DST LEADERSHIP TEAM



CHIEF DEFENCE SCIENTIST

CORPORATE DIVISIONS

CHIEF SCIENCE

STRATEGY AND

Dr Todd Mansell

PROGRAM

CHIEF SCIENCE AND TECHNOLOGY

Dr Mike Davies

CHIEF TECHNOLOGY

OFFICER NATIONAL

Dr Richard Davis

CHIEF SCIENCE

PARTNERSHIPS

Dr Ian Dagley

AND ENGAGEMENT

CHIEF RESEARCH

Mr Peter Lambert

SERVICES

Prof Tanya Monro

RESEARCH DIVISIONS



CHIEF MARITIME

Dr David Kershaw



CHIEF LAND

Dr Peter Shoubridge



ACTING CHIEF AEROSPACE

Mr Khan Sharp



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

DOING BUSINESS WITH DST

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CHIEF WEAPONS AND COMBAT SYSTEMS DIVISION

For further information

visit www.dst.defence.gov.au or download the free DST App



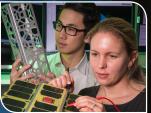




Science and Technology Capabilities

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.









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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)

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

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



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)

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.



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



Joint and Operations Analysis Division (JOAD)

capability to provide independent,

Three IOAD 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.

Ioint 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.



Cyber and Electronic Warfare Division (CEWD)

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

technology forecasting.

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

Weapons and Combat Systems Division (WCSD)

of highly effective weapon and combat systems for Defence.

intelligence for Defence and Government

Intelligence, Surveillance

and SPACE (ISSD)

Intelligence Analytics

automation; and processing.

to achieve distributed tactical

decision superiority for the ADF.

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

Tactical Systems Integration Conducts research into tacticalinformation: architectures: integration and interoperability:

Information Integration Supports the integration and application of intelligence,

surveillance and

reconnaissance systems.

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

Tactical Systems Performance

Intelligence Systems

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

Weapon Systems Technologies

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

Surveillance and Reconnaissance

Systems Conducts research into

surveillance and reconnaissance

application to defence and national

systems and assesses their

security needs.

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.



High Frequency Radar

Enhances long-range over-thehorizon radar as part of the national intelligence, surveillance and reconnaissance system.



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

