

6TH CSIR CONFERENCE

Accessing Global Aerospace Supply Chains from South Africa

Jay Isaac Saab Grintek Defence



SAAB GRINTEK DEFENCE: A PLACE IN OUR **HISTORY**



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AN OVERVIEW OF SAAB GRINTEK DEFENCE



SGD INFRASTRUCTURE

Employees: 770 ٠ **South Africa Facilities:** ۲ Centurion Pretoria ΕW _ Centurion LSI ____ ISS C2TS ____ D&D _ Supply Chain & Production _ Cape Town Naval EW ____ SSC Naval ____ Production

Cape Town_

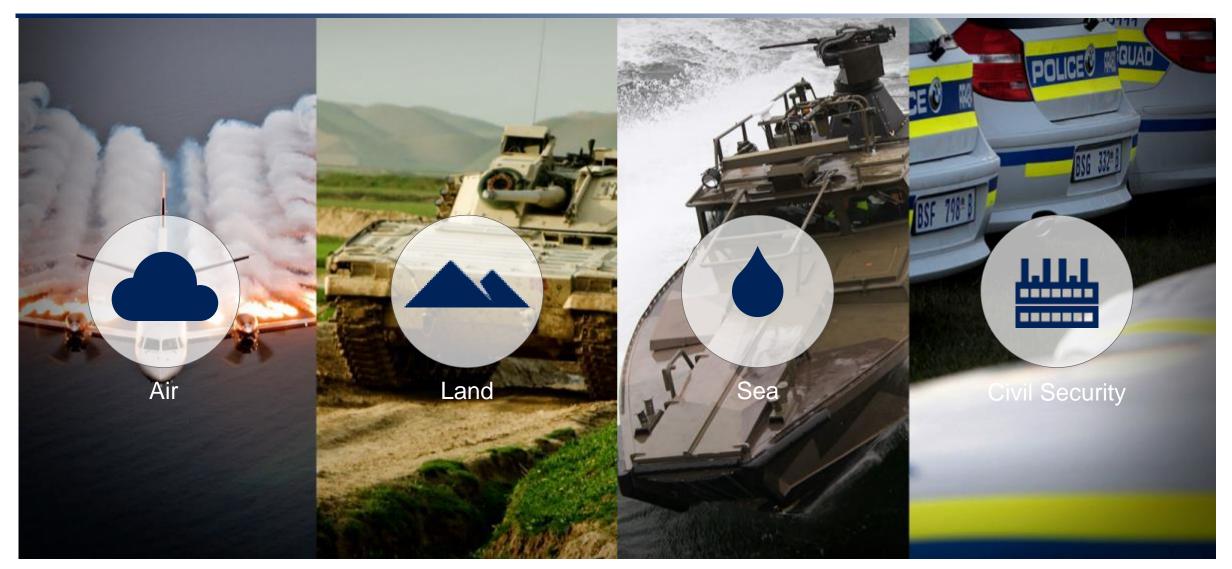
SAAB GRINTEK DEFENCE

- Products distributed to 30 countries
- Export represents about 80% of the company's total turnover
- Local team researching, developing, producing, exporting, maintaining and upgrading world-standard products and technologies
- The first to offer a fully integrated self-protection suite
- We export to developed and developing countries flexible to fit all environments
- Won best SA export company 2013, 2014 and 2016
- Level 2 BBBEE Contributor, 25% Black ownership



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WE SUPPLY AND SUPPORT ALL DOMAINS



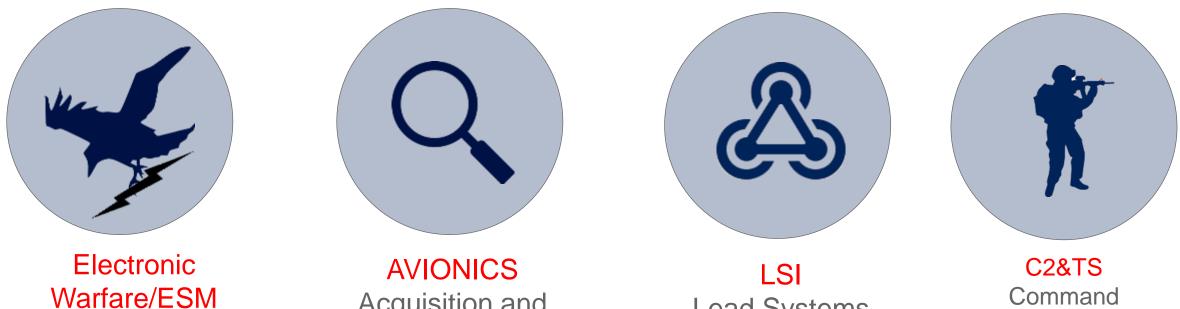
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and Control,

Training and

Simulation

PRODUCT AREAS WITHIN SGD

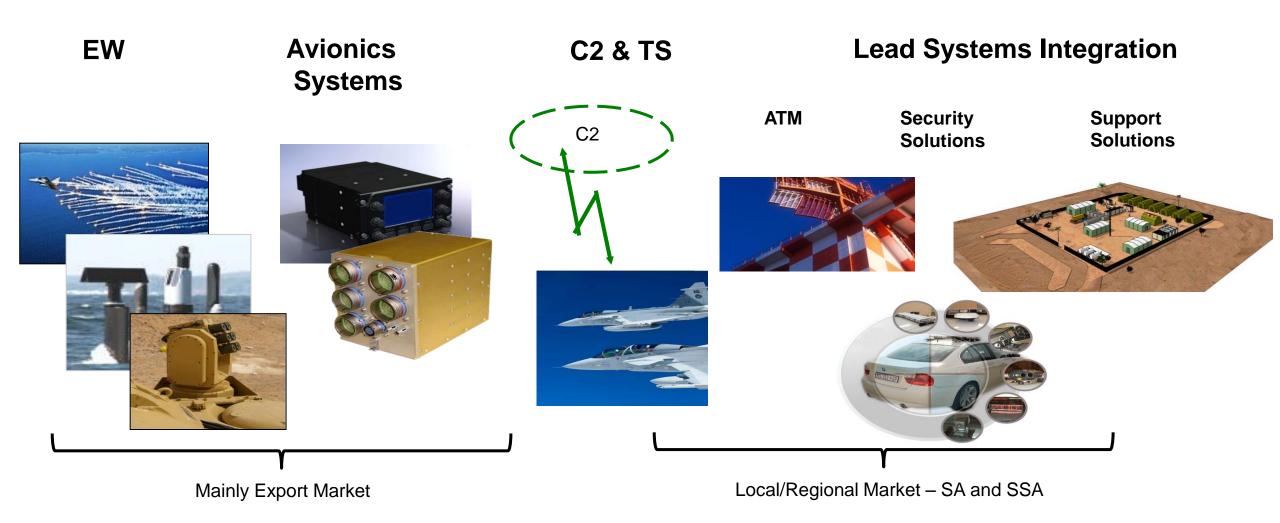


- Air
- Land
- Naval

AVIONICS Acquisition and Communications Systems

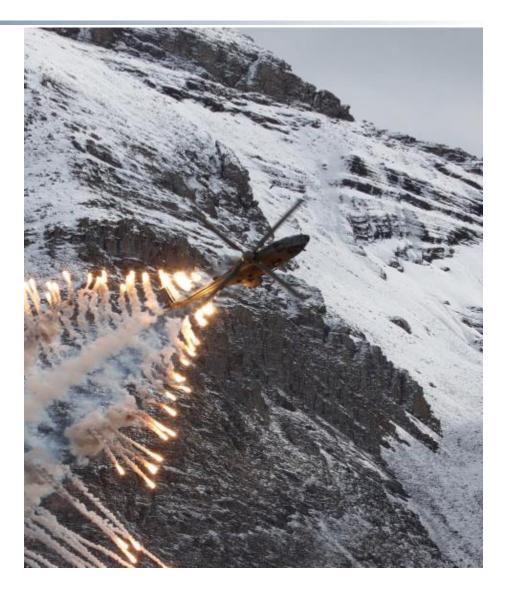
LSI Lead Systems Integration

SAAB GRINTEK DEFENCE SUPPLIER OF WORLD LEADING PRODUCTS AND SERVICES



ELECTRONIC WARFARE

- Saab and SGD have a long history in Electronic Warfare
- SGD specializes in self-protection and ESM/ELINT systems
- Self-protection products
 - Integrated Defensive Aids Suite (IDAS)
 - Civilian Aircraft Missile Protection System (CAMPS)
 - Land Electronic Defensive System (LEDS)
 - Naval Laser Warner (NLW)
- ESM/ELINT products
 - U/SME (submarine and surface ships)
 - Electronic Surveillance Payload (ESP)
- Centre of Excellence for the Design and Manufacture of Antennas, RF and Microwave components for Saab worldwide
- All products are developed and produced in South Africa



AVIONICS - ACQUISITION AND COMMUNICATION SYSTEMS

- Solutions
 - Communication management systems configurable via software and modular hardware (Civil certified)
 - Mission recorder, data transfer and mass storage products supported by ground evaluation systems
 - Data concentrators, monitoring modules and data acquisition units with capability of implementing health and usage algorithms in ground support software
- Products are developed and produced in South Africa
- Deployed on fixed and rotary-wing platforms worldwide
 - Installed base
 - CMS ~ 100 platforms
 - Recorders ~400
 - Monitoring ~600



SGD LEAD SYSTEMS INTEGRATION

- Integrated Logistic Support / System Engineering Support
- Field Facilities
- Maintenance Repair and Overhaul (MRO)
- Vehicle Electronics Including Vehicle Modification/Integration FCC - Fire Control Computer)
- Air Traffic Management (ATM), Maritime Traffic Management (MTM), Command, Navigation, Surveillance(CNS)
- Civil Security Communications and System Solutions
- Chemical, Biological, Radiological and Nuclear (CBRN)
- Signature Management



COMMAND & CONTROL (C2) AND TRAINING SYSTEMS

- Surveillance Command and Air Defence
 - Air Picture Display System
 - Ground Command and Control System
 - Intelligent Database Support System
 - Web Based Monitoring Control and Systems for Airports
- Designed to Fit Command and Control Solutions for Landward, Naval, Joint and Security Sectors
 - Situational Awareness
 - Planning & Orders Management
 - Mission Execution Support
 - Integrated GIS
- Design to Fit Simulation Solutions for all Training Requirements
 - Expertise and Field Support for Live, Virtual and Constructive Simulation
 - World Class affordable Constructive Simulation







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THE SAAB GRINTEK DEFENCE EXPORT STORY

Saab Grintek Defence has won the DTI Exporter of the Year award in 2013/2014/2016

How did they do it?

"By supplying Innovative and costeffective products and services into the global market"



HOW DOES SGD INNOVATE?

- Invest 10% of revenues into self-funded R&D
- Further supplemented by customer funded development
- SGD's Intrepid Programme
 - In-house Innovation Programme that encourages engineers to propose ideas for Innovative Products
 - Awards engineers "free-time" to develop and test their ideas/concepts until they can be formally handed over to R&D for further development



HOW DOES SGD INNOVATE? (CONT)

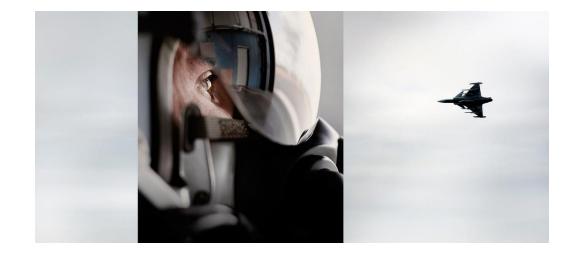
- Make use of the DTI tax rebate programme for R&D
 - can claim 1.5x cost of R&D as a cost
 - 50% tax savings on R&D cost
- Make use of the DTI Manufacturing Competitiveness Enhancement Programme (MCEP)
 - Non-taxable grant calculated as a percentage of Manufacturing Value Add (MVA)
 - Sliding scale of 10%-25% of MVA

HOW DO WE LEVERAGE OUR SUPPLY CHAIN INTO GLOBAL MARKETS?

- Channels B2B (OEMs) and B2G (Defence Acquisition)
- Strong Alliances with OEM (platform) suppliers and System Integrators
- Strong relationships with OEM's and end-customers (ask for our product)
- Use of our Global brand (Saab) to form Strategic alliances with global players (e.g. HAL, BAe, Leonardo...)
- Product focus rather than project focus
- Quality products on time and at the right price
- Comply with in-country Offset requirements

SGD'S COMPETITIVE ADVANTAGE

- High performance products at competitive prices
- Quality, efficiency and continuous improvement programmes
- Highly skilled work force
- Large installed base with multiple generations of fielded systems



SGD'S COMPETITIVE ADVANTAGE

- Meet Global Quality Standards
 - ISO9001
 - Part 145 Approved Maintenance Organization by the European Aviation Safety Agency (EASA)
 - Quality Management System, easily integrated into customer organization
- Integrated Supply Chain
 - Qualified and approved supplier base
 - >30% outsourcing to BBBEE SMME's
 - ESD Programme (15 suppliers in on-site incubator programme)
- Leverage weak currency (ZAR)

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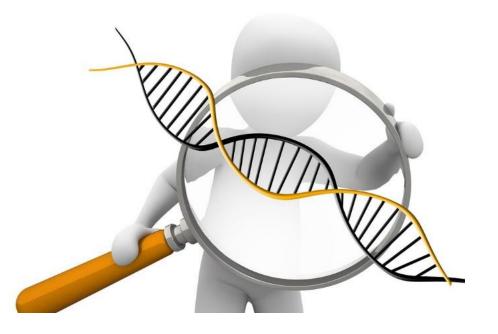
CUSTOMER FOCUSSED ORGANISATION

- World class products in niche areas
- On time delivery at the correct quality standards
- Continuous improvement programmes to improve quality and organisational efficiency
- Global Marketing and Sales and Business
 Development Organisation
- Establish Reference Platforms and Build Track Record
- Meet Offset Requirements specific to country
 - Maintenance and Production Transfer of Technology whilst safeguarding Intellectual Property
 - Other non-project specific Offset



CHALLENGES

- Export control turn-around time
- Insufficient incentives for exporters
- Ownership Issue in BBBEE Scorecard
 - MNC's are reluctant to relinquish majority shareholding
 - board veto rights
 - loss of control over IP
- Need to improve co-operation with government, private sector and institutions (triple helix)
- NIP and DIP
 - Qualifying Projects and Beneficiaries



OPPORTUNITIES

- Partnerships between Industry, Institutions and Governments to Industrialize Intellectual Property and create marketable products
- G2G business facilitated by SA Government
 Departments
- South Africa is non-aligned ability to export where other countries may not be able to
- Target largely untapped markets in Africa, South America, India, Middle East



CONCLUSION

- Opportunities exist for South African companies beyond local markets
- Innovation is a key factor for success
- Products and/or services must meet global quality standards and be the best in class
- Customer relationships must be created and maintained
- SMME's must create value-adding partnerships to launch their products and services into the global market

