HM Government

National Security Strategic Technology Areas of Interest

Summary

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Overview

This document summarises the strategic technology areas of interest for the UK national security stakeholders. Addressing these allows HMG's to fulfil its mission to keep the UK safe and prosperous, both now and in the future, leveraging technological and scientific advances and mitigating the counterbalancing threats they pose. The identified areas can be expected to change and evolve over time, in line with our priorities. This document is intended to promote a broader awareness of HMG's interests to attract and develop working relationships with venture capitalists and other experts.

Technology areas of interest

The community seeks new and emerging technologies with potential applications in the following areas:

1	Audio and Visual Processing	Technologies to enable the capture, recording and analysis of audio and visual data.
2	Commercial Space, Platforms and Robotics	Low cost of deployment technologies for transporting sensor payloads into challenging environments.
3	Computational Behavioural Analysis	Technologies to enable the automated inference of human behaviours at scale.
4	Cyber Security	Technologies to enhance and defend.
5	Data Analytics and A.I.	Technologies and tools for interactive data transformation and exploitation and to enable analysts to work more efficiently.
6	Financial Technologies	Technologies which enable the tracking of financial information.
7	Identity Technologies	Technologies that highlight or obscure identifying information about individuals and groups.
8	IOT and the Evolving Environment	Technologies that help understand the local environment or deliver a step change in infrastructure.
9	Novel Data Transport	Technologies to move data securely and without detection between geographical locations.
10	Sensors, novel materials and power sources	Technologies and novel manufacture to enable operations.
11	Quantum Technologies	Novel technologies and techniques, viable in commercially exploitable timescales.
12	Biological and Medical Technologies	Technologies and techniques with national security implications, including to detect, manage and mitigate biosecurity risks.