

The MOD
Counter Terrorism
Science & Technology
Centre

CENTRE

Managed for MOD by Dstl

MOD Counter - Terrorism Science and Technology Centre

Director Ken Brigden

Why the need for a CT Centre

- MOD and Government recognised that to counter and respond to rapidly evolving and sometimes evaporating terrorist threats (very different from military threats) its technology acquisition and operational support process must change.
- The CT programme is getting larger, more complex and more costly.
- CT Customers in MOD and across Government want a 'one stop shop' providing 'solutions' at the appropriate systems level that consider 'all lines of development' (training, equipment, personnel, information, doctrine, organisation, infrastructure and logistics, known as TEPID OIL) and not just S&T advice or a research programme.
- UK Government policy under CONTEST for Homeland CT requires departments to work closely together, including on S&T.

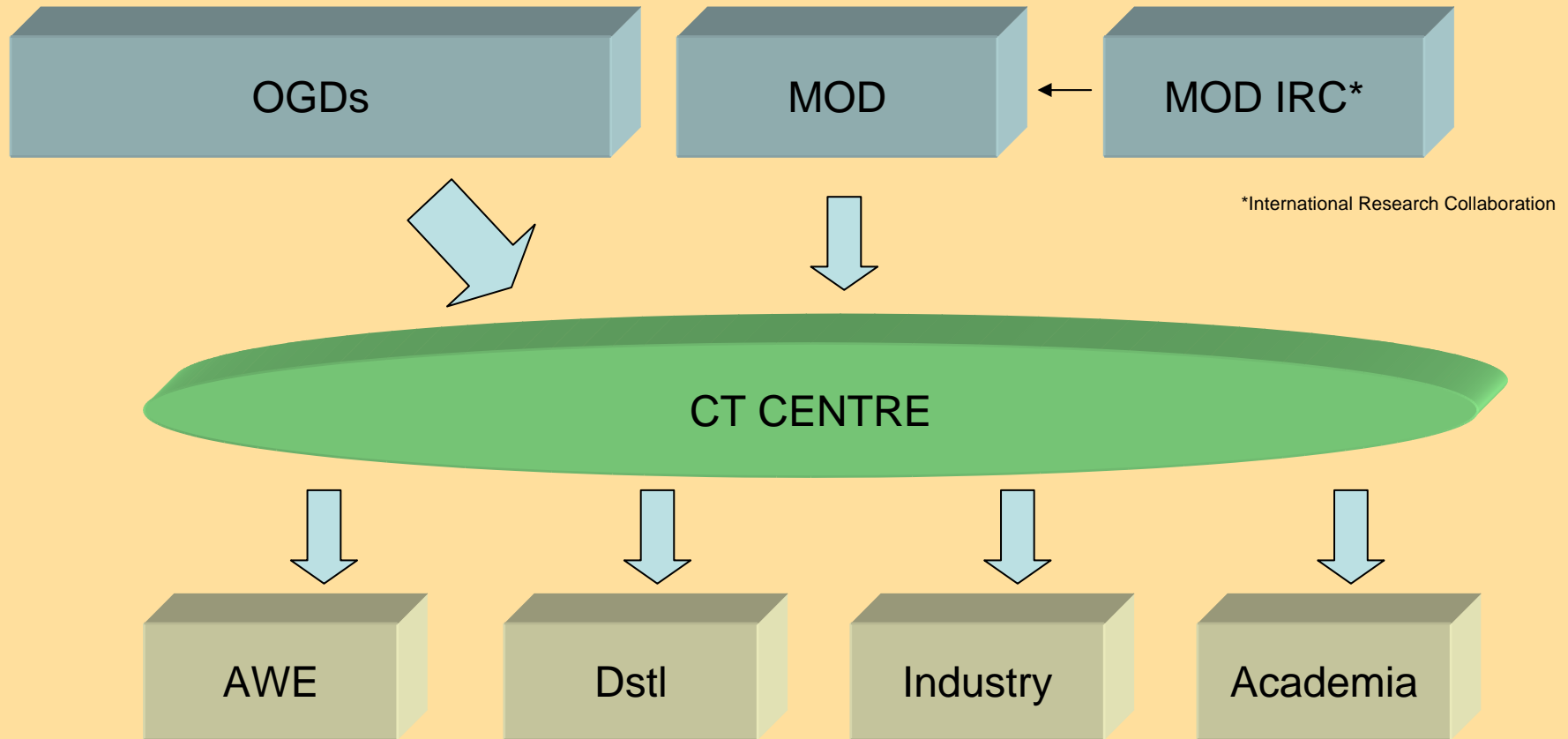
Overview and Operational Status

- The Centre became operational in April 2006 under the approval of the SofS for Defence and at the request of MOD CSA.
- There is no robust definition of CT in MOD because it includes; Asymmetric Warfare, Counter: Insurgency, Irregular Warfare and Unrestricted Warfare, Internal or Homeland Security and Global CT etc. however, there is a strong S&T 'grouping' around many CT threats and solutions.
- CT Centre was established to manage MOD's CT S&T programme and to work across other government departments on CT S&T.
- The Centre is very much 'front of house' for MOD CT S&T, e.g. on the World Wide Web. Significant effort has gone into briefing other government departments, other governments, industry and academic sectors on the role of the Centre.
- Director is responsible to; The Centre's Oversight Board chaired by Prof. Sir Roy Anderson MOD CSA and date to day through MOD S&T Director. The Board includes representation from MOD and across government departments with CT responsibilities, industry and academia.

Role of the Centre

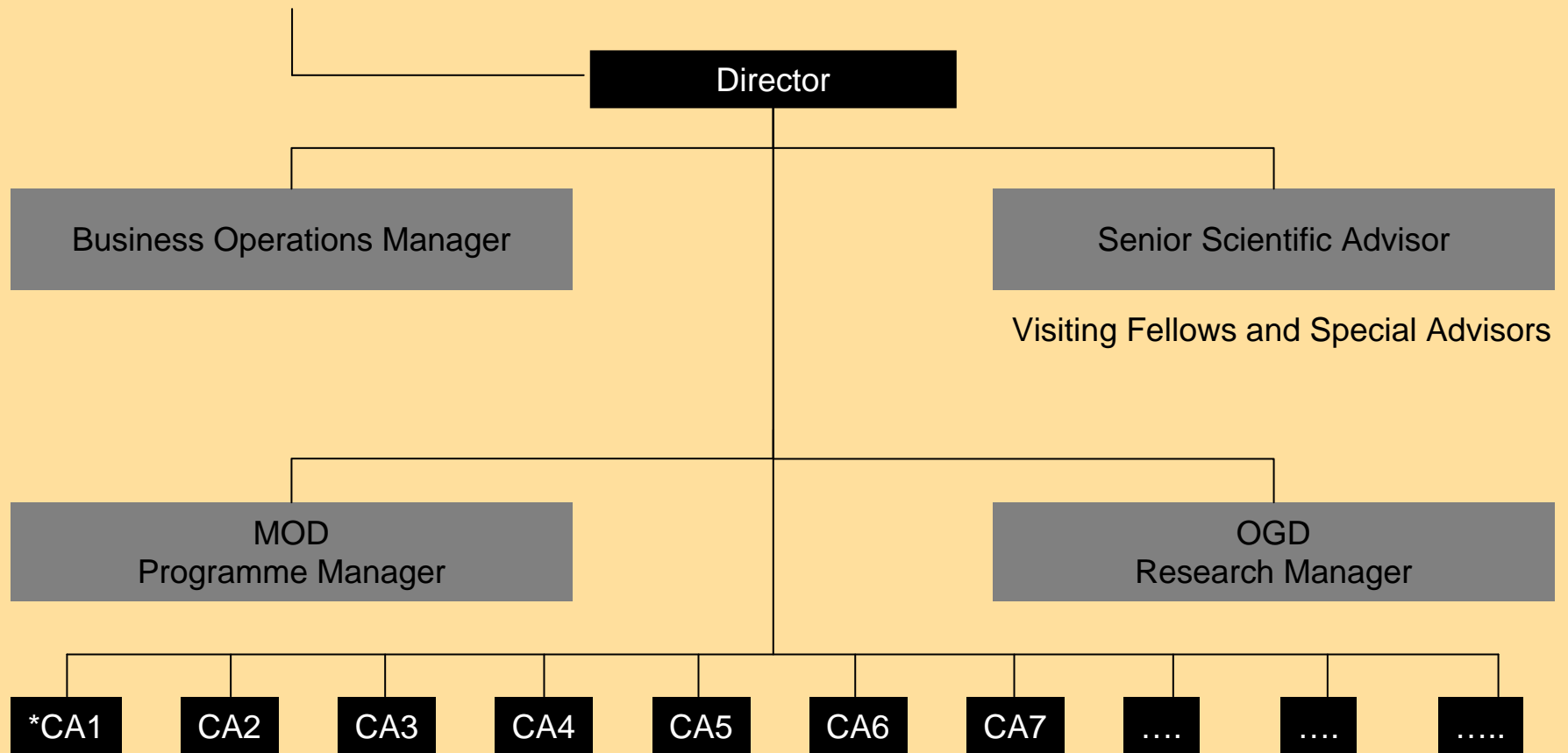
- to help understand and define the science and technology contribution to solving problems arising from terrorism, supported by operational and scenario based analysis;
- to ensure coherence and focus in the scientific research underpinning our response to terrorism;
- to bring together existing capabilities from across Government, industry and academia to find science and technology based solutions and draw in new contributors from the broader UK science and technology community;
- where capabilities we need are not available, to provide facilities for teams of scientists from government, industry and academia to develop new ones;
- to facilitate access for other government departments to MOD sensitive MOD technologies and capabilities while protecting national security;
- to facilitate engagement with industry for transfer of technology and exploitation of UK intellectual property; and
- to enable and focus CT International Research Collaboration (IRC) within our extant multinational research framework.

CT Customer-Supplier Tasking

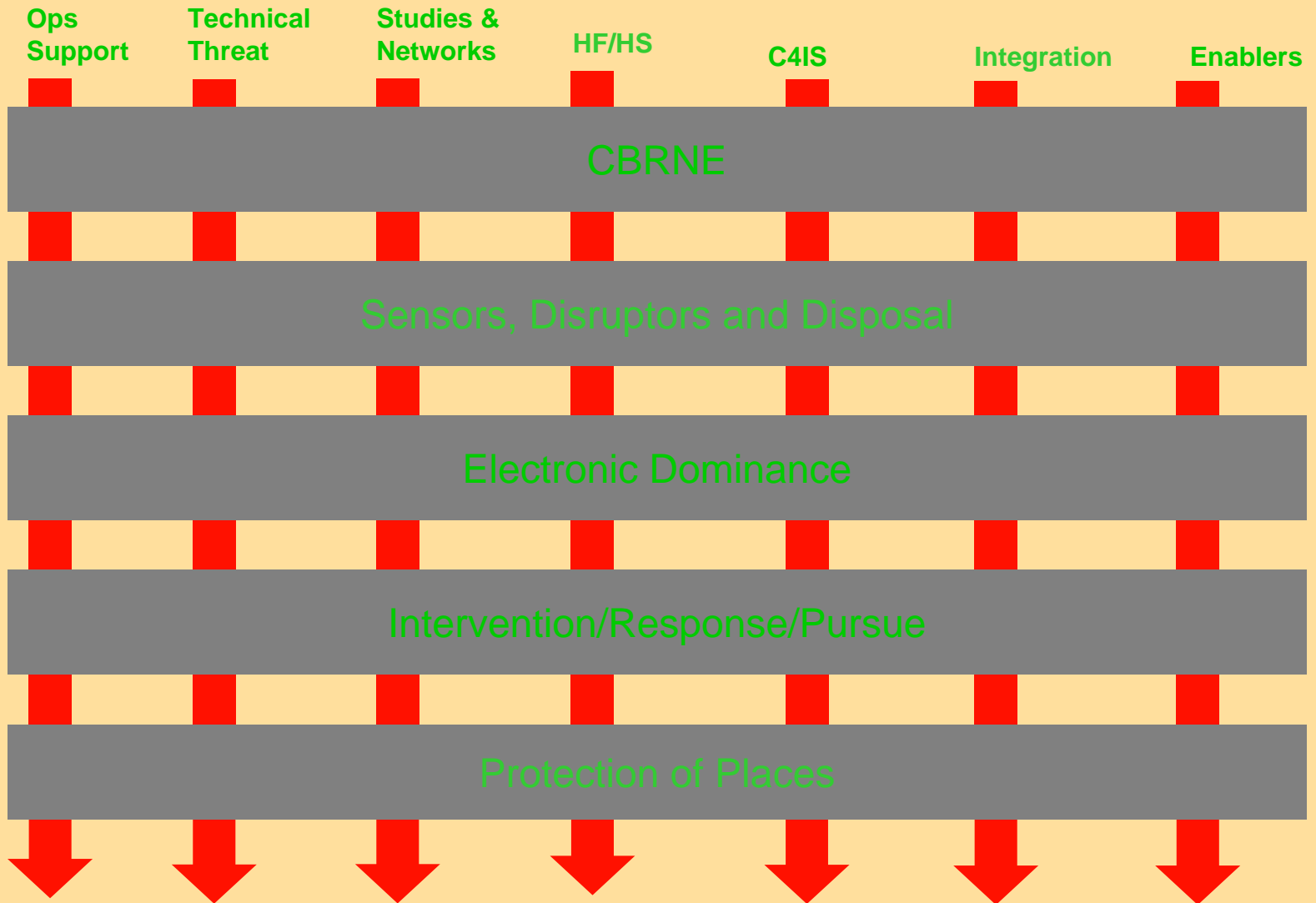


Oversight Board

Customers



*Capability Advisors



MOD Activities

- The Centre now manages the MOD Special Projects (SP) research programme. The Centre has been supporting the DEC in implementing the Defence Industrial Strategy through attending Board to Board meetings with key industrial suppliers.
- A review of the SP programme is in progress. This will ensure coherence across the Defence Lines of Development and support the Defence Industrial and Technology Strategies. Discussions with other research stakeholders which including the other DEC's and Research Acquisition Organisation (RAO) to identify relevant CT technology are continuing.

OGD Activities

- The Centre's staff are fully engaged in CONTEST cross departmental S&T initiatives including the Research Analysis and Development Working Group (RADWG), the cross departmental CBRN research programme and groups examining new and emerging explosive threats.
- Particularly good working relationships have been established with the Home Office, Joint Terrorism Analysis Centre, National Security Advice Centre, FCO and the Office of Science & Innovation, DTI and Department for Transport with other relationships developing.
- The Centre currently manages a number of CBRN research programmes in Dstl on behalf of the HO and is taking a key role in the co-ordination of work to provide capability against the emerging threat of Peroxide based explosives.
- Work with MOD is in progress to ensure coherence between a number of MOD & OGD research programmes prevent duplication of effort, ensure coherence & identify areas of potential burden sharing

Some Priority Topics

- countering (including; detection, defeat, protection etc.) improvised explosive devices
- network Enabled Capability (NEC) to support CT operations
- improved intelligence, surveillance, targeting & reconnaissance systems to support CT operations
- social network analysis and social science techniques and tools to support CT intelligence and social/behavioural modelling
- automatic identification of terrorists, terrorist groups, behaviours, activities and devices

CENTRE

The MOD Counter Terrorism Science & Technology Centre

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Seeing the Unseen

- [About the Centre](#)
- [Structure & Operation](#)
- [Capabilities](#)
- [Latest News](#)
- [Potential Suppliers](#)

The Ministry of Defence (MOD) Counter Terrorism Science and Technology Centre exists to respond to the increasing terrorist threats facing the UK and our Armed Forces.

The Centre acts as the hub for UK MOD Counter Terrorism (CT) Science and Technology (S&T) research. It facilitates innovation and problem solving, delivering rapid solutions to ensure that the best science underpins MOD's and more broadly, the Government's response to the threats posed by terrorism.

The Centre is actively seeking S&T collaboration with national and international partners, in academia, industry and government to work together in the global fight against terrorism.

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Pulling the Horizon Closer – The Challenge

- The S&T horizon may be considered as 10, 20 or even 50 years ahead and looking towards it is an 'essential' activity.
- The S&T advances made by nations during times of high intensity conflict (war) are often simply staggering in retrospect.
- E.g. incredible technical advances were made leading up to and during WWII.

Pulling the Horizon Closer – The Challenge

- We believe these innovators effectively **pulled the horizon closer**; some of these technologies deployed at the time of WWII were 10 or 20 years ahead of their time.
- The CAs in the Centre work as a team to identify solutions for rapid insertion after considering 'all lines of development'. Using Commercial Off The Shelf (COTS) solutions where they exist, or where they do not exist, working with S&T suppliers, CAs identify future technologies that can be pulled forward by devising inventive and innovative programmes.
- Low intensity conflicts (terrorism) require additional effort/motivation to ensure every one understands the true magnitude of the threat.

CT Innovation Fund

- As part of the formation of the Centre additional funds were made available to undertake innovative research on our most difficult counter-terrorism problems.
- These funds were made available from Sep 06. To date 23 contracts have been placed at a value of £2.5 million in FY 06/07 and totalling £2.75 million across FY 06/07 and FY 07/08 and this is expected to increase year on year.
- It has been necessary to place much of the work with Dstl during this first year but industrial and academic institutions are also now increasingly benefiting.
- The portfolio of projects covers a wide range of subjects including human sciences, including better understanding of the terrorist, sensors capable of detecting and identifying roadside bombs.
- The Centre is pulling together a team from government, industry and academia to develop improved tools and techniques to support intelligence applications of social network analysis. The project has engaged stakeholders from across government.

CT Innovation Fund Assessment Criteria

- Is it one of our most difficult/priority problems?
 - E.g. remotely detecting or locating improvised threats
- Is it inventive or innovative and high payoff?
- Is there likely to be cross-government interest?
- Will the proposal engage academia or a Small or Medium sized Enterprise (SMEs)?
- To submit proposals use the CTC Enquiries email address

Counter Terrorism Science and Technology Centre ... **a new way of doing business.**

Contact;

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Seeing the unseen