[dstl]   **S Serapis Framework**

Serapis Tasking Form

Tasking Form Part 1: *(to be completed by the Authority's Project Manager)*

To:	Lot 6 Frazer-Nash Consultancy Ltd	From:	The Authority

Any Task placed as a result of your quotation will be subject to the Terms and Conditions of Framework Agreement Number: LOT 6 DSTL/AGR/SERAPIS/UND/01

VERSION CONTROL
2

REQUIREMENT

Proposal Required by:	[06/08/2021]	**Task ID Number:**	[U47]
The Authority Project Manager:	[REDACTED UNDER FOIA EXEMPTION]	**The Authority Technical Point of Contact:**	[REDACTED UNDER FOIA EXEMPTION]
Task Title:	[REDACTED UNDER FOIA EXEMPTION]		
Required Start Date:	[16/08/2021]	**Required End Date:**	[30/11/2021]
Requisition No:	[1000166626	**Budget Range**	85k inc. FNC fee.

TASK DESCRIPTION AND SPECIFICATION

Serapis Framework Lot	☐ Lot 1: Collect ☐ Lot 2: Space systems ☐ Lot 3: Decide ☐ Lot 4: Assured information infrastructure ☐ Lot 5: Synthetic environment and simulation ☒ Lot 6: Understand

Statement of Requirements (SOR)
Image segmentation - the classification of pixels in an image as belonging to a certain class - is a deep-learning-based technique important for such technologies as autonomous vehicles (where multiple objects and their locations must be identified). Image segmentation can be split into two types: semantic segmentation classifies all pixels in an image as belonging to a certain class, and can produce a mask highlighting these areas; and instance segmentation classifies instances of a class separately (for example, cars on the road may be classified as car1, car2, etc.).

Due to the increasing use of autonomy technologies in both self-driving cars and other autonomous systems, it is important that the vulnerabilities of the underlying Deep Neural Network (DNN) algorithms to adversarial attacks are well understood. Attacks against standard image classification DNNs have been well-studied (see, e.g., Foolbox1), but there are far fewer studies of image segmentation attacks2.

[REDACTED UNDER FOIA EXEMPTION]

Procurement Strategy

☒ Lot Lead to recommend   ☐Single Source / Direct Award

Pricing:

☒ Firm Pricing ☐ Ascertained Costs* ☐ Other*

Firm Pricing shall be in accordance with DEFCON 127 and DEFCON 643

Ascertained Costs shall be in accordance with DEFCON 653 or DEFCON 802.

*only at Authority's discretion

Task IP Conditions

Task IP Conditions (Follow the NIPPY guide to identify your information and IP requirements for each deliverable)	**Summary of the Authority's rights in foreground IP (IP generated by the supplier in performance of the contract)**
DEFCON 703 ☐	Vests ownership with the Authority
DEFCON 705 Full Rights ☒	Enables MOD to share in confidence as GFI or IRC under certain types of agreements. Can be shared in confidence within UK Government.
OTHER IP DEFCONS: 14* ☐, 15* ☐, 16* ☐, 90* ☐, 91* ☐, 126* ☐	Generally only suitable for deliverables at TRL 6 and above.
BESPOKE IP Clause ☐ *	Details to be added and agreed by IP Group

* Do not use without IPG advice and approval

Please state in this text box if MOD or the customer has a requirement a) that one or more Other Government Departments is able to share confidentially with their own suppliers, b) to publish but you do not think there is a requirement to own or control the deliverable, or c) to share under a procurement* Memorandum of Understanding (MOU).

If any of these three issues applies, please contact IPG for advice before completing this form. *Listing research MOUs is not required, but can be a helpful courtesy to the supplier.

DELIVERABLES

Ref	Title	Due by	Format	TRL	Expected classification (subject to change)	Information required in deliverable	IPR DEFCON
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]

DELIVERABLE: ACCEPTANCE / REJECTION CRITERIA

Unless otherwise stated below, Standard Deliverable Acceptance / Rejection applies. This is 30 business days, in accordance with DEFCON 524 Rejection, and DEFCON 525 Acceptance.

Standard Deliverable Acceptance / Rejection:-

Yes ☒ (DEFCON 524 Rejection, and DEFCON 525 Acceptance)

No ☐ (if no, please state details of applicable criteria below)

Deliverable Acceptance / Rejection Criteria:-

If there are any other specific acceptance/rejection criteria you would like to apply to any of the deliverables, please state them here.

Government Furnished Assets (GFA)

ISSUE OF EQUIPMENT/RESOURCES/INFORMATION/FACILITIES (*if not applicable, delete table and insert "None" in this text box*)

Unique Identifier/ Serial No	Description	Classification	Type	Available Date	Issued by	Return or Disposal Date	Any restrictions?
Serial no	*Description*	*Official-Sensitive*	*Equipment*	*00/00/0000*	*Issuer*	*00/00/0000*	*Include details here*

QUALITY STANDARDS

☐ **ISO9001** (Quality Management Systems)

☐ **ISO14001** (Environment Management Systems)

☐ **ISO12207** (Systems and software engineering — software life cycle)

☐ **TickITPlus** (Integrated approach to software and IT development)

☐ **Other:** (Please specify in free text below)

SECURITY CLASSIFICATION OF THE WORK

The highest classification of this SOR
OFFICIAL ☒ OFFICIAL-SENSITIVE ☐ SECRET ☐ TOP SECRET ☐ STRAP ☐ SAP ☐

The highest expected classification of the work carried out by the contractor
OFFICIAL ☒ OFFICIAL-SENSITIVE ☐ SECRET ☐ TOP SECRET ☐ STRAP ☐ SAP ☐

The highest expected classification of Deliverables/Output
OFFICIAL ☒ OFFICIAL-SENSITIVE ☐ SECRET ☐ TOP SECRET ☐ STRAP ☐ SAP ☐

Is a Security Aspects Letter (SAL) required? *(A Security Aspects Letter (SAL) will be required for each Task above Official-Sensitive and above)*

Yes ☐ No ☒

TASK CYBER RISK ASSESSMENT. *(In accordance with* DEF STAN 05-138 *and the* Risk Assessment Workflow*)*

Cyber Risk Level	Very Low
Risk Assessment Reference	989409639

ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO THIS CONTRACT

Please ensure all completed forms are copied to DSTLSERAPIS@dstl.gov.uk when sending to the Lot Lead.

Tasking Form Part 2: *(To be completed by the Lot Lead)*

To:	The Authority	From:	The Lot Lead

Proposal Reference	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]

Delivery of the requirement:

 The proposal <u>shall</u> include, but not be limited to:

- A full technical proposal that meets the individual activities that are detailed in Statement of Requirements (Part 1 to Tasking Form).
- Breakdown of individual Deliverables, with corresponding Intellectual Property rights applied.
- Breakdown of Interim Milestone Payments, with corresponding due dates.
- A work breakdown structure/project plan with key dates and deliverables identified.
- A list of required Government Furnished Assets from the Authority, including required delivery dates.
- A clear identification of Dependencies, Assumptions, Risks and Exclusions which underpin your Technical Proposal.
- Sub-Contractors Personnel Particulars Research Worker Form and security clearances (if applicable)

PRICE BREAKDOWN

You are to use the costs detailed in Item 2 Table I in the Schedule of Requirement and at Annex E Table 2 of the Serapis Framework Agreement. Please also provide a price breakdown which should include, but is not limited to: Lot Lead Rates, Sub-contractors costs and rates, travel and subsistence. In support of your Proposal you are requested to provide clear details of all Dependencies, Assumptions, Risks and Exclusions that underpin your price.

Offer of Contract: *(to be completed and signed by the Contractor's Commercial or Contract Manager)*

Total Proposal Price in £	£81,909.45		(ex VAT)
Start Date:	01/09/2021	**End Date:**	**04/02/2022**
Lot Leads Representative	Name	[REDACTED UNDER FOIA EXEMPTION]	
	Tel	[REDACTED UNDER FOIA EXEMPTION]	
	Email	[REDACTED UNDER FOIA EXEMPTION]	
	Date	[REDACTED UNDER FOIA EXEMPTION]	
Position in Company	[REDACTED UNDER FOIA EXEMPTION]		
Signature	[REDACTED UNDER FOIA EXEMPTION]		

Core Work – Breakdown

Lot Lead Rates for Task Management Services (TMS) *Please insert/delete rows as necessary*							
Team Member Name	**Role**	**Activity Type**	**Rate (£)**	**Total Hours**	**LMS recovery per role per hour** ('d' element)	**Total LMS recovery due (£)** ('d' x total hours)	Total TMS Cost (£) (Rate x total hours)
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]

[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
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[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]				[REDACTED UNDER FOIA EXEMPTION]		[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]

Work Delivered by Sub-Contractor(s)

We recognise that suppliers may fit into multiple categories, please choose the drop down that categorises the supplier by the definition that is lowest on the list (i.e. a Defence Supplier Academic would be treated as an Academic.

Please insert/delete rows as necessary

Name of Sub-Contractor	Supplier Type	Activity Description	Rate (£)	Total Hours	Total Cost (£)
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]				[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]

Travel, Subsistence, Materials & Equipment					
Please insert/delete rows as necessary					
Supplier Name	**Spend Type**	**Description / Rationale**	**Unit Cost (£)**	**Qty**	**Total Cost (£)**
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]					[REDACTED UNDER FOIA EXEMPTION]

Core Work – Milestone breakdown costs

Proposed Milestones Payments

Your TMS bid costs shall be included in milestone 1.

The final Milestone must reflect the actual cost of the deliverable, and be greater than 20% of the Task value, unless otherwise agreed with your Commercial POC

Please duplicate the template per milestone table format below as necessary, and rename milestone number accordingly.

Milestone M1

Description	TMS cost (£)	Self-Delivery cost (£)	Sub-contractor cost (£)	Total milestone cost (£)	Milestone due date	DEFCON
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]				[REDACTED UNDER FOIA EXEMPTION]		
[REDACTED UNDER FOIA EXEMPTION]				[REDACTED UNDER FOIA EXEMPTION]		[REDACTED UNDER FOIA EXEMPTION]
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]		[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]		

Milestone M2

Description	TMS cost (£)	Self-Delivery cost (£)	Sub-contractor cost (£)	Total milestone cost (£)	Milestone due date	DEFCON
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]		
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]		
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]		N/A
Milestone LMS recovery (£)	REDACTED UNDER FOIA EXEMPTION]		Total cost	[REDACTED UNDER FOIA EXEMPTION]		

Milestone M3

Description	TMS cost (£)	Self-Delivery cost (£)	Sub-contractor cost (£)	Total milestone cost (£)	Milestone due date	DEFCON
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	705
[REDACTED UNDER FOIA EXEMPTION]				[REDACTED UNDER FOIA EXEMPTION]		
[REDACTED UNDER FOIA EXEMPTION]				[REDACTED UNDER FOIA EXEMPTION]		N/A
[REDACTED UNDER FOIA EXEMPTION]						

Description	TMS cost (£)		Total cost	[REDACTED UNDER FOIA EXEMPTION]		
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]		Total cost	[REDACTED UNDER FOIA EXEMPTION]		

Milestone M4

Description	TMS cost (£)	Self-Delivery cost (£)	Sub-contractor cost (£)	Total milestone cost (£)	Milestone due date	DEFCON
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]	705
[REDACTED UNDER FOIA EXEMPTION]				[REDACTED UNDER FOIA EXEMPTION]		
[REDACTED UNDER FOIA EXEMPTION]				[REDACTED UNDER FOIA EXEMPTION]		N/A
[REDACTED UNDER FOIA EXEMPTION]						
[REDACTED UNDER FOIA EXEMPTION]	[REDACTED UNDER FOIA EXEMPTION]		Total cost	[REDACTED UNDER FOIA EXEMPTION]		
Total LMS (All Milestones)	[REDACTED UNDER FOIA EXEMPTION]	**Total Cost (All Milestones)**		[REDACTED UNDER FOIA EXEMPTION]		

Tasking Form Part 3:

To be completed by the Authority's Commercial Officer and copied to the Authority's Project Manager.

1. **Acceptance of Contract:**		
Authority's Commercial Officer	Name	[REDACTED UNDER FOIA EXEMPTION]
	Tel	[REDACTED UNDER FOIA EXEMPTION]
	Email	[REDACTED UNDER FOIA EXEMPTION]
	Date	[REDACTED UNDER FOIA EXEMPTION]
Requisition Number		[REDACTED UNDER FOIA EXEMPTION]
Contractor's Proposal Number		[REDACTED UNDER FOIA EXEMPTION]
Purchase Order Number		[REDACTED UNDER FOIA EXEMPTION]
Signature		[REDACTED UNDER FOIA EXEMPTION]
Please Note: Task authorisation to be issued by the Authority's Commercial Officer or Contract Manager. Any work carried out prior to authorisation is at the Contractor's own risk.		