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Contract

## **ETM Incursion Warning Radar System – Prototype Development**

National Highways

UK7: Contract details notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-068927

Procurement identifier (OCID): ocds-h6vhtk-05a621 ([view related notices](#))

Published 28 October 2025, 12:25pm

### **Scope**

### **Reference**

SONA692 (pro\_21896)

### **Description**

National Highways Traffic Officers when responding and dealing with incidents on the SRN often have to deploy temporary emergency traffic management (ETM) to create a 'safety buffer zone'. This safety zone is crucial to the safety and well-being of operatives and road-users. Where ETM has been deployed, there has been reported incidents of breaches (i.e. incursions) by motorists that has resulted in near misses, injuries and in some cases the successful prosecution of motorists.

A prototype system owned by Race Technology Limited is to be trialled in a live environment to enable the development of both an algorithm to enhance software that predicts vehicle movements and for the further development of a radar and a handheld device so that the system operates as intended.

A direct award under the Procurement Act 2023 is permissible under Direct award for prototypes (Procurement Act 2023 Schedule 5, para 2)

Direct award for prototypes (PA 23 Sched 5, para 2)

o for the production of a prototype, or supply of other novel goods or services, for the purpose of—

(a) testing the suitability of the goods or services,

(b) researching the viability of producing or supplying the goods or services at scale and developing them for that purpose, or

(c) other research, experiment, study or development

o Doesn't have to be for the benefit of the public.

Further development is required of the prototype system to finesse the system based upon findings and feedback from on-road trials, specifically on parts of the Strategic Road Network (SRN), targeting tunnels and hard to access areas that could impede signal accuracy or require other algorithm refinements. These trials and the data acquired will be used to provide firmware, software and hardware updates to an existing prototype system.

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## **Contract 1. ETM Incursion Warning Radar System – Prototype Development.**

### **Supplier**

- Race Technology Limited

### **Contract value**

- £381,000 excluding VAT
- £457,200 including VAT

Above the relevant threshold

### **Date signed**

22 October 2025

### **Contract dates**

- 22 October 2025 to 31 March 2026
- 5 months, 10 days

### **Main procurement category**

Services

### **CPV classifications**

- 35113000 - Safety equipment
- 35121700 - Alarm systems
- 35121900 - Radar detectors
- 35722000 - Radar
- 38115000 - Radar apparatus
- 38431000 - Detection apparatus
- 71600000 - Technical testing, analysis and consultancy services

## Contract locations

- UKC - North East (England)
- UKD - North West (England)
- UKE - Yorkshire and the Humber
- UKF - East Midlands (England)
- UKG - West Midlands (England)
- ES5 - East
- UKI - London
- UKJ - South East (England)
- UKK - South West (England)

## Key performance indicators

Name	Description	Reporting frequency
1. System Performance (Success Criteria)	1(a) False Negative Rate · Definition: Situations where there is a significant danger of an incident, but no alarm was generated · Threshold: ? 10% missed · Evidence: Manual review of videos from the trial, and subsequent report 1(b) Nuisance Alarm Rate · Definition: Situations where the alarm triggered without an identified and reasonable cause · Threshold: ? 20% of total alarms · Evidence: Manual review of videos from the trial, and subsequent report	6 months

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Name	Description	Reporting frequency
2. Wearable Performance (Success Criteria)	2(a) Alarm Delivery Success Rate • Threshold: ? 95% of alarms received at wearable within 1.0s, triggering both an audible and visual warning • Limitations: Within a 500m range of the TOV, and for typical working scenarios of the TOS. Excludes laying face down on the ground, where wearable is completely shielded. • Evidence: Off-highway test, and subsequent report 2(b) Wearable Operation • Operation: Fully aligned with the supplied and agreed wearable v2 specification • Evidence: Off-highway test, and subsequent report	6 months
3. Operational Availability (Success Criteria)	• Threshold: ? 95% uptime (excluding planned maintenance) • Limitations: Any factors outside of the supplier's control including accidental damage • Evidence: ? 90-day field trial	6 months
4. Integration & Interoperability (Success Criteria)	• Chapter 8 ETM Compliance: Verified during trials • Vehicle Compatibility: Standard TOS vehicle types. BMW X5, Volvo XC90 and Tesla model X	6 months

## Signed contract documents

[ETM Incursion Warning Radar System - Prototype Development RfQ FINAL\\_Redacted.pdf](#)

ETM Incursion Warning Radar System – Prototype Development RfQ FINAL\_Redacted

[Warning Radar System Prototype Development Services Agreement\\_Redacted.pdf](#)

Warning Radar System Prototype Development Services Agreement\_Redacted

[Incursion Alarm Warning System - Final Specification v1.0 \(For Publication\).pdf](#)

Incursion Alarm Warning System - Final Specification v1.0 (For Publication)

[Incursion Alarm Warning System Commercial Workbook v1.0 \(Redacted\).xlsx](#)

Incursion Alarm Warning System Commercial Workbook v1.0 (Redacted)

[ANNEX C - CERTIFICATE OF COMPLIANCE WITH NATIONAL HIGHWAYS POLICIES\\_Redacted.pdf](#)

ANNEX C - CERTIFICATE OF COMPLIANCE WITH NATIONAL HIGHWAYS POLICIES\_Redacted

[Table 2 - Quality Questions \(For Publication\).pdf](#)

Table 2 – Quality Questions (For Publication)

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## **Other information**

### **Applicable trade agreements**

- Government Procurement Agreement (GPA)

## **Conflicts assessment prepared/revised**

Yes

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## **Procedure**

### **Procedure type**

Direct award

### **Direct award justification**

Prototypes and development

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## **Supplier**

### **Race Technology Limited**

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Nottingham

NG16 3DA

United Kingdom

Telephone: +44 01773 537620

Email: [sales@race-technology.com](mailto:sales@race-technology.com)

Website: <https://www.race-technology.com/gb>

Region: UKF16 - South Nottinghamshire

Small or medium-sized enterprise (SME): Yes

Voluntary, community or social enterprise (VCSE): No

Supported employment provider: No

Public service mutual: No

Contract 1. ETM Incursion Warning Radar System - Prototype Development.

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## **Contracting authority**

### **National Highways**

- Companies House: 09346363

Bridge House, 1 Walnut Tree Close

Guildford

GU1 4LZ

United Kingdom

Contact name: Andrew Pritchard

Telephone: +44 0300 123 5000

Email: [ADProcurement@nationalhighways.co.uk](mailto:ADProcurement@nationalhighways.co.uk)

Website: <https://nationalhighways.co.uk>

Region: UKJ25 - West Surrey

Organisation type: Public authority - central government