

DST LEADERSHIP TEAM



CHIEF DEFENCE SCIENTIST

Prof Tanya Monro

RESEARCH DIVISIONS



CHIEF MARITIME

Dr David Kershaw



CHIEF LAND

Dr Peter Shoubridge



ACTING CHIEF AEROSPACE

Dr Katerina Agostino



CHIEF JOINT AND OPERATIONS ANALYSIS

Dr Lynn Booth



CHIEF CYBER AND ELECTRONIC WARFARE

Dr Dale Lambert



CHIEF WEAPONS AND COMBAT SYSTEMS

Dr John Riley



CHIEF INTELLIGENCE, SURVEILLANCE AND SPACE

Mr Andrew Seedhouse

CORPORATE DIVISIONS



ACTING CHIEF SCIENCE STRATEGY AND PROGRAM

Dr Stuart Cannon



ACTING CHIEF SCIENCE AND TECHNOLOGY PROGRAM

Dr Mike Davies



CHIEF TECHNOLOGY OFFICER NATIONAL SECURITY

Dr Richard Davis



CHIEF SCIENCE PARTNERSHIPS AND ENGAGEMENT

Dr Ian Dagley



CHIEF RESEARCH SERVICES

Mr Peter Lambert

DOING BUSINESS WITH DST

CHIEF DEFENCE SCIENTIST (CDS)

P: +61 2 6128 6301 E: CDS@dst.defence.gov.au

CHIEF SCIENCE STRATEGY AND PROGRAM DIVISION

P: +61 3 9626 7400 E: CSSPD@dst.defence.gov.au

CHIEF SCIENCE PARTNERSHIPS AND ENGAGEMENT DIVISION

P: +61 3 9626 8400 E: CSPED@dst.defence.gov.au

CHIEF RESEARCH SERVICES DIVISION

P: +61 2 6128 6350 E: CRSD@dst.defence.gov.au

CHIEF MARITIME DIVISION

P: +61 8 7389 7619 E: CMD@dst.defence.gov.au

CHIEF LAND DIVISION

P: +61 8 7389 6841 E: CLD@dst.defence.gov.au

CHIEF AEROSPACE DIVISION

P: +61 3 9626 7666 E: CAD@dst.defence.gov.au

CHIEF JOINT AND OPERATIONS ANALYSIS DIVISION

P: +61 3 9626 7790 E: CJOAD@dst.defence.gov.au

CHIEF INTELLIGENCE, SURVEILLANCE AND SPACE DIVISION

P: +61 8 7389 6811 E: CISSD@dst.defence.gov.au

CHIEF CYBER AND ELECTRONIC WARFARE DIVISION

P: +61 8 7389 7175 E: CCEWD@dst.defence.gov.au

CHIEF WEAPONS AND COMBAT SYSTEMS DIVISION

P: +61 8 7389 5138 E: CWCS@dst.defence.gov.au

For further information
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DSC 1966



Australian Government

Department of Defence

Science and Technology Capabilities

Defence Science and Technology is a national leader in safeguarding Australia by delivering valued scientific advice and innovative technology solutions supporting Australia's defence and national security.



DST Science and Technology for Safeguarding Australia

MAJOR SCIENCE AND TECHNOLOGY CAPABILITIES (MSTC)

Each MSTC comprises people, infrastructure, S&T know-how and partner relationships in a combination of a science and defence domain. The science component comprises the specialist knowledge, skills and experience of staff in the domain, as well as infrastructure and partnering. The defence component is the context in which our specialist knowledge, skills and experience have impact, including the particular physical aspect or operational context.

Corporate Divisions
Responsible for corporate duties in order to shape strategic direction and enhance engagement with Defence and external partners.

Science Strategy and Program Division Develops science policy, formulates Defence S&T and strategic research programs, and oversees resource investment into S&T capabilities.



Science Partnerships and Engagement Division Coordinates and develops interactions with industry, academia, overseas agencies and other Australian government agencies. Promotes defence science in the education and wider Australian communities.



Research Services Division Delivers enabling services including science information management and technology, research infrastructure, scientific engineering and support, laboratory emergency management, safety and security.



Maritime Division (MD)
Provides support and solutions to enhance the operational performance and survivability of defence platforms in the maritime domain.

Sonar Technology and Systems
Conducts leading research and development in undersea acoustic sensors and systems to grow the ADF's undersea warfare capability.

Acoustic Signature Management
Delivers S&T solutions to manage the acoustic signature of defence platforms; and the hydrodynamic and manoeuvring performance of ships and submarines.

Non Acoustic Signature Management
Undertake research in materials science and technology to enhance the survivability, operational capability, seakeeping and cost of ownership of ADF platforms.

Maritime Autonomy
Leads research into autonomous and unmanned systems to enhance ADF capability in maritime surveillance, mine countermeasures and rapid environmental assessment.

Undersea Command and Control
Provides the ADO with scientific and technical expertise to enhance the RAN's undersea warfare capability and decision making.

Maritime Platform Performance
Undertakes research in platform performance of materials, structures and systems to enhance the capability, survivability and safety of RAN vessels.

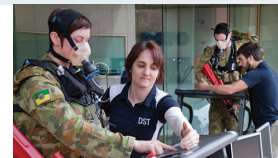
Land Division (LD)
Provides support and solutions for ADF personnel by applying expertise in human sciences, personnel protection, vehicle and systems sciences, and chemical, biological and radiological warfare.

Land Human Systems
Develops, sustains and applies the broad cross-section of human science skills in support of ADF land operations.

Land Vehicles and Systems
Conducts research in vehicle systems management, armour and protection, logistics and integrated support systems.



Chemical and Biological Defence
Research and development of defence against chemical, biological and radiation (CBR) threats.



Land Personnel Protection
Supports soldier combat system development, and analysis of threats affecting the soldier.

Aerospace Division (AD)
Provides support and solutions to enhance the operational effectiveness, performance, survivability, availability and safety of ADF aerospace capabilities.

Aerospace Systems Effectiveness
Supports Defence outcomes in capability, efficiency and safety by providing advice and solutions where humans and air platforms or systems interact.

Aircraft Performance and Survivability
Conducts performance and survivability modelling and experimentation for flight, propulsion, signatures and stores carriage and clearances.

Aircraft Health and Sustainment
Supports aircraft health management systems and technologies, engine and fuel integrity, and aerospace systems sustainment analysis.

Airframe Technology and Safety
Works to ensure aircraft safety and availability, reduce fleet cost of ownership and advises on acquisition projects.

Aircraft Structures
Provides safety-critical aircraft structural integrity and airworthiness advice and solutions to the ADO.



Joint and Operations Analysis Division (JOAD)
Analyses Defence operations and capability to provide independent, impartial and timely advice.

Three JOAD MSTCs develop and apply analytical methods, techniques and tools to inform decisions impacting: **1. Aerospace Capability, 2. Land Capability and 3. Maritime Capability.** This encompasses specification, procurement, command and control, underpinning technologies, force structure and training, and their contribution to operational effectiveness.

Joint Capability Analysis
Supports joint capability issues, including through the DST operations support centre by immersion and experimentation with warfighters.



Decision Sciences
Enhances military decision-making at individual, team and organisational levels in terms of intent, capabilities, awareness and control including human and machine perspectives, and their integration.

Strategic Capability Analysis
Informs strategic policy and capability decisions by applying analysis, concept development, risk assessment and technology forecasting.

Cyber and Electronic Warfare Division (CEWD)
Provides expert advice and technology solutions in the cyber domain and electronic warfare environment.

Electronic Warfare Operations
Conceives, develops and validates EW technologies and techniques to support the ADF.

Cyber Warfare Operations
Researches and develops new and novel concepts, technologies and techniques to enable autonomous, resilient and effective cyber capabilities.



Contested Communications
Provides advice and solutions for robust communications in contested, complex and dynamic environments.

Electronic Surveillance and Coordination
Provides expertise in radio frequency phenomenology and systems, subsystems and devices and the associated digital signal processing and computing technologies and architectures.

Cyber Sensing and Shaping
Develops concepts, technologies and techniques for assessing, characterising and shaping communication networks to enable cyber operations.

Weapons and Combat Systems Division (WCSD)
Applies science and technology to the development and operation of highly effective weapon and combat systems for Defence.

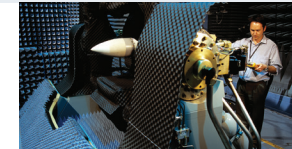
Tactical Systems Integration
Conducts research into tactical-information: architectures; integration and interoperability; automation; and processing, to achieve distributed tactical decision superiority for the ADF.



Tactical Systems Performance Assessment
Conducts analysis of weapon system performance and end-to-end tactical system effectiveness.

Weapon Systems Technologies
Applies S&T of sensors, processing and electromagnetic interactions to weapons and tactical systems to enhance the ADF's warfighting capability.

Energetic Systems and Effects
Enhances Defence and national security capabilities, and the safety of ADF assets through research into energetic materials, explosive ordnance, propulsion technologies and high speed systems.



Intelligence, Surveillance and Space (ISSD)
Enhances the national capability for accurate, relevant and timely actionable intelligence for Defence and Government decision makers.

Intelligence Analytics
Develops situational awareness capabilities for intelligence analysts and conducts domain-specific research into human, open-source and all-source analysis techniques.

Information Integration
Supports the integration and application of intelligence, surveillance and reconnaissance systems.

Intelligence Systems
Develops intelligence systems for geospatial intelligence and measurement and signature intelligence, and imagery-based capabilities.

Surveillance and Reconnaissance Systems
Conducts research into surveillance and reconnaissance systems and assesses their application to defence and national security needs.

High Frequency Radar
Enhances long-range over-the-horizon radar as part of the national intelligence, surveillance and reconnaissance system.

National Security
Provides a whole-of-government coordination program for science and technology needs relating to national security.