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Planning

Provision of Trial Equipment for an Automated Vehicle Gauging System

Transport for London

UK2: Preliminary market engagement notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-069822

Procurement identifier (OCID): ocds-h6vhtk-05d750

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Scope

Reference

WS2669308535

Description

London Underground (LU) is seeking to procure train gauging measurement systems to measure the following aspects of its Rolling Stock:

- Thermal imaging - to identify issues with overheating components including but not limited to; brake resistors, bearings, traction equipment, HVAC, brake blocks, wheel pans, bearings, traction motors, gearboxes etc.
- Video imaging - to identify issues with out of gauge elements on the rolling stock including but not limited to; graffiti, broken windows, missing / misaligned equipment cover panels, missing / damaged collector shoes (both 3rd and 4th rail shoe gear), damage to under frame equipment e.g. from ballast strike or striking from foreign objects etc.

The imaging capability should cover both sides of the vehicle, under frame and roof, and identify the individual vehicle by unit number(s).

It is expected to trial the equipment at 2 locations for a period of between 6 - 12 months and the equipment shall work for multiple unit and single unit train configurations.

The solution shall capture and store images with included data quality flags (e.g. time/date stamp etc.). Images shall then be processed using Machine Learning / Artificial Intelligence (ML/AI) to identify defects for the attention of maintenance staff.

For the duration of the trial, the post capture images shall be made available to view via a web based portal, accessible from the TfL Corporate network and TfL computers (laptop, desktop, thin client, tablet and mobile devices).

All data captured during the trial shall remain the property of TfL and not be available to suppliers to further develop their system(s) without prior consent.

Upon completion of the trial, TfL may proceed to full procurement of the successful product.

Contract dates (estimated)

- 1 February 2026 to 31 January 2027
- 1 year

Main procurement category

Goods

CPV classifications

- 34600000 - Railway and tramway locomotives and rolling stock and associated parts

Contract locations

- UKI - London

Engagement

Engagement deadline

21 November 2025

Engagement process description

All relevant information will be contained in the EME document

To request please contact the Procurement Lead

Amir Shahzad : AmirShahzad@tfl.gov.uk

The Expression of Interest deadline is 6th November 2025 12.00 Noon GMT

Suppliers are to complete EME and return by 21 November 2025. 12.00 Noon GMT

Contracting authority

Transport for London

- Public Procurement Organisation Number: PHMT-6197-NWNZ

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London

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United Kingdom

Email: BSFAribaAdministration@tfl.gov.uk

Region: UKI41 - Hackney and Newham

Organisation type: Public authority - central government