New Innovation in Technical Skills Development- a SA Tooling Industry Case Study

7TH INTERNATIONAL BRICS FOUNDRY FORUM

Presented by Dirk van Dyk CEO – National Tooling Initiative Programme

14 MARCH 2017





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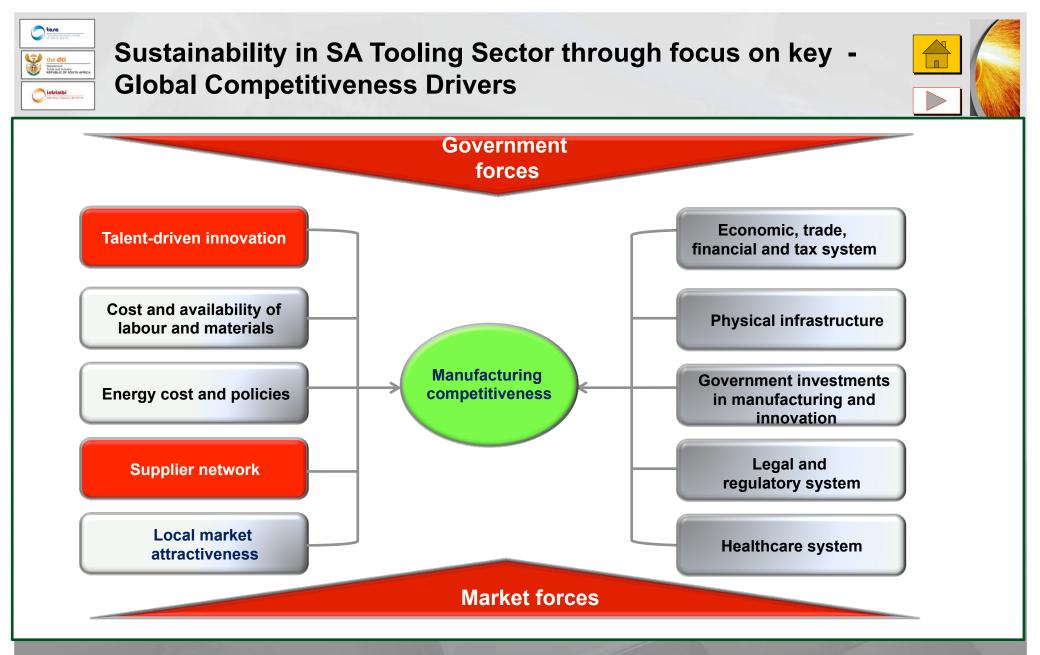




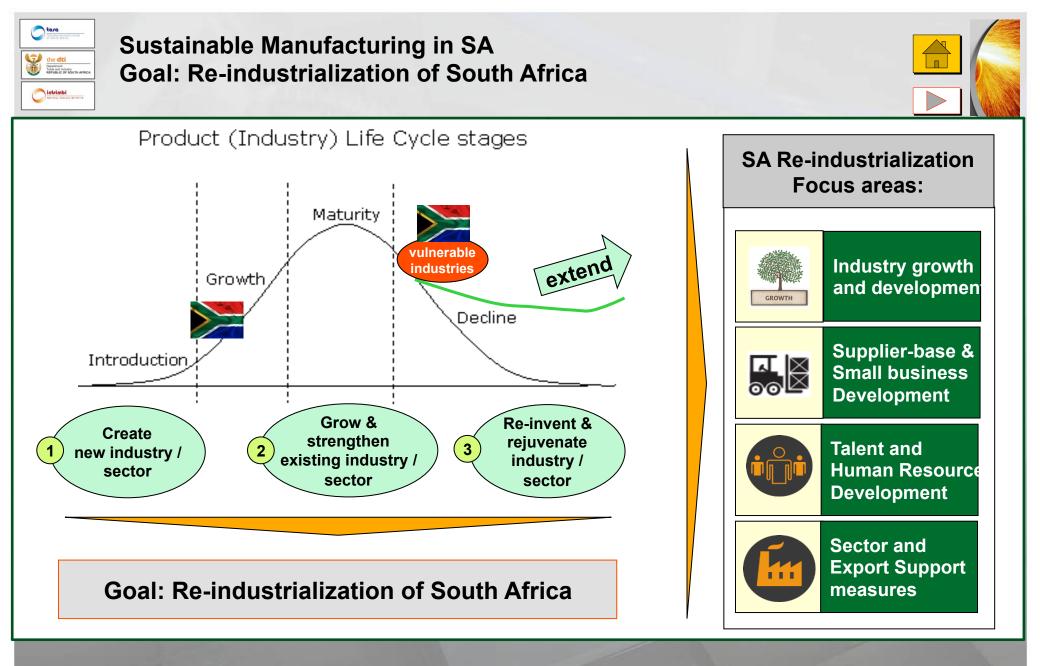


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| | Re-Industrialization and Global Competitiveness | HISTORY |
|------------|--|----------|
| | Skills- and Supplier Development in SA – Background and perspective | |
| CONTENT | Current and future TDM sector-Approach and Strategy | Strategy |
| Management | Multi stakeholders partnerships | |
| Summary | Operating Model and Life-cycle Value Chain | |



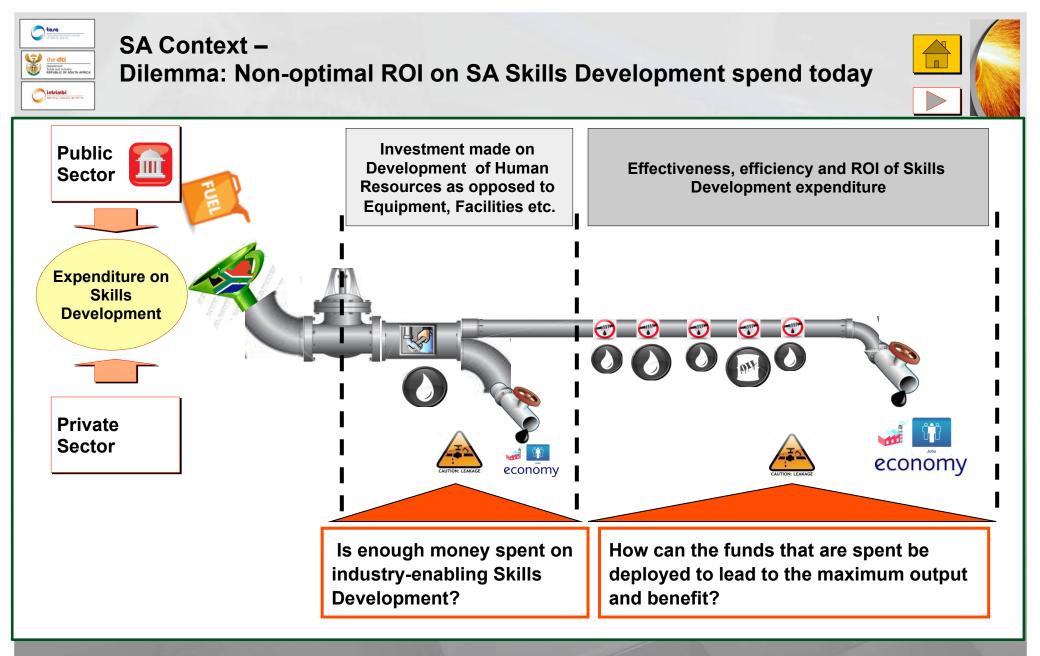
"Source- Deloitte Global Manufacturing Competitiveness Report"

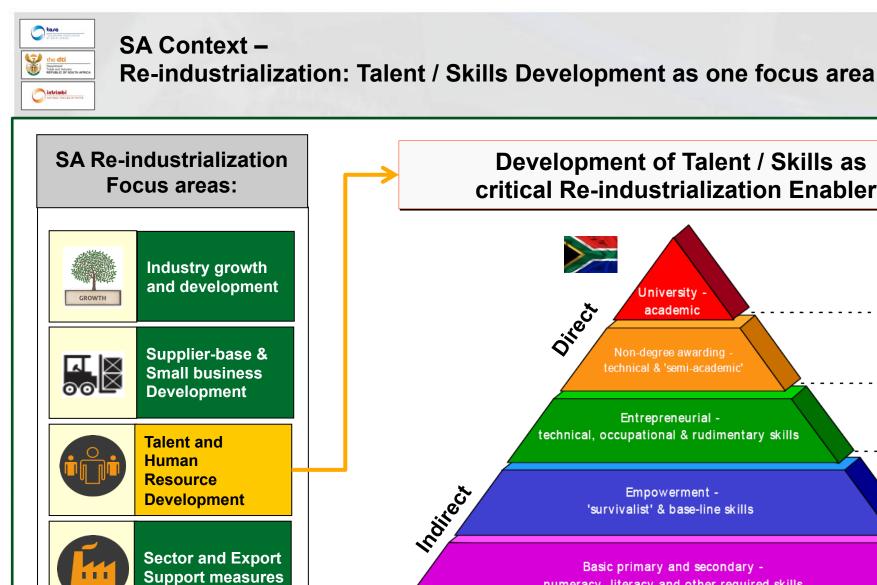


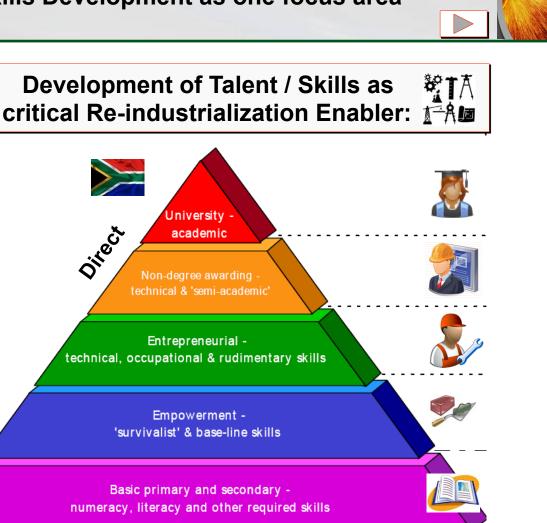


SA Context – TDM Sector's Goal: Support for Re-industrialization of SA





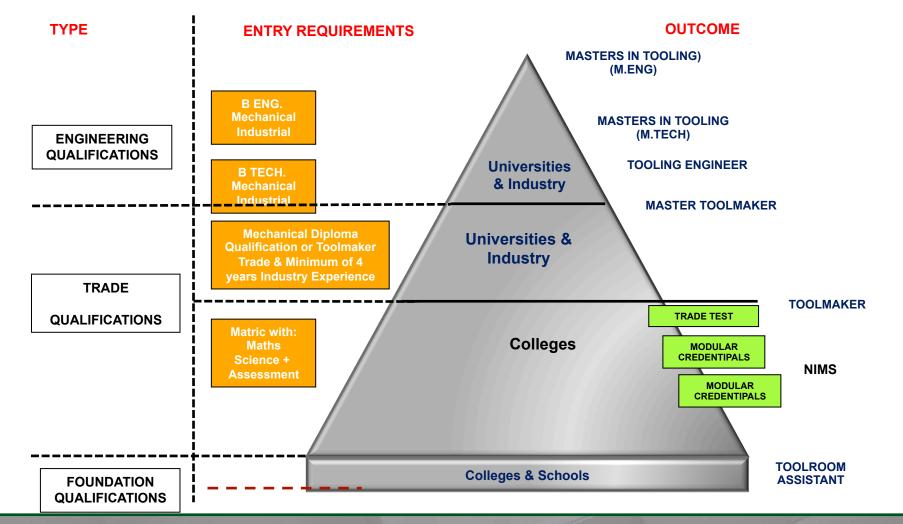


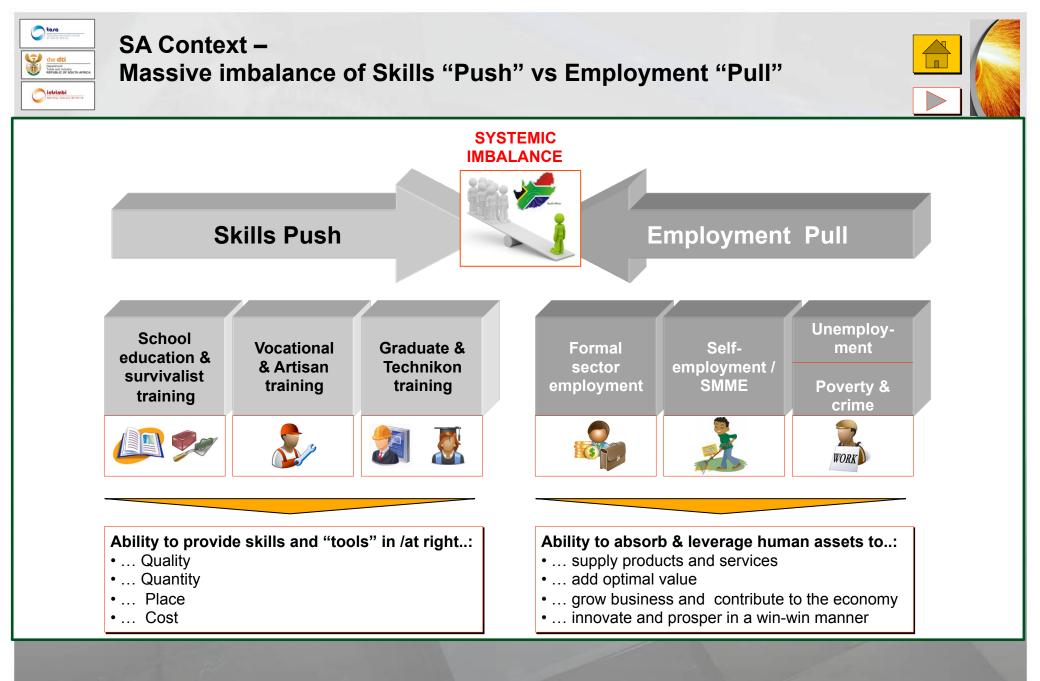




NTIP -TDM Powered Qualifications Structure

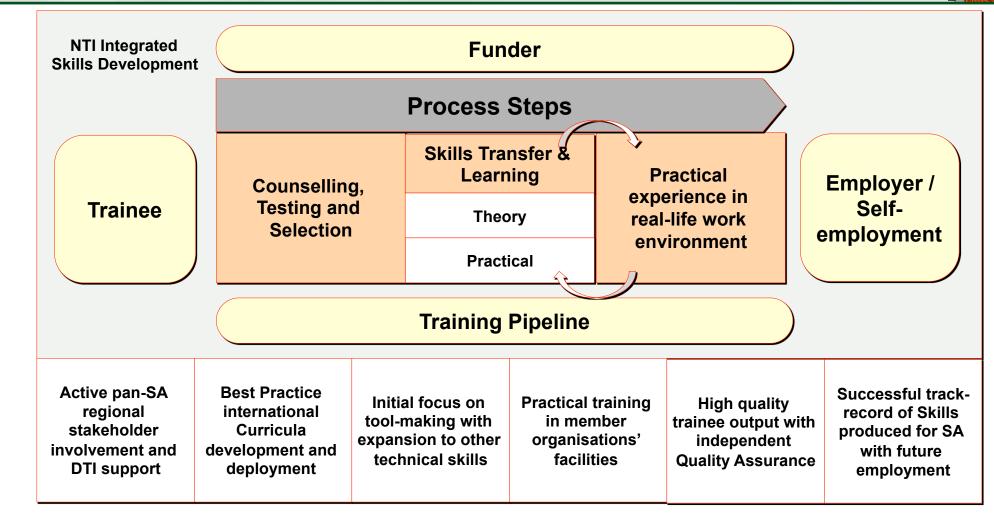








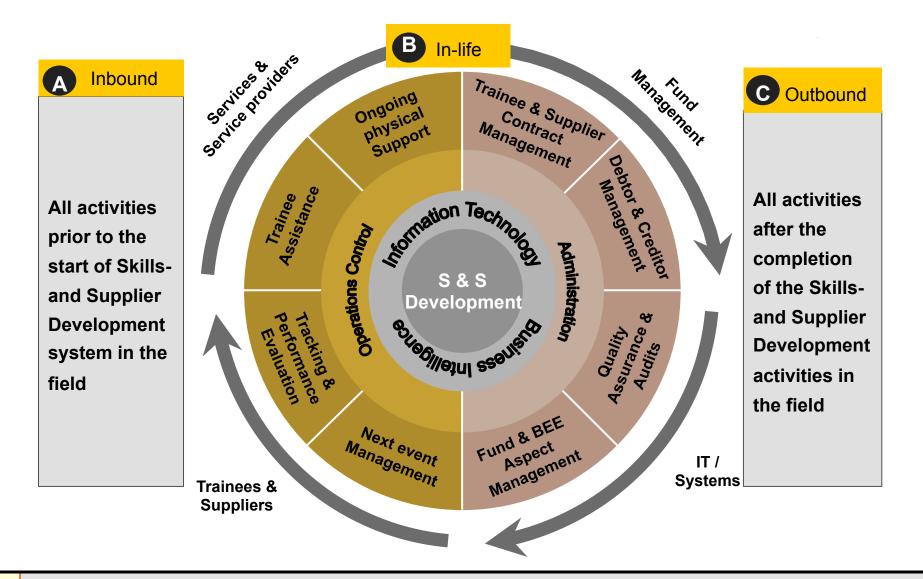
Tooling sector overview – Philosophy: Integrated & multi-stakeholder Skills Development





Tooling Sector Solution overview – Element 1: End-to-end Life-cycle perspective



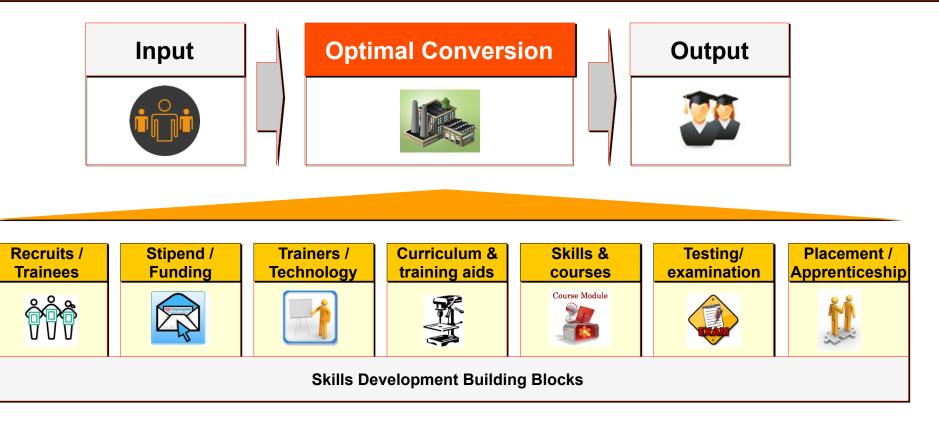




NTI Skills Development Solution – System perspective: Optimal "conversion " Value Chain of Skills



National Tooling Initiative Programme (NTIP) : Operating Principle of Skills Development System Engineering Approach



Training Centres of Excellence







Advanced Tooling Sector Practical Training







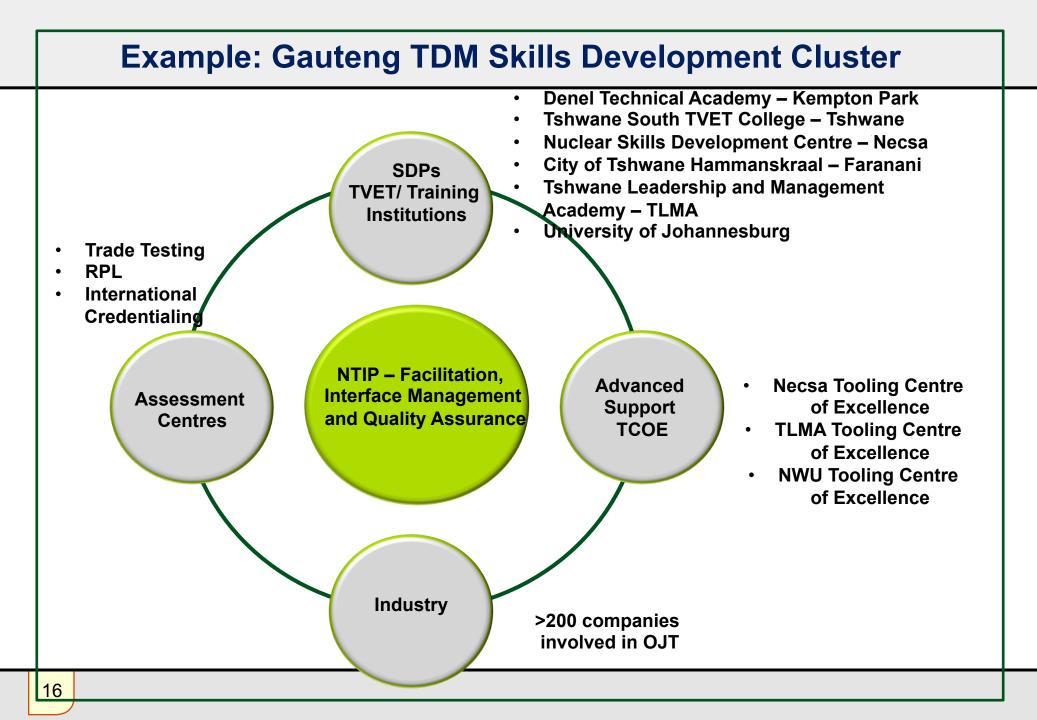


PARTNERSHIPS – SKILLS CLUSTERS

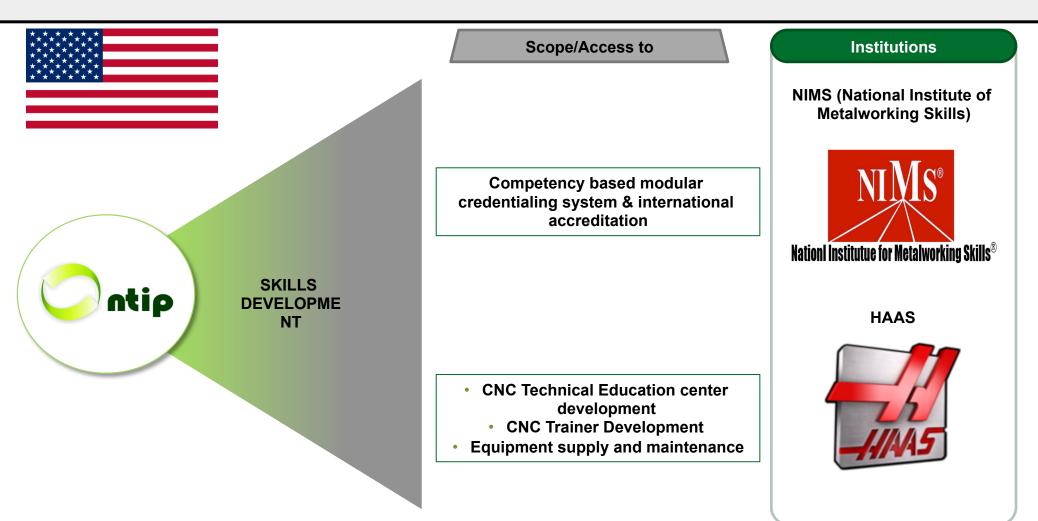
Formation of 6 Provincial Tooling Sector Skills Clusters:

- Gauteng
- Western Cape
- Kwazulu Natal
- Eastern Cape
- Mpumalanga
- Limpopo

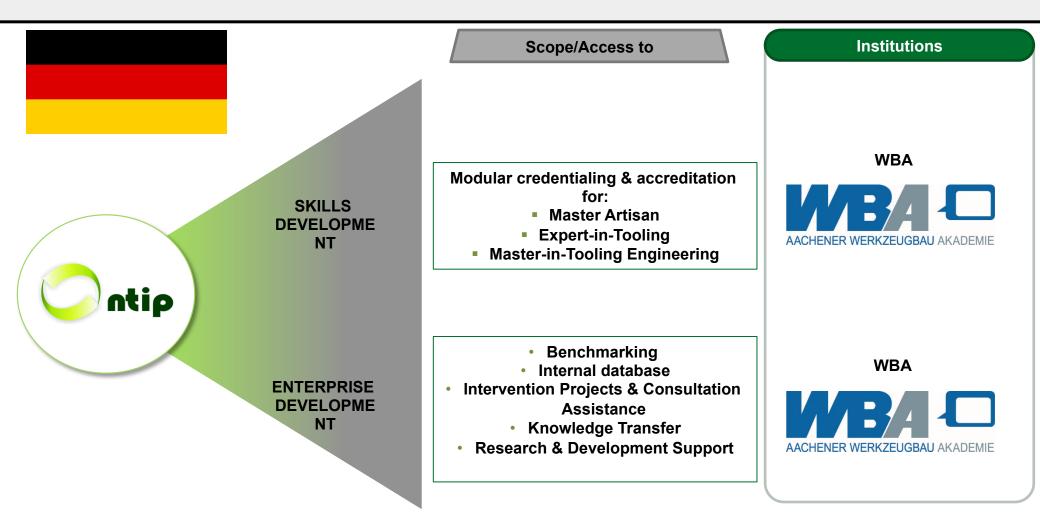
Comprising multiple Skills Development partnerships, cooperating to create capacity for Tooling sector skills development and migration of skilled workers into industry.



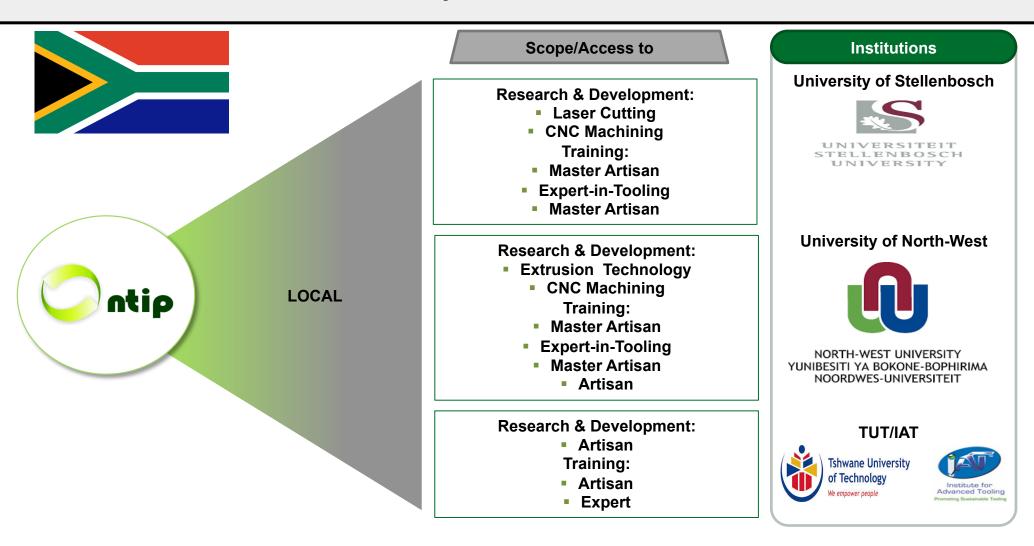
NTIP - USA Partnership



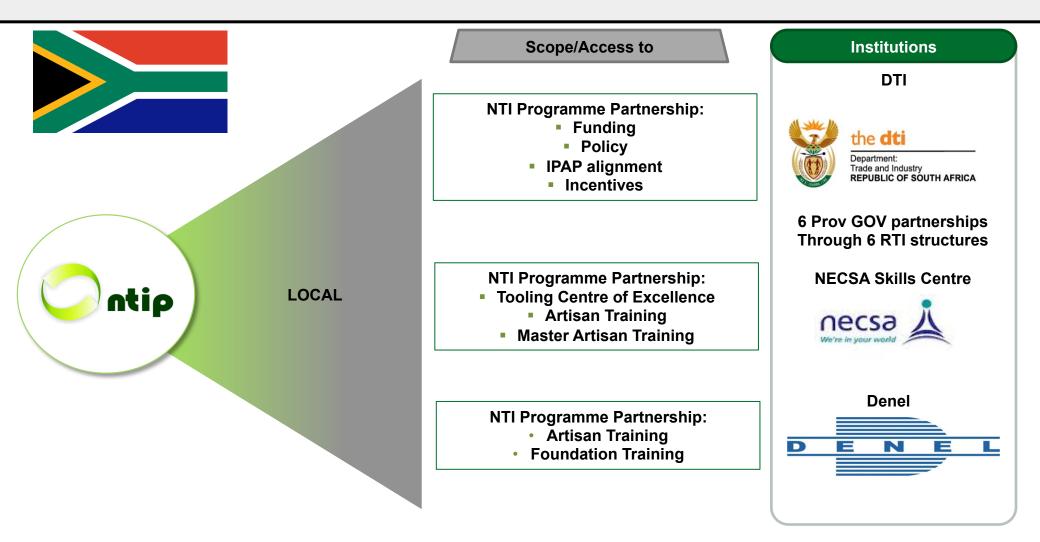
NTIP - Germany Partnership



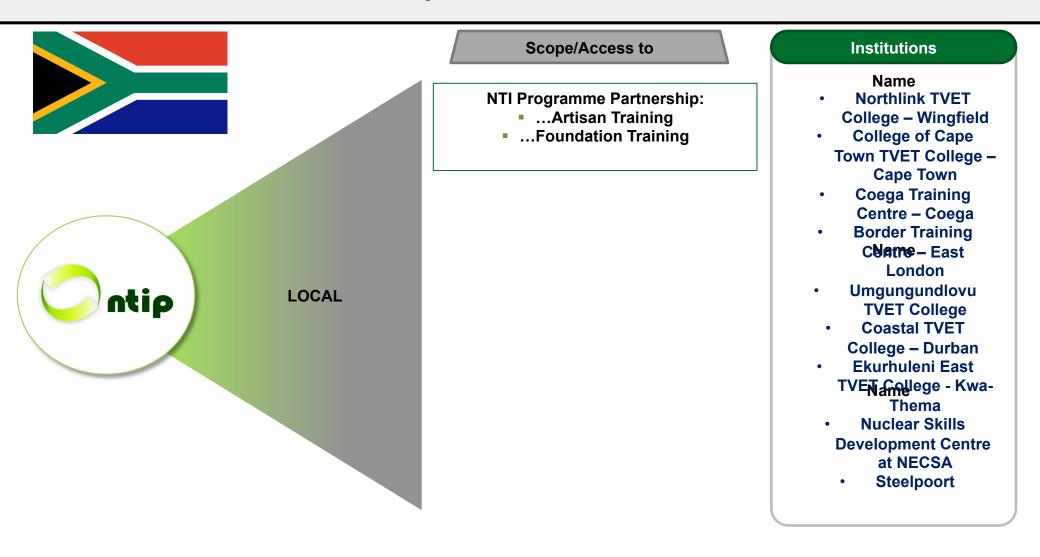
NTIP - South Africa Partnership



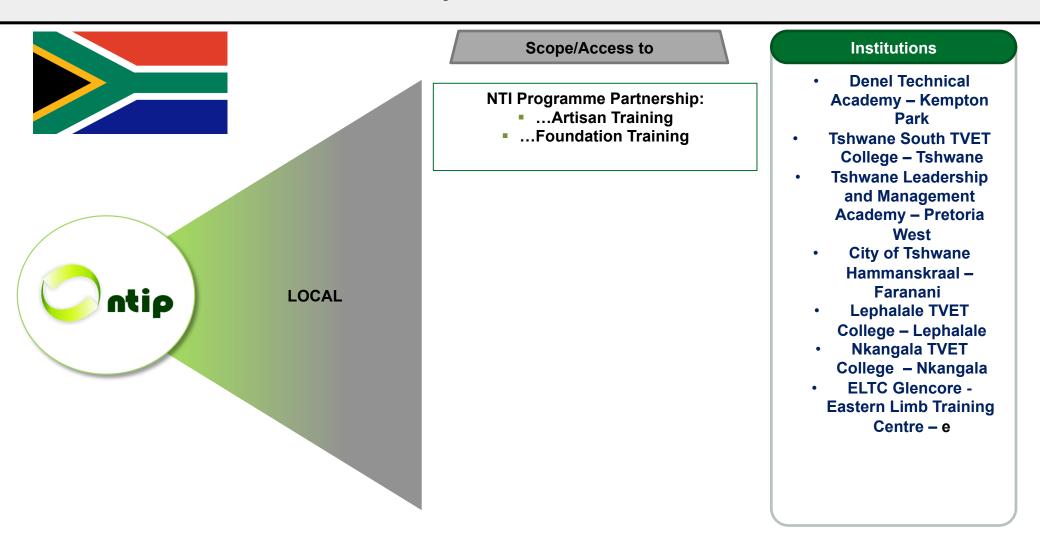
NTIP- South Africa Partnership continued...



NTI - South Africa Partnership continued...



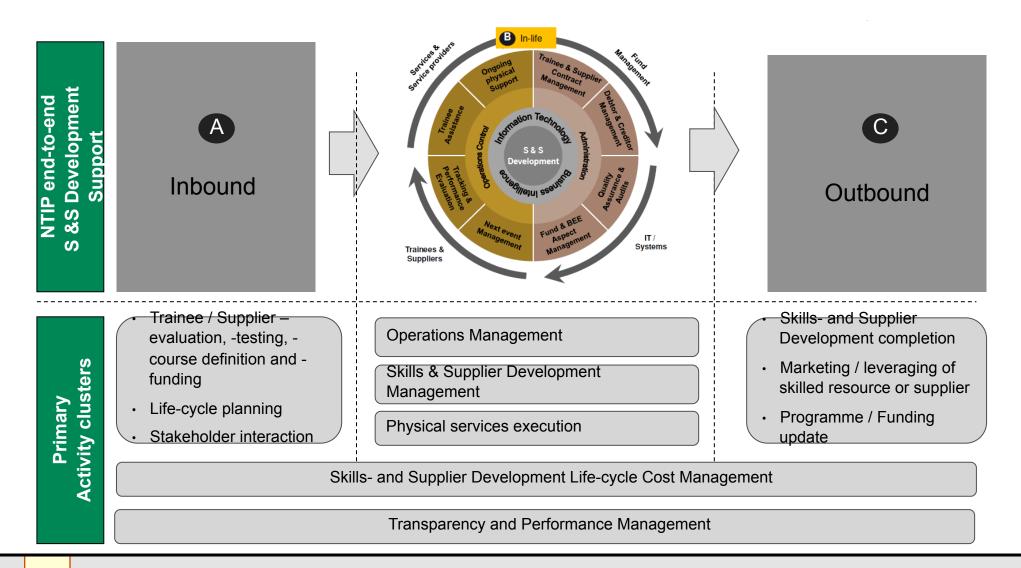
NTIP - South Africa Partnership continued...





NTIP Solution overview – Element 1: Execution of all process in Life-cycle







Creation of a National supply line of highly skilled workers from entry level factory workers, machine operators, machinists, programmers, toolmakers, master toolmakers, experts in tooling, tooling engineers and post graduate MSc and PHD tooling support engineers will ensure future SUSTAINABILITY of innovation and competitiveness improvement in the SA TDM sector, leading to a new generation of young entrepreneurs and business owners that will transform the SA Tooling and Manufacturing sectors to become a significant supplier into global supply chains.

WE THANK YOU FOR YOUR INTEREST IN OUR NATIONAL PROGRAMME