

Funding information seminar SMME opportunities: EL IDZ

Funding models implemented by the Technology Innovation Agency (TIA).

Date: Wednesday, 21 February 2024

Presenter: Nanga Mjila



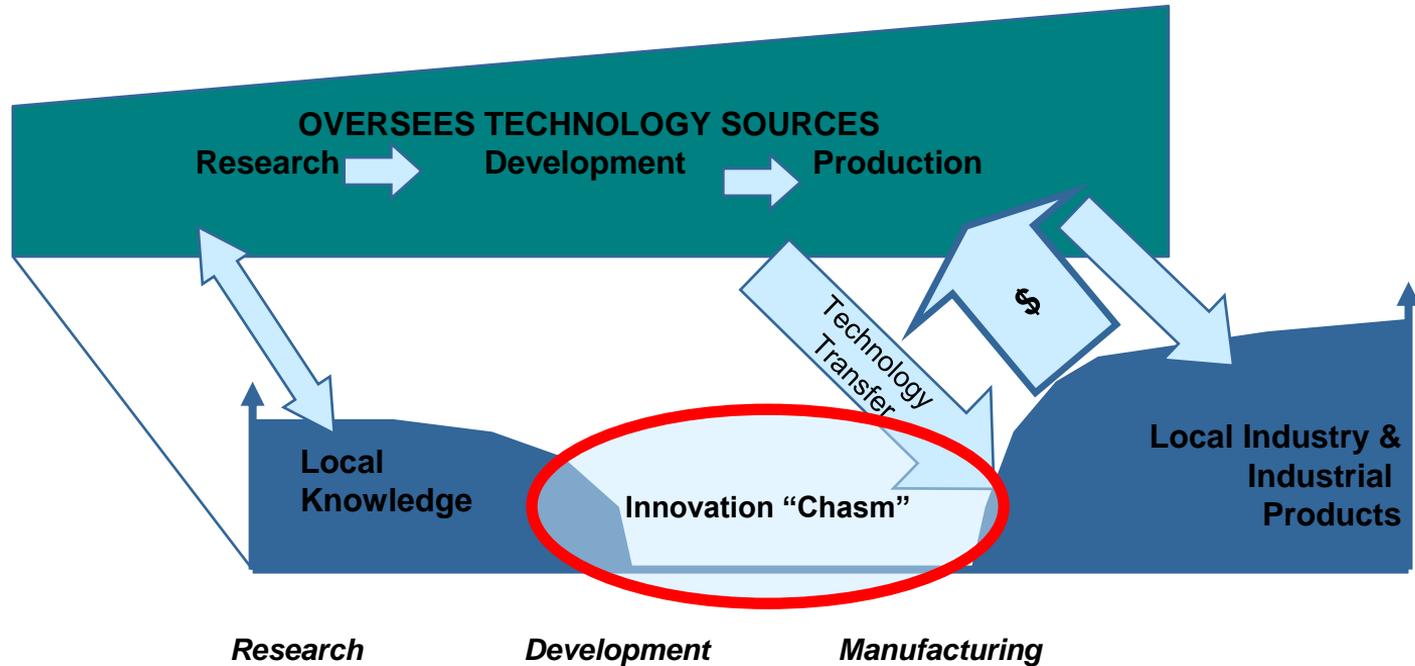
science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



Problem Statement:

Bridging the “Chasm” through local commercialisation



Role of TIA

Connector

- Catalyse partnerships between SMMEs, industries, universities and science councils to develop an enabled environment supporting sector-specific innovations for global competitiveness

Active funder

- Providing risk funding and support for innovators to progress ideas towards market entry & commercialisation

Facilitator

- Attract and facilitate late-stage funding for the commercialisation of market ready technologies

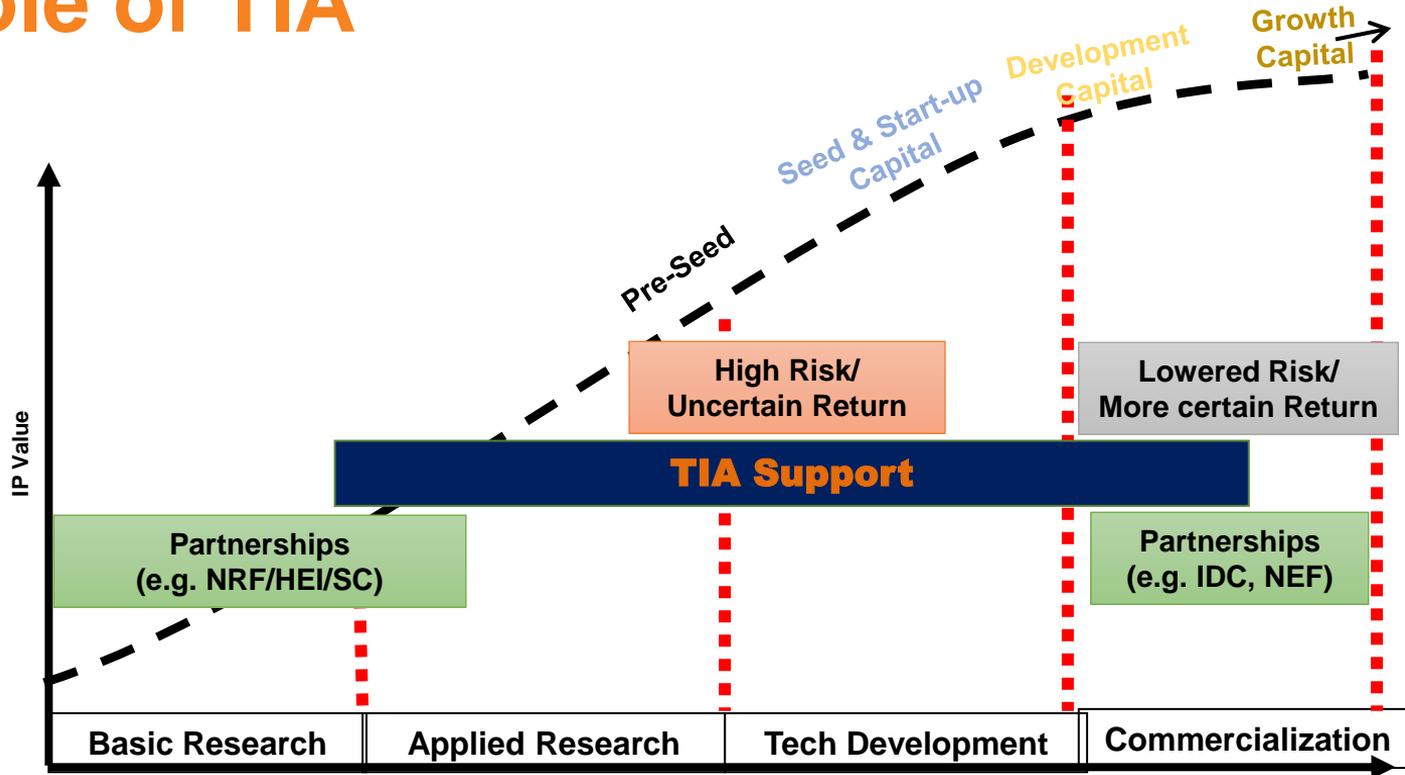
Services

- To reduce barriers of access to expensive high-end skills and equipment for innovators by repositioning Technology Stations and Platforms.

Technological Innovation Thought Leader

- TIA is continually gathering valuable intellectual capital on best practice in technology innovation. This has strengthened the capability of the Agency to inform and provide advice on policy issues, frameworks.

Role of TIA



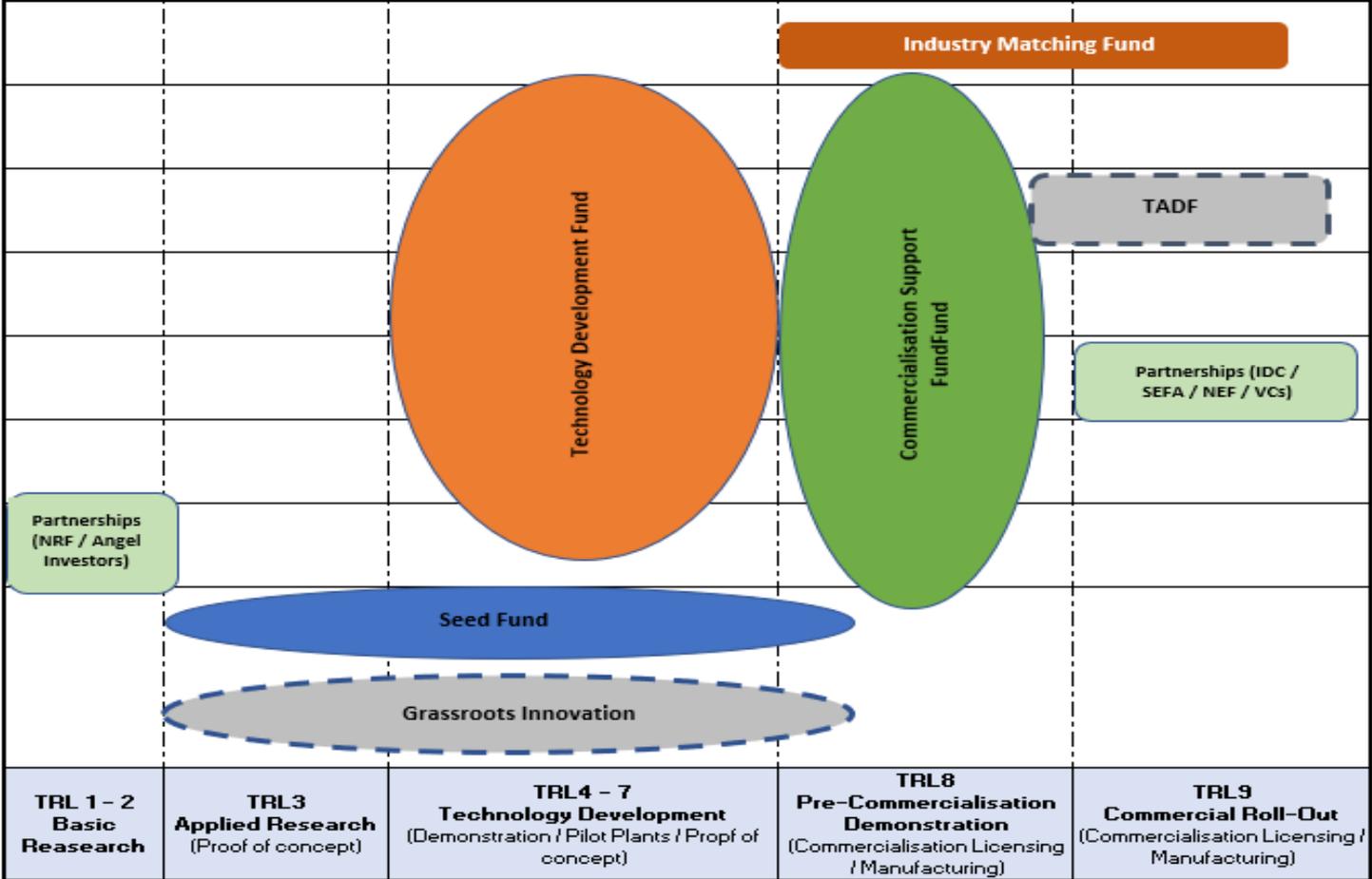
Financial

How do we solve the problems



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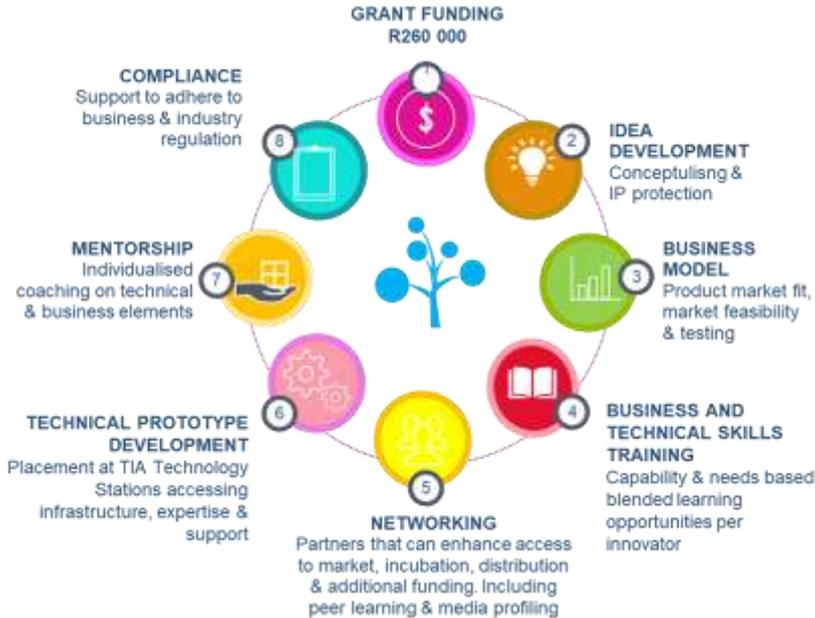
Funding : De-Risk Instruments



Seed Fund Instrument

Typical Funding Instrument:	Grant and Conditional Grant (royalties/levy)
Investment amount:	R100k- recently up to R1mil
TRL :	Preferable for ≥ 3 until 7/8
Funding period guideline:	Maximum 12 - 18 months
Own contribution/co-funder:	Not required
Valuable rights :	Right to participate in further funding rounds
Securities :	None

Grassroots Innovation



Support Item	Estimate Cost
Stipend :	R60 000
Technical Feasibility Assessment:	Service to be provided by TSP/TPP
IP Novelty Search & Analysis:	R12 000
IP Protection (Provisional Patent):	R25 000
IP Protection for RSA Patent:	R50 000
Product Testing & Certification:	R50,000 - R70,000
Prototype/Product Development:	Service provided by TSP/TPP or service provider
Proof of Concept/R&D Support:	R30,000-R80,000
App Development/Web platform:	R140 000

Technology Acquisition and Deployment Fund (TADF)

Public Sector Models (Government Departments, SOEs, Municipalities)

- **Modes 1** – Innovator is the applicant to the TADF, for providing a technology solution for deployment to an identified client who has a challenge/technology need
- **Modes 2** - Client/User is the applicant for a technology solution and they have identified an innovator or that technology for acquisition and deployment
- **Modes 3** - Client/User is the applicant with a challenge and requires a technology solution but have not identified an innovator or technology for acquisition and deployment

(SMMEs, Private Sector Models Start-Ups)

- **Model 4** – SMME is the applicant for acquisition of a technology they have identified in a Science Council and/or University for deployment to public sector or private sector client

**** Model : Market Pull (Business Process still to be defined)**

Funding Parameters : A once off grant funding of up to R1 million

- support deployment (market testing, demonstration and
- validation activities of the product and/or technology
- maximum period of up to 24 months for the actual project execution with the identified potential customers and end-user (government departments or municipalities).
- Project is supported by specialists for verification, validation and quality assurance

Industry Matching Fund



- 22 invested projects
 - ✓ 50% from TIA de-risked portfolio
 - ✓ 60% involves publicly-funded IP
- R456M funding leveraged against R28m TIA funds
- R1bn leveraged at project level
- 9 of 22 projects commercialised to date

Non-Financial

How do we solve the problems



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Technology Innovation Clusters

- To develop improved, new vaccines, pharmaceuticals & diagnostics for the Animal Health Industry.
- Members: OBP, ARC, CSIR, UP, UCT

ANIMAL HEALTH
(R120M/ 5YR)



- To develop a genotypic database of all economically imp cattle breeds in SA-enhanced meat quality
- Members: ARC, Breeders, UP, Studbook, LRF

BEEF GENOMICS
(R30M/ 3YR)



- To develop a genotypic database of all economically imp cattle breeds in SA – enhanced milk production
- Members: ARC, Breeders, UP, Studbook, LRF, other HEI's

DAIRY GENOMICS
(R15M/ 3YR)



- To drive the development of e-mobility technologies – energy storage, data management. Create an enabling environment
- NMMU, various OEM's, EVIA

UYILO: EMOBILITY
(R35M/ 4YR)



Hosted at CPT Pharma
In partnership with NWU ad Industry
Tech dev and Commercialisation of API
manufacturing
R15m invested



Supporting the development of local medical
devices industry
Hosted at SAMRC
R5m initial investment

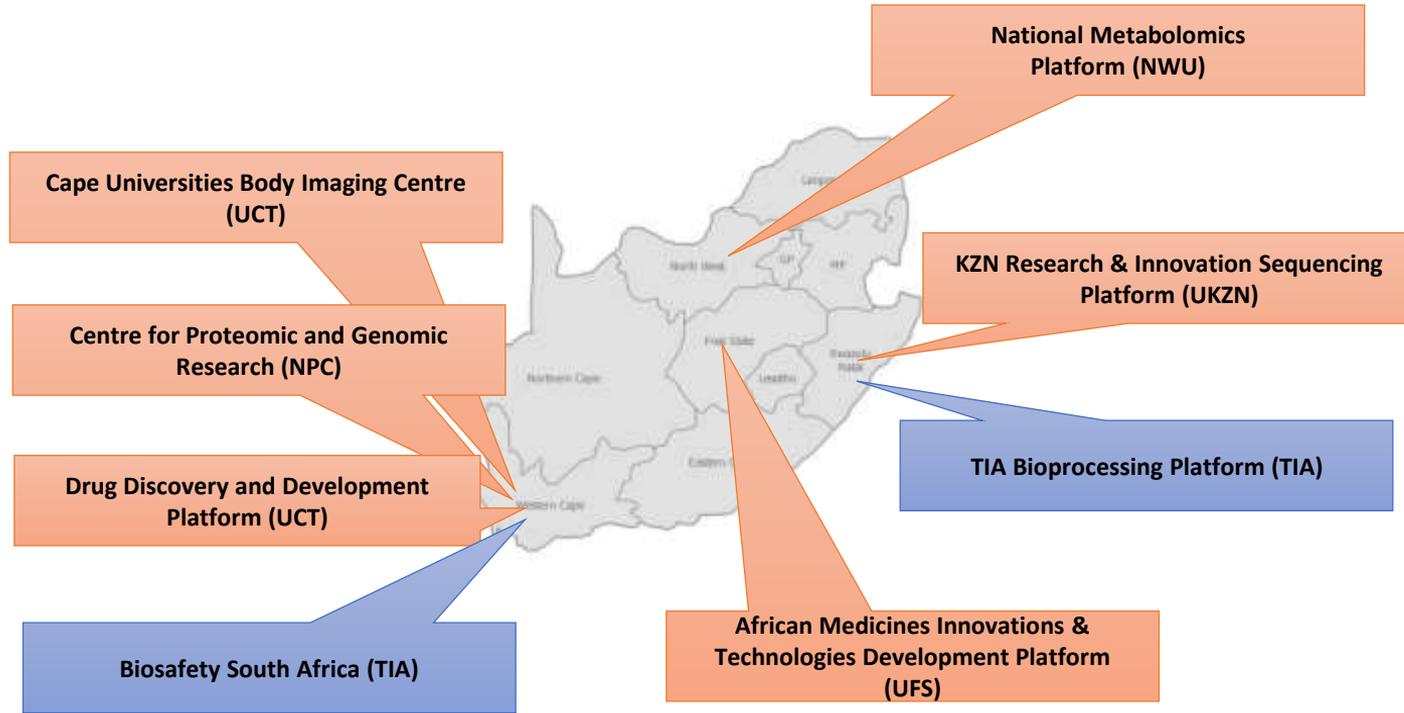


Forest Bio-economy Innovation Cluster (FBIC) (R67M/6yrs)

The FBIC works towards strengthening and enabling the SA Forestry Industry Bio-economy Innovation ecosystem, establishing strong technology development and innovation programmes along the full value chain of the local forestry



Technology Platforms



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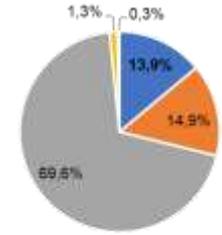
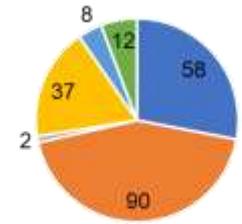
Technology Stations Support Infrastructure

Technology Stations (TSs) are centres of high competence that provide SET solutions for technical challenges to individuals, researchers, SMMEs and industry to contribute towards improving the competitiveness of industry through the application of specialised knowledge and technology; thus facilitate the interaction between industry and academia to enable innovation

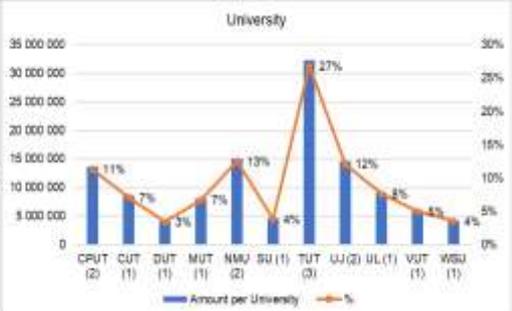


- Testing and Analytical Services
- Rapid Prototyping and Manufacturing
- Consultation, Technology Audit and Feasibility Study
- Research and Development
- Process or Product Improvement
- Applied Development, Engineering and Design
- Technology Demonstration and Training

TS personnel - Scientific Capacity (n=207)



- Registered - SME
- Non-Registered Techno Entrepreneur
- Non-registered Entrepreneur
- Cooperatives
- NGOs/NPOs



More Information

Thank You!!

www.tia.org.za/programmes/

www.innovationbridge.info/ibportal



To get database of technologies, experts and services search engine, go to www.heda.co.za/satnsearchengine/formsa

