

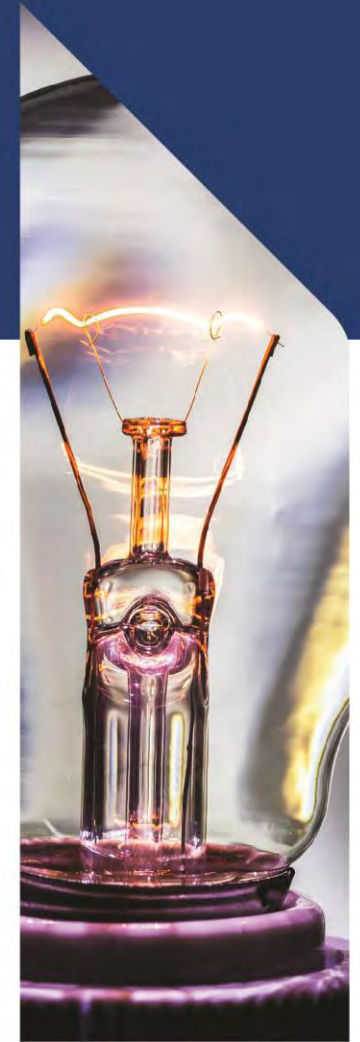
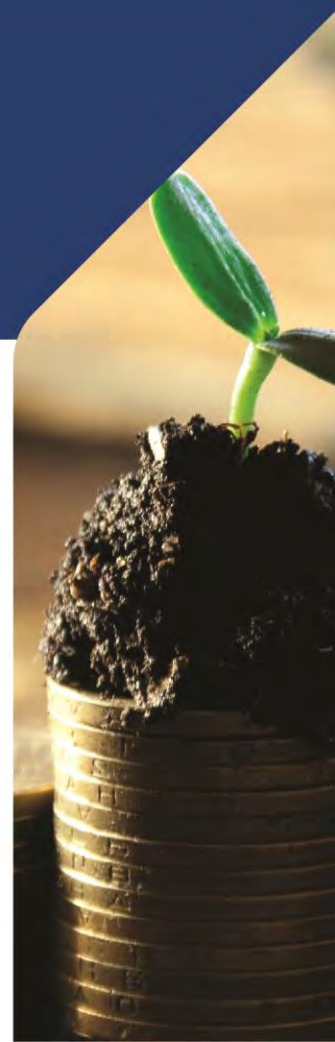
TECHNOLOGY INNOVATION AGENCY – Funding Schemes



technology innovation
A G E N C Y
Innovating Tomorrow Together



2. Mandate of Technology Innovation Agency



Mandate

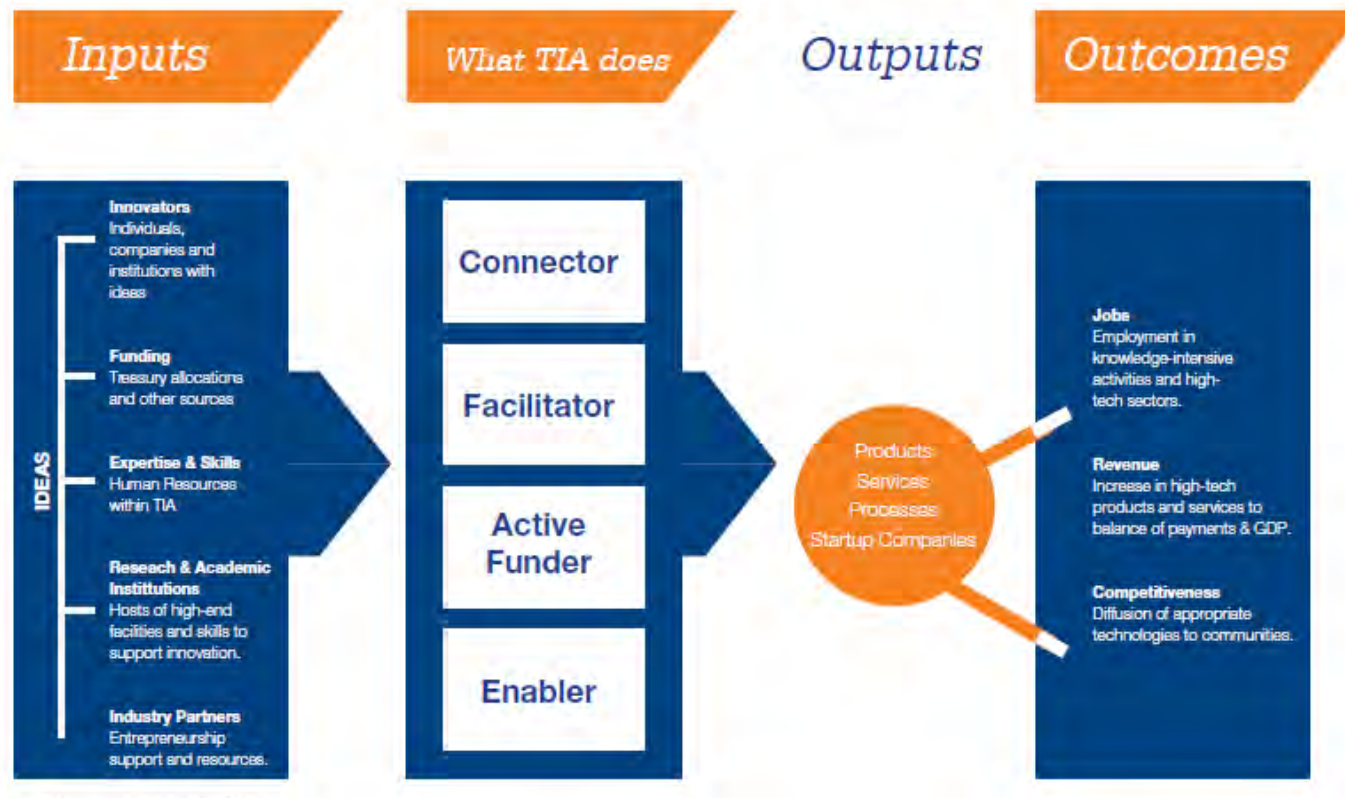
Technology Innovation Agency

The mandate of TIA is derived from the provisions of the Technology Innovation Act (Act 26 of 2008), which establishes TIA as an Agency to **promote the development and exploitation**, in the **public interest**, of **discoveries, inventions, innovations** and **improvements**.

The objective of TIA is to **support the State**, through the DST, in **stimulating** and **intensifying technological innovation** in order to **improve economic growth** and the **quality of life** of all South Africans by **developing and exploiting technological innovations**.

In addition, the Public Finance Management Act (Act No. 1 of 1999) (PFMA) classifies TIA as a Schedule 3A public entity. Chapters 5 and 30 of the National Treasury Regulations provide a framework upon which TIA must prepare a Strategic Plan that is consistent with the period covered by the Medium-Term Expenditure Framework for approval by the relevant Executive Authority.

TIA Value Proposition



Our Vision and Mandate

Vision

- To be a leading technology innovation agency that stimulates and supports technological innovation to improve the quality of life for all South Africans

Mission

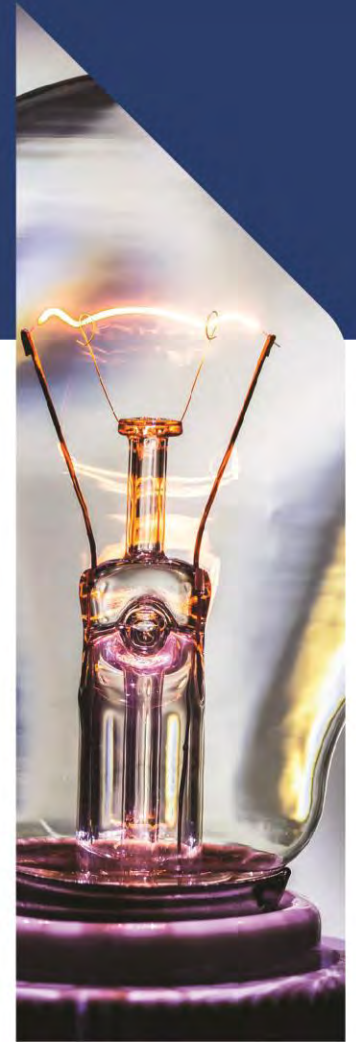
- To facilitate the translation of South Africa's knowledge resource into sustainable socio-economic opportunities

Our promise

“ Innovating tomorrow together”

- Innovating
- Tomorrow
- Together

TIA Funding & Support



Strategic Technology Areas



ICT



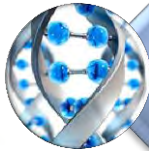
Renewable Energy



Natural Resources

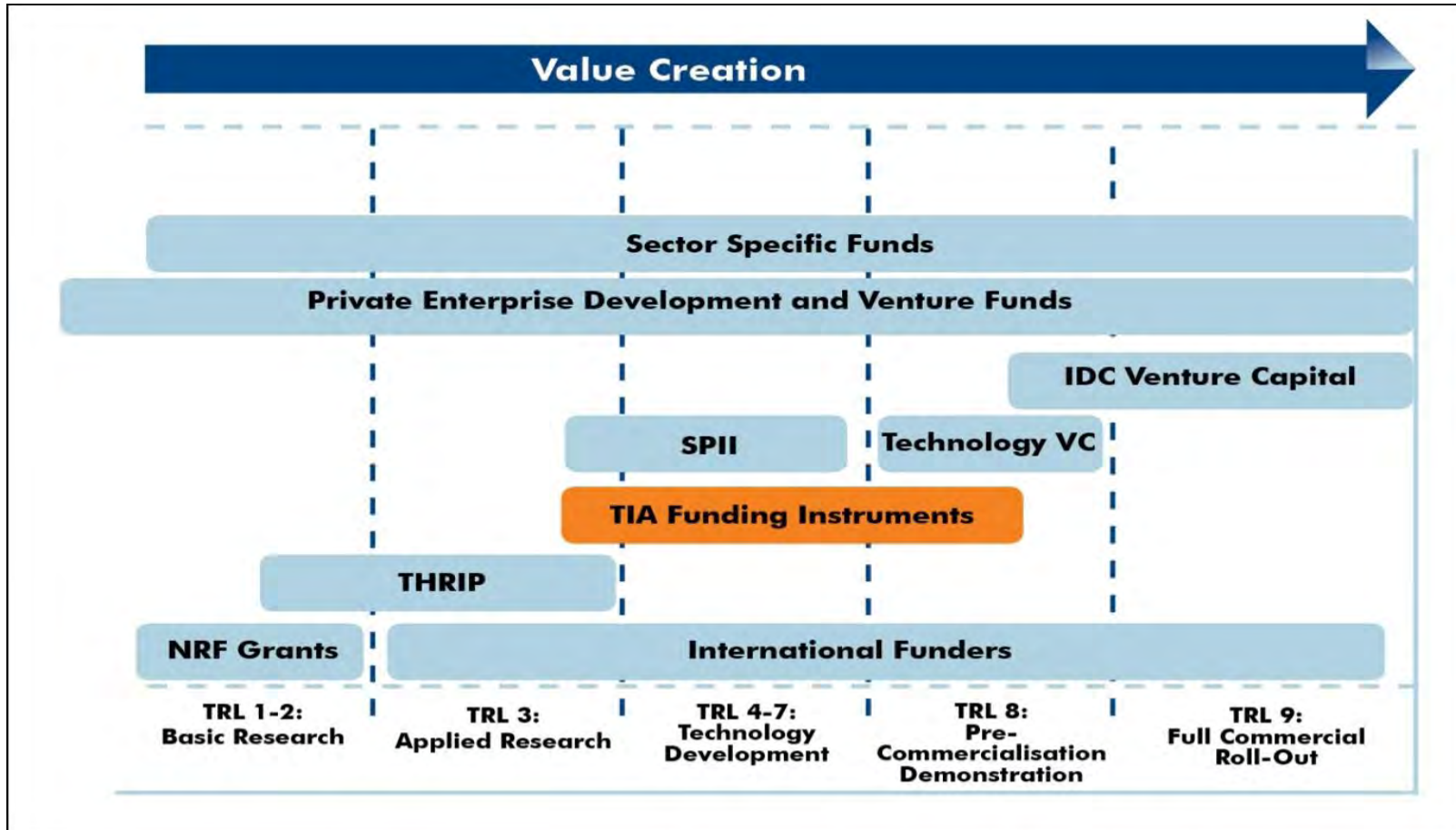


Advanced Manufacturing Technologies

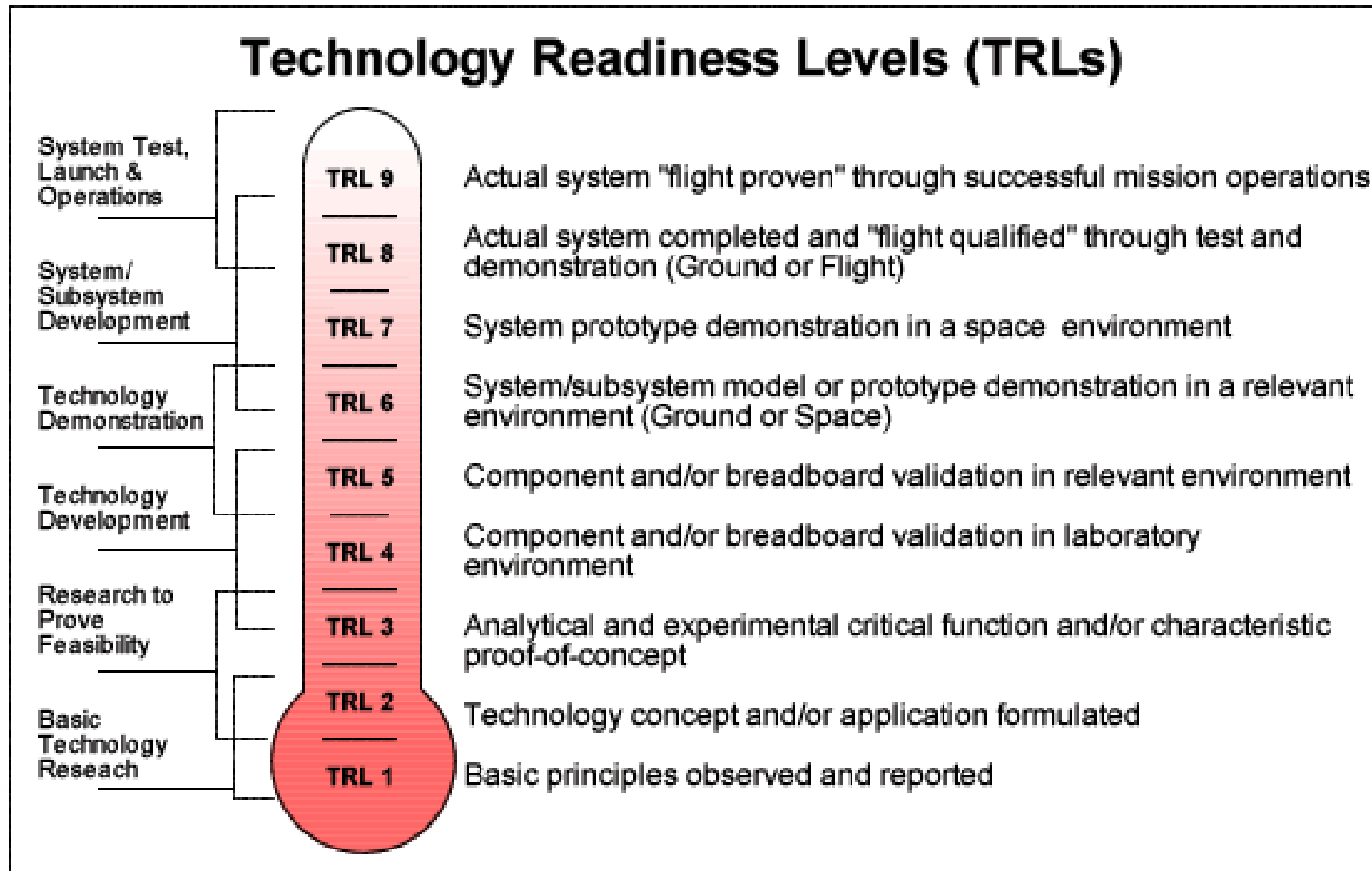


Biotechnology [Health and Agriculture]

South African Innovation Funding Landscape



Technology Readiness Levels



TIA funding

- In order to fulfil its mandate, TIA will fund technologies from proof of concept stage (TRL3) to technology development (TRL 4-7) and support the pre-commercialisation stage (TRL8)
- *TRL 3 – Proof of concept*
- *TRL 4-5 – Technology development (prototyping / piloting)*
- *TRL 6-8 – technology demonstration and pre-commercialisation (limited funding; partnerships)*

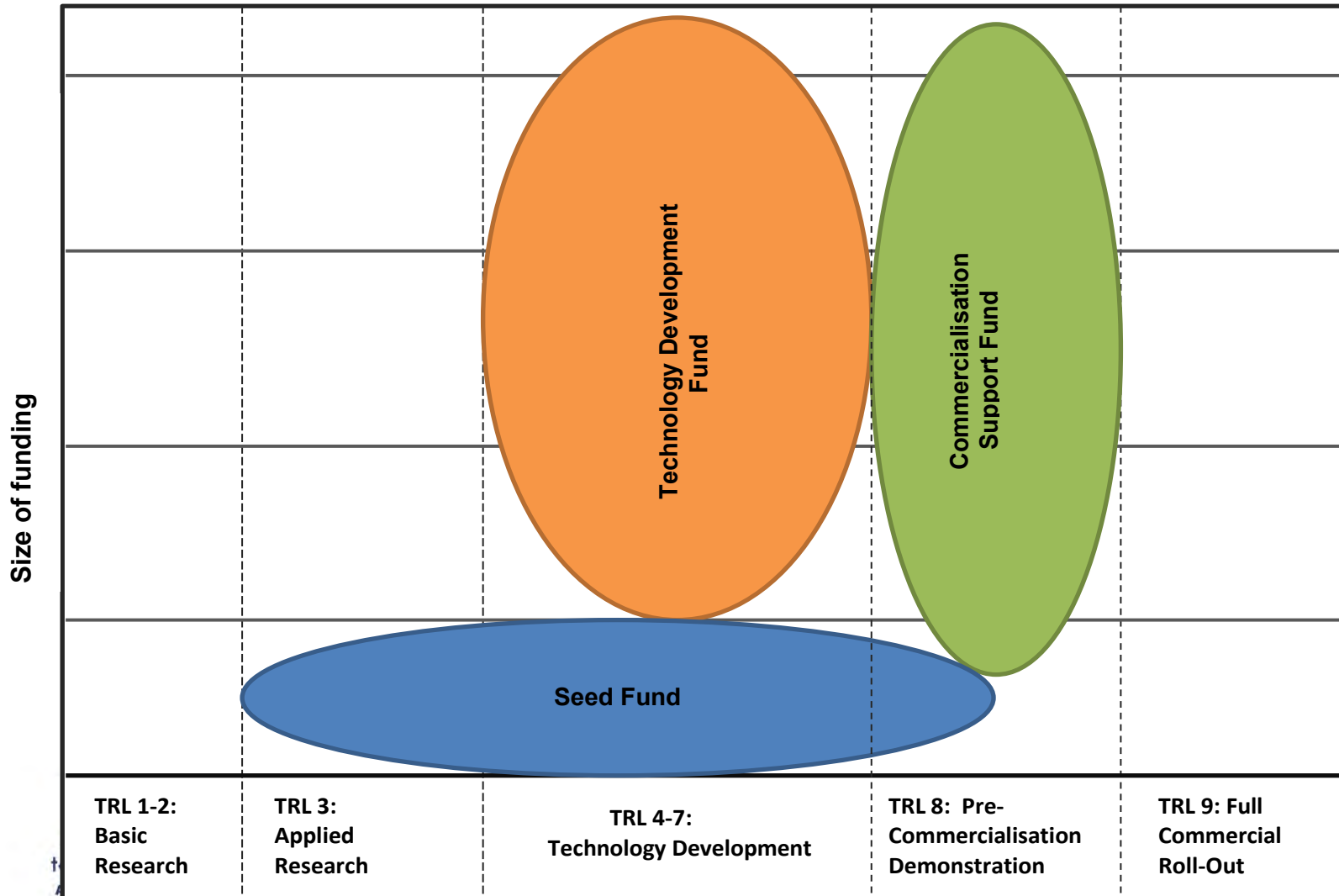
New thinking to consider three readiness levels

- EDP
- MRL
- BRL

Types of Innovation

- Product/Service – product or service that is entirely new or has significantly improved characteristics or uses
- Process–new or significantly improved method of production or delivery of a service;
- *Organizational* – new method of organizing business practices, the workplace, or relations with outside organizations;
- Marketing – new developments in the design or packaging of products, the channels for distribution, promotion or pricing.
- Business Model Innovation – a new way of doing business

Funding Schemes



Funding Schemes....

Fund	Purpose	TRL Level
Seed Fund (SF)	To assist innovators at HEIs, Science Councils and SMMEs to progress their research and technological outputs to develop prototypes, establish proof of concept and validate business cases.	3-8
Technology Development Fund (TDF)	To assist innovators to advance technologies along the innovation value chain, from proof of concept/prototype to technology demonstration. The Fund is designed to make early stage technology development more attractive and less risky to the market	4-7
Commercialisation Support Fund (PCSF)	To prepare innovators for follow-on funding through support for market testing and validation. In this space, TIA's role is to connect technology innovators to onward business and investment opportunities.	8

Technology Development Fund

Fundable Activities

- Prototype development
- Demonstration and pilot plants
- Support for certification activities
- Piloting and techno-economic evaluations
- Sourcing of Intellectual Property (IP) opinions
- Provision of analytical services
- Acquisition of technical and scientific infrastructure and skills
- Technology demonstrations
- Plant Breeders Rights trials
- Field testing and performance trials for veterinary, crop health and nutrition technologies

Commercialisation Support Fund

Fundable Activities

- Production of market samples
- Support of certification activities
- Market testing and validation
- Regulatory approval
- Certification activities
- Plant Breeders Rights registration
- Business Plan development

Seed Fund

Fundable Activities

- Initial proof of concept
- Prototype development
- Sourcing of Intellectual Property (IP) opinions
- Production of market samples
- Conducting field studies
- Support of certification activities;
- Piloting, scale-up and technoeconomic evaluation
- Detailed primary market research
- Business Plan development

Innovation Enabling & Support Programmes

- Collaborative programme that aims to leveraging the strengths of partner to drive a technology solution

Technology Innovation Cluster Programmes



- Aimed at enabling universities to provide innovative SET solutions to SMEs

Technology Stations Programme



- Facilitate access to key infrastructure and expertise for technology innovation

Technology Platforms Programmes



- YTIP assists young innovators in need of funding, mentorship and enterprise development support

Youth Technology Innovation Programme



- Designed to strengthen the fundamental business skills required by technopreneurs

Innovation Skills Development



- Aims to find and foster (SMEs) with technology solutions that tackle the most pressing energy, environmental and economic challenges in South Africa

Global Clean-tech Innovation Programme (UNIDO)



Thank You

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