Defence Science and Technology Laboratory

[dstl]

Meeting C4ISTAR Requirements Integrating Systems & Technologies into Equipment Capabilities

Joint Command & Battlespace Management Applied Research Technology Demonstrator

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ARP13
COMMAND, CONTROL & INFORMATION INFRASTRUCTURE

Aim

- Deliver world-wide communications network
  - Global Information Infrastructure
  - Comprehensive information services for defence
- Underpin mission and business applications
  - Satisfying needs of levels of command
- Sponsor DEC(CC&II) (Brigadier Philip Pratley)

Dstl is part of the
Ministry of Defence

ARP13
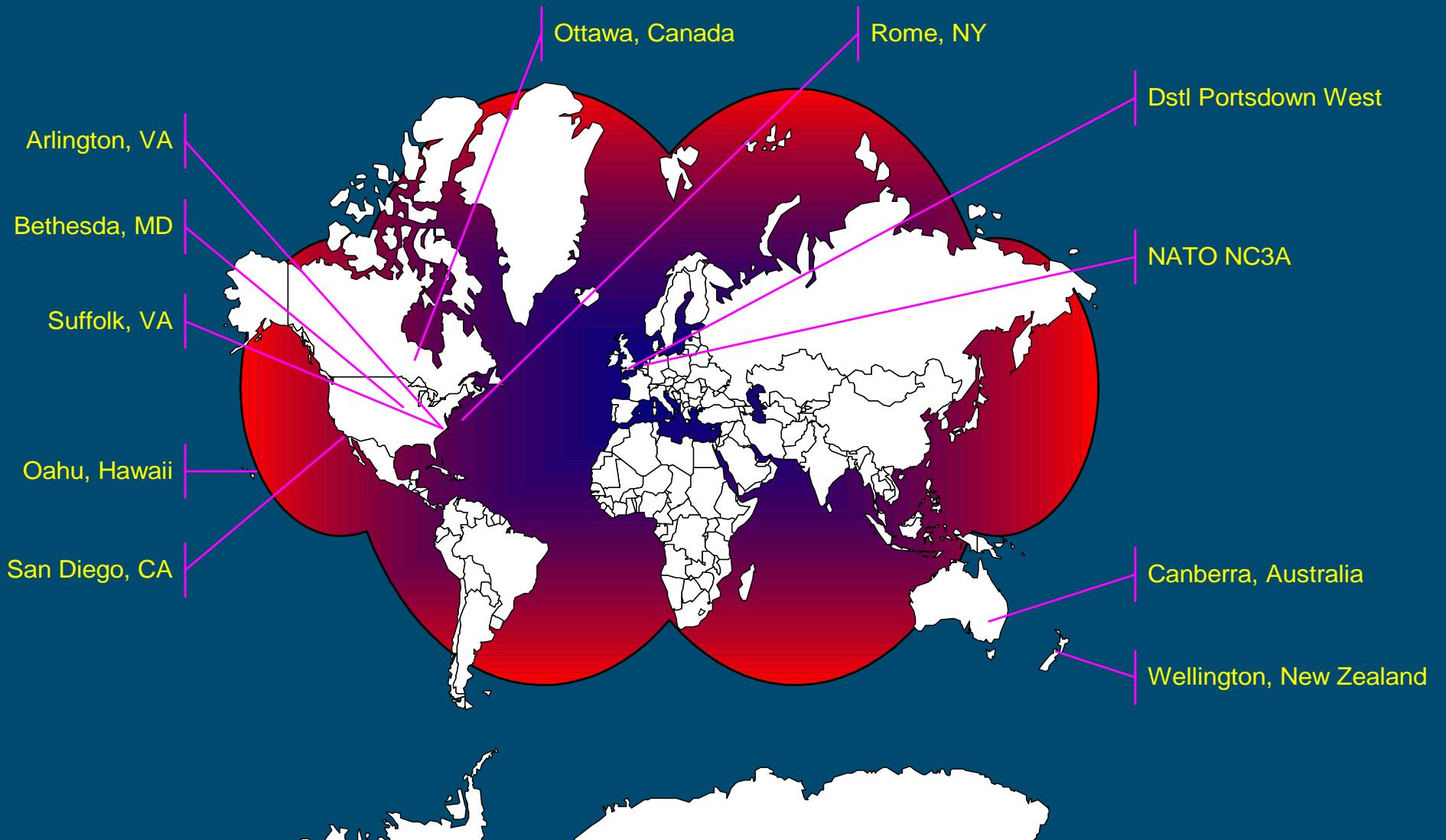# COMMAND, CONTROL & INFORMATION INFRASTRUCTURE

- Key areas for capability improvements
  - Secure wide area and mobile communications
  - Information infrastructure
  - Decision support and situational awareness
  - Intelligence support
  - Joint logistics
  - Information Operations
  - Command and control
  - Interoperability

ARP13
COMMAND, CONTROL & INFORMATION INFRASTRUCTURE

- Strategy

  - Promote experimentation, demonstration and prototyping over 46 projects

  - Project 2 (JCBM ARTD) provide a comprehensive and coherent C3I laboratory (located at Portsdown West)

    - Primarily for ARP 13 research programme

    - Exploitation to wider Mod Community

    - Standing UK host for Joint Warrior Interoperability Demonstrator

    - UK element of the multinational Combined Federated Battle Network (CFBLNet)

CFBL Net Points of Presence

Ottawa, Canada

Rome, NY

Dstl Portsdown West

Arlington, VA

Bethesda, MD

NATO NC3A

Suffolk, VA

Oahu, Hawaii

San Diego, CA

Canberra, Australia

Wellington, New Zealand

ARTD Capability

- Conduct collaborative investigations into joint and combined coalition issues.

- Connectivity to other Joint and Combined experimental testbeds (Distributed working)

- Provides access for Industry in support of Equipment Programme

- Evaluates research in promising new areas, including the civil market.

- Hosts large demonstrations

- Provides a representation of the Battlespace

Integrating Systems and Technologies into Equipment Capabilities

- Integrated component of Defence Test & Reference Centre
  - CM(IS) initiative
  - Development led by the Integration Authority
  - NEC Requirement
    - comprehensive and rapidly adaptable set of experimental facilities will be required
- Exploitation of research direct to the Equipment Programme
  - Working links with the DPA
  - Working links with C4I Integrated Project Teams

Integrating Systems and Technologies into Equipment Capabilities

- JWID Programme (technologies and interoperability issues)

- Addressing current C3I Interoperability issues

- Venue for SME's to evaluate exploitable technologies

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ARP13 Structure

CC&II SoS Engineering

Future Command

Future C2

Information Operations

Global Information Infrastructure

Global Communications Network