Defence Science & Technology Organisation
– since 1907
Current R&D Cooperation Models

- **The Technical Cooperation Program (TTCP)**
- **Exchange of Scientists and Engineers (SEEP/ESEP)**
  - Cooperation on Maritime RDT&E and Prototyping
  - Australia & US Mutual Weapons Development
  - Forces Capability Modernization
  - Air & Space Capability
  - Australia - US Cooperative & Collaborative RDT&E
  - Test and Evaluation Program Cooperation
  - Exchange of Administrative and Professional Personnel
  - Ballistic Missile Defence
  - Navstar Global Positioning System
  - Special Forces Equipment Capability
  - Combating Terrorism Research and Development
  - Future Design, DT&E of Soldier Combat System
Current Technology R&D Cooperation

- Acquisition Programs
- Advanced Radars and EW
- Coalition Warfare Program
- Autonomy
- Cyber Security
- Advanced Materials
- Integrated ISR
- Hypersonics
- Chemical and Biological Defence
- Submarine Hydrodynamics
Australia into the 21st Century

- ANZUS Alliance
- ‘Australia in the Asian Century’ White Paper 2012
- Australia committed to “A stable, secure & prosperous Asia-Pacific”
- Cooperative regional security arrangements
- Defence Policy essentially apolitical
- Defence 1.6% of GDP today. Tomorrow?
- New Defence White Paper 2015
Australian Strategic Drivers for R&D Cooperation

- Interoperability with United States & Coalition forces
- Pace of technology innovation
- Unaffordable cost of military systems
  - The 5th commons – Cyberspace
  - State vs. non-state conflict – counter-terrorism
  - Energy, food & water security, climate change
  - US rebalance to Indo-Pacific
  - Zero community tolerance for collateral casualties
  - Australian territorial waters and maritime approaches are vast
  - The Asian Century…
  - ADF requires interoperability, situation awareness, affordability

- We are too slow, too expensive, too inflexible
The Future for R&D Cooperation

- Mutual Reliance & Burden Sharing
  - Increase and deepen cooperation
  - Streamline cooperation frameworks – ITAR, MOUs…
  - Build trusted, fluid, international partnerships - Industry, Government, Academia
  - Open ‘marketplace’ between like-minded nations

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