Current Theatre Environment
An Australian Perspective

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The Hobo-Dyer Equal Area Projection

This new map belongs to the family of Cylindrical Equal Area projections in which the meridians and parallels form a rectangular grid. Other projections in this family include the Lambert, Gall, Behrmann, and Peters projections. In the present case, the "ribbon" is assumed to wrap once of the globe and cut through it at 35° north and south. In order to conserve the equal area property, the shapes of the landmasses become progressively more elongated as the poles, but shapes between 35° north and south are well-preserved.
Mission

DSTO is the Australian Government's lead agency charged with applying science and technology to protect and defend Australia and its national interests. It delivers expert, impartial advice and innovative solutions for Defence and other elements of national security.

Vision

To be a world leader in defence science and technology – indispensable in transforming the Australian Defence Force and Australia's national security.
Defence Structure
DSTO at a Glance

- Budget (06-07) – 442 M
- 12 Research divisions
- 2300 staff
- 8 sites across Australia
DSTO Functions
Program Thrusts

Wide Area Surveillance
Program Thrusts
Network Centric Warfare
Program Thrusts
Interoperability

Joint Australian United States Exercise – Talisman Sabre 07

Coalition Readiness Management System Project Arrangement - CReaMS
Program Thrusts
Experimentation

Automation of the Battle Space Initiative

Headmark

Headline – Concept Exploration and Analysis Laboratory (CEAL)
Program Thrusts
Chemical, Biological & Radiological Defence

PC3 Laboratory

Breathable Chemical and Biological suit
Program Thrusts
Aging Aircraft

Structural test on F/A-18

Smart Structures
Capability & Technology Demonstrators

- Allows Australian Defence Industry to demonstrate how advanced technology can enhance Defence capability.
- $160 M invested since 1998.
- Average CTD $3m; 3 years.
Capability & Technology Demonstrators

Underwater Personal Computer

Fibre Laser Sonar (Hydrophone)
Capability & Technology
Demonstrators

Rassputin Sonobuoy

Cuttlefish – protection of ships from radar surveillance
Emerging Issues

- Operational Tempo
- IEDs
- Space (Hypersonics)
- Intelligence, Surveillance and Reconnaissance
Thank you