# PAS 2161 Technology Providers – Briefing 2

16/07/2026

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# Agenda

1. The PAS 2161 process
    a) The PAS 2161 process stages
    b) Location selection
    c) Survey route selection
2. Trial routes and instructions
    a) Final routes
    b) Repeats
    c) Method final route data shared by TRL
    d) Quality Assurance Process
3. Key dates
    a) Data collection window
    b) Calibration data
    c) Submission of datasets by suppliers for accreditation (format etc)
4. Financial
    a) Pricing and purchase order

# The PAS 2161 process

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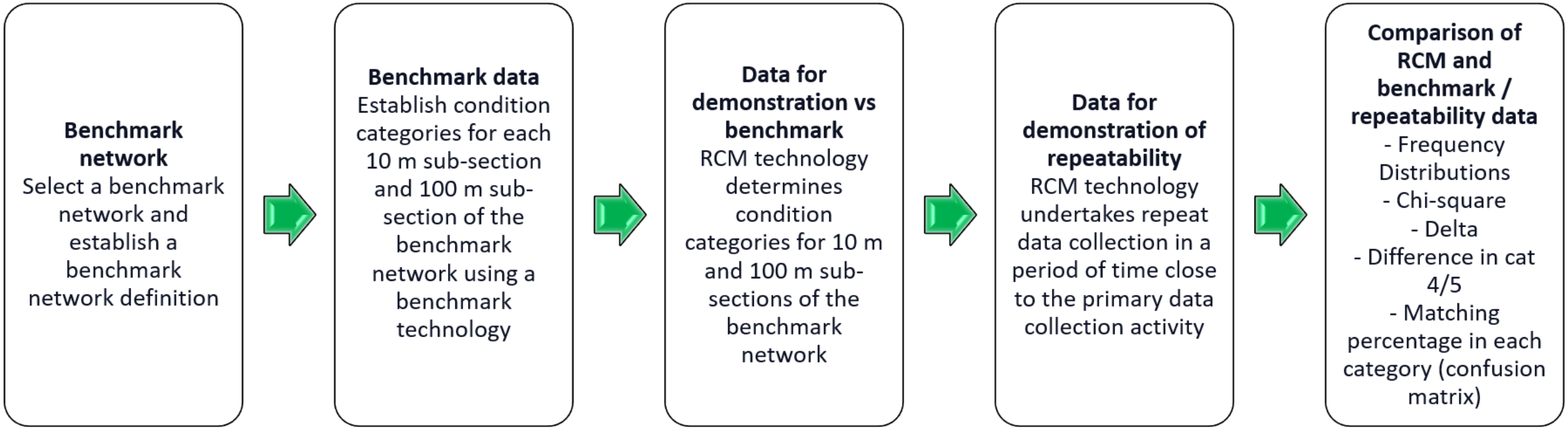
# The PAS2161 process stages

Each RCM technology is to be assessed and shall be classified as either:

- **demonstrated**: the capability to measure condition categories has been demonstrated according to the requirements of clause 9
- **not demonstrated**: the capability to measure condition categories has not been demonstrated.

Demonstration is achieved through comparison of the categories reported by the RCM technology with benchmark data and repeat RCM data

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# Location selection

- 20 LHAs interested in ‘hosting’ survey work were asked to provide maintenance schedules covering the trial period, along with condition data for their road networks. Additional criteria accounted for by TRL were:
  - Diversity of road classification and types, e.g. bridges, one-way carriageways, etc.
  - Variety and nature of road defects
  - Practical challenges for surveying/local terrain characteristics
  - Typical weather conditions
  - Balance between rural and urban areas
- For the selected three LHA areas, two routes have now been identified:
  - a main route to be surveyed once by the technology providers with technology performance compared with the engineers’ condition assessment, and
  - a twice repeated survey route (a main route subset) to test technology repeatability.
- Avoidance of LHA route maintenance mid-survey will minimise road condition changes.

# Survey route selection

For each of the three chosen LHAs, the main routes are approximately 100 km of carriageway, with the repeated route approximately 25% of the main route, by length.

Various criteria were used to select the routes, including:

- Presence of all road condition categories
- Presence of all road classes
- A selection of road sections that can be driven as a continuous/almost continuous route
- Avoidance of too many junctions, roundabouts, etc. that would disrupt the flow
- Roads that will provide challenges to the technologies, e.g. bridges, narrow sections, steep terrain, etc.

Consideration was given to the representativeness of the host LHAs' overall road network in relation to the wider network in England, even if the selected routes do not collectively reflect that situation. The three areas chosen are in the Midlands.

# Trial Routes and Instructions

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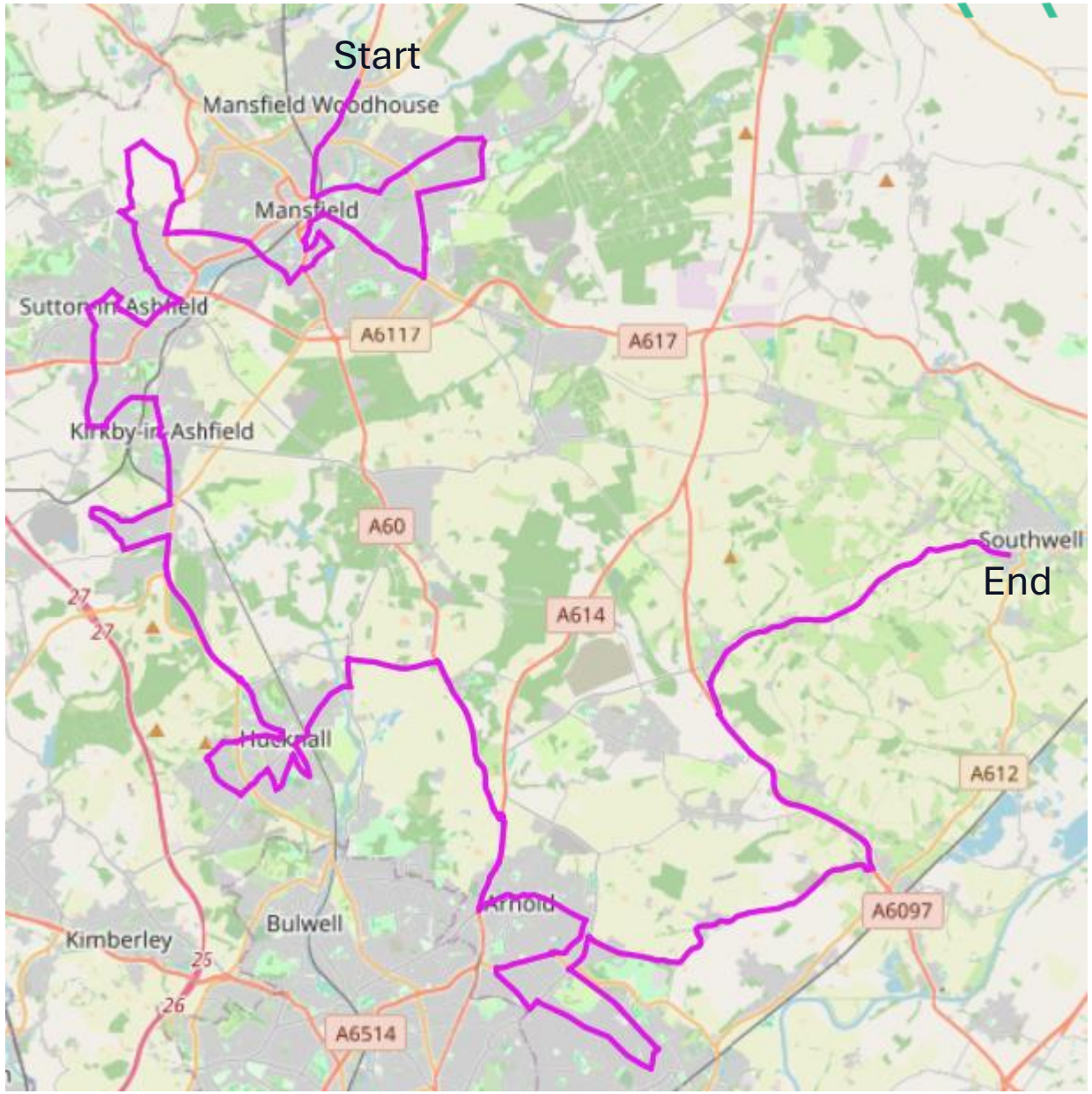
# Trial site locations

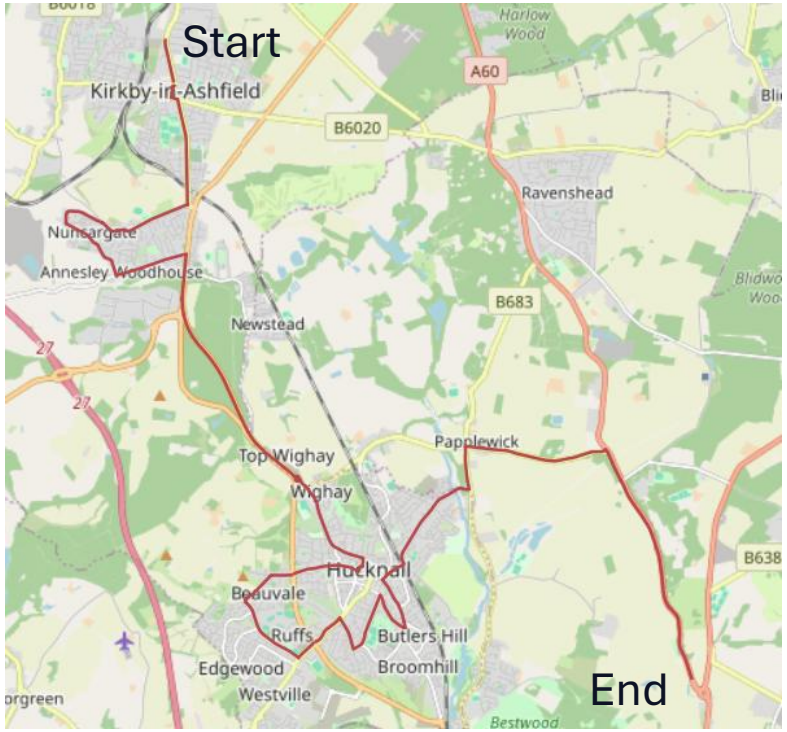
1. Main trial routes, approximately 100km each
   a) Nottinghamshire
   b) Lincolnshire
   c) Cheshire West and Chester
2. Repeat trial routes are a subset (~25%) of the main routes
   a) This data must be collected separately
   b) Note specific advice for Telematics

# Draft Trial Route - Nottinghamshire

Main




Repeat

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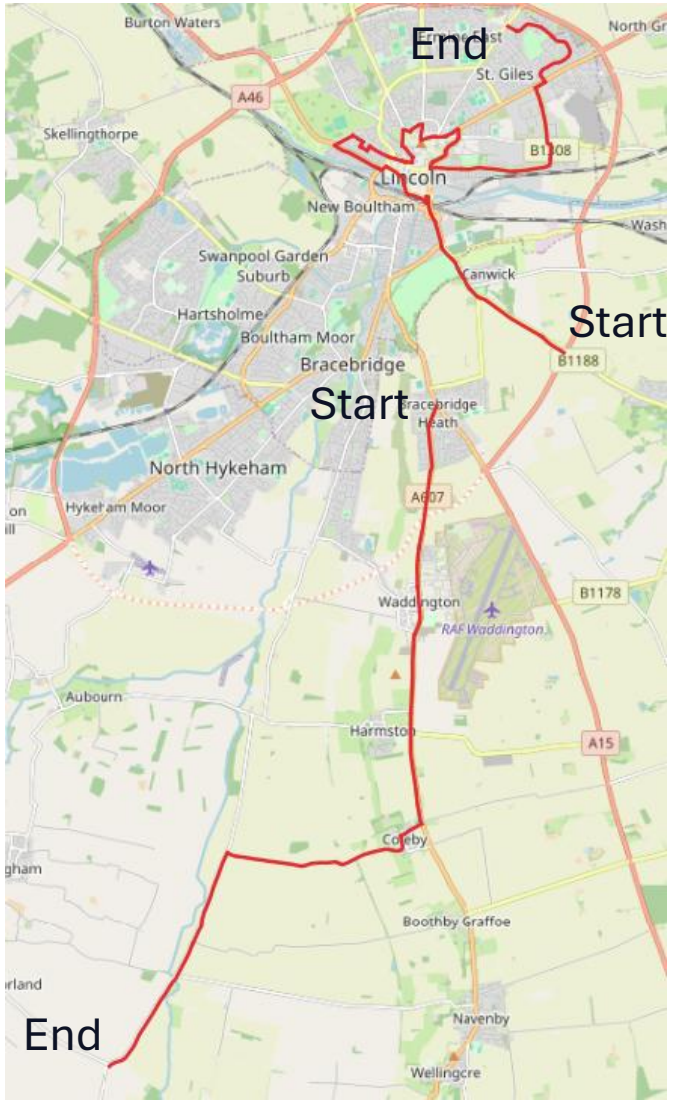
# Draft Trial Route - Lincolnshire

Main

Repeat

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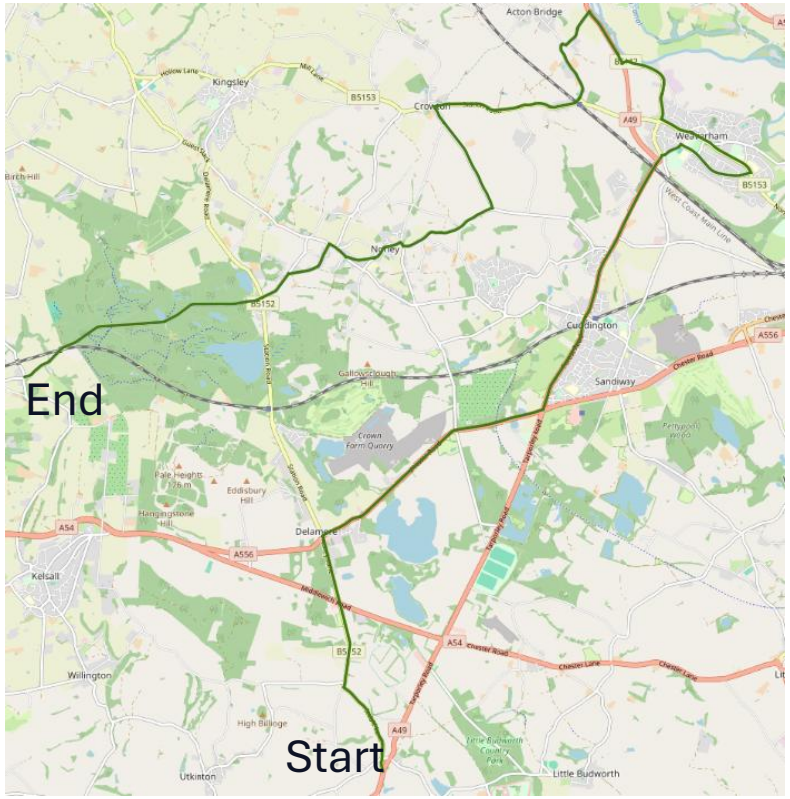
# Draft Trial Route - Cheshire West and Chester

Main

Repeat

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# Trial sites information

1. Routes will be shared by TRL as a shapefile and section list
    1. Downloadable from https://pas2161.trl.co.uk/ on 20th July 2026
2. The routes have a direction. Only one carriageway of duals is required.
3. The engineers' instructions for collection of benchmark data will be made available by TRL
4. Technology providers to deliver data for all 3 sites, in the PAS 2161 common file format.
    a) One set of data (which may consist of multiple files) for the main route.
    b) Separate files for 2x additional data sets for the repeat routes (to ensure the repeats are distinguishable from each other and the main route).
    c) A Gap report, identifying sections with no data provided and the reason. A template will be available
5. The data should:
    a) Provide combined values for each section for both two-way roads and multi-lane carriageways.
    b) Have a nominal sub-section length of 10m.
    c) Be fitted (stretched/compressed) to the defined network, where applicable. Any section lengths that are found to be outside the acceptable limits should be reported to TRL.
    d) Be reported in the forward direction, where possible.
6. TRL will act as the ‘Client/LHA’. For any questions about the network definition or TROs, etc, contact us at RCMTrial@trl.co.uk

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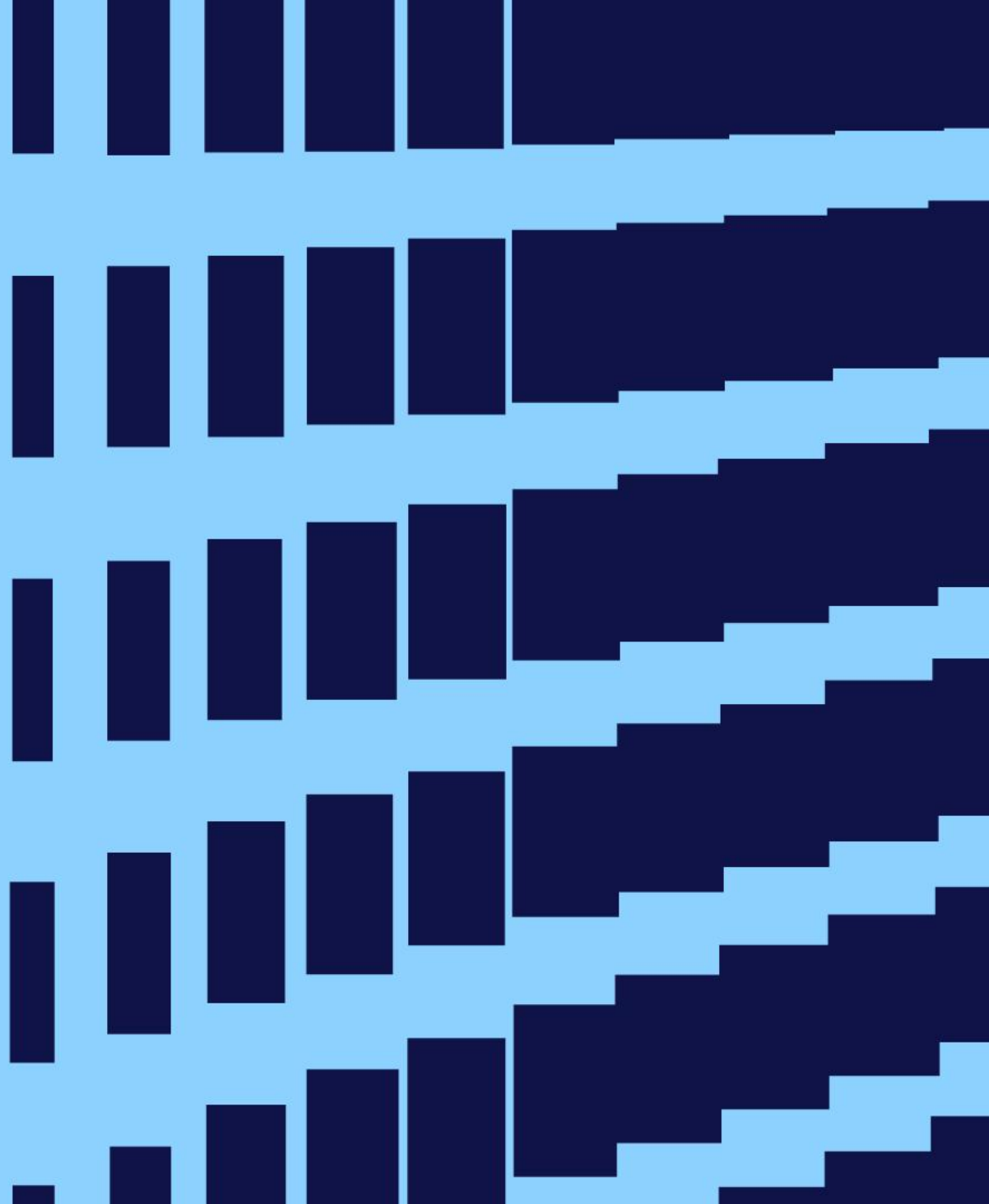
# Quality Assurance

- To obtain details of the QA that RCM providers will be undertaking between demonstrations, TRL has developed forms for each technology type that will need to be completed by the RCM providers for each technology.
- The forms cover QA and related topics and include questions on:
  - Limitations on data collection (day/night, weather etc.)
  - Introduction of additional vehicles/devices (where applicable)
  - Calibration and ensuring consistency (both over time and between devices)
  - Identification of invalid or low confidence data (e.g. lower trafficked roads for telematics)
- TRL will upload QA forms on our PAS 2161 website(https://pas2161.trl.co.uk/), please download and complete the corresponding technology type form(s).
  - The completed forms will need to be provided alongside the data submission for each technology.
- TRL will review the text in the completed forms and follow up with the corresponding RCM provider if additional detail or clarification is required. Recommendations (where applicable) will be provided to the corresponding RCM provider and DfT.

# Key Dates



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# Key Dates

## Data Collection

| Location | Start of data collection window | End of data collection window | Benchmark data collection |
|---|---|---|---|
| Nottinghamshire | Monday 24th August 2026 | Sunday 20th September 2026 | 24th to 28th August |
| Lincolnshire | Monday 31st August 2026 | Sunday 28th September 2026 | 31st August to 4th September |
| Cheshire West & Chester | Monday 31st August 2026 | Sunday 28th September 2026 | 7th to 11th September |

## Data Submission

| Location | Date | Revised Date |
|---|---|---|
| TRL provides benchmark data for calibration | ~~2nd October 2026~~ | **8th October 2026** |
| RCM technology providers submit calibrated data for assessment | ~~6th November 2026~~ | **13th November 2026** |

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# Financial

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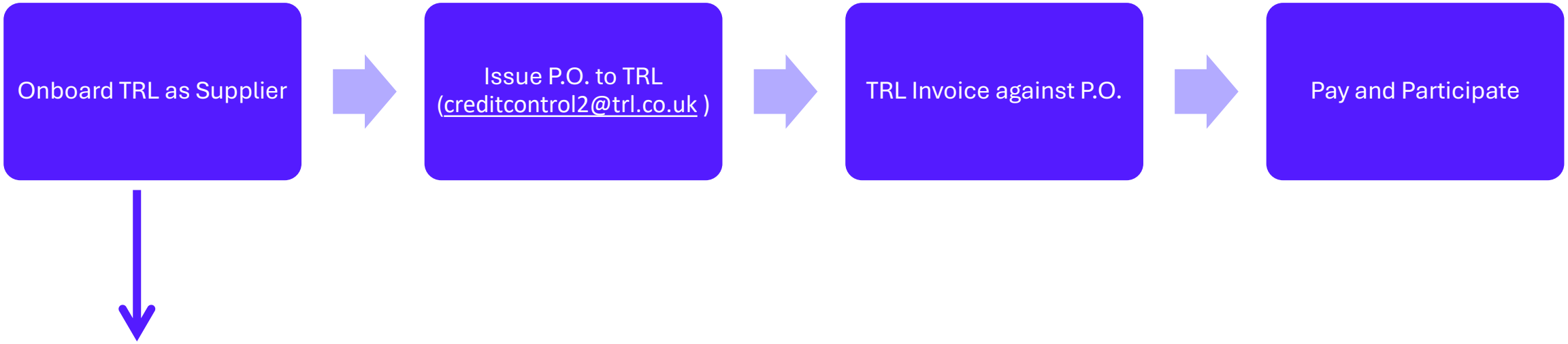
# Financial (1)

- The cost to participate will be £7,500 (excl. VAT) per technology.
  - i.e. if submitting 3 technologies, the purchase order would be for £22,500 (excl. VAT) to TRL.
- Ideally payment needs to have been made in full before the start of the data collection window on 21 August 2026.
  - If you wish to submit additional technologies later in the process, let us know and issue additional PO(s)
    - Note additional datasets/Technologies must be submitted to the same deadline.
  - Purchase orders need to be sent to creditcontrol2@trl.co.uk
  - Any questions, please contact creditcontrol2@trl.co.uk

# Financial (2)




## Company information for onboarding as supplier

- **Company Name:** TRL Limited
- **Registered Office:** Unit 19, The Business Centre, Molly Millars Lane, Wokingham, RG41 2QY, United Kingdom.
- **Company Registration No:** 3142272 (England)
- **UK VAT Registration No:** 664 625 321
- **Payment terms:** 30 days
- **Service description:** 2026 PAS 2161 demonstration trial entry

- Purchase orders need to be sent to creditcontrol2@trl.co.uk
- Any questions, please contact creditcontrol2@trl.co.uk

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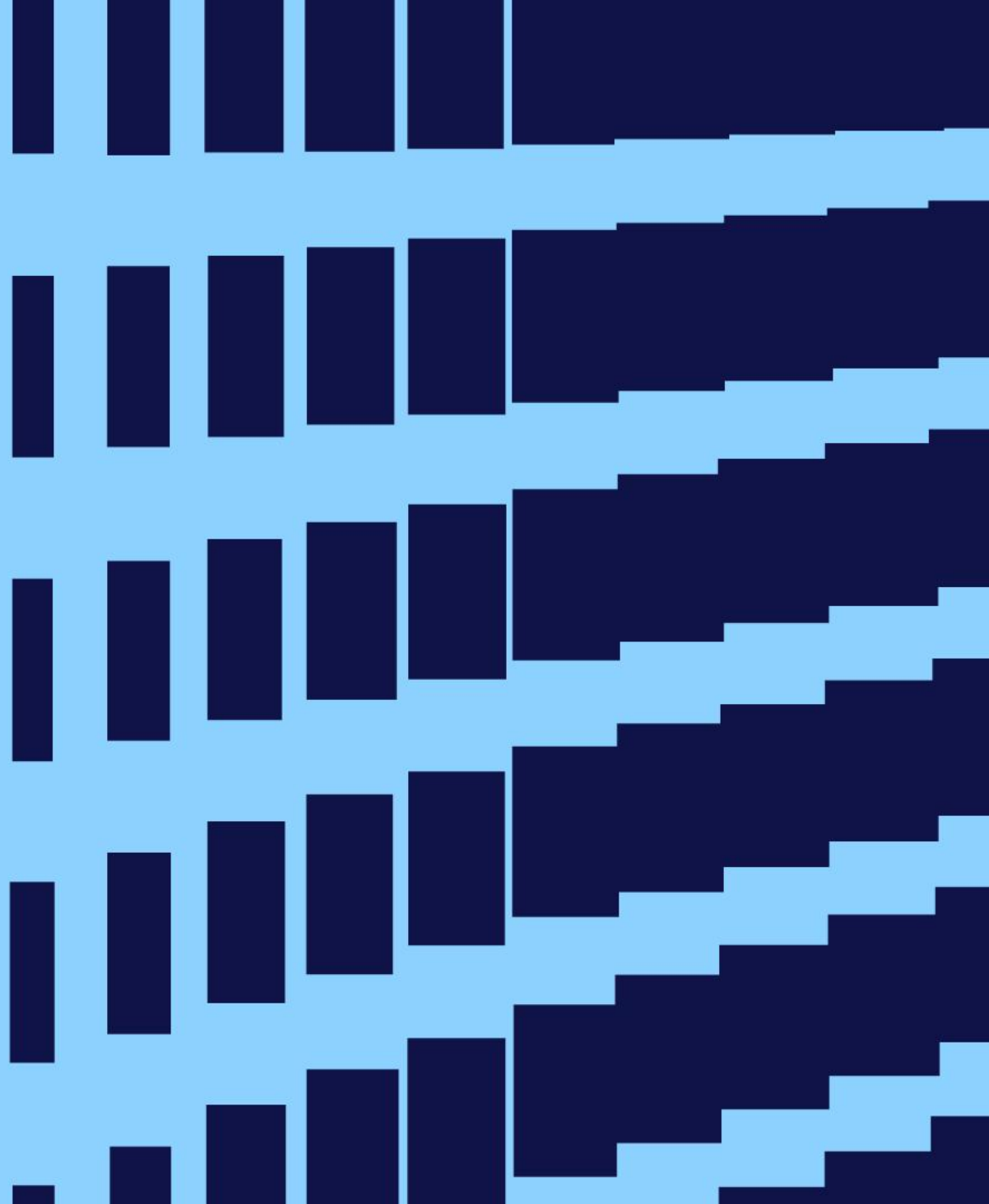
# Any Questions?



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