

OUR SCIENCE PROGRAMMES

INFORMATION WARFARE



Sensing & Intelligence

Application of AI for Intelligence & Data Collection

- Understand and exploit artificial intelligence
- Automating tools and detecting patterns
- Faster data analysis and enhanced cueing



Cyber & Electromagnetic Warfare

Cyber Defence & Radio Frequency Systems

- Exploring cyber resilience, awareness & protection
- Novel radio frequency sensing
- Resilient communications alternatives



Concepts, Strategy & Analytics

Research to inform Decisions, Planning & Policy

- Analytical methods to enhance strategic decision making
- Analysis of emerging and disruptive technology



Human Sciences

Understanding our People: Cognitive & Physical Performance

- Integration with emerging technological systems
- Increased survivability in high-risk environments



Climate Intelligence

Supporting the NZDF through a Changing Climate

- Understanding the ability of NZDF to respond
- Adapt to decrease operational risk
- Compliance with legislation and regulation

PLATFORM WARFARE



Air Warfare

Advancing the Protection of NZDF Aircraft

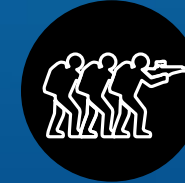
- Assurance of aircraft self-protection systems
- Informed procurement and through life support
- Reduced combat risk for operations



Maritime Warfare

Tactics & Technology to Protect our Sailors & Ships

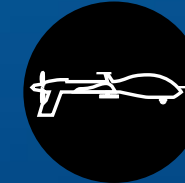
- Fully realise our ship's self-protection systems
- Research into advanced sensors, effectors and autonomous systems
- Protect our ships, cables and pipelines from underwater threats



Land Warfare

Maximise the Safety & Effectiveness of our Soldiers

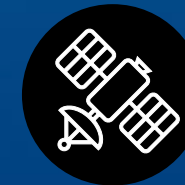
- Armour & protection systems
- Detection of and protection from chemical and biological threats
- Signature management of people and platforms



Autonomous Systems

Harnessing the Potential of Autonomous Systems

- Accelerate Government and NZDF adoption
- Generate knowledge to support acquisition
- Counter autonomous threats



Space & Navigation Warfare

NZDF's Research Pathway to Space Domain Operations

- Surveillance of space activities
- Space domain interoperability
- Resilience of NZDF navigation and timing services