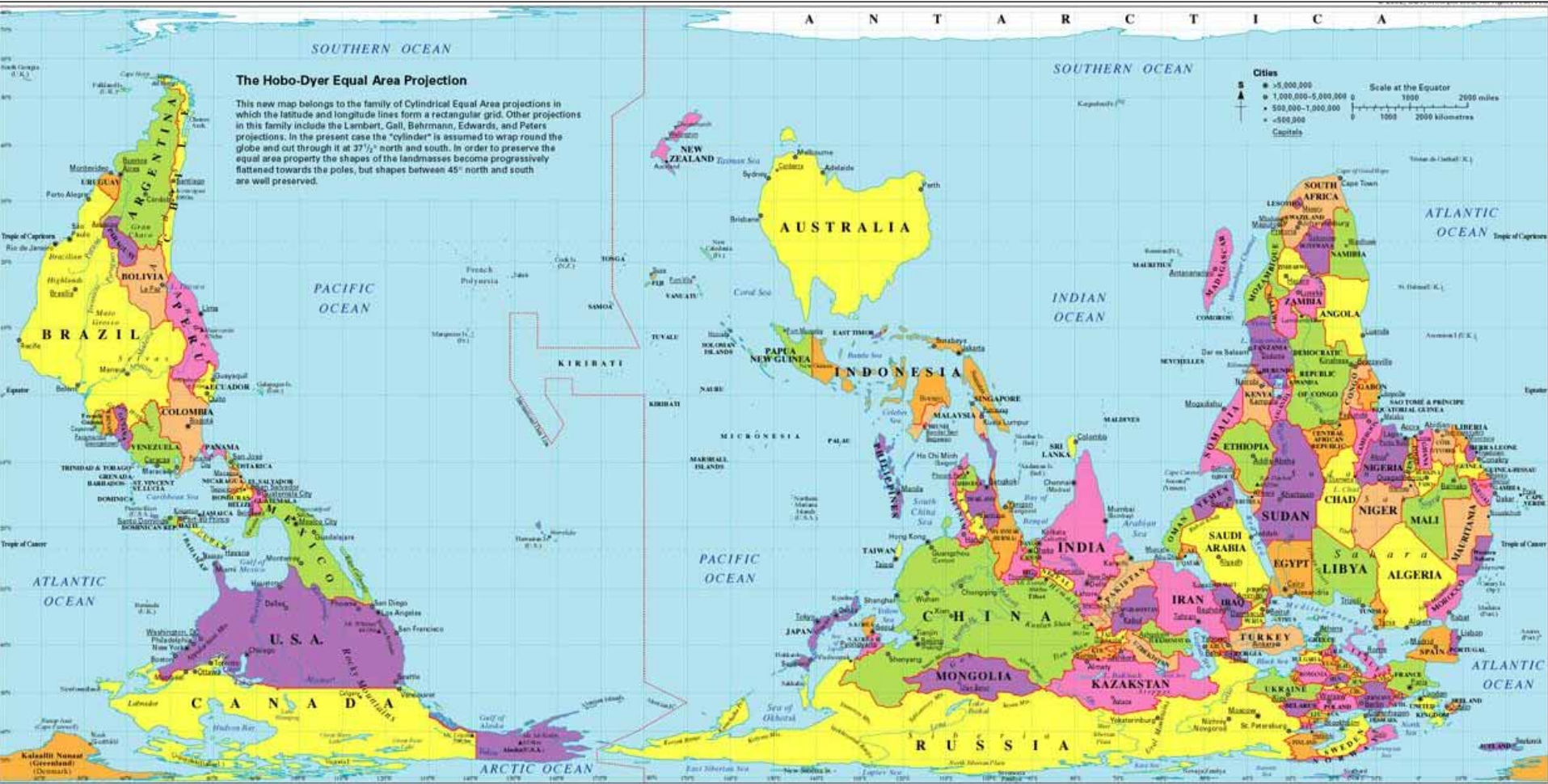


Current Theatre Environment An Australian Perspective

Dr Roger Lough
Chief Defence Scientist

Pacific Theatre Operational Science and
Technology Conference
Hawaii
April 2007



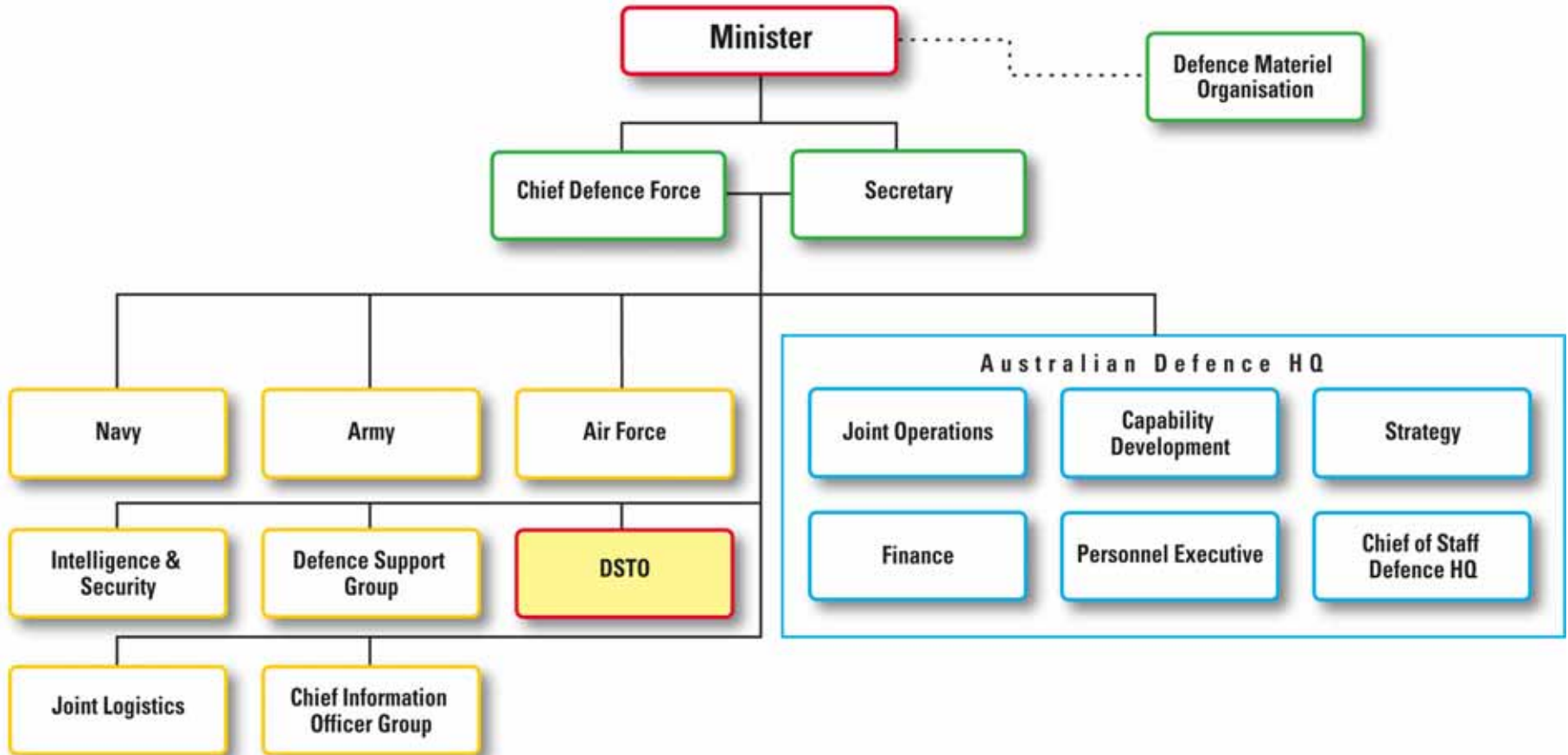


Australian Government
Department of Defence
Defence Science and
Technology Organisation



DSTO Mission and Vision

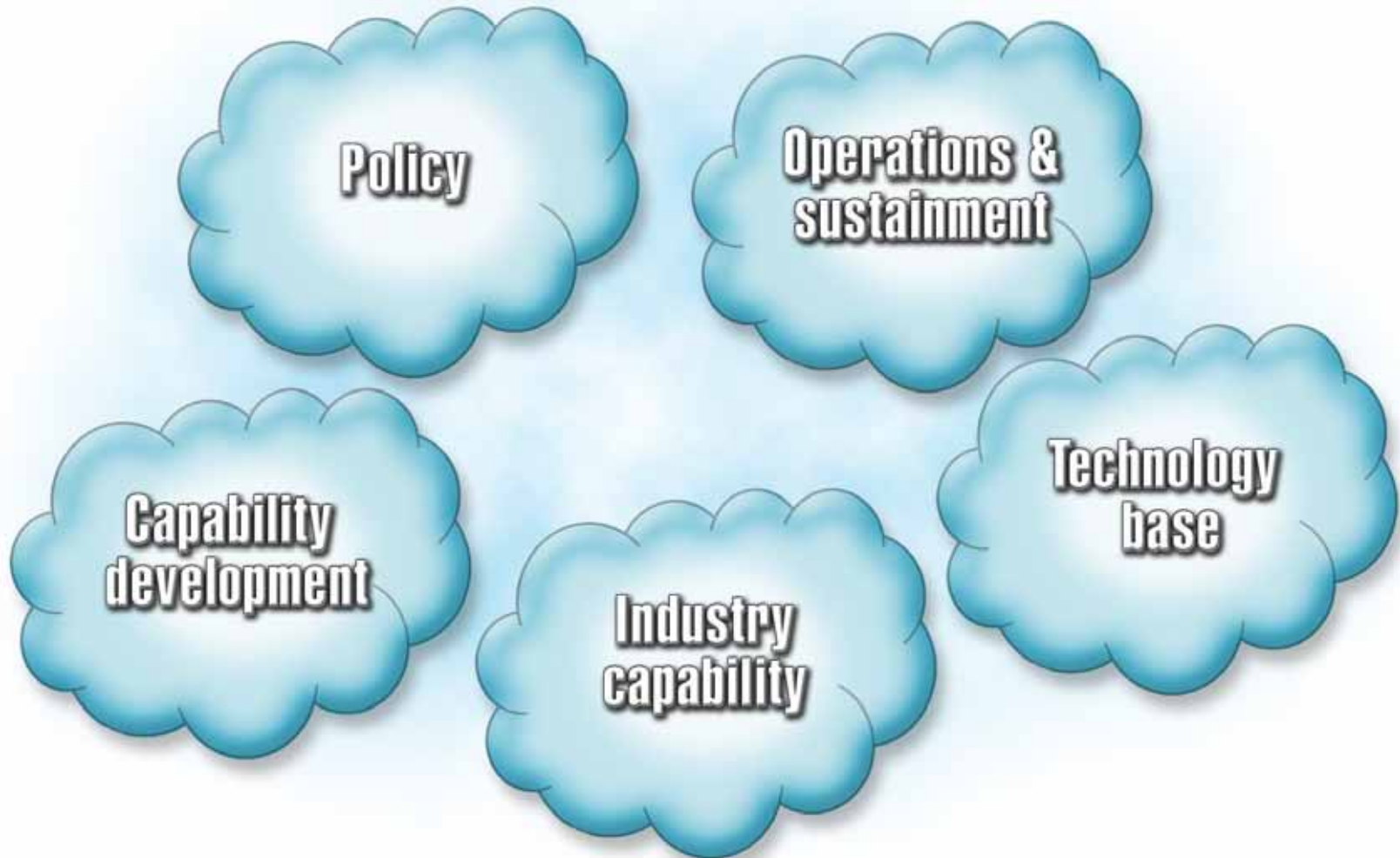
Defence Structure



DSTO at a Glance



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

