



# How to work with the Defence and Security Accelerator

Mike Madden – Lead Open Call for Innovation




# Outline

- context
- open and themed competitions
- setting up an account
- how to submit a proposal
- how we assess your proposals
- using our outreach team

# Context

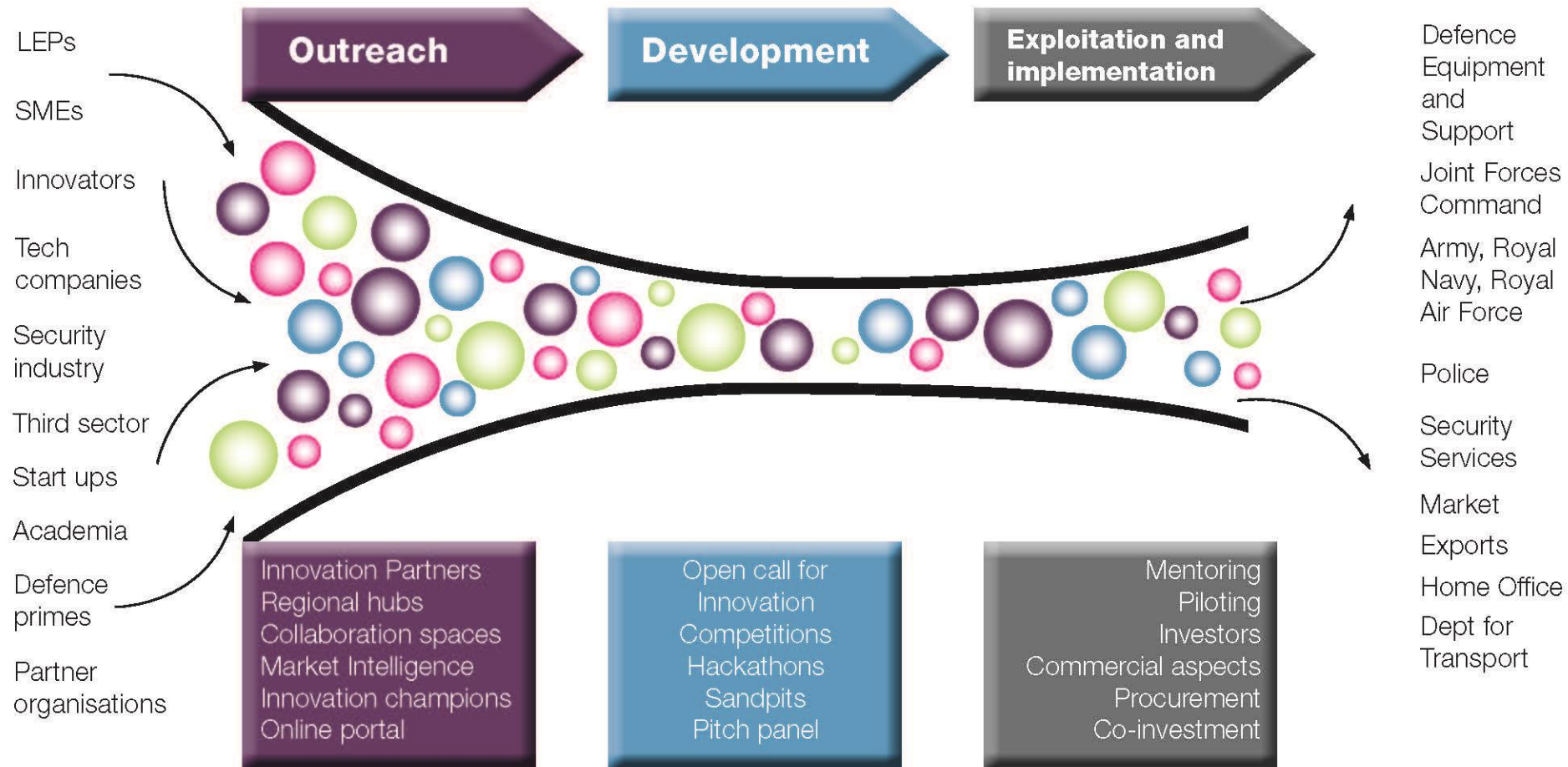


Defence and Security  
Accelerator

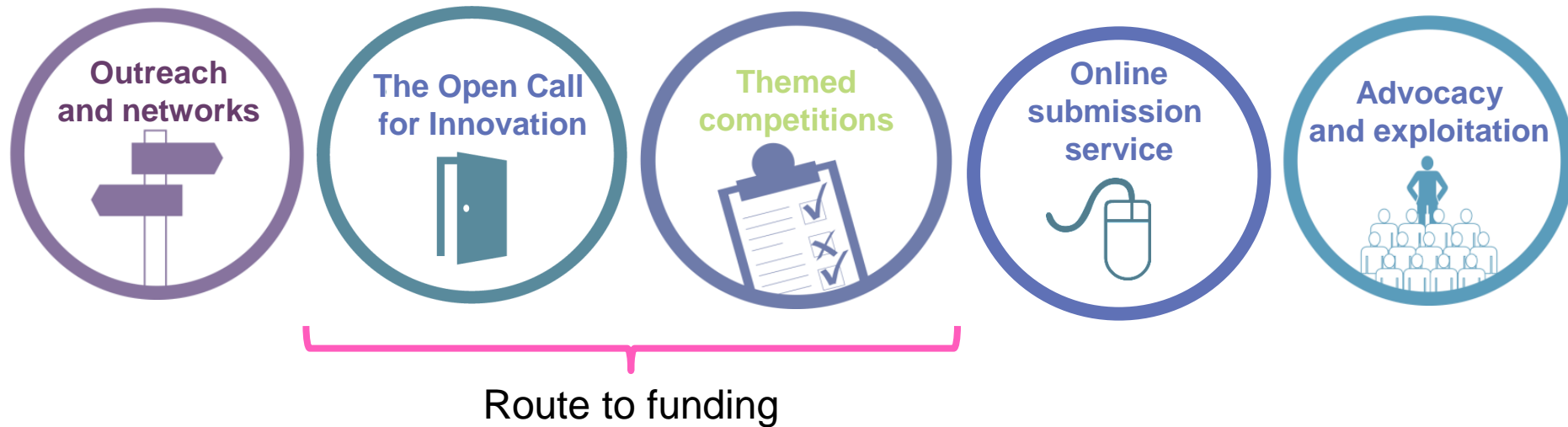
A photograph of two soldiers in modern military uniforms and berets walking through a modern, brightly lit hallway with a glass and metal structure. They are carrying rifles. In the background, other people are visible, including a woman in a white coat. The image has a teal color overlay.

**We find and fund exploitable innovations**  
which support the **defence and security** of the  
UK faster and more effectively, and seek to  
generate **economic value for the UK.**

# Accelerator operating model



# Core services



# What we are looking for



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Well formed and costed proposals, with clear benefits, deliverables, and relevance to customers and government stakeholders.

# Open and themed competitions



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# Themed competitions



The future of aviation  
security



Revolutionise the human  
machine relationship



Autonomy in hazardous  
scene assessment



Many drones make  
light work



Beyond battery  
power



Autonomous  
last mile resupply



Improving crowd  
resilience



Finding explosives in  
electrical items



# Themed competitions

- often include a number of **defined challenges**
- often multi-phased, with opportunities for a follow-on funding
- **customer sponsored** (technology pull)
- time and cost **bounded**
- the **competition document** is key

[Home](#)

Collection

# Defence and Security Accelerator funding competitions

Details of our current, future and past funding competitions.

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<https://www.gov.uk/guidance/defence-and-security-accelerator-how-your-proposal-is-assessed>

Published 8 December 2016

Last updated 24 January 2018 — [see all updates](#)

From: [Defence and Security Accelerator](#) and [Ministry of Defence](#)

## Current competitions

Details of themed competitions that are open now and the Accelerator's Enduring Challenge competition

### [Accelerator competition: finding explosives hidden in electrical items](#)

24 January 2018 Notice

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### [Defence and Security Accelerator \(DASA\) Open Call for Innovation](#)

24 January 2018 Notice

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### [Accelerator competition: regenerative medicine at the front line](#)

21 December 2017 Notice

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## Past competitions

Details of themed competitions that are now closed.

### [Accelerator competition: improving crowd resilience](#)

28 July 2017 Notice

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### [Accelerator competition: autonomous last mile resupply](#)

29 June 2017 Notice



# Open Call for Innovation

- open to **any ideas** from any suppliers
- not time bounded
- not sponsored (technology push)



# What the Open Call looks like

The Open Call is evolving

Split into 2 categories:

- emerging innovations
- rapid impact innovations

Defence **and** Security



# Emerging innovations

- development of **novel and disruptive** technologies of potential value to defence and/or security
- **wide span of ideas**, focusing on technologies currently at around **Technology Readiness Level (TRL) 2** and aiming to develop them to **TRL 3 or 4**
- duration of between 3 and 12 months
- cost of between £30,000 and £90,000 (defence) or up to £150,000 (security)



# Rapid impact innovations

- proposals must have realistic prospect of **achieving impact** within 3 years
- cost up to a total of £250,000 (defence) or £150,000 (security)
- pitch panel (defence)



# Setting up an account



Defence and Security  
Accelerator

# Setting up an account

## Submit your proposal to the Accelerator

The Defence and Security Accelerator funds proposals for proof-of-concept research. If you already have a product, you should speak to the [Defence Suppliers' Service](#).

New users should click the 'Start now' button below. It'll allow you to set up an account with us. You can then begin putting together your proposal for funding (or [if you've already registered sign in here](#)).

You'll be able to save your proposal and finish it later if you need to.

You can submit proposals for both our themed competitions and the enduring competition here and they'll be assessed before we decide if we'll fund or not.

You mustn't submit any classified information to the Accelerator. [Find out more about government security classifications](#).

**Start now** >



Or [sign in](#) if you already have an account.

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### Guidance

[Submitting your proposal](#)

[How your proposal is assessed](#)

[How we protect your IP \(intellectual property\)](#)

[Terms and conditions](#)

# How to submit a proposal



Defence and Security  
Accelerator

# Defence and Security Accelerator: how to submit a proposal

From:	Defence and Security Accelerator and Defence Science and Technology Laboratory
Part of:	Defence and Security Accelerator: submit your research proposal, Armed forces and Ministry of Defence reform, Scientific research and development, and Government funding programmes
Published:	8 December 2016
Last updated:	23 November 2017, <a href="#">see all updates</a>

Guidance on how to submit a research proposal to the Defence and Security Accelerator.

Contents

— [Get started](#)

— [Dashboard](#)

— [Submit a new proposal](#)

— [How long should a proposal be?](#)

— [After you submit a proposal](#)

The only way to submit a research proposal to the Defence and Security Accelerator is online.

<https://www.gov.uk/guidance/defence-and-security-accelerator-how-to-submit-a-proposal>

# How we assess your proposals



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# How we assess your proposals

- pre-sift
- assessors are chosen from across elements of defence
- multi-disciplinary assessment is key (users, sponsors, S&T, project and commercial staff, procurement)
- assessment time is limited

# Defence and Security Accelerator: how your proposal is assessed

From: Defence Science and Technology Laboratory and Defence and Security Accelerator

Part of: Defence and Security Accelerator: submit your research proposal and Armed forces and Ministry of Defence reform

Published: 8 December 2016

After you submit a proposal to the Defence and Security Accelerator, it'll be assessed by subject matter experts. This guidance explains how.

## Contents

- 1. Impact on defence and security
- 2. Likelihood of exploitation
- 3. Advancing important science and technology
- 4. Innovation and scientific quality
- 5. Technical challenge

The only way to submit a research proposal to the Defence and Security Accelerator is online.

<https://www.gov.uk/guidance/defence-and-security-accelerator-how-your-proposal-is-assessed>



# Assessment criteria

- A. **Impact** on defence and security
- B. Likelihood of **exploitation**
- C. **Advancing** important **science and technology**
- D. Innovation and scientific **quality**
- E. **Technical challenge**



# Using our outreach team



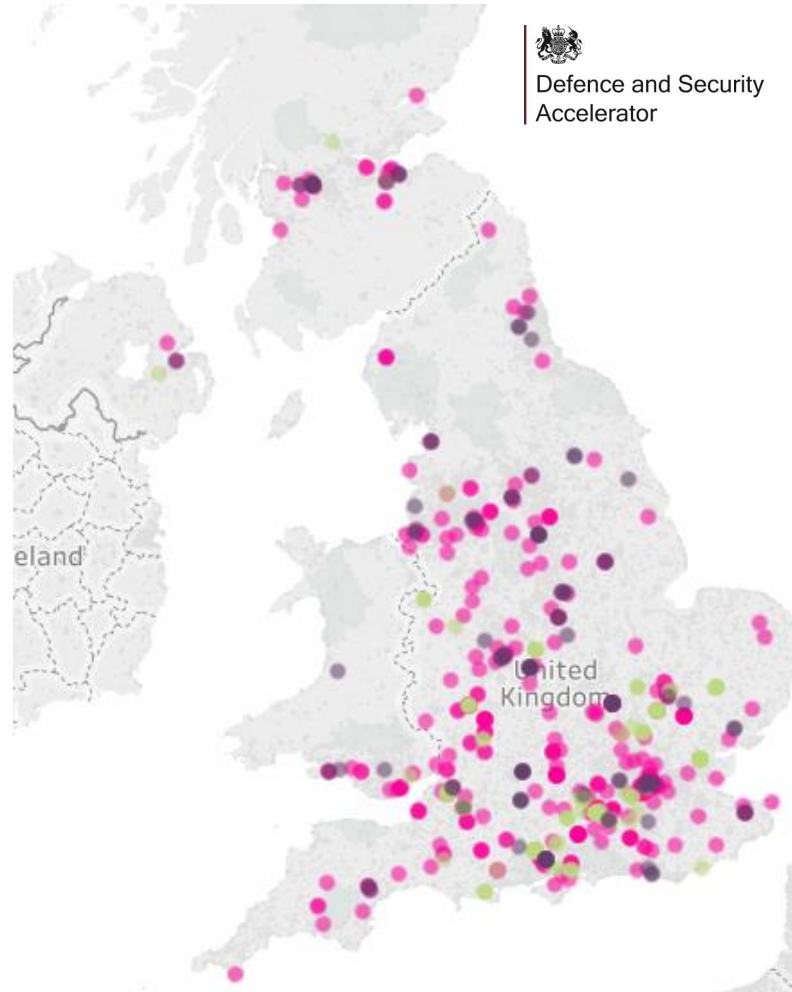
Defence and Security  
Accelerator



# Innovation Partner network

## 10 Innovation Partners for regional cover:

- South West
- South East, South London
- Central Southern – South Midlands
- London
- West Midlands, Wales
- East Midlands
- North Home Counties, East Anglia
- North West
- Scotland
- Northern Ireland





# In summary

- prepare your proposal using our off-line forms, available on request from [accelerator@dstl.gov.uk](mailto:accelerator@dstl.gov.uk)
- register an account on our submission service, once it is back on line
- prepare a proposal using the guidance in the Submission Service and on our website

<https://www.gov.uk/government/organisations/defence-and-security-accelerator>



# In summary - continued

- engage with our Innovation Partners, for advice and access to front line users
- contact us on [accelerator@dstl.gov.uk](mailto:accelerator@dstl.gov.uk)

# Contact us



Defence and Security  
Accelerator



[accelerator@dstl.gov.uk](mailto:accelerator@dstl.gov.uk)



01980 950000 option 3



Defence and Security Accelerator



[@DASAccelerator](https://twitter.com/DASAccelerator)



[Defence and Security Accelerator](#)



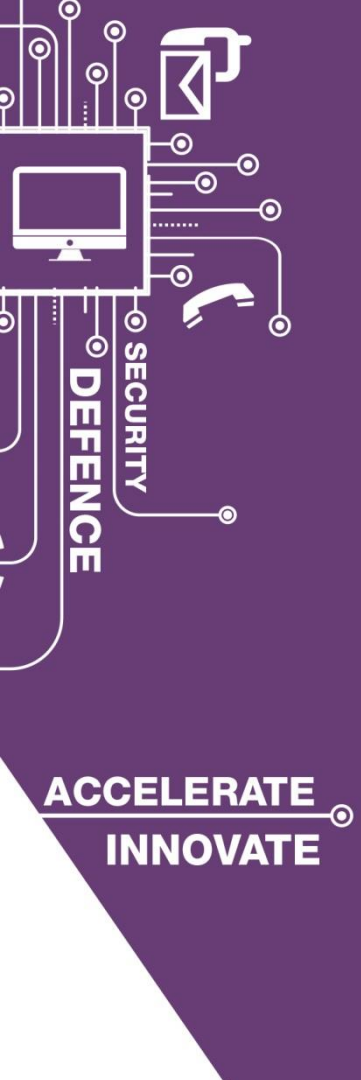
Any questions?



# Defence and Security Accelerator

## How to create a great proposal

Mike Madden— Lead Open Call for Innovation



**BETA** This is a new service – your [feedback](#) will help us to improve it.



Defence and Security  
Accelerator

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[How your proposal is assessed](#)

[How we protect your IP \(intellectual property\)](#)

[Terms and conditions](#)





## Defence and Security Accelerator

Part of [Defence Science and Technology Laboratory](#)

[Accelerator events](#)

[Submit a proposal](#)

[Accelerator funding competitions](#)

[Accelerator Enduring Challenge](#)

[Terms and conditions and contract guidance](#)



30 January 2017 — News story

### Accelerator Innovation Network Event

The Defence and Security Accelerator is holding an event in London on 23 February 2017 to provide information on the first Innovation Fund challenge



# Setting up an account

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# Submission to competition

Step 1 of 5

- 1** Competition
- 2 Summary
- 3 Innovation details
- 4 Finance and delivery schedule
- 5 Review and submit

## Competition

# Submission to competition

Step 2 of 5

1 Competition

**2 Summary**

3 Innovation details

4 Finance and delivery schedule

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## Summary

# Submission to competition

Step 3 of 5

1 Competition

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## Innovation details

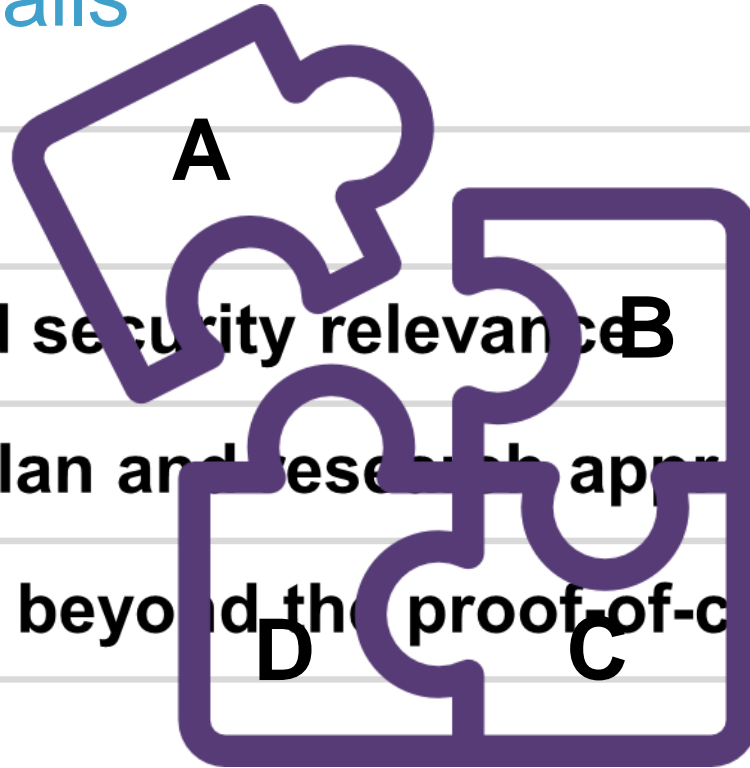
# Innovation details

**A. The idea**

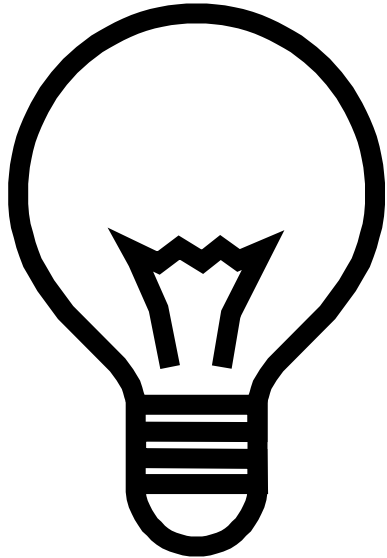
**B. Defence and security relevance**

**C. Your work plan and research approach**

**D. Exploitation beyond the proof-of-concept stage**



# Idea



## A. The idea



Describe your idea in detail. Tell us how it works and what it does. Take care to explain in what ways it's innovative.

► [What do I need to include?](#)

### Idea detail

**B** *I* U

This idea is based on the principle of radar. As you know radar is an object-detection system that uses radio waves to determine the range, angle, or velocity of objects. It can be used to detect aircraft, ships, spacecraft, guided missiles, motor vehicles, weather formations, and terrain. A radar transmits radio waves or microwaves that reflect from any object in their path. A receive radar, which is typically the same system as the transmit radar, receives and processes these reflected waves to determine properties of the object(s).

*Radar was secretly developed by several nations in the period before and during World War II. The term RADAR was*

[Disable rich-text](#)

Media uploads are limited to JPGs and PNGs. Please ensure your files are named in the way you refer to them in the text box.

## A. The idea



Describe your idea in detail. Tell us how it works and what it does. Take care to explain in what ways it's innovative.

### ▼ [What do I need to include?](#)

Please tell us (and where possible provide quantitative evidence and estimates):

- how your idea is genuinely innovative. Please reference current leading science and provide evidence of innovation
- exactly what it is and what it does
- how it works and the underlying scientific principles it references
- how it might work with existing systems and equipment
- whether it uses open architectures
- if it will need bespoke or off-the-shelf components
- how mature your innovation is. We use technology readiness levels (TRLs) to measure maturity. At this first phase, the funds innovation up to the proof of concept stage (TRL 4).  
Accelerator
- what the size, weight and power requirements might be

### Idea detail

**B** **☰** *I* **☰** U



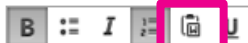
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Describe your idea in detail. Tell us how it works and what it does. Take care to explain in what ways it's innovative.

▶ [What do I need to include?](#)

### Idea detail



This idea is based on the principle of **radar**. As you know radar is an *object-detection system* that uses radio waves to determine the range, angle, or velocity of objects. It can be used to detect:

1. **aircraft**
2. **ships**
3. **spacecraft**
4. **guided missiles**

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Drag and drop files here

# Relevance



## B. Defence and security relevance

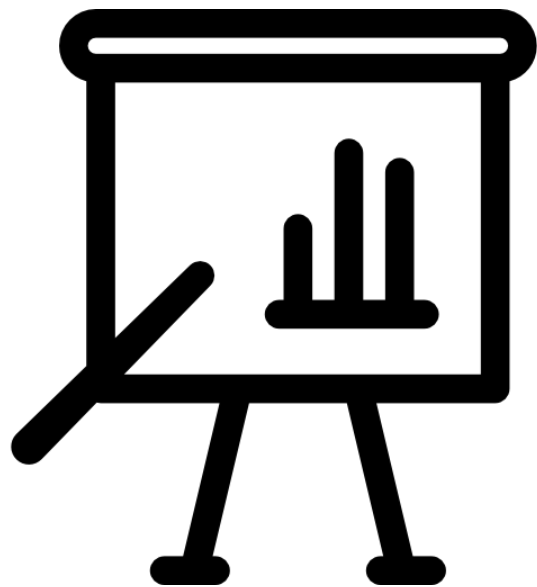
Please outline how you believe your idea will be of use in defence and security.

▶ [What do I need to include?](#)

### Defence and security relevance detail

**B** *I* U **☰** **☷** **☰** **☷** **↶** **↷** **x<sup>2</sup>** **x<sub>2</sub>** **📎** **I<sub>x</sub>** **Ω**

# Work plan



## C. Your work plan and research approach

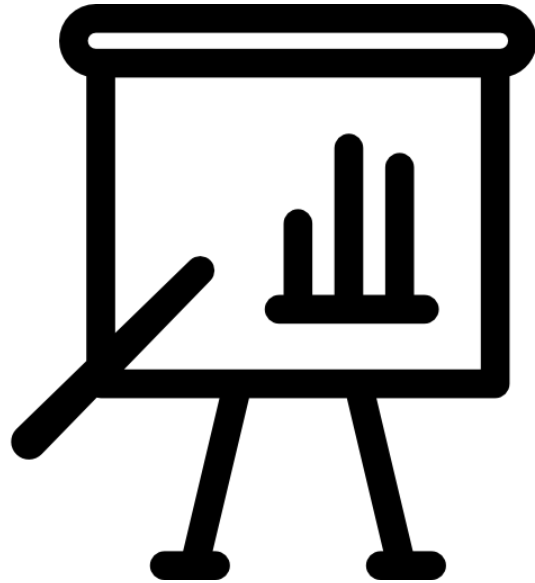
In this section we're looking for detailed information about what work will happen in the project. You should fully describe all the deliverables. We'd like to know how you plan to measure success and evaluate the project.

### ▶ What do I need to include?

Please tell us (and where possible provide quantitative evidence and estimates):

- what work you'll do in the project
- how you'll test your work and measure whether or not your research has succeeded (eg. what technologies)
- what the deliverables will be, and whether each will be as **full rights or full and limited rights**
- information about your relevant skills and experience, and those of any subcontractors
- if you (or your subcontractors) hold any special licenses required to do the work (eg. patents)
- if you own (or have access to) all the intellectual property you require

# Work plan



## C. Your work plan and research approach

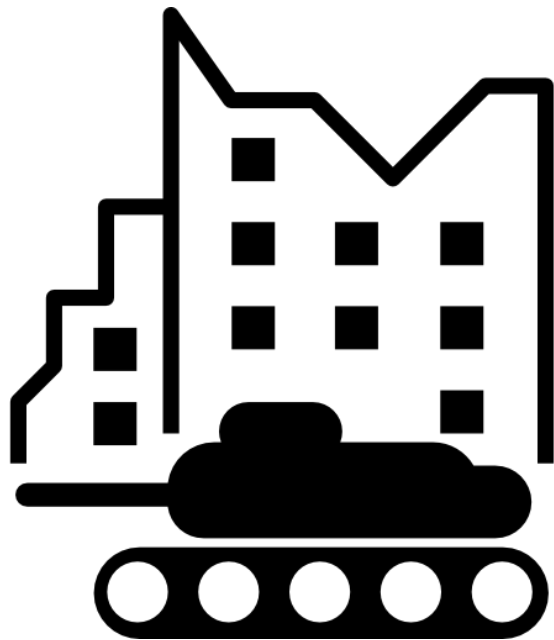
In this section we're looking for detailed information about what work will happen in the project. You should fully describe all the deliverables. We'd like to know how you plan to measure success at the end of the project.

### ▶ What do I need to include?

Please tell us (and where possible provide quantitative evidence and estimates):

- what work you'll do in the project
- how you'll test your work and measure whether or not your research has succeeded (e.g. what technologies)
- what the deliverables will be, and whether each will be as **full rights or full and limited rights**
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- if you own (or have access to) all the intellectual property you require

# Exploitation



## D. Exploitation beyond the proof-of-concept stage

How will you progress your work at the end of the project?

▼ [What do I need to include?](#)

Please tell us:

- how you'll get your project from a successful proof-of-concept stage to the next stage or commercially (eg a prototype tested in a relevant environment)
- who else you might need to collaborate with
- an estimate of how long it would take and how much it would cost to bring your innovation to market
- if you think your innovation might have uses outside of defence and security
- any risks to the project or the technology that could prevent you from being able to exploit it

Exploitation detail

# Submission to competition

Step 4 of 5

- 1 Competition
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## Finance and delivery schedule

# Submission to competition

Step 5 of 5

1 Competition

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5 Review and submit

## Review and submit

## Your draft proposals

### ▶ Fantastic Infra-Red Sensor Idea

Enduring competition - February 2016

Due date

Sections completed

26/01/2016

3/5

21 days left

Continue proposal

[Abandon draft](#)

### ▶ Fantastic Optical Imaging Idea

Competition yet to be selected

Due date

s completed

N/A

4/5

Continue proposal

[Abandon draft](#)

## Your completed proposals

### ▶ Fantastic radar Idea

AC 100024

Test competition 2

Submitted

Status

Next update

05/01/2016

SUBMITTED

14/12/2016

Assessment

Decision

Feedback

IP Deletion



# Proposal status

**SUBMITTED**

**IN ASSESSMENT**

**FUND**

**NO FUND**

# Watermarking

▼ **Review proposal submission**

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▶ Competition **Mike Madden** ✓

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▼ Summary ✓

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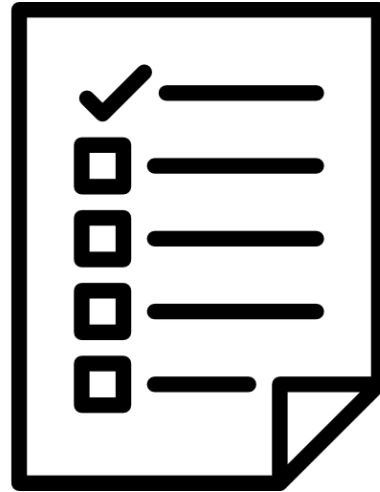
**Proposal title**  
Fantastic Infra-Red Sensor Idea

**Proposal abstract**  
Brief ddescription here

**Technology area**  
Human behavioural sciences **Mike Madden**

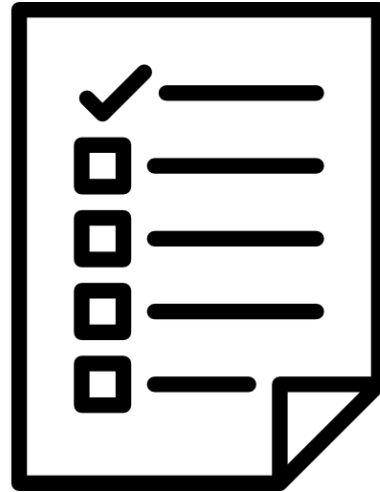
**Sub-technology area**  
Human resources research

# Assessment



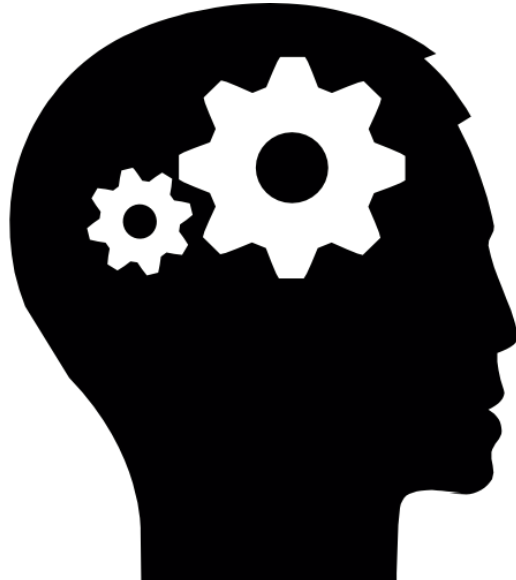
## B. Likelihood of exploitation security

# Assessment



## **0. Accelerating all the right innovation**

# Final reminders





# Contact us:



Defence and Security  
Accelerator



[accelerator@dstl.gov.uk](mailto:accelerator@dstl.gov.uk)



01980 950000 option 3



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[@DASAccelerator](https://twitter.com/DASAccelerator)



[Defence and Security Accelerator](https://www.linkedin.com/company/defence-and-security-accelerator)



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Accelerator



# Regenerative medicine at the front line

Innovation Network Event Bristol, 1 February 2018