

AEROSPACE INDUSTRY SUPPORT INITIATIVE

AT A GLANCE

2015/16



Aerospace Industry Support Initiative

an initiative of the dti



AN INITIATIVE OF THE DEPARTMENT OF TRADE AND INDUSTRY, MANAGED AND HOSTED BY THE CSIR

AISI Vision

To position South African aerospace and defence related industry as a global leader, in niche areas, whilst ensuring effective interdepartmental participation and collaboration.

AISI Mission

To enhance the global competitiveness of the South African aerospace and defence industry by:

-  Developing relevant industry focused capabilities and facilitate associated transfer of technology to industry
-  Providing a platform for facilitating partnerships and collaboration amongst government, industry and academia, locally and internationally
-  Identifying, developing, supporting and promoting the interests and capabilities of the South African aerospace and defence industry
-  Accelerating the achievement of government strategic objectives including growth, employment and equity.

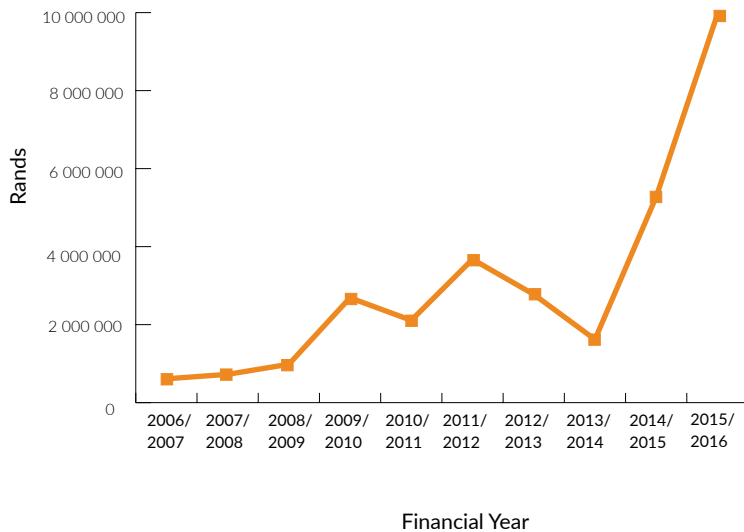
The Aerospace Industry Support Initiative (AISI) is an initiative of the South African Department of Trade and Industry (**the dti**), which has been managed and hosted by the Council for Scientific and Industrial Research (CSIR) for more than a decade.

During 2015/16

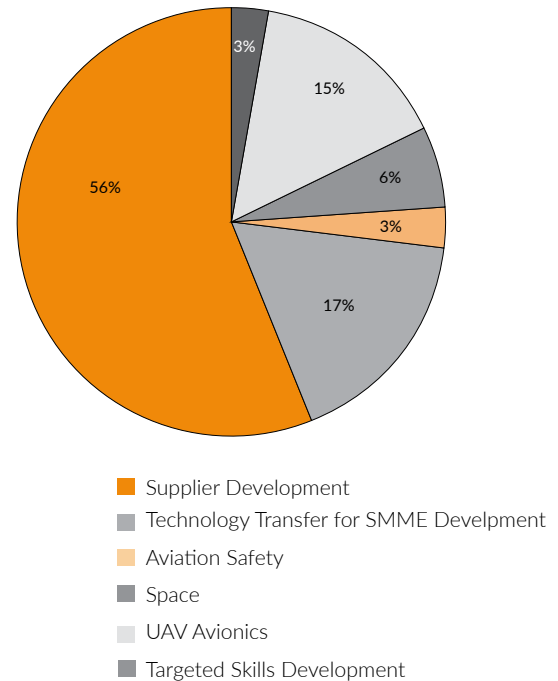
- 23 Projects
- 20 Organisations benefited from AISI's projects
- 14 Beneficiaries were SMMEs

A significant pillar of the AISI's strategy is its **Supplier Development Programme** that includes technology and skills transfer, as well as supplier development enablers. The AISI has increased its support for SMMEs through its supplier development programme. This has grown consistently since the inception of the AISI to a point where 50% of the total AISI project budget is committed to supplier development.

AISI Increase in Supplier Development Support



AISI Focus Areas and Financial Breakdown



AISI-supported projects and their contribution to the aerospace and advanced manufacturing industries.

🔧 Hyperspectral Focal Plane and Mass Storage for a Space Imager

🔧 NanoSat Imager Development

🔧 Stellar Gyro Development

🔧 Small Gas Turbine Technology Improvements

🔧 UAV Short Range Datalink

🔧 Industrialisation of a Small Low Cost TEA CO₂ Laser

🔧 Feasibility of Natural Fibres in Aerospace Structures

🔧 Process Design of Titanium Fluidcell Forming

🔧 UHCF Design and Testing of High Strength Aerospace Materials

🔧 Process Design of CFRTP Joining Methods

🔧 SKA PC Board Localisation

🔧 Portable UAV Ground Station

🔧 UAS Antenna Solutions for Extended Communications Ranges



- ✦ IFF Integrator Power Amplifier/Transmitter
- ✦ Design and Manufacturing of Aerospace Fuel Tank Structures
- ✦ Process Design and Validation of CFRTP Overlap Joining Methods
- ✦ Localisation and Industrialisation of Insulation Blankets



✦ Project Internships

✦ Industrialisation of a Joint CAD/CSIR Helicopter Simulator

- ✦ Capacity Building in Air, Space and Telecommunications Law
- ✦ Capacity Building in Space Law - Moot Court

- ✦ Supply Chain Improvement and Optimisation Interventions
- ✦ Supplier Development Enabler for SMMEs

- ✦ Supplier Development
- ✦ Technology Transfer for SMME Development
- ✦ Aviation Safety
- ✦ Space
- ✦ UAV Avionics
- ✦ Targeted Skills Development



The collaboration between the local aerospace industry and the AISI is a key element in improving competitiveness and establishing a global footprint in the advanced manufacturing environment.



The aerospace industry is urged to collaborate with the AISI to create successful partnerships that position the industry at an international level.



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the dti

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