



Australian Government
Department of Defence
 Defence Science and
 Technology Organisation

**Defence Science and Technology
 Organisation (DSTO)**



*"Expert, impartial, and innovative
 application of science and
 technology to the defence of
 Australia and its national interests."*

DSTO is Australia's prime body for
 Defence research

The core objectives underpinning DSTO's
 mission are to :-

- Influence framing and implementation of
 defence policy.
- Position Australia to exploit future
 developments in technology.
- Provide advice and support to ensure
 that Australia is an informed buyer.
- Develop new capabilities.
- Provide advice and support to increase
 performance and reduce costs of
 ownership of existing capabilities
- Assist industry to become better able to
 support the capabilities needed to
 defend Australia.
- Collaborate nationally and
 internationally to strengthen the
 technology base available to Australia's
 defence.

DSTO Clients

- Australian Defence HQ

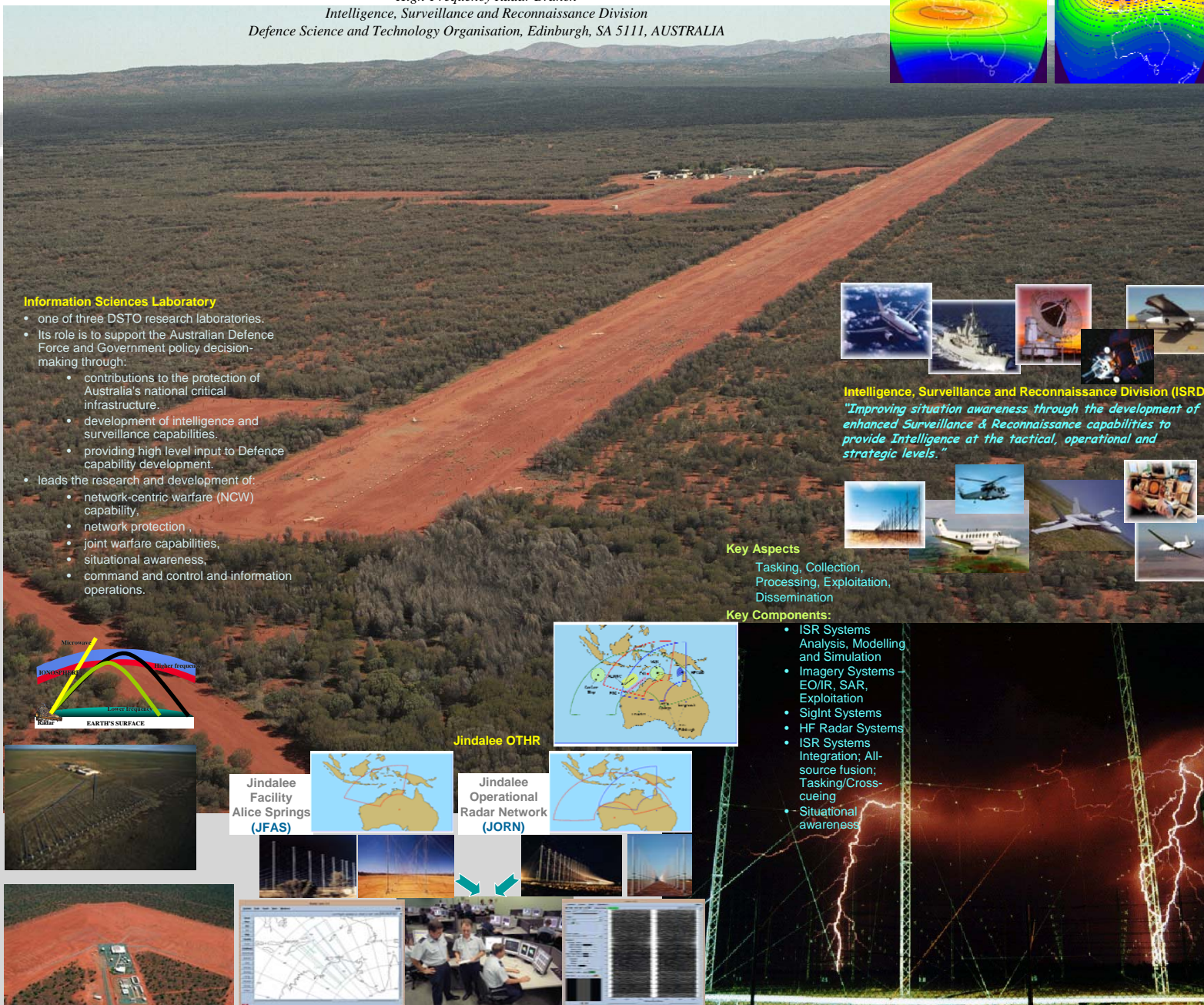
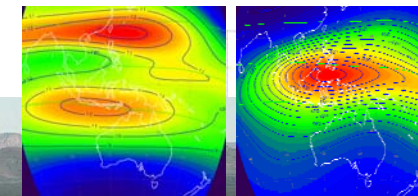


- Navy, Army, Air Force
- Defence Intelligence Organisation
- Defence Signals Directorate
- Defence Imagery and Geospatial
 Organisation
- International Policy Division
- Defence Materiel Organisation
- Department of Foreign Affairs &
 Trade
- Coastwatch
- Immigration
- Prime Minister & Cabinet



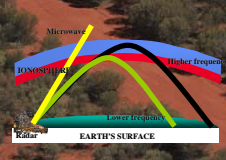
DSTO, ISRD and OTHR

High-Frequency Radar Branch
 Intelligence, Surveillance and Reconnaissance Division
 Defence Science and Technology Organisation, Edinburgh, SA 5111, AUSTRALIA



Information Sciences Laboratory

- one of three DSTO research laboratories.
- Its role is to support the Australian Defence
 Force and Government policy decision-
 making through:
 - contributions to the protection of
 Australia's national critical
 infrastructure.
 - development of intelligence and
 surveillance capabilities.
 - providing high level input to Defence
 capability development.
- leads the research and development of:
 - network-centric warfare (NCW)
 capability,
 - network protection ,
 - joint warfare capabilities,
 - situational awareness,
 - command and control and information
 operations.



Intelligence, Surveillance and Reconnaissance Division (ISRD)
*"Improving situation awareness through the development of
 enhanced Surveillance & Reconnaissance capabilities to
 provide Intelligence at the tactical, operational and
 strategic levels."*



Key Aspects

Tasking, Collection,
 Processing, Exploitation,
 Dissemination

Key Components:

- ISR Systems
 Analysis, Modelling
 and Simulation
- Imagery Systems
 EO/IR, SAR,
 Exploitation
- SigInt Systems
- HF Radar Systems
- ISR Systems
 Integration; All-
 source fusion;
 Tasking/Cross-
 cueing
- Situational
 awareness

Jindalee OTHR

**Jindalee Facility
 Alice Springs
 (JFAS)**

**Jindalee
 Operational
 Radar Network
 (JORN)**

