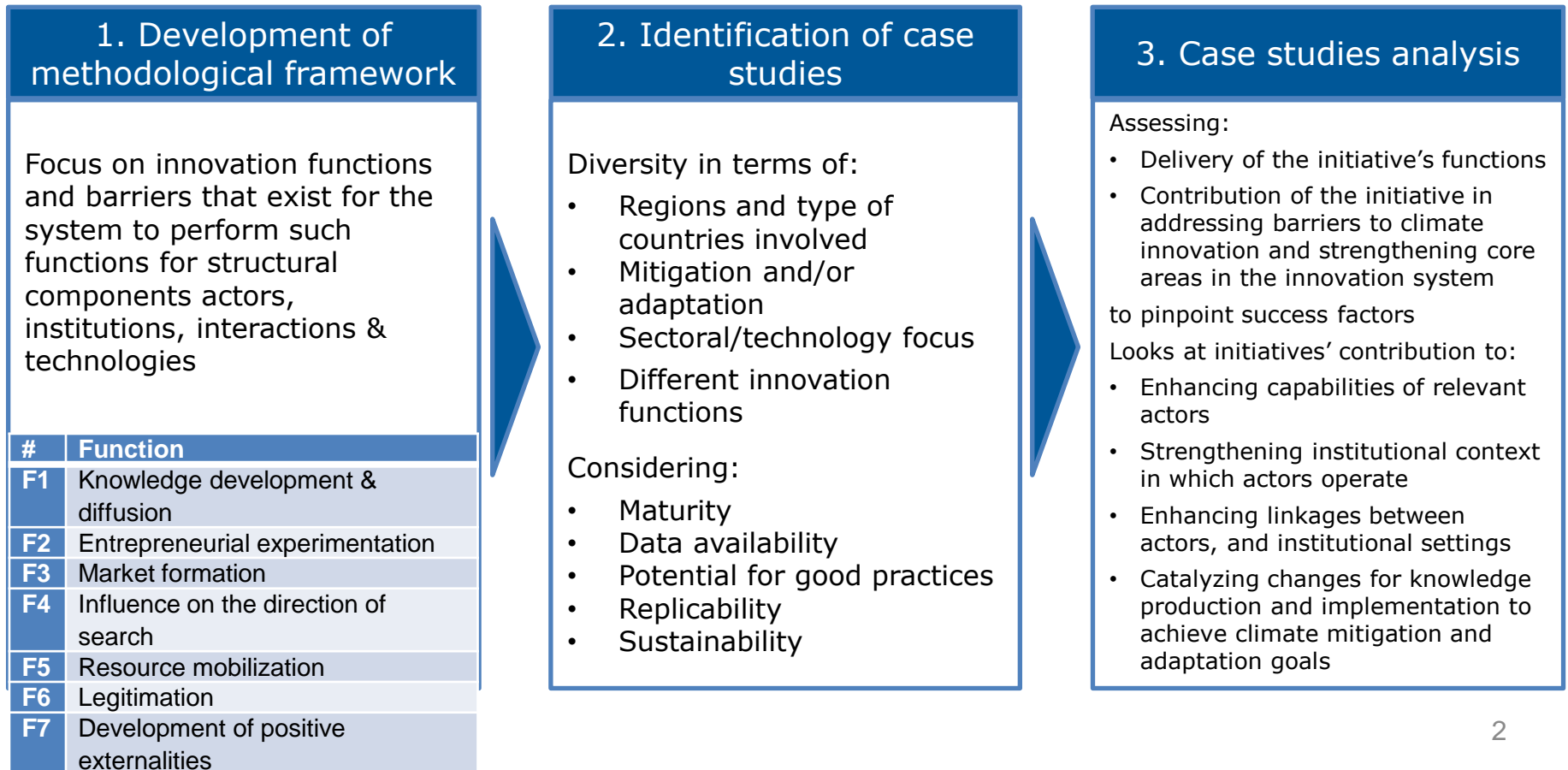


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Approach taken to assess case studies

Assessing selected successful case studies based on a methodological framework developed to evaluate strengths and weaknesses of (parts of) NSIs:



Selected case studies

Case study	Country - region	Mitigation/ adaptation	Sector	Type of country/ income level	Top-down/ bottom-up	Main IS functions
1st version (August)						
BEE Bureau of Energy efficiency	India – Asia	Mitigation	Energy efficiency – economy wide	Lower Middle Income	Top-down	F1 Knowledge development & diffusion F2 Entrepreneurial experimentation F3 Market formation
KCIC Kenya Climate Innovation Center	Kenya – Africa	Mitigation + adaptation	Energy (RE + EE), agriculture, water, waste, forestry	Lower Middle Income	Top-down	F1 Knowledge development & diffusion F2 Entrepreneurial experimentation F3 Market formation F5 Resource mobilization
Disaster Risk Reduction	Haiti - Caribbean	Adaptation	All sectors	Low-Income	Top-down & bottom-up	F1 Knowledge development & diffusion F4 Guidance of search F5 Resource mobilization F6 Legitimation
In 2nd version (after TEC Sept)						
Bio-ethanol programme	Brazil – Latin America	Mitigation	Transport (Energy/ Agriculture)	Upper Middle Income		Expected to cover most, if not all functions

Lessons learned: success factors

1. A systemic perspective, integrated with host country development objectives
2. A tailored approach to bridging sector- and innovation phase-specific gaps
3. Participation of local actors and inclusion of local knowledge and coordination among actors
4. Engage with international institutions and collaborations to help build local institutions, networks
5. Ensure that innovation and organizations are evolutionary and able to adapt to new circumstances
6. Pay attention to long-term planning and continuous monitoring and review

Recommendations

Preparatory practices (continuing during implementation)

- Map the NSI before designing and implementing strategies
- Coordinate and integrate with long-term policy framework
- Engage both public and private sectors
- Look for win-win measures across the various stakeholders
- Establish a coordinating agency with clear roles and responsibilities

Implementation practices

- Focus beyond hardware innovation to include software and orgware (capacity building, communication, policies)
- Pay attention to market creation for climate technologies
- Design innovative, customized, and flexible funding frameworks
- Create complementary knowledge and servicing infrastructure
- Strengthen local capabilities, while ensuring coordination
- Use international collaborations to develop local capabilities and resources
- Allow flexibility in how policy goals are met

Evaluation and realignment practices

- Ensure there is adequate and systematic monitoring, evaluation and review
- Evolve and diversify through learning by doing
- Learn iteratively and be adaptive to evolving situations and needs

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