



MINISTRY OF DEFENCE

Defence Technology Innovation



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Ministry of Defence



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Challenges

- Leading edge technologies into current and future systems
- Capturing ideas from wider UK plc
- Exploiting opportunities for UK wealth creation and overseas markets
- Development of commercial business models
- Technology capture, growth and development



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Science and Technology in MOD



- Personnel
- Training
- Operations

Supports kit

Defence Equipment & Support (DE&S)

Buys kit

Defines requirements

Equipment
Capability
Customer
(ECC)

Policy

Science
Innovation
Technology

Buys
research

Defence Technology and Innovation
Centre (DTIC)



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Science and Technology in MOD



Defence Equipment & Support (DE&S)

Equipment
Capability
Customer
(ECC)

Policy

Science
Innovation
Technology

Provides
advice

**Defence Technology and Innovation
Centre (DTIC)**

**Buys
research**

Does
research

**Defence Science
& Technology
Laboratory (Dstl)**

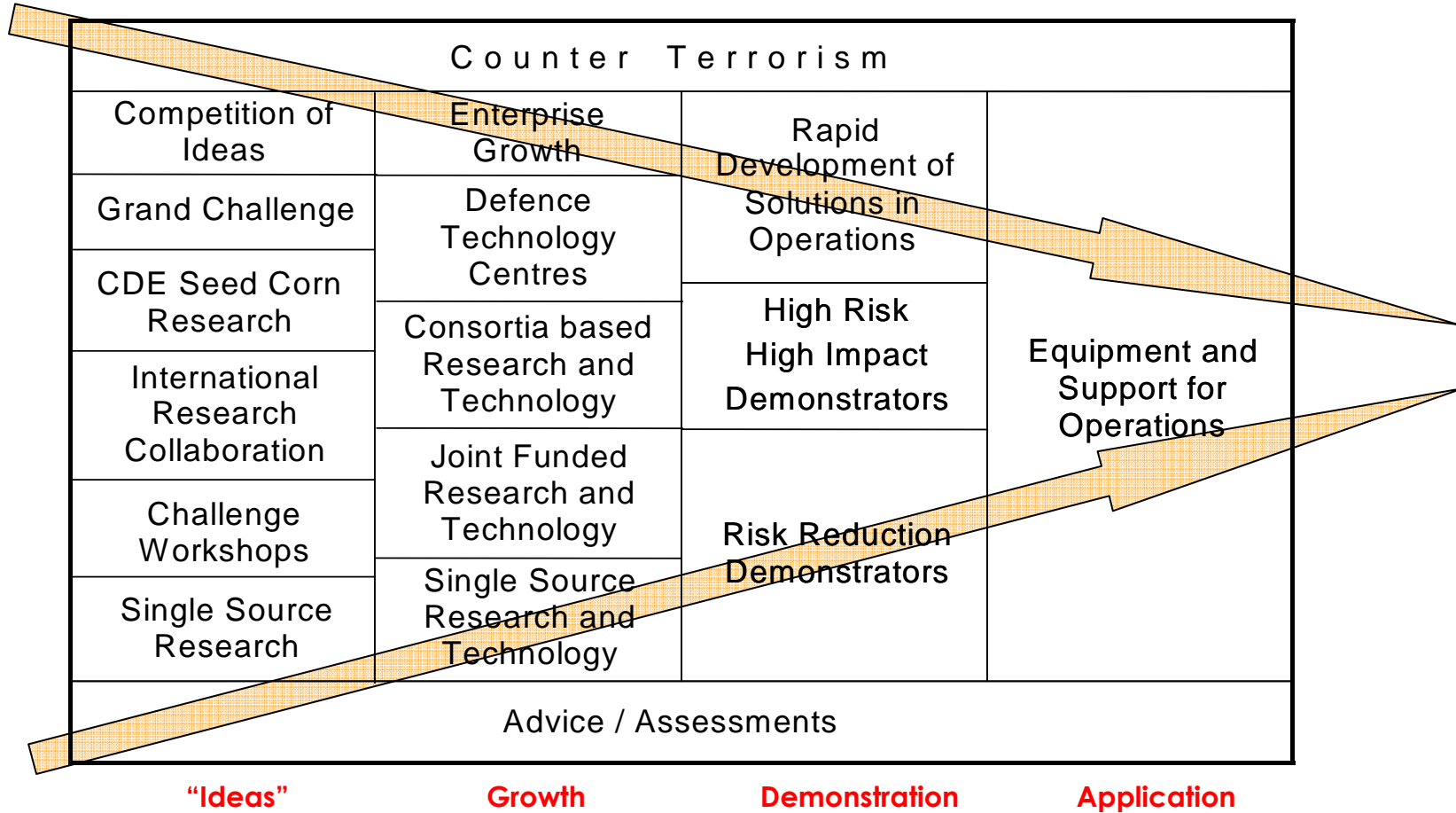
**Industrial and
academic
research suppliers**

**Does
research**



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S&T Operations Delivery Model





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Defence Technology Strategy

- For the first time, we openly provide detail of:
 - Our R&D priorities for the next 20 years
 - What we need to retain in the UK to maintain UK freedom to develop and use technologies
 - Where there are opportunities for collaboration
 - How we shall sustain key S&T skills
- Industry and Academia advisors were a key part of DTS development
 - through the National Defence Industry Council and Defence Science Advisory Council
- Now developing ***Defence Technology Plan***
 - (Defence) industry and academia will play a key role
 - Will provide the next level of detail

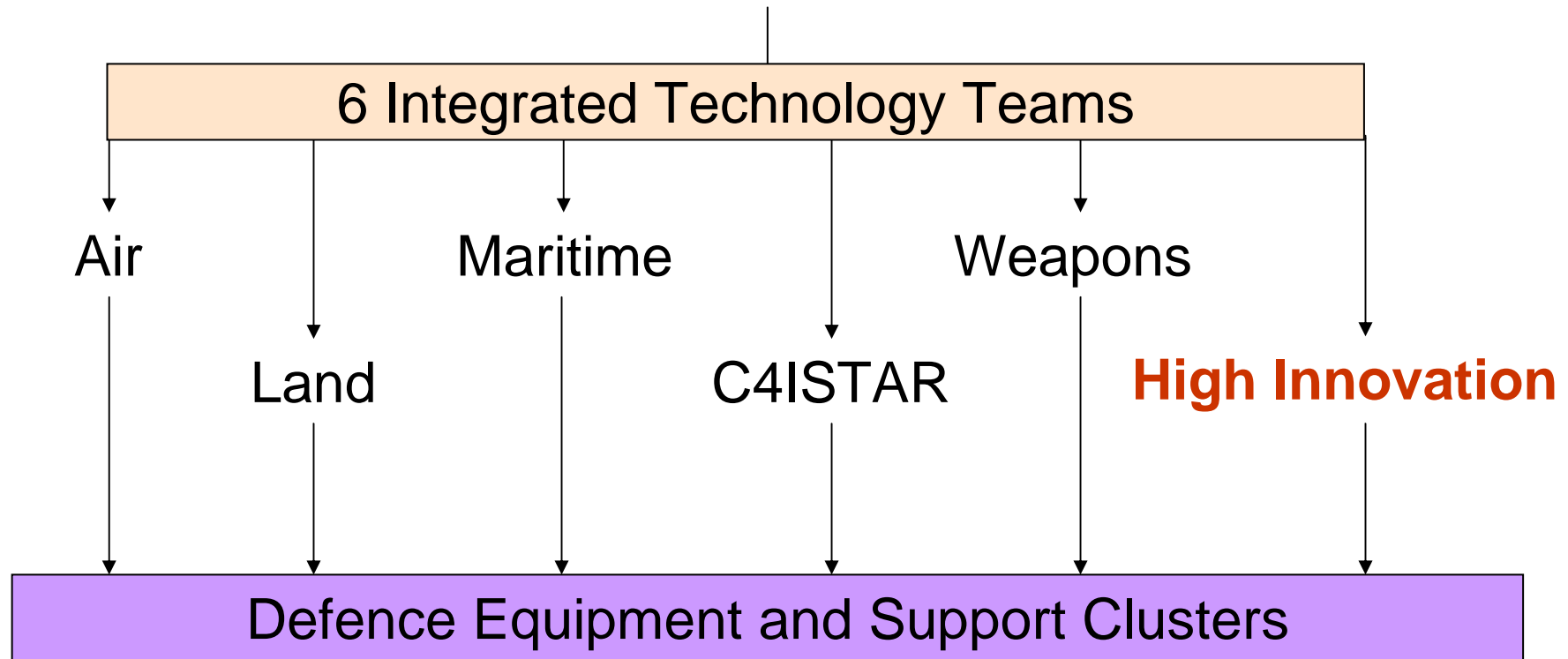




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Defence Technology & Innovation Centre (DTIC)

Director DTIC - Prof Andrew Baird





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Defence Technology Centres

- Electro Magnetic Remote Sensing
 - www.emrsdtc.com
- Systems Engineering and Autonomous Systems
 - www.seasdtc.com
- Human Factors Integration
 - www.hfidtc.org
- Data and Information Fusion
 - www.difdtc.com

Also

- Counter Terrorism Centre (CT Centre)
 - www.ctcentre.mod.uk



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University Research Schemes

- Joint Academic Research Programme for Defence
 - (ex Joint Grant Scheme)
 - £5M p.a. from MOD; joint investment with UK Research Councils
 - Now working with RCs to define focussed topics
- University Defence Research Centres
 - Dstl / University partnership arrangement
 - First one is in Signal Processing
 - Estimated cost ~£4M over 5 years

Administered mainly by Dstl

www.dstl.gov.uk

science | innovation | technology



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Grand Challenge

Produce a system – with a high degree of autonomy – designed to detect, identify, monitor and report a comprehensive range of physical threats in a complex urban environment



- Challenging UK innovators - including industry, SMEs and academia
- www.challenge.mod.uk
- Launched November 2006
- Qualifying Event and Final Trials Summer 2008
- R.J.Mitchell Trophy and possible contract for follow on work



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Competition of Ideas

- Aimed at mobilising previously untapped sources of scientific creativity to solve some of the problems that face our forces now and in the future
- First call for proposals was against defined problem areas:
 - Automatic Object Recognition
 - Prediction of Intent
 - Ad Hoc Networking
 - Protection
- ~ £10M funding in 2008

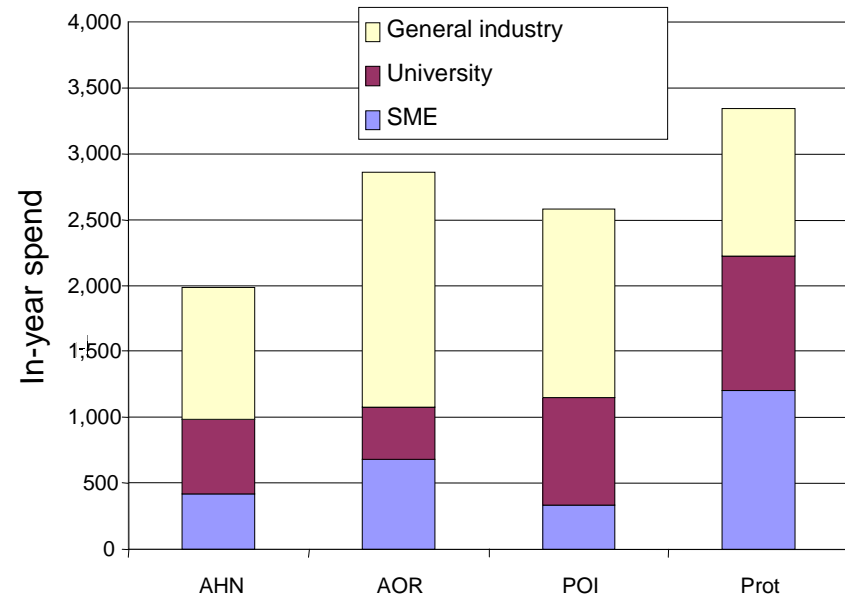
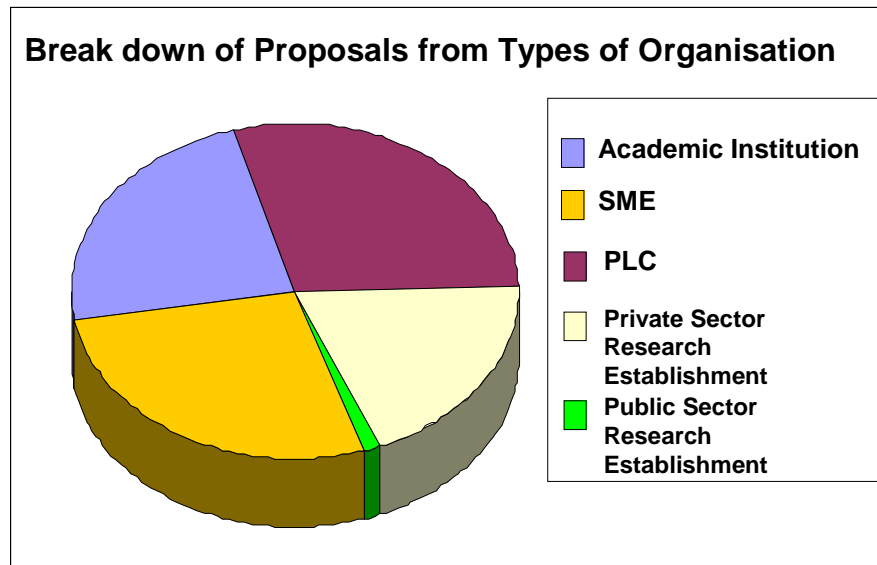




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Competition of Ideas

- 66 out of 467 entries selected for award





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Centre for Defence Enterprise

“Our Challenges, Your Ideas”

- New approach for Defence Research
- Centre for Defence Enterprise office:
 - Harwell Science and Innovation Campus
 - Opens 1st April 2008
- Electronic submission of proposals
 - On-line during April 2008
- Launch of Centre for Defence Enterprise - May 2008
- Seminar – technology workshop programme



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Centre for Defence Enterprise

“Our Challenges, Your Ideas”

- Entry point for your ideas
 - Proof of concept funding
 - Route to the defence market
 - Support from defence experts
 - Networking & Investment Opportunities
- Rapid Response and Decisions
- New Ideas for Defence
 - Bring in non-defence technology
 - Rapid technology Insertion
 - Technology and solutions for Operations



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Contacts

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Courtesy Diamond Light Source Ltd