

A satellite-style image of the African continent, showing the Sahara Desert in the north and the Congo Basin in the south. The text is overlaid on the image.

6th CSIR Conference

The importance of international cooperation

DEFENCE AND SPACE

Dr. Jean-Marc NASR – Senior Vice President Middle East and Africa

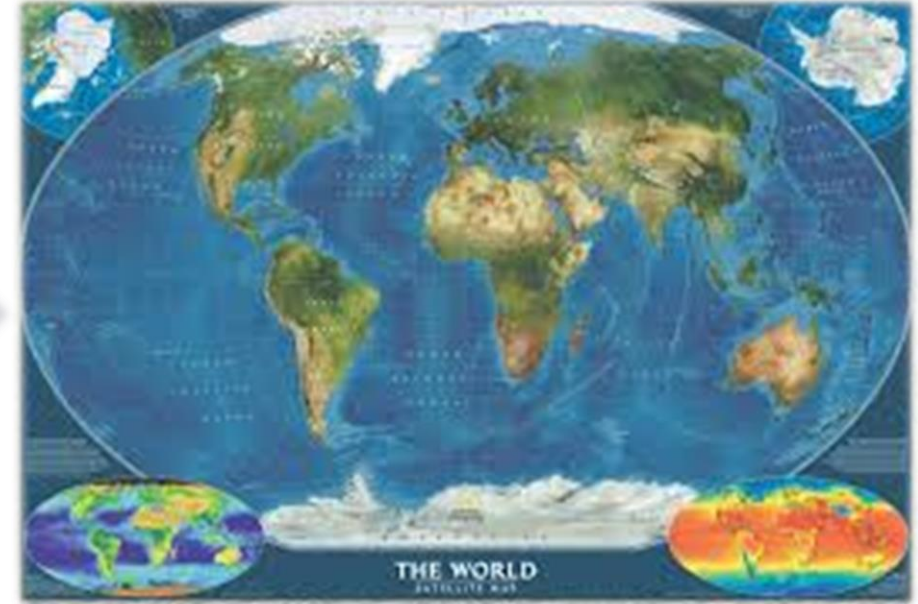
06 October, 2017 – Pretoria

AIRBUS

Why international cooperation



Center of gravity
has changed



Limited R&D budgets

Marginal growth

Global supply sourcing

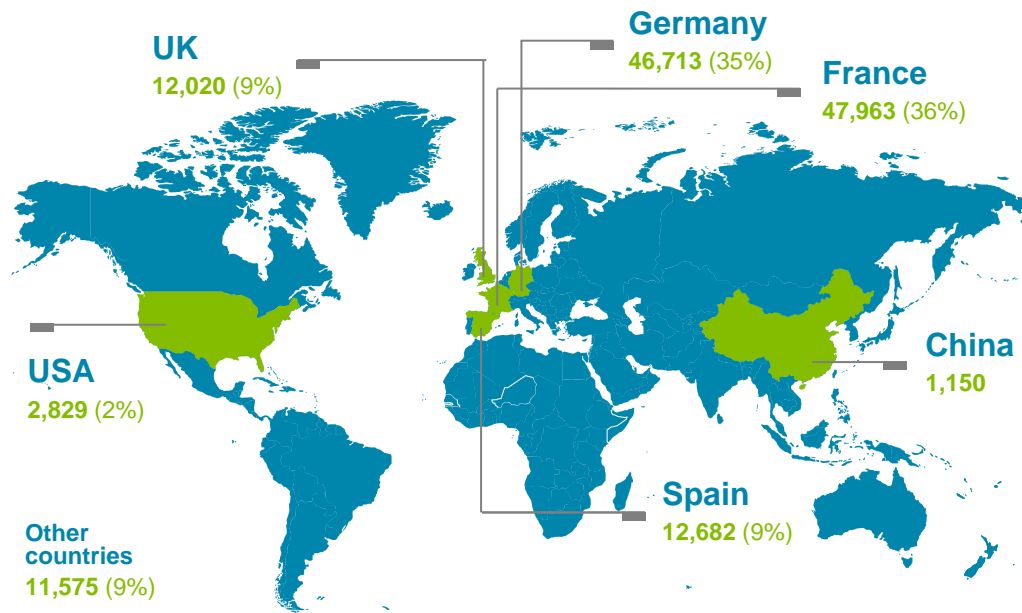
Local Servicing
of products

Intra-African
market

Increased R&T
with international
institutes & academia

INCREASED GLOBALIZATION of INDUSTRIALIZATION

Airbus Global Footprint



134,000 employees
from **136** nationalities

Located across **35** countries
on more than **180** sites

International Sales
31% Europe
69% Non-Europe

Non-European Workforce
20% (in 2020)

PHILOSOPHY OF INTERNATIONALIZATION

Airbus Footprint in Africa



Agenda

- Reasoning for international cooperation
- What we do in South Africa
- What we plan on doing in South Africa
- The Environment required
- Conclusion

What we do in South Africa

Transfer of Technology
and Know-how

Support in
international bidding

Certification as
repair center



Cooperative programs
with academia

Fluid sloshing dynamics
- UCT

Space Engineering –
CPUT/F'SATIE

Innovation challenge -
SANSA

AIRBUS BizLab -
#africa4future

SUSTAINED, STRATEGIC MULTI-DIMENSIONAL COOPERATION

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CSIR

Potential cooperative Links

DPSS

Meraka Institute

Materials Science & Mfct.

Built Environments

- ✓ Cyber Security
- ✓ Multi-Intelligence Technology Integration Centre
- ✓ Border Safeguarding
- ✓ Space optical and radar systems
- ✓ 3D Printing
- ✓ Aeronautic R&T
- ✓ Space communication systems

- ✓ SAR imagery for SMM
- ✓ Optical imagery
- ✓ Maritime security

- ✓ Titanium powder
- ✓ 3D printing

- ✓ Elevation models
- ✓ Urban dynamics and change
- ✓ Land administration



Airbus Defence & Space



Airbus



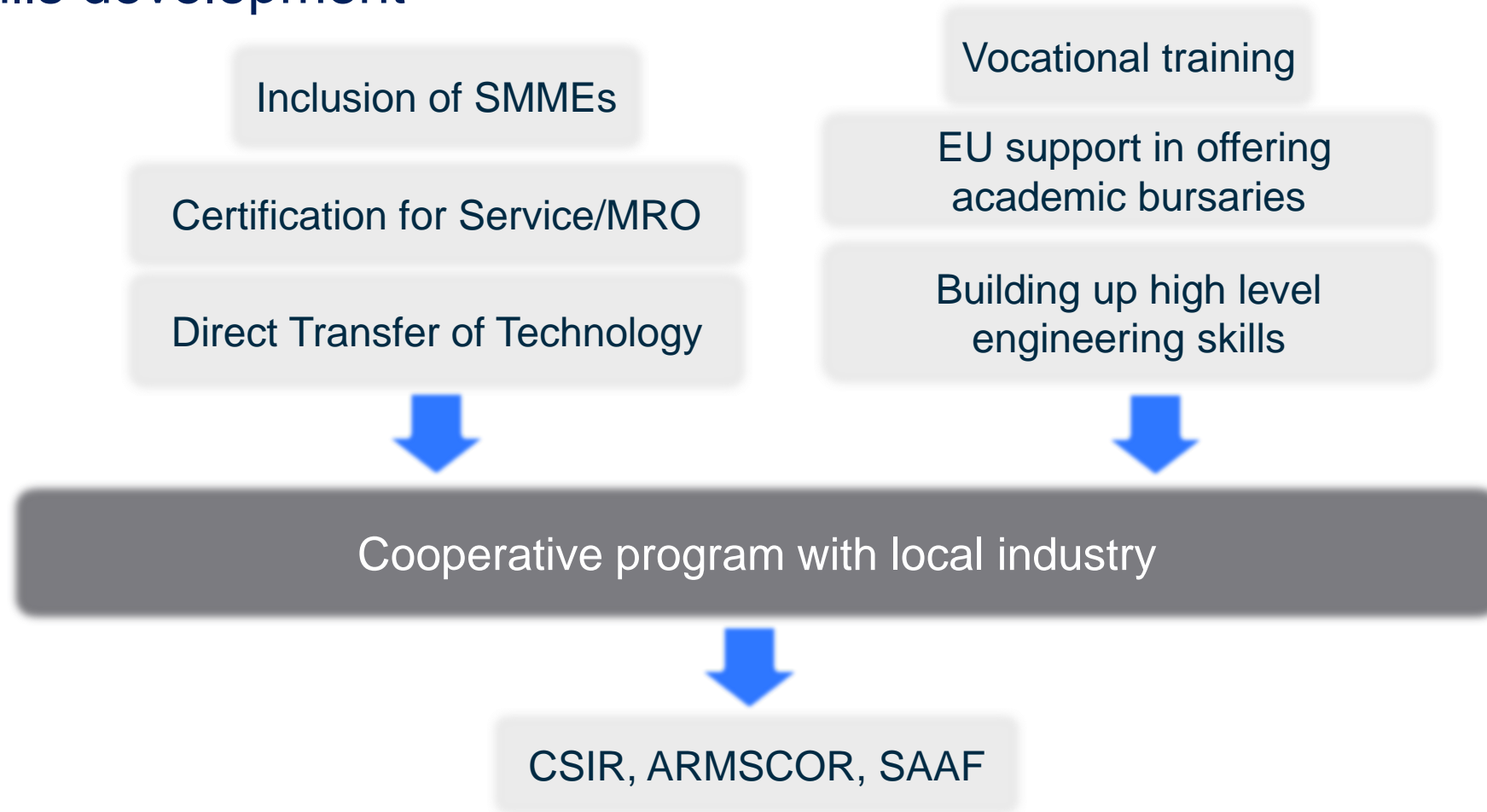
Airbus Helicopters



- ✓ Ongoing
- ✓ Potential

COOPERATION for STIMULATION & SUPPORT of INDUSTRIALIZATION

Human Skills development



SUSTAINED DEVELOPMENT of HORIZONTAL and VERTICAL SKILL-SETS

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The Environment

Financial institutions **Flanking Policies**
Dedicated Academia **Capable Industry**

Best training & education exists in SA

Four key pillars for sustained industrialization exist



BUT

ABSENCE of PROJECTS WILL LEAD to IRREVERSIBLE LOSS of HUMAN SKILLS

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Conclusion

- A healthy defence & aerospace sector contributes to the GDP through high-tech jobs and export
- South Africa has all prerequisites to remain a top player in defence & aerospace
- CSIR in particular plays pivotal role in defining & developing first class technologies

Trusting that funding will increase again we recommend to:

- Focus on niche & key technologies and the industrialization thereof, including export
- Further develop coordination & cooperation between CSIR and industry to foster commercialization of technologies

INTERNATIONAL COOPERATION is IMPERATIVE

Thank you