

Innovation, Energy Transition & Sustainability to foster SEZ development in Africa



**BURO HAPPOLD** 

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# Our SEZ Business operates at three levels – Strategy and enabling environment, New Greenfield Zone Development, Repositioning zones

#### **Strategy Support**

Creating the planning and institutional tools to establish and guide the growth of zones.

- Strategy and regional planning
- Programme development and site selection.
- International partnerships
- Investor services

#### **Supporting Government**

#### **Green Field Development**

Market, Feasibility, Planning & Business case

- Market Study
- Feasibility Planning
- Engineering
- Eco-design
- Transaction advisory
- Investor attraction.

Outcome to support investment decision and finance raising.

#### **Repositioning of Zones**

Unlocking stalled zones

- New markets, value chains/business lines
- Investor attraction
- Campus strategies, infrastructure commercialisation and digital services.
- ESG and investor sustainability requirements.

Call down support for ongoing advice.

Key Question: What role(s) can SEZs in Africa play to Commercialize Local Research, Science and Technology to improve the Export Competitiveness of the Continent.



## Advanced Manufacturing

Advanced manufacturing "improves existing or creates entirely new materials, products, and processes via the use of science, engineering, and information technologies; high-precision tools and methods; a high-performance workforce; and innovative business or organisational models"

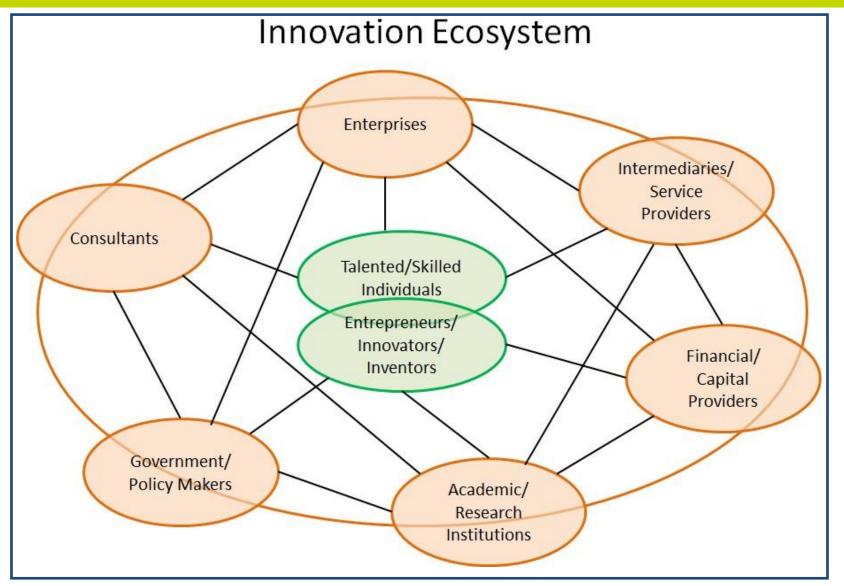
- ✓ Advanced products
- Advanced processes and technologies
- Smart manufacturing and enterprise concepts
- ✓ Advances in science and technology and the convergence of these technologies

#### SEZ Opportunities include:

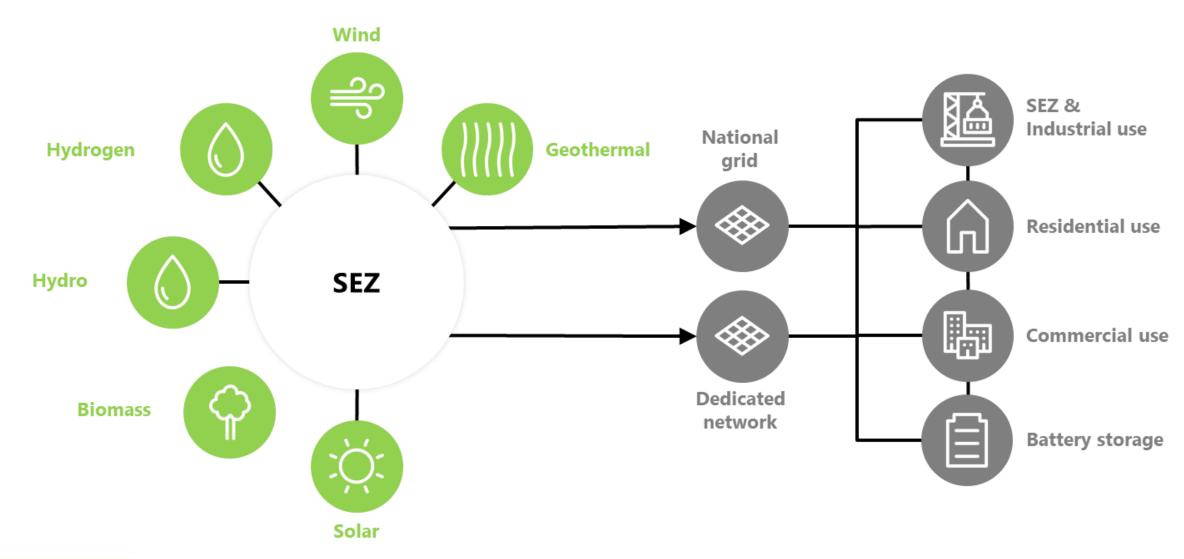
- ✓ Additive Manufacturing
- ✓ Bio-manufacturing
- ✓ Synthetic Biology & Chemistry
- ✓ Nano-technology applications
- ✓ Digitisation & Automation
- ✓ Robotics & Al applications



### The Industrial Innovation Ecosystem



### SEZs as Vehicles for Energy Transition - Decentralized Energy Solutions



Case Study: Science Technology & Innovation Precinct - Gauteng Science High-Technology and Innovation SEZ - South Africa



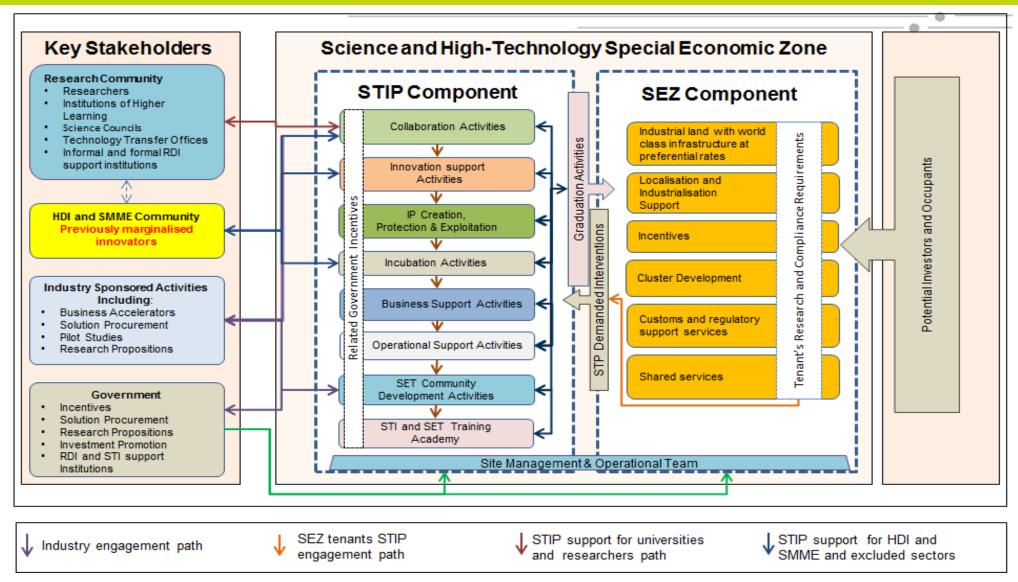
## Example: Science and High-Tech SEZ – Ecosystem and Enabling Environment/Developing this ecosystem is essential for developing this type of SEZ

According to the CSIR, the Gauteng S&HT SEZ is "a strategically planned, purpose-built working environment that seeks to create an innovation enabling ecosystem and a strong community of science, technology, research, innovation and manufacturing businesses seeking enhanced economic performance through greater cooperation and integration of support activities. Here the focus is on increased cooperation between the different stakeholders in a specific geographic area for the purpose of optimising research, innovation and technology commercialisation for industrial development."

#### Terms of Reference - Focus Sectors/Industries:

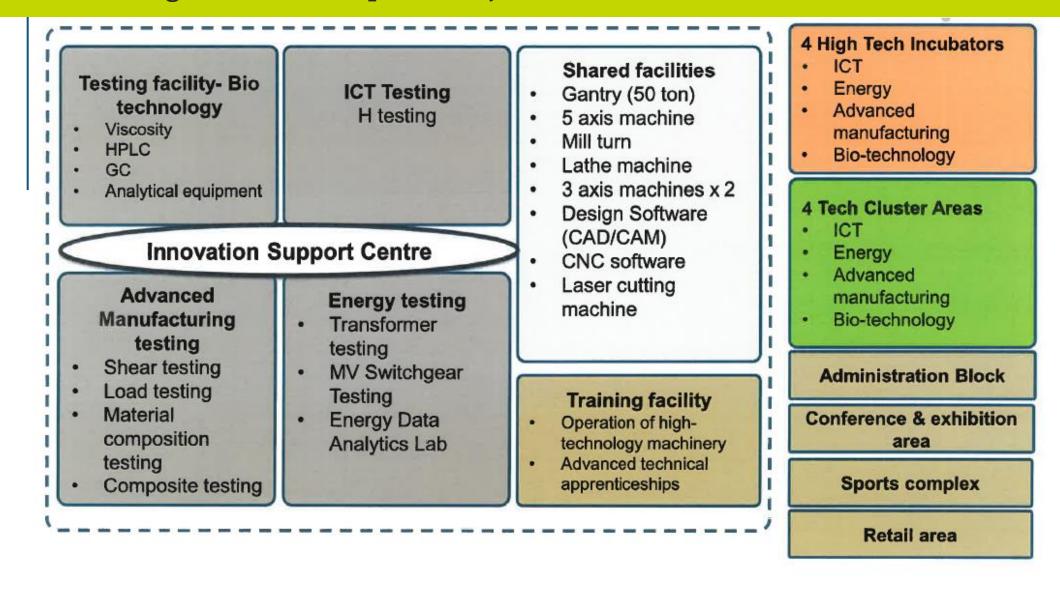
- Advanced Manufacturing.
- 2. Biotechnology, including pharmaceuticals.
- 3. Alternative Energy.
- 4. Information and Communication Technology.
- 5. Bio-based economic sub-sector (materials, compositions, chemicals, etc.)
- 6. Knowledge based industries and related sub-sectors.

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## Example: Technology Commercialization & Innovation Driven Advanced Manufacturing SEZ - Conceptual Layout



## Why should SEZs be the focus of Innovation and Technology Commercialization

- Increased investments: FDI & DDI
- Increased value-added exports
- Increased job creation
- Increased technology development and skills transfer
- Development of targeted industrial capabilities and investment attraction.
- Creation of new Industrial Clusters through value chain development.
- Development of world-class infrastructure (hard and soft) facilitative of investment and industrial localisation.
- Promote beneficiation and value addition of the country's resources.
- Contribute to the acceleration of economic growth and job creation.



Key Question: What role(s) can SEZs in Africa play to Commercialize Local Research, Science and Technology to improve the Export Competitiveness of the Continent.





## Panel Discussion

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