## **Clarification Questions & Answers**

## **Challenge: Rapidly Deployed Tech to Track Intruders**

Briefing Call Date: 29<sup>th</sup> November 2024

Date for publication of Q&As: 5<sup>th</sup> December 2024

Question	Answer
Is travel to specialist facilities / physical co-	Yes
creation spaces expected during the project?	
How many projects (£60k) will/can be funded	1
against this call?	
The title of the call refers to "tracking". Is this	Detection is more important.
meant, or is it just detection?	
Is there equal weighting for each of the 5	Yes
criteria?	
Would you prefer a new novel system/solution	Open to TRL 4 to 7 systems. Although
(Low TRL to start with, fully bespoke), or are you	we could be open to commercial-off-
hoping to utilise products already functional in	the-shelf (COTS) products, as long as
the market (rapid turnaround, less flexibility)?	they are innovative, novel and
	potentially able to be modified or
14d 11 d 11 TD1 11 C 11	adapted.
What is the minimum TRL you accept for this	4
competition?	
How long before it would be expected that the	Ideally within the order of months.
system would be fully complete as a final	
product?	Lin to 24 hours likely required
Do you have any steer on how long it needs to	Up to 24 hours likely required.
run without mains power?	Voc. but as part of the solution
Are RGB cameras allowed as part of the solution as well as additional sensors?	Yes, but as part of the solution.
How do you define intruder?	The system needs to detect the
now do you define intruder:	presence of a person but does not
	have to distinguish between
	authorised and un-authorised people.
Is there any size specification requirement for	Airline carry-on cabin bag size
portability?	preferred per unit.
Is the size of the facility from 1 room up to a	Aim for a system to cover the size of a
building or site / what's the range of sizing?	small one-bedroom flat, say around a
	50m squared space per system.
Is there a response time specified for detecting a	Ideally within a second. But the key is
person?	the ability to detect an intruder, and
·	have confidence that it is not a false
	alarm, or for the system to be
	tampered with.

Is there a target reference development of classification of the solution(s)?	OFFICIAL (i.e. Open)
Should we assume that the system should not record activity outside the protected space to avoid violating local privacy laws?	It could detect perimeter activity, however, it doesn't have to identify people. The key is to protect the defined space. Anything outside the space is a "Could" but not a requirement.
You mentioned detection of animals etc., are spaces likely to include external areas as well?	The primary focus is internal areas.  Monitoring external areas would be useful but this is a secondary capability.
Are UAVs/UGVs with sensors and software from other collaborators of interest?	No
Will non-UK companies be considered?	Yes
Any steer on the distance / connectivity requirements for remote monitoring?	Systems that are restricted to communication over short distances will be considered as long as they can be integrated with other longer range methods.
You mentioned the API, how important is the Dstl SAPIENT protocol for connecting sensors together and to a central node?	Not required.
How much of the wider system OPSEC needs to be solved for, i.e. that the local sensors may be compromised by an adversary, and risk the central operation where sensor data is sent on to?	This is not a consideration for this challenge.
£60k seems low for the development of a minimum viable product (MVP) from a concept or idea, you must be expecting a lot of background IP to be brought to bear here?	We are seeking a MVP to address the key requirements as far as possible.
Should a platform support more basic sensors in the future, or would this be handled by integrating with conventional IDS?	If it can that would be good but not a requirement
Will slides be shared prior to submission deadline?	No. However, these Questions and Answers are available.
What is the wider opportunity - are you expecting there be follow on development phases?	There is the possibility for follow-on phases.
Can you outline what level of engagement you are looking for to engage with us on the project (e.g. Product Owner daily/sprint ceremonies/less frequently, HMGCC PMs etc)?	Expected to work as 3 Sprints of 4 weeks duration. Initial Kick-Off and Sprint Review meetings with HMGCC team expected to be face-to-face. Additional mid-Sprint virtual meetings likely. However, we are flexible and

	will agree the meeting cadence with the successful Solution Provider.
When it comes to user interface, is using a	The system does need to integrate
licensed cloud to push notification to a user	within some form of notification. The
phone app within the requirements?	main requirement would be needing
	the API to allow this to push
	notifications.
Are there any requirements for regulatory or	Whilst not essential for the MVP, the
safety certification?	product would need to pass CE testing
	(and equivalent).
Are there any transmission frequencies we	An ISM band or a band that could be
should avoid?	licensed is required. Ability to use
	overseas needs to be considered.
Do we have a list of test criteria so that if anyone	Not at this stage, a later concern.
wins the bid they know how the system will be	
qualified?	
Should it be ruggedized to prevent physical	Not required but it should have an
attacks?	anti-tamper capability.
Should it be small enough to hide?	Not required.
Is there a maximum consortium size?	No
Could you clarify why conventional cameras and	What we were trying to avoid are
PIR sensors are out of scope, or why they are	products that we could easily purchase
considered to not provide the necessary	and deploy ourselves. We already
performance please? There are now AI-enabled	have a number of systems that are
human-detection functions on commercially	based on these types of technologies,
available security cameras which could in	and the purpose of this challenge was
principle solve the problem, but you have clearly	to "think outside the box" with more
discounted this. We're interest to know why?	novel approaches.
Could you dowift what is defined as "could"	TDL 4 on a mainiman ma
Could you clarify what is defined as "novel"	TRL 4 as a minimum.
sensors? Is this just non-traditional sensors, but	Regarding "Novel", we are looking for products that are not commonly
technically mature ones? Or are you seeking genuinely novel sensors? Could you also provide	•
, , ,	available or deployed solutions –
an entry TRL for solutions you're looking for?	ideally not something that we could
	buy off the shelf.