Ministry of Defence

UAS Test And Evaluation Capability Development – the UK way forward

September 2014

Background

- **UK Evaluation Capabilities treated like any other 'enabling capability'**
  - Capability Audit – suitability & sufficiency to deliver Departmental Outputs
  - Impact of investment / disinvestment plans balanced across Defence
- **UAS Evaluation Capability seen as a key issue**
  - Much evolving good practice
    - but capability fragmented with key 'elephants in the room'
    - Incoherent development – not incentivising re-use

Proposed Solution

- **Defence focus, but opportunities for dual use**
- **Strategy of coherence and re-use of best practice**
  - Both in Evaluation delivery, and Evaluation commissioning
- **Exploit and modify / adapt current UK Defence T&E assets wherever possible**
  - Pool existing funding streams to generate new capacity
- **Proposed coherence 'pilot' to develop concepts**
  - Established Key Success Criteria and 2-year timeframe
  - A genuine 'Experiment' to enable partnering behaviours

UAS CDC – Background and Remit

Provenance

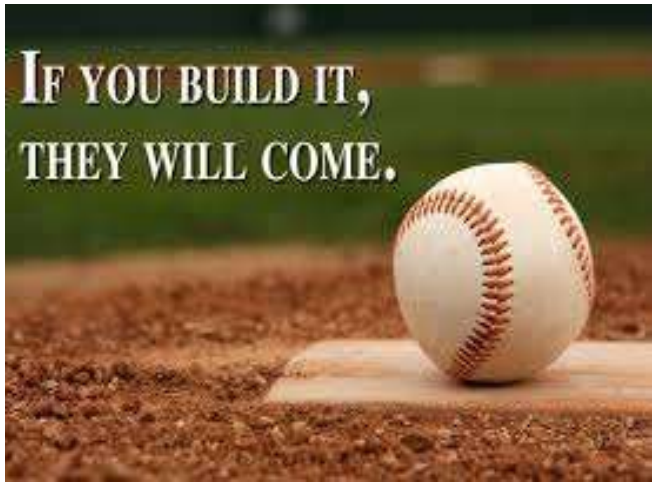
In 2012, the Pilot UAS 'Capability Development Centre' established
- Framework to test "value-add" to Defence.

Remit

"…*best solution from most appropriate resources…*
…deliver enhanced capability with expedience and subsequent knowledge management and sharing…"

Outcome (of pilot study)
- Working delivery model & 'legal' operating framework
- Broad Defence participation (& Governance)
- Model for Industry engagement
- In-period output validated by 1* SG

Enduring UAS CDC capability established in 2014



Picture credit: Universal Pictures

UAS CDC

UAS CDC – Essential Industry Engagement

In essence
UAS CDC Core Team (CT) do not know everything!

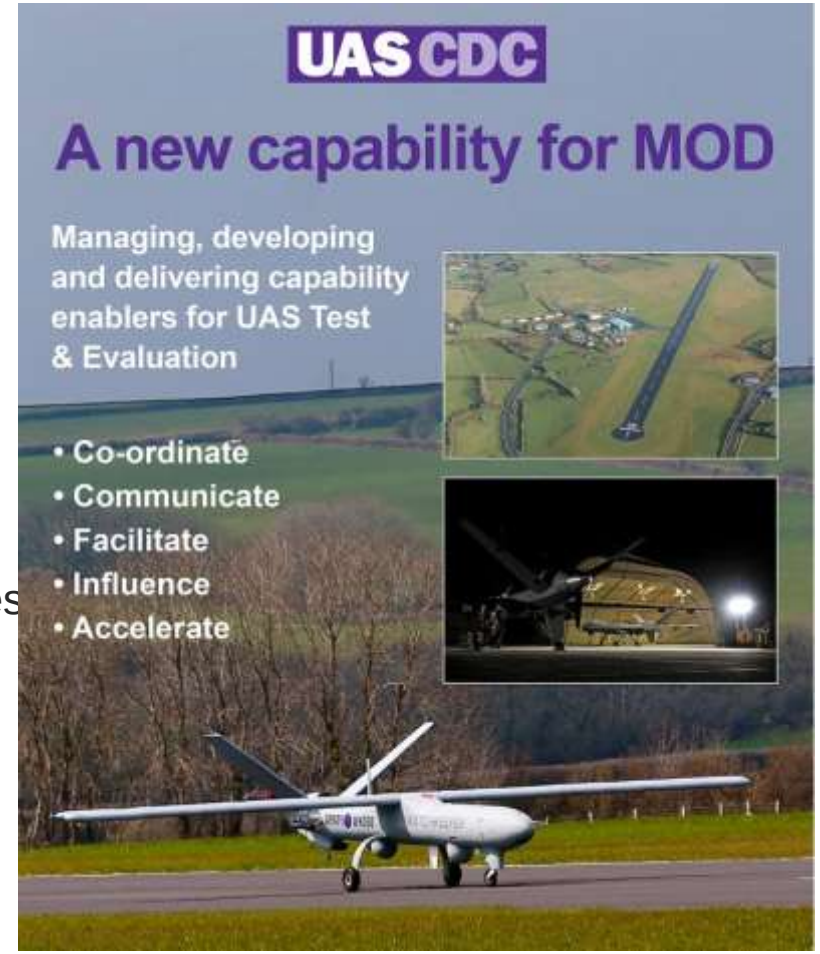
…but CT well placed to co-ordinate response to emergent enquiries / requirements

Expedient Industry Engagement
'Directed' or single-source contracting possible

Open Supplier Register (OSR)
- Suppliers (partners) provide indication of capabilities

CT able to search for 'compliant' suppliers for respective tasks

The basis for ALL industry engagement



UAS CDC

UAS CDC – Approach to Industry Engagement

Initial Engagement
Core Team via existing contacts

Defence referrals

Website launch & e-shots

DCB notices and follow up

Other symposia, etc

DSEI 2013
Concerted effort and overwhelming response

Industry Days
Evolving initiative to ensure timely information and advice on emergent issues/requirements

UAS CDC

UAS CDC – Industry Engagement to Date (snapshot)

Small UAS Operators' support to Defence trials
Several separate programmes supported (contracts let)

Industry Day held to engage/inform 20+ suppliers of intent

Lessons Identified (LI)
Industry facilitated LI within MOD DE&S community

Industry engaged to advise on subsequent Knowledge Management options

Informing Studies
Industry engaged to consider various topics inc. future T&E challenges, regulatory considerations, technology development to name but a few.

SQEP Support
Facilitation of Industry-provided SQEP to MOD programmes

UAS CDC

UAS CDC – how much work is there and who does it?

To date
80+ enquiries to date; 20+ tasks to date

Work 'Types'
e.g. SoR development, trials design and support, 'future thinking'/studies, development of new/best practice as pertain to T&E, etc….

No one definitive work type; broadly described within Evaluation considerations and benefit to Defence

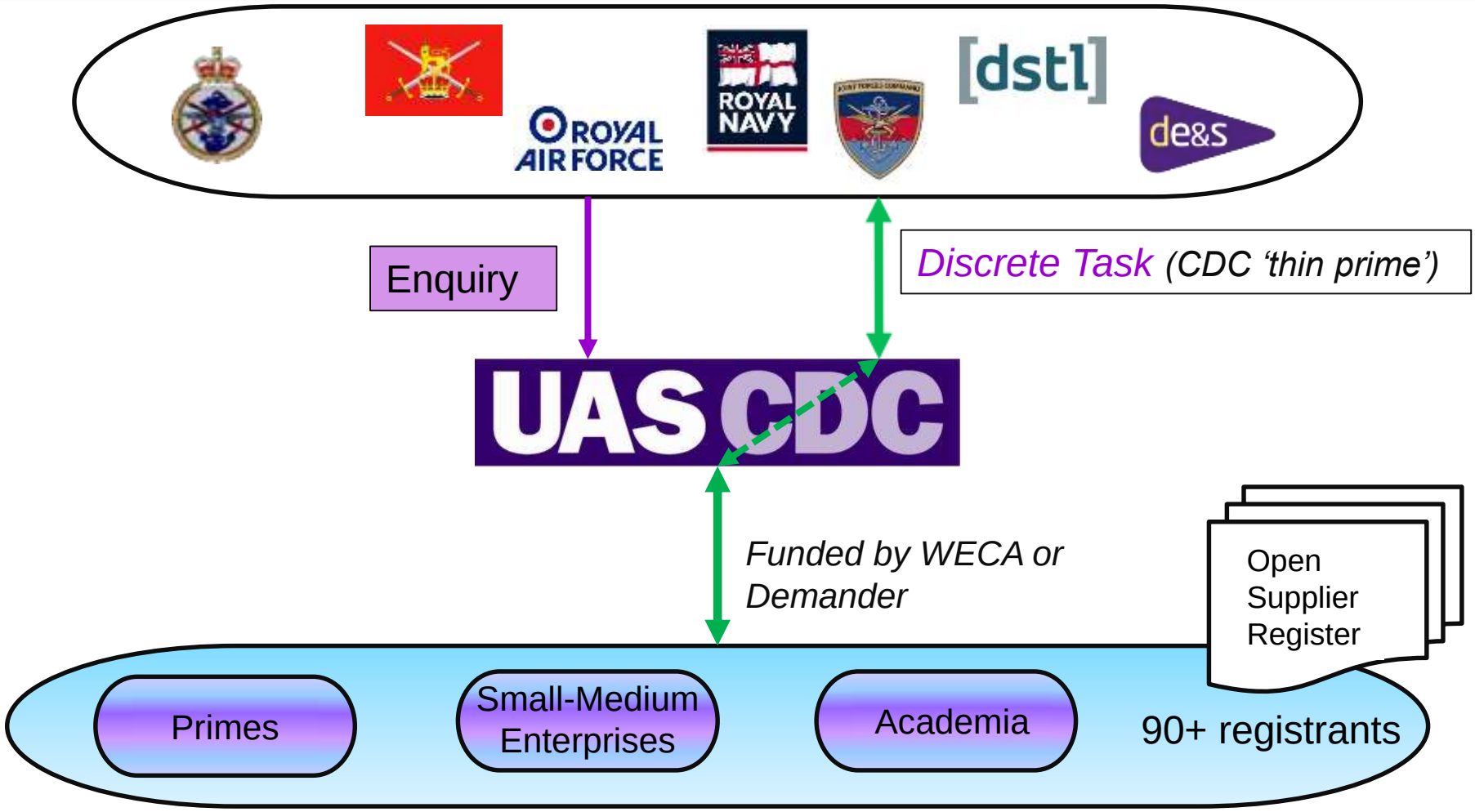
Is there funding?
The UAS CDC has 'in-year' funding to enable Industry support.

Funding prioritised against Pan-Defence Steering Group priorities to ensure best-value to Defence

Projects demanding increased/excessive effort must be funded by MOD demander.

UAS CDC

Enquiries and Taskings – discrete tasks



UAS CDC

UAS CDC – Facilitating Industry's engagement with Defence

Defence "Pull"
Already discussed responding to Defence needs.

Opportunity exists for the CDC to support Industry e.g. PV work, if:

"…demonstrable benefits to Defence can be achieved through the CDC's involvement…"

Industry "Push"
Programmes with no direct MOD involvement that could benefit from such e.g. access to people, process or assets.

E.g. R&D or Technology Demonstrators

Work with UAS CDC to derive demonstrable benefits, etc. for consideration by UAS CDC Management Board and/or 1* Steering Group

UAS CDC

UAS CDC – to infinity and beyond

Cross-Government RPAS Working Group
Key member, objective to ensure re-use where possible and coherence at all times

Industry Secondments to UAS CDC
Actively considering opportunities for Industry to play a greater role

Industry Days
Themes in development

Step-up in academia engagement

Ongoing 'organic' studies
Exploiting current capability; identifying future requirements

"Outreach" to MOD Departments
Floorplate time by UAS CDC team; supported ITEA planning

Industry Steering Panel
Reviews engagement / work placement; possible links to Defence Growth Partnership support.

UAS CDC