

Introduction

Technology Strategy Board
Driving Innovation



The Technology Strategy Board has announced its intention to establish a Catapult centre for Transport Systems.

This survey is for organisations wishing to work with the Technology Strategy Board to establish the Catapult. The process is via an online survey, which must be completed and submitted by interested parties by midnight on 29th June 2012.

Transport Systems Catapult Scope & Vision document

It is essential you have read the Transport Systems Catapult scope and vision document carefully before completing this survey. [Please click this link](#) to download the scope and vision document.

Frequently Asked Questions

Please also check [the dedicated section](#) in the Transport Systems Catapult network for guidance and answers to questions you may have. We recommend you sign up to this [online Catapult-dedicated forum](#) if you would like to be involved and kept informed on progress.

Offline versions of the survey

[Click here to download](#) a pdf version of the survey questions. The pdf allows you to review the survey or collate the answers to the questions manually before you complete the survey online. The version you are now viewing is the editable Word version, which enables you to fill out and distribute the survey to your colleagues electronically for their contribution. **NOTE: THESE OFFLINE VERSIONS ARE FOR YOUR USE ONLY. YOU WILL NEED TO MANUALLY TRANSCRIBE ANY CONTENT OF THIS DOCUMENT INTO THE ONLINE SURVEY AND SUBMIT IT BEFORE MIDNIGHT ON 29TH JUNE 2012. SUBMISSION OF THE PDF OR WORD DOCUMENT WILL NOT CONSTITUTE A VALID SUBMISSION.**

Webinar

The Technology Strategy Board has scheduled a webinar on 15 June to explain the vision and scope, give guidance and answer questions. You can register for the webinar [by clicking here](#).

SHARING OF INFORMATION

The information you have provided will be used to develop the case for the Transport Systems Catapult.

In order for us to process your answers we need to share the information you've provided with people and organisations that the Technology Strategy Board has carefully selected to work with, such as the Transport Knowledge Transfer Network, and the Transport Systems Catapult network.

About you

Please note that questions below marked with an asterisk (*) require an answer

*1. Please tell us a bit about yourself and your organisation

First name:	Mark
Last name:	Cartwright
Name of organisation:	RTIG
Role in organisation:	Managing Director
Department:	-
Email: Phone:	secretariat@rtig.org.uk 01483 688272
Postcode:	GU2 7YG
County	Surrey

*2. Whose view does this response represent?

Organisation
 Department
 Individual

***3. To involve you fully in the establishment of the Catapult, the Technology Strategy Board may need to share the results of this survey with the Catapult project delivery team, Knowledge Transfer Networks and the Transport Systems Catapult Network Group.**

Your details will not be shared for any other purpose other than setting up the Transport Systems Catapult. We would expect you to consent to sharing this information.

Yes, I consent to sharing the information provided in this survey for the purpose of setting up the Transport Systems Catapult.
 No, I do not consent to sharing the information provided in this survey.

Other (please specify)

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***4. In the spirit of establishing robust and informed engagement and collaboration, we believe that it would be useful for us to share publicly the names of organisations that responded to this questionnaire.**

- Yes, I give permission for you to share the name of my organisation publicly.
 No, I do not give permission for you to share the name of my organisation publicly.

Company information

***5. Tell us a bit more about your organisation type**

- | | |
|---|--|
| <input type="checkbox"/> Private Sector | <input checked="" type="checkbox"/> Research and Technology Organisation |
| <input type="checkbox"/> Public Sector | <input type="checkbox"/> Individual |
| <input type="checkbox"/> Academic | <input type="checkbox"/> Consortium |
| <input checked="" type="checkbox"/> Not for profit (third sector) | <input checked="" type="checkbox"/> Trade organisation |

Organisations representing or coordinating constituencies

We would like to hear from organisations that represent or coordinate the viewpoints of communities and constituencies relevant to the Catapult.

Please note that we are not seeking consortia to lead or to run the Catapult.

Please fill in the section below only if you are empowered to represent the viewpoints of others.

***6. Please describe your organisation's role and provide more detail of the constituency you represent.**

RTIG is the UK's principal community body for information and communication technology in public transport. It is the technical authority for a number of key UK technical specifications, and represents the UK in European standards groups.

RTIG represents public authorities, public transport operators and the systems industry for a wide range of technologies including vehicle location, communications, display, website/service, travel information, ticketing, audio-visual and others. It brings stakeholders together to develop efficient and coherent approaches to using ICTs in support of effective and efficient public transport services.

It works closely with a number of other national groups/bodies where there are common interest, eg RSSB for rail sector work, traveline for traveller information, and UTMC for traffic management. Outside the PT industry it has excellent links with a variety of interest groups including for accessibility (eg disability charities).

***7. Please describe why and how you, together with those you represent or coordinate, could contribute to the establishment of the Catapult.**

- Define, coordinate and manage programmes to develop innovative systems within RTIG's scope and remit
- Provide a reference organisation for Catapult projects working in areas related to public transport management, information and ticketing (requirements testing, coordinated pilots)

Company information (continued)***8. What size is your organisation - in terms of people?**

- Large (more than 250).
- Medium (less than 250).
- Small (less than 50).
- Micro (less than 10).

Other (please specify)

The RTIG Secretariat is a micro organisation. Individual RTIG members range from large to micro.

***9. What size is your organisation - in terms of turnover?**

- Large (Average turnover larger than £50m)
- Medium (Average turnover smaller than £50m)
- Small (Average turnover smaller than £10m)
- Micro (Average turnover smaller than £2m)
- N/A (For use by trade organisations)

Other (please specify)

***10. Main business activities** (tick all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> Operator: freight | <input type="checkbox"/> Construction (civil engineering) | <input type="checkbox"/> Local Authority |
| <input type="checkbox"/> Operator: passenger services | <input type="checkbox"/> Consultancy | <input type="checkbox"/> IT |
| <input type="checkbox"/> Operator: infrastructure | <input type="checkbox"/> Academic institution | <input type="checkbox"/> Telecommunications |
| <input type="checkbox"/> Operator: ports / airports | <input checked="" type="checkbox"/> Research / test facility | <input type="checkbox"/> Logistics |
| <input type="checkbox"/> Manufacturer: vehicle/vehicle components | <input checked="" type="checkbox"/> Trade organisation | |
| <input type="checkbox"/> Manufacturer: infrastructure | <input type="checkbox"/> Government body | |

Other (please specify)

RTIG acts as an industry standards body for public transport ITS.

***11. Nature of business** (tick all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Product-based | <input checked="" type="checkbox"/> Intellectual property (incl. media and content) |
| <input type="checkbox"/> Service-based | <input checked="" type="checkbox"/> Research |
| <input type="checkbox"/> Consultancy | <input checked="" type="checkbox"/> Trade organisation/ Represent or coordinate constituencies |
- Other (please specify)

Your specific interest in the Catapult

Based on the Transport Systems Vision and Scope document and your understanding of the vision, mission and principles of the Transport Systems Catapult, please state your interests.

***12. I would like to use the Catapult to meet my organisation's development needs through collaborative R&D and/or commercial projects**

- Yes No Maybe

***13. I/my organisation would like to work with this Catapult by providing access to a capability that will contribute to the centre meeting its objectives.**

- Yes No Maybe

***14. I am/my organisation is interested in helping to shape the Catapult's initial priorities by identifying particular areas of work.**

- Yes No Maybe

Programme priorities for the Catapult

We would like to hear your views on potential programme priorities in areas aligned with the scope of the Centre. Significant consultation has taken place with industry in defining the scope of the Catapult. That scope is represented in the drop-down menus in this section. If possible, please select the area of activity from drop-down menus which best aligns with your programme priorities below.

You can tell us about up to five potential programme priorities for the Centre.

Please use the comment box to explain what they are, why you believe they are relevant, and how you think they could be tackled.

You can also use the box to add priorities not listed in the pull-down menu.

The pull-down menu of question 15 offers the following choices:

1. Modal Integration: Infrastructure design optimisation
2. **Modal Integration: Modal convergence**
3. Modal Integration: Infrastructure integrity
4. Modal Integration: Connected vehicles
5. **Modal Integration: Intermodal transfer**
6. **Modal Integration: Seamless journey**
7. System Performance: Health monitoring and diagnosis
8. System Performance: Demand management systems
9. System Performance: Reliability management
10. System Performance: Infrastructure security
11. System Performance: Traffic control systems
12. System Performance: Positioning and tracking
13. System Performance: Passenger management
14. Business Models: Economic modelling
15. Business Models: Ownership vs use business models
16. Business Models: Planning for multi modal systems
17. Real-time Information: Transport data and information systems
18. Real-time Information: End to end journey assistance
19. Real-time Information: Journey planning
20. **Real-time Information: Ticketing**
21. **Real-time Information: Real time journey advice**
22. Real-time Information: Freight logistics
23. (Inter)national Transport Systems Model: Intermodal modelling
24. (Inter)national Transport Systems Model: Movement management
25. (Inter)national Transport Systems Model: end-to-end journey modelling

***15. Give us your five top priorities using the selection criteria shown** (these are shown in this word document as numbers 1-25 above, but will be drop down options in the online form).

First Priority (choose from 1-25 above)	6
Second Priority (choose from 1-25 above)	21
Third Priority (choose from 1-25 above)	20
Fourth Priority (choose from 1-25 above)	5
Fifth Priority (choose from 1-25 above)	9

Please explain briefly what the priorities are, why you believe they are relevant and how they could be tackled. You can also add priorities that are not covered by the options provided.

6 Seamless journey: tools and strategies to integrate pre-journey planning with live updates, on journeys which may be multimodal (including walking), and in-transit or destination point-of-interest information

21 Real time journey advice: categorising and sharing data, and presenting it to the public, on journey incidents, reliability and changes, in a meaningful and actionable way – including business as usual (“2 minute delay”), disrupted (“could be 20-30 minutes but will definitely

happen”) and or catastrophic (“London is flooded, abandon your journey”)

20 Ticketing: Efficient ways to include different types of smart ticketing (ITSO, EMV, mobile/NFC, mobile/QR code, print at home, etc) alongside traditional cash and concessionary ticketing, in a coherent, reliable and cost-effective manner

5 Intermodal transfer: Business and technical strategies/tools to manage bus-bus, bus-train, car-train, bicycle-PT to benefit both the networks and passengers – mindful of commercial and regulatory challenges; including scheduling, journey planning, connection protection, near-term book-ahead and passenger information

9 Reliability management: Feasibility of systems to monitor reliability for the purpose of performance management, including for financial/contractual purposes, and potentially to export control decisions

Resources and capabilities

The Catapult will have its own facilities. It will work closely with organisations that have complementary resources and capabilities.

Resources could include testing laboratories, software and equipment, technology demonstrators, data and content assets, physical sites for demonstrators, and access to customer bases.

Capabilities could include those of research teams and R&D centres with a proven track record of innovation and industrial collaboration in relevant areas, systems architecture, design and integration, user experience and design, technology translation, EU funding and collaboration and technology cluster management.

***16. For the Catapult to deliver on the priorities you have identified, what resources or capabilities should it have?**

Most or all of the suggested capabilities will be required, but particularly programme management skills; operational expertise within complex roads networks; business-technology skills, at an architectural and management level; and a broad understanding of relevant industry dynamics in both public and private sectors

***17. Which of these resources and capabilities can you make available to the Catapult?**

Directly, the skills in management, technology and industry understanding

Indirectly, access to operational skills through RTIG members

Thank you!

Thank you for completing this survey. We will be feeding back the results and conclusions in due course. We look forward to working closely with all members of this community to establish the Transport Systems Catapult.

Questions? Don't forget to [check the Q&A](#) section on the website here to look for and add your questions, and [register for the webinar](#) on the 15th June.

Please visit the [Transport Systems Catapult Network](#), our main online communications and engagement forum for the Transport Systems Catapult. If you haven't done so already, we urge you to sign up so you can receive up-to-date information and take part in discussions.

Kind regards

The Transport Systems Catapult delivery team