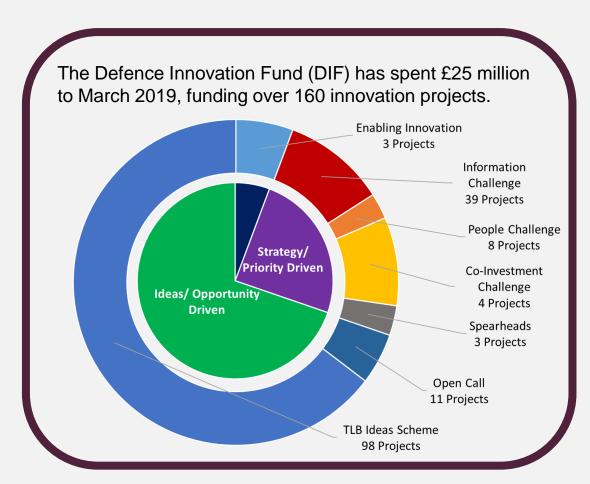


## The Defence Innovation Initiative

**VISION:** A Defence enterprise, that is innovative by instinct, where ideas are readily generated and exploited to deliver innovative solutions to Defence's challenges.

#### Since 2016:

- Launched the Defence Innovation Fund (DIF) around £800m over the next ten years
- Attracted nearly £6m investment from industry and nearly £12m from Top Level Budget areas in Defence
- Set up the external Defence Innovation Advisory Panel
- Built the Defence and Security Accelerator (DASA) to deliver services to defence and security customers
- Created the Defence Innovation Unit (DIU) to lead on innovation policy, strategy and coordination
- Launched the Spearheads portfolio
- Created innovation hubs in each of the Front Line Commands (FLCs) investing in innovation



SECRITY MARKING 2

## **Defence Innovation Outcomes**



- First truly portable, longspan rescue/assault bridge.
- 20x cheaper, 85% lighter and 80% more compact than standard infantry assault bridges



 Tested at sea by military users with the Navy's Innovation team (DARE).

 Potential save MOD £millions in reduced maintenance and improved scheduling

#### **Telemedicine for Operations**



- Our first data Telemedicine capability.
- Enhances: combat casualty care, medical evacuation triage and clinical preparedness of deployed medical teams.

# Since 2016 we invested over £100m in Innovation Projects – 5 examples



#### **BOZAL**

- Remotely monitor the location and environmental conditions of high value assets
- Potential to provide workplace efficiencies and prevent loss of costly assets



# 3

## MOD-DGP Capability Proving Challenge

#### **Aim**

- Test a new kind of relationship between MOD and its Industry Partners.
- Outcomes that support MOD and open markets overseas and adjacent sectors by design

SECRITY MARKING

## Defence Innovation Priorities

#### **Integrate Information and Physical Activity Across Domains**

 How can we integrate information and physical activity across domains (particularly Space and Cyber), and synchronise with wider Government to increase understanding and operational tempo?

#### **Delivering Agile Command and Control**

 How can we deliver agile Command and Control, to offer decisive advantage in complex operations?

#### **Operate and Deliver Effects in Contested Domains**

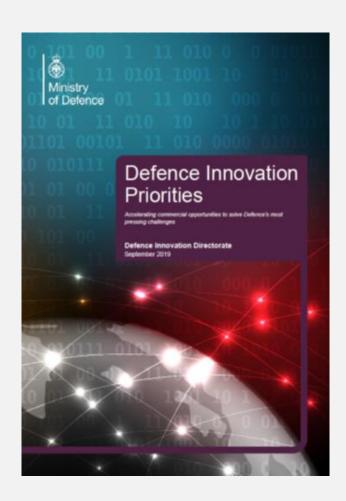
 How can we operate and deliver military outcomes in denied and contested domains?

#### Defence People - Skills, Knowledge and Experience

How can we access people with the right skills, knowledge and experience?

#### **Reflecting Future Battlespace Complexity**

• How do we reflect future battlespace complexity and higher levels of integration in training, wargaming and experimentation?



# How should you respond?

We think that other organisations are facing similar or related problems

- If you do face these problems and are willing to work with us, then we believe there is the potential for us to both gain:
  - Through sharing of our respective experiences, and implementing that learning; or
  - Through working jointly to find or create solutions that help us both.
  - So please talk to us, and we will explore this with you.
- If you already supply effective solutions to similar problems in the non-defence sector, please engage with us through DASA.
  - DASA will provide information about innovation challenges as we launch them.



## Talk to us!







**Visit:** The Innovation Hub

Search:
"Defence Innovation
Priorities" or "DASA" on
gov.uk

**Email:** info@innovation.mod.gov.uk

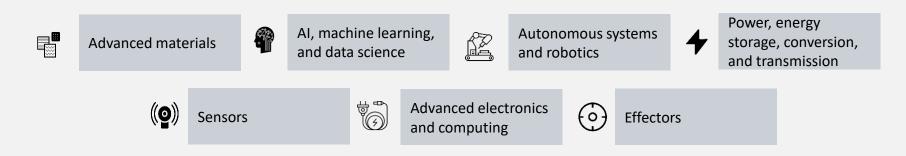


# The Technology Challenge...

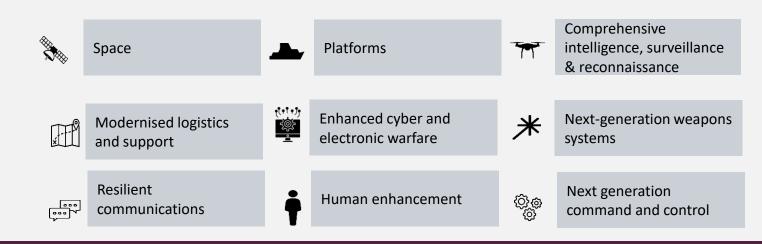
- This is a time of extraordinary and destabilising technological change
- The private sector is driving new and unexpected developments
- Adversaries are transforming their capabilities and warfighting
- Nations able to anticipate and exploit opportunities will stay ahead
- We must work together : government, industry, academia
- And we must do so coherently, affordably, and at pace



# The Defence Technology Framework Technology Families

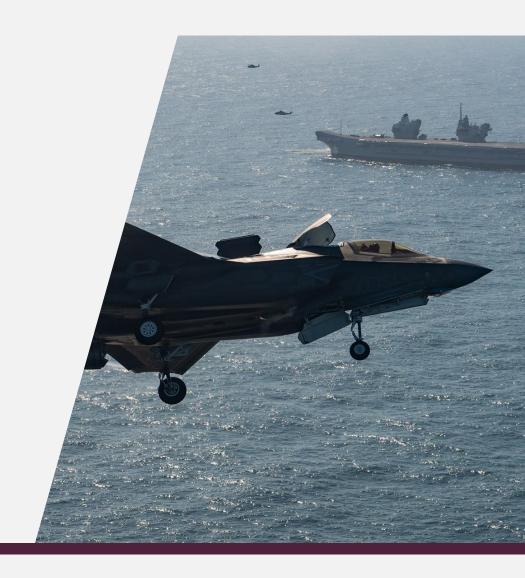


## **Application Areas**



# The Framework in practice...

- Understanding the art-of-the-possible ..... making it a reality
- Developing policies, doctrine, and procurement strategy
- Informing capability development
- Reshaping of our Core Research Programme
- Shaping our approach to prosperity



## Defence can't do this alone...

We must work together to exploit the next step-change in capability

to balance our in-house, external, and international approach

• to rapidly develop, industrialise, and support technologies and capabilities

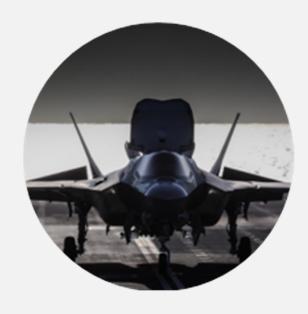
to protect technologies that underpin UK advantage

#### So...

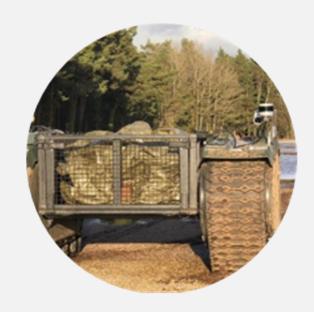
- we want to deepen our engagement with you...
- and give you the confidence to invest...
- ...so that we can all take advantage of the pace of change



## Talk to us!



Visit:
The Innovation Hub and Dstl
Stand



**Search:**DST gov.uk or "Defence
Technology Framework"



**Email:**DST-secretariat@mod.gov.uk