

AVI AFRIQUE 2017 |  
Africa Aviation Innovation Summit



# CSIR on Industrial Development

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## Outline

- CSIR focus on Industrial Development
- Concept of a development plan to support industrial development
- Conclusion

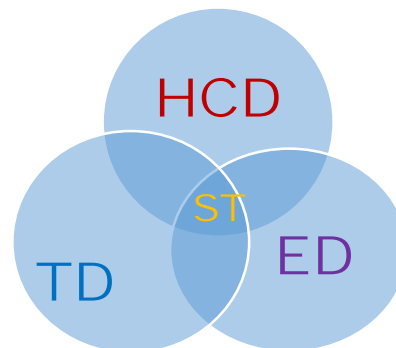
## CSIR focus on Industrial Development

- Since the new CEO of CSIR joined this year, it was clear that he wanted to focus on Industrial Development.
- Some of the actions achieved to date to deliberately contribute to Industrial Development include:
  - The creation of a new portfolio lead by a Group Executive to oversee Industrial Development efforts
  - A dedicated Industrial Development Programme that looks at relevant sectors in the CSIR capability space with the intention to partner.
  - Signed MoU with SOE and industrial partners: *CSIR and ATNS signed an MoU in May 2017, with 4 high impact projects commenced already under this MoU.*
- Successful hosting of the 6<sup>th</sup> CSIR Conference, themed “Ideas that work for Industrial Development” which included distinguished speakers notably The Minister of Trade and Industry Dr Rob Davies

## Development plan to support Industrial Development: Black Industrialisation

Industrial Development through SMME development to achieve Sustainable Transformation (**ST**) can be achieved through programmes focusing on:

- **Human Capital Development (HCD)** – Developing and Training young Black-Engineers to acquire sector (civil aviation, defence, energy) domain & application knowledge.
- **Technology Development (TD)** – Enhancing the sector Technology Base to develop products and services relevant to the civil aviation.
- **Enterprise Development (ED)** – Creating Black-Owned Enterprises, with sound Small Business Management skills in order to ensure sustainability of the Enterprises.



## Development plan to support Industrial Development: Outcomes

Outputs of such programmes should result in:

- Black-Owned SMMEs with core Technical Skills & Capability; sound Small Business Management Process & Policies; and adequate Small Business Management Skills.
- Prototypes (Technology Demonstrators with mature technology building blocks for future commercialization).
- Well trained Black Engineers and Technicians to support the NDP objectives

## Development plan to support Industrial Development: Implementation Approach

The programme Implementation Approach should focus on two tracks running in parallel:

- Technology Development Track
- Enterprise Development Track

### Technology Development Track

- Civil Aviation related capability & Capacity Development
- Technical Skills Development
- Knowledge Creation & Knowledge Transfer



### Enterprise Development Track

- Small business Management Process
- Small Business Management Skills

## Development plan to support Industrial Development: Incubation for knowledge Transfer

SMME engineers can be part of CSIR team

Located at CSIR – hands on HCD approach

Responsible for development along with CSIR engineers

Every engineer assigned a technical coach and a mentor (per assignment)

Selected training courses to improve skills

## Conclusion

With the signed MoU with ATNS, the two organisations will be making an immediate impact in:

- Cyber Security
- Radar community
- Practical and experimental training of young black engineers
- Possible incubation of SMMEs with direct contribution to the Civil Aviation Industry



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Thank you

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