

مِنَاطِنَةُ عَمَّانَ
وَمِنَارَةُ الْحِجَابِ جَبَّتَا



Enabling Science Diplomacy in International Open Innovation

Office of Science, Knowledge & Technology
Transfer

Renewables: A Key Driver for Clean Energy Transition
Solar PV Rooftop Workshop & Training

13 & 14 DECEMBER 2017



Office of Science, Knowledge & Technology Transfer (SKTT)

Mandate:

To enable science diplomacy in international open innovation to support in developing national:

- **Priorities**
- **Capabilities**
- **Mechanisms**

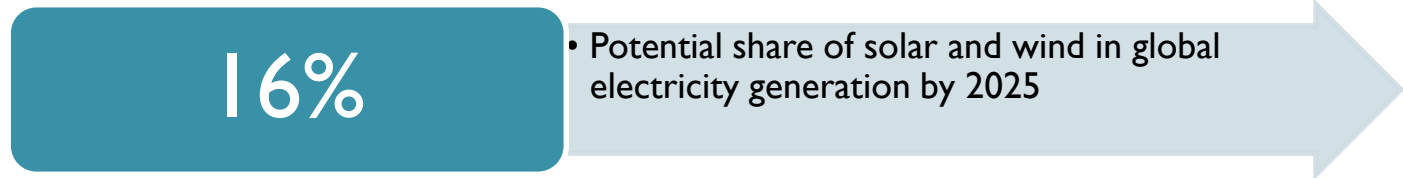
Example: S & T Agreement between Oman and USA.

Sustainable Development Goals



Future Disruptive Technology

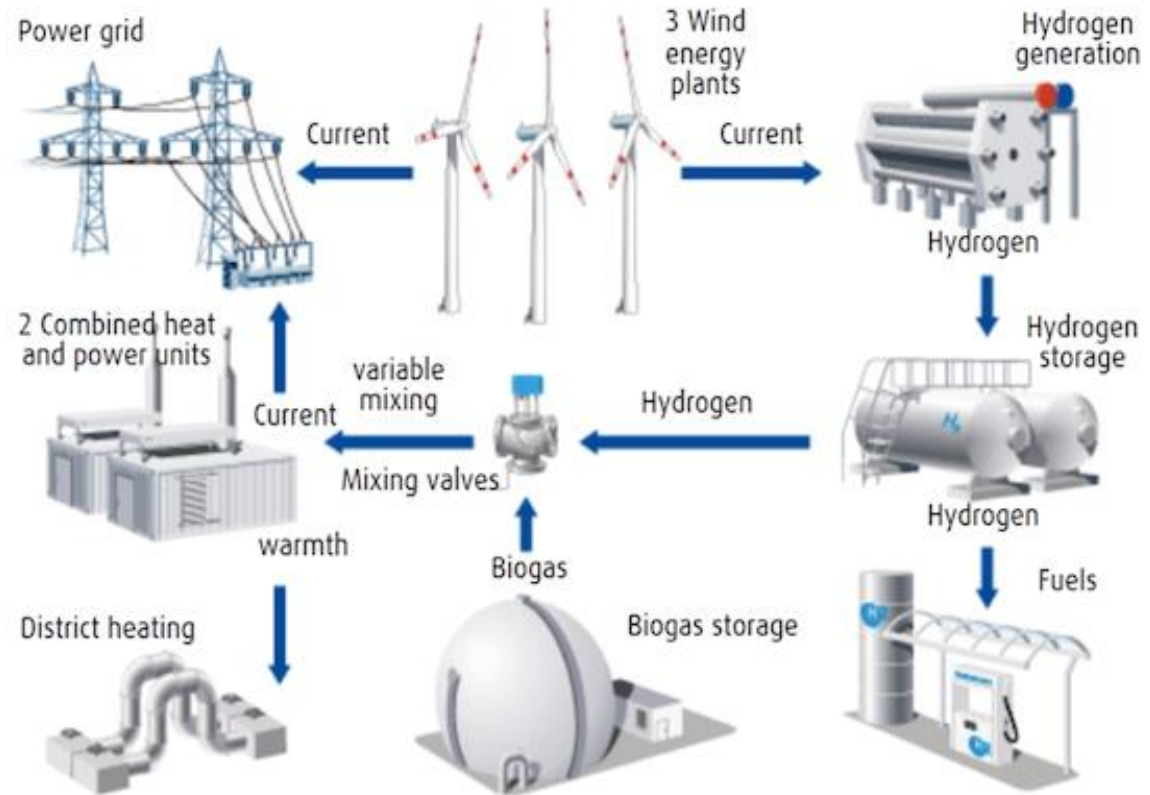
With economic potential in 2025 (MGI, 2013)



Future Disruptive Technologies

Mobile Internet	Automation of knowledge work
Cloud Technology	The Internet of Things
Autonomous and semi-autonomous Vehicles	Advanced Robotics
Energy Storage	Next-generation Genomics
Advanced Materials	3D Printing
Renewable Energy	Advanced Oil & Gas exploration and recovery
Context Awareness Technology	Wearable Technology

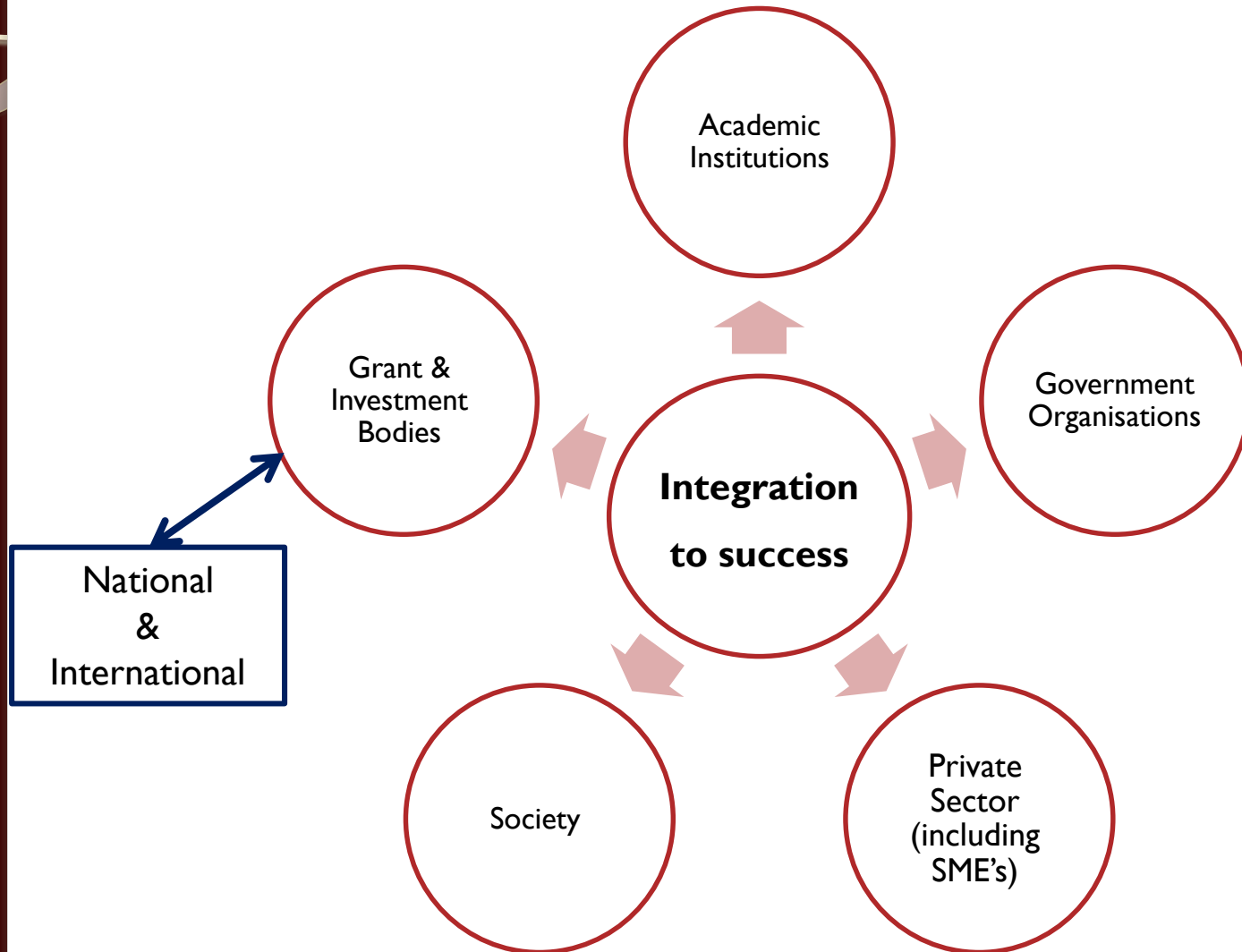
Example: Hydrogen Storage (Fraunhofer Institute):



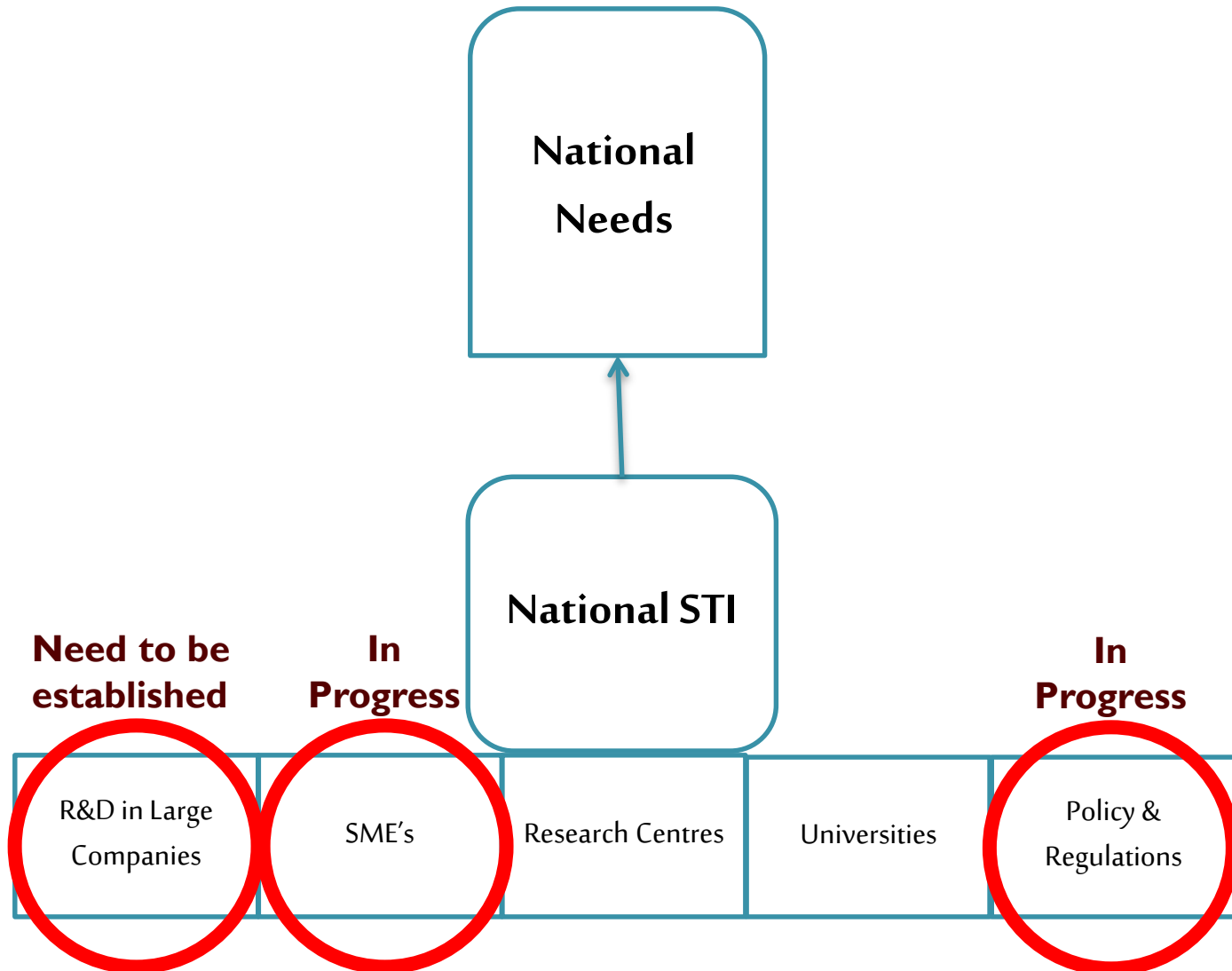
Grafik: Römer

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Key Elements to Success: Local Multi-Stakeholders

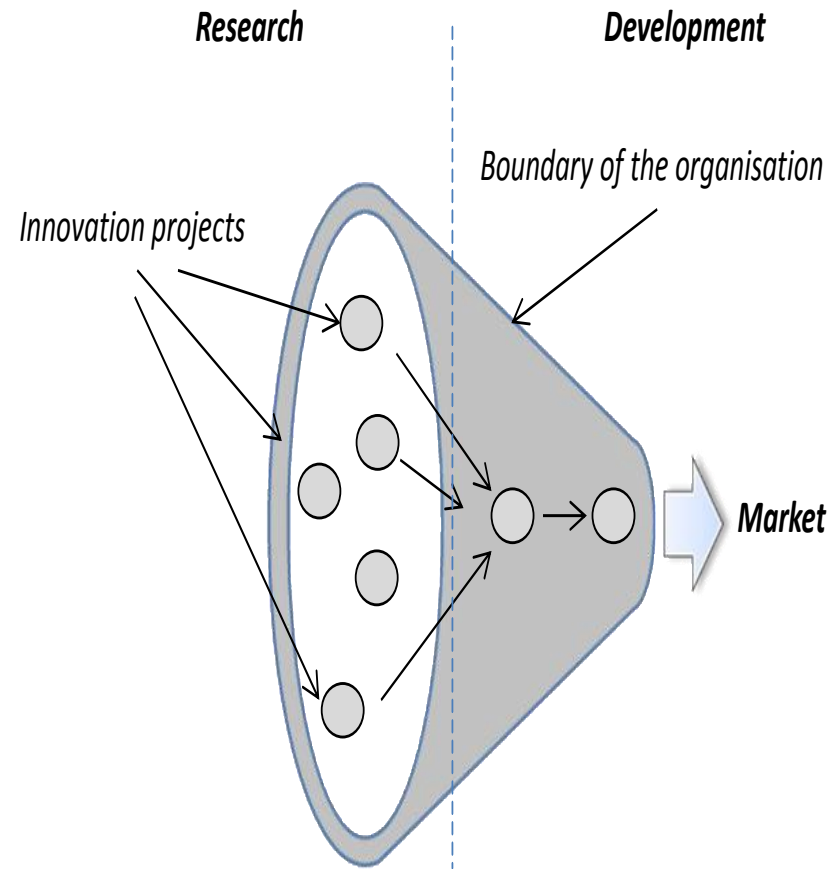


Key Driver: National STI

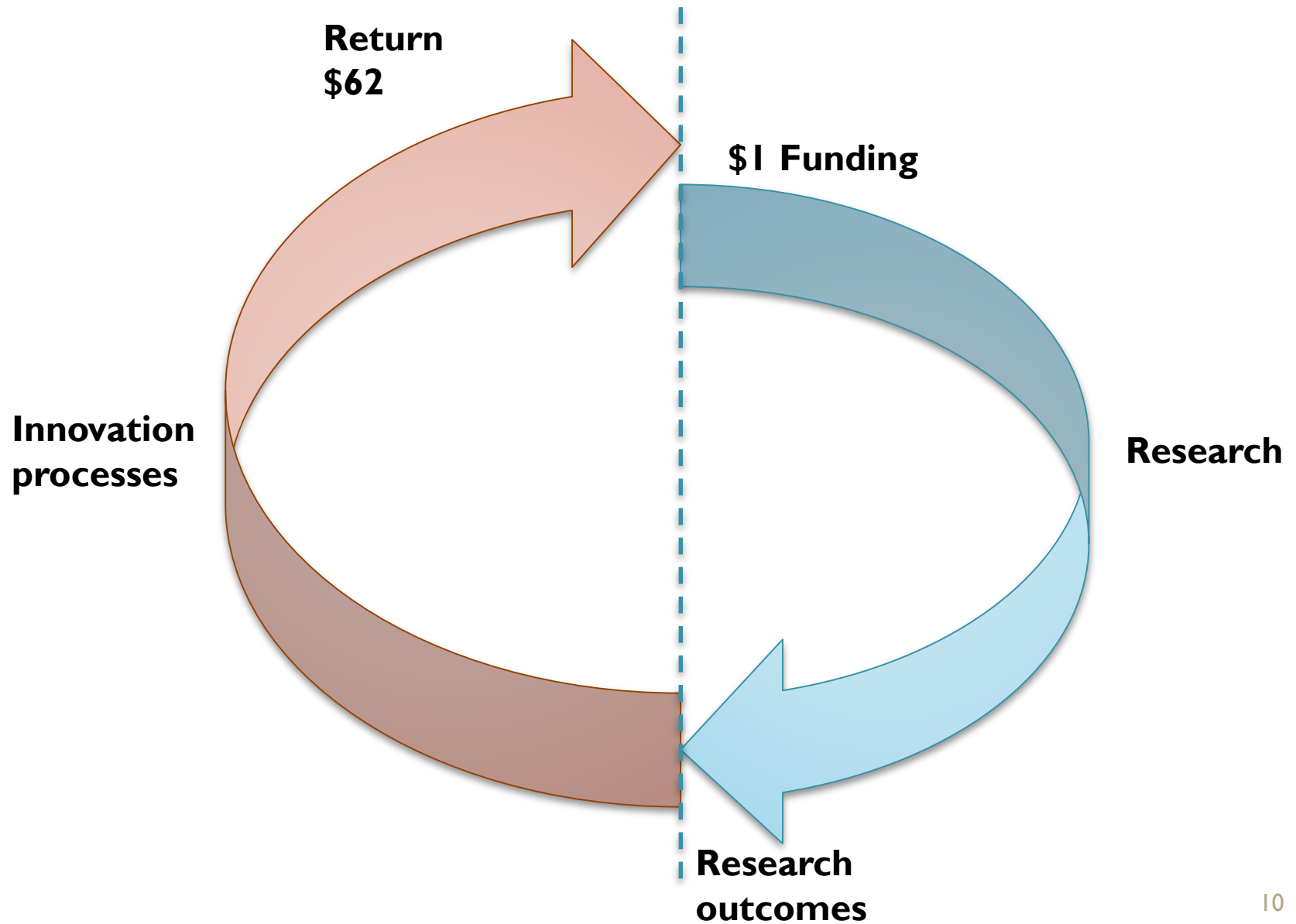


Closed Innovation System

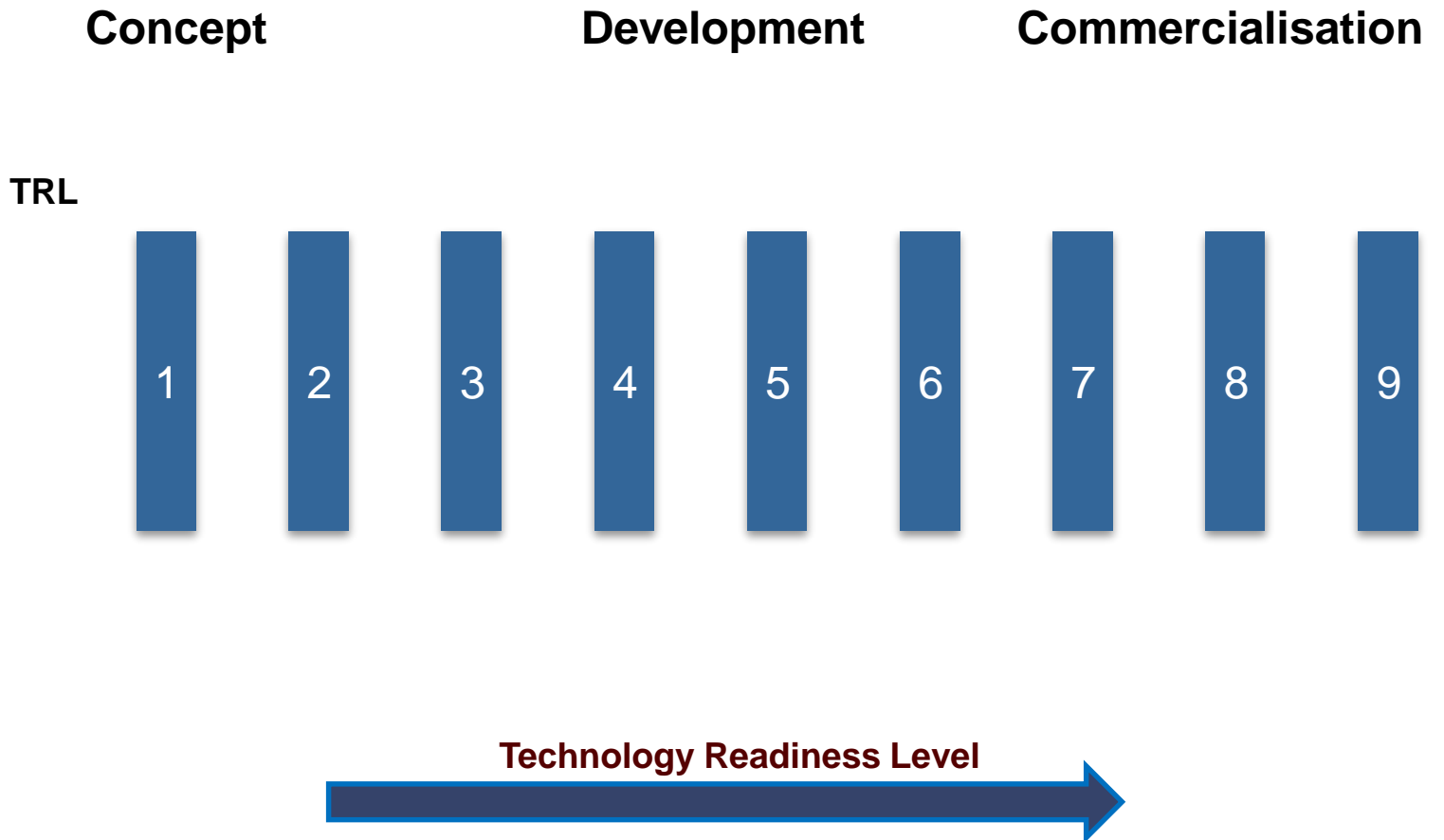
- In the closed innovation paradigm the organisation must generate their own ideas and then develop them, build them, market them, distribute them, service them, finance them, and support them on their own
- Enterprises are strongly self-reliant
- The dominant logic behind closed innovation was internally focused: enterprises invested in innovation, which led to many breakthrough discoveries
- The IP that arises from this internal innovation was closely guarded, rivals could barely exploit these ideas for their own profit
- Most theories and models to managing innovation are built on the close innovation conception
- Stage gate process
- Product development funnel
- Innovation pipeline model



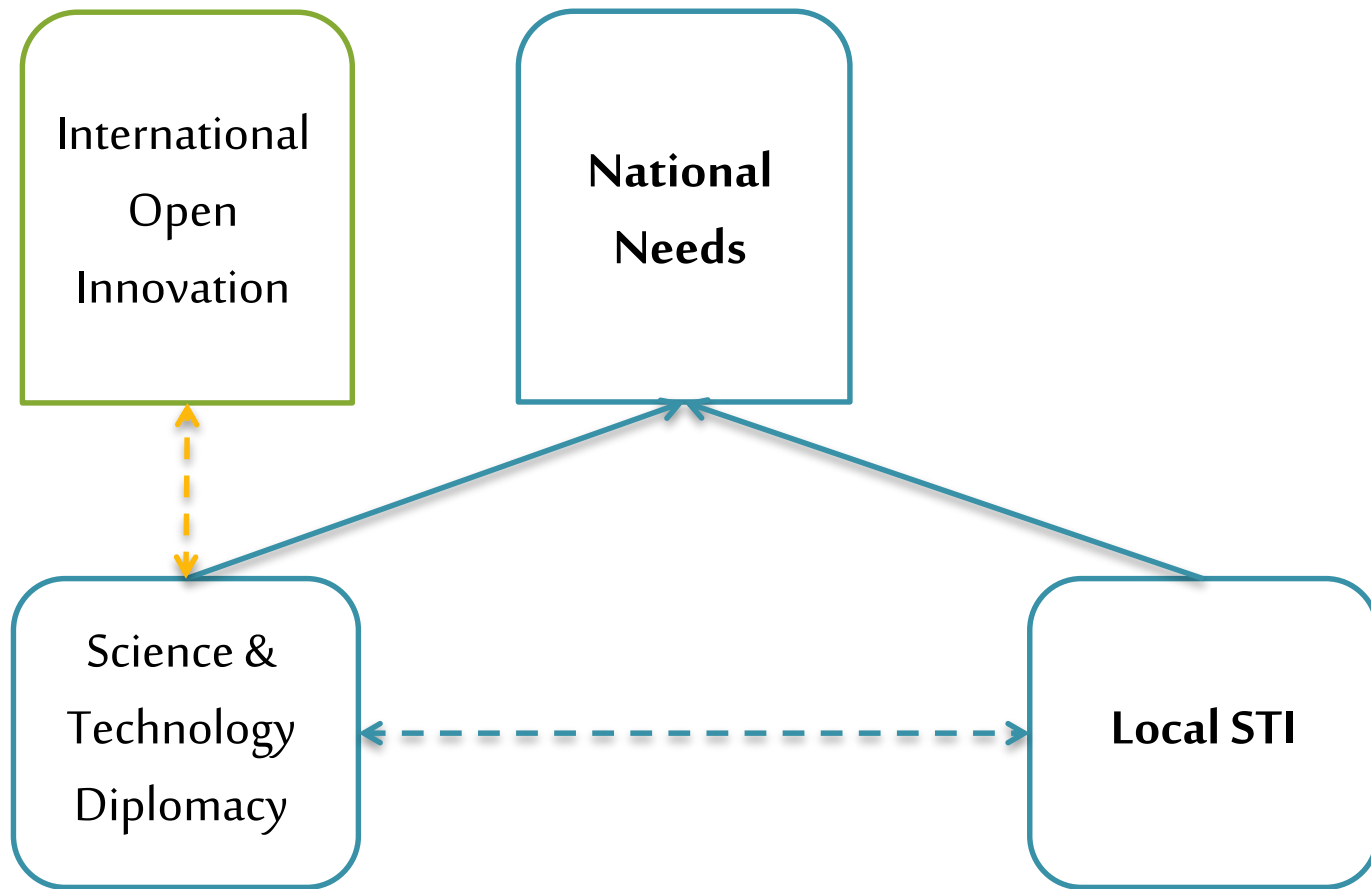
Research & Innovation



Innovation Process



How Would SKTT Support?



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Shukran

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