



Transport Research and Innovation Grants

Department for Transport

TRIG 2024 Application Support Webinar



Funded by
UK Government

Delivered by

CATAPULT
Connected Places





Transport Research and Innovation Grants

Department for Transport

WELCOME & INTRODUCTION

Giulia Lorenzini

SME Innovation Funding Team Lead

Connected Places Catapult



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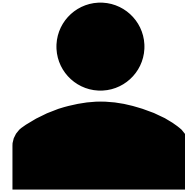
AGENDA

Time	Title	Speaker
14:00	Welcome & Introduction	Giulia Lorenzini SME Innovation Funding Team Lead, Connected Places Catapult
14:10	TRIG 24	Nathan Hurdsfield Head of Innovation, Science Innovation & Technology, Department for Transport
14:15	What is TRIG ? Who can apply ? What is the value? What to expect?	Isabelle Tibayrenc SME Innovation Funding Programme Manager, Connected Places Catapult
14:30	Challenge 1 – Open Call	Sef Huyskens Innovation Funding Lead, Science Innovation & Technology, Department for Transport
14:35	Challenge 2 – Local Transport Decarbonisation	Ellen Cumber Policy Advisor, Place-Based Decarbonisation, Department for Transport
14:40	Challenge 3 - Critical and Emerging Technologies	Nathan Hurdsfield Head of Innovation, Science Innovation & Technology, Department for Transport
14:45	Challenge 4 - Nation-Specific Transport Solutions	Lauren Gelling Head of Engagement- Scotland; DfT Scotland, Wales & Northern Ireland Division
14:50	Challenge 5 – Maritime Decarbonisation	Amber Smalley Policy Advisor and TRIG Challenge Sponsor
14:55	Application & Project Process	Isabelle Tibayrenc SME Innovation Funding Programme Manager, Connected Places Catapult
15:10	Q&A	Please send your questions through the chat at any time
15:30	Close	

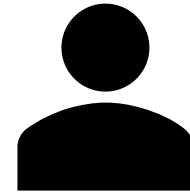
CPC TRIG 2024 TEAM



Isabelle Tibayrenc
TRIG 2024 Lead



Abosede Olubode
Innovation Funding Officer
for TRIG 2024



Nick Woodward
Academic Engagement
Manager



Giulia Lorenzini
TRIG Team Lead



Abi Matthews
TRIG Project Manager





Transport Research and Innovation Grants

Department for Transport

TRIG 2024

Nathan Hurdsfield

Head of Innovation, Science Innovation &
Technology, Department for Transport

Department for Transport



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SCITECH INNOVATION TEAM

The Science Technology and Innovation (SciTech) Directorate is led by the Chief Scientific Adviser Professor Sarah Sharples.



Nathan Hurdsfield
Head of Innovation



Abi Swayne
Senior Innovation Grant Manger



Sef Huyskens
Innovation Funding Lead

WHO ARE SCITECH?

We aim to facilitate, advise on and grow innovation throughout the whole of DfT and deliver DfT's strategic priorities through timely, usable and impactful solutions.

SciTech is made up of three teams:

- Futures and Innovation
- Emerging Technologies
- Science Strategy and Governance



Strategic Aims:

- Growing and Levelling Up the Economy
- Reducing Environmental Impact
- Improving Transport for the User

Strategic Enablers:

- International
- Science and Technology
- Safety and Security
- Be an Excellent Department



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Introduction to the programme

Isabelle Tibayrenc

SME Innovation Funding Programme Manager

Connected Places Catapult

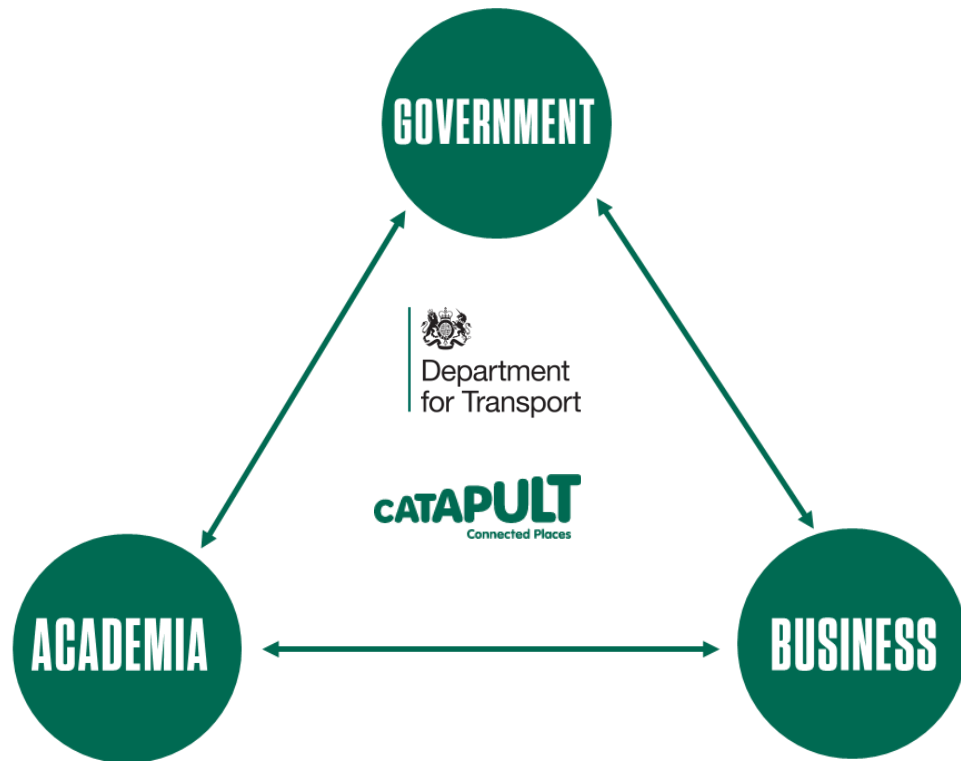


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WHAT IS TRIG?

TRIG is the DfT's flagship innovation funding programme.



LONG
TERM

- Increase employment opportunities and address skills gaps
- Create new IPs
- Turn the UK into a science and technology superpower
- Grow UK export output
- Make the transport network safer greener, more resilient and accessible



SHORT
TERM

- Offer small amounts of funding via a low-burden process
- Succeed or fail fast proof of concept (from TRL2 to TRL4)
- Provide a collaborative space for innovators and DfT's policy team

TRIG FACTS

10th anniversary



18 competitions

402 funded projects

£12 Million awarded



TRIG VALUE



100% **grant** funding – up to £45 000



Business **support**: thematic workshops and ad-hoc support.



Engage with government, SMEs, academia and corporate



Get selected by experts -> gain **credibility**



Visibility: online and at the showcase event

WHO CAN APPLY?



Calling all Innovators!

- ✓ UK Registered Organisation
- ✓ Early stage project TRL2 (basic research) to TRL 4
- ✓ Any business size: Startup SMEs, Large corporation*
- ✓ Any type of organisation: Private, Charities, Local Authorities*
- ✓ Welcome academia & business and consortiums (but not a requirement)
- ✓ You can reapply to TRIG (for a different idea)

** Admission to the programme is subject to conditions*

WHAT'S OFFERED & EXPECTED



23rd of October: Event for TRIG 24 Cohort+ Showcase TRIG 23 + 10th anniversary

Showcase Event



TRIG 2024 – CHALLENGE AREAS

Challenge 1:
Open Call



Challenge 2:
Local Transport Decarbonisation



Challenge 3:
Critical and Emerging Technologies



Challenge 4:
Nation-Specific Transport
Solutions



Challenge 6:
Maritime Decarbonisation



Challenge	Number of Projects	Total Funding
Open Call	3	£135,000
Local Transport Decarbonisation	7	£315,000
Maritime Decarbonisation	8	£360,000
Emerging & Critical Technologies	7	£315,000
Nation-Specific Transport Solutions	5	£225,000
Total	30	£1,350,000

CHALLENGE 1

OPEN CALL



Examples from previous TRIG cohorts:

The following list is not exhaustive but just gives an idea of previous projects:

- ✓ Exploiting eCall - Faster response, saving lives
- ✓ Using AI to identify, locate and track deterioration of assets
- ✓ Machine Learning to Accelerate Fuel Cell Design
- ✓ Rail Power - Vibration Energy Harvesting
- ✓ Radar-based noise cameras - for peaceful cities, tranquil minds and lower carbon emissions
- ✓ Sail recycling: a synthetic biology approach

Useful resources:

- [DfT areas of research interest - GOV.UK](https://www.gov.uk/government/collections/dft-areas-of-research-interest)
(www.gov.uk)



CHALLENGE 2

**LOCAL TRANSPORT
DECARBONISATION**



LOCAL TRANSPORT DECARBONISATION



Examples of potential projects:

- ✓ Future of transport solutions such as Mobility as a Service (MaaS)
- ✓ Supporting the uptake of lower-carbon transport modes
- ✓ Integration of transport modes such as Mobility Hubs
- ✓ Shared mobility and micromobility solutions
- ✓ Planning tools to drive transport decarbonisation
- ✓ Tools or solutions to support active travel or measure the impact of active travel
- ✓ Improving transport connectivity in rural areas, including supporting low carbon tourism
- ✓ Accessibility in low-carbon transport modes
- ✓ Improving journeys and user experience of low-carbon transport modes through data



CHALLENGE 3

CRITICAL AND EMERGING TECHNOLOGIES



CRITICAL AND EMERGING TECHNOLOGIES (1)

AI in transport across all modes

Digital Connectivity and Sensors

Pathway to smart infrastructure

Digital Twins



CRITICAL AND EMERGING TECHNOLOGIES (2)

Resilient and novel Position Navigation and Timing Technologies

Engineering Biology

Novel use of drones on the transport system

Pathway to personal air mobility



CHALLENGE 4

NATION- SPECIFIC TRANSPORT SOLUTIONS



NATION-SPECIFIC TRANSPORT SOLUTIONS



What are we looking for?

- Innovative solutions and approaches for tackling transport challenges that are more pronounced in **Scotland, Wales and Northern Ireland**, including the geographic, the technological and behavioural.

Projects might focus on areas such as:

- Inclusive and sustainable rural connectivity.
- Decarbonising urban transport systems.
- Driving behaviour change.
- Improving EV infrastructure.
- Emerging technologies and digital adoption.
- Tackling skills gaps and upskilling transport planning.
- Mitigating adverse weather and other environmental challenges.

This is not an exhaustive list.

CHALLENGE 5

MARITIME DECARBONISATION



MARITIME DECARBONISATION



Funded by the UK Shipping Office for Reducing Emissions (UK SHORE) programme

What are we looking for?

- ✓ Any clean maritime solutions that reduce greenhouse gas emissions by the UK's maritime sector and support the transition to Net Zero by 2050.

Projects could focus on...

- Low and zero-emission fuels, energy sources or vessel technologies
- Land side infrastructure or energy efficiency measures
- Smart shipping technologies, automation or AI

Useful Resource:
[Clean Maritime Plan \(2019\)](#)



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APPLICATION PROCESS

Isabelle Tibayrenc

SME Innovation Funding Programme Manager
Connected Places Catapult



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APPLICATION HINTS & TIPS

- ✓ All applications must be completed online.
- ✓ Word Document to assist
- ✓ Accessibility (until 7th of May)
- ✓ Explain your solution in layman's terms & avoid jargon
- ✓ Stick to the word counts
- ✓ You are the best placed to decide which call is the most suitable!



READ BEFORE APPLYING

Supporting Documents

[TRIG 2024 GRANT SPECIFICATION →](#)

[TRIG 2024 GRANT TERMS AND CONDITIONS →](#)

[TRIG 2024 PRIVACY NOTICE →](#)

[TRIG 2024 GANTT CHART TEMPLATE →](#)

[TRIG 2024 RISK REGISTER TEMPLATE →](#)

[TRIG 2024 PROJECT FINANCE TEMPLATE →](#)

[TRIG 2024 APPLICATION FORM QUESTIONS →](#)

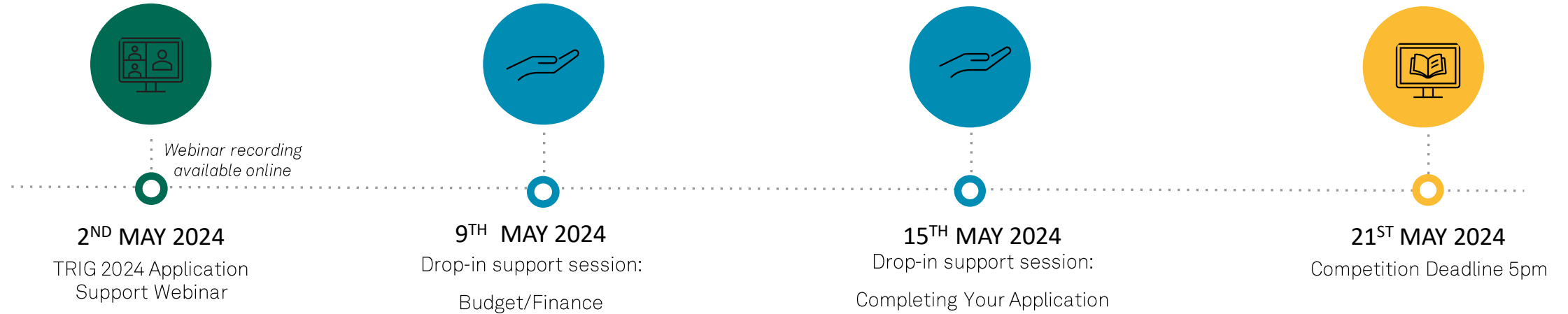
[TRIG 2024 APPLICATION GUIDANCE & FAQ →](#)

Please read the following supporting documentation carefully before submitting your application.

DfT's Strategic Aims are:

- Grow and level up the economy - Improve the connectivity across the UK and grow the economy by enhancing the transport network on time and on budget
- Improve transport for the user - Improve transport users' experience, ensuring that the network is safe, reliable and inclusive
- Reduce environmental impacts - Tackle climate change and improve air quality by decarbonising transport

COMPETITION TIMELINE DEADLINES FOR APPLICANTS



EVALUATION PROCESS



MAY- JULY 2024

Application Review and Assessment



15 JULY-9 AUGUST 24

Interviews



SEPTEMBER 2024

Selection & Award
(60% paid)

1

Due diligence :

- Employers' Liability Insurance
- Minimum Financial Assistance (MFA) < £315,000
- No criminal, serious material litigation nor tax breach

2

Scoring

- Challenge – 25% :
- Solution – 25% :
- Impact and Sustainability– 25%
- Commercialisation – 15%
- Project Management– 10%

CREATING A GOOD APPLICATION

What is expected?

- Alignment with Challenge
- Problem Priority
- Clarity of Explanation
- Substantiation by Evidence and measure
- Recognition by Reputable Sources

Challenge – 25%

Can you describe the problem you are solving? 500 words

- How is the transport system impacted?
- What is the scale of the problem?
- Which population is affected by it?
- What scientific evidence supports the existence of this problem?
- Can you provide a source that highlights this problem?



CREATING A GOOD APPLICATION

What is expected?

- How the solution solves the challenge
- Innovative aspect/ Unique selling point
- Clarity on what the solution is

Solution – 25%

Describe your solution and its novelty (how/why is it innovative?)
500 words

- What is the detailed description of your proposed solution?
- How does your solution specifically address the challenge?
- What cutting edge technologies and/or approaches are you making use of?
- What evidence or data supports the effectiveness of your solution?

Intellectual Property: Describe the intellectual property status of your innovation (e.g., patents, trademarks, copyrights). 200 words



CREATING A GOOD APPLICATION

What is expected?

- Alignment with Strategic aims
- Equality, Diversity and Inclusion strategy
- Social impact
- Environmental Impact
- Economic Impact
- How to mitigate negative impact

Impact and Sustainability – 25%

What are the societal, environmental, and economic impacts of your project? What strategies are you implementing to mitigate any negative impacts?" 500 words

Please describe the strategy you will implement to ensure that the solution is inclusive and accessible. This is an opportunity to demonstrate your commitment to equality, diversity, and inclusion (E&DI) principles. This could involve, for example, assembling a diverse team and testing ideas with a panel of underrepresented groups. 500 words



CREATING A GOOD APPLICATION

What is expected?

- Understanding of the market
- Scalability
- Relevant route to market
- Stakeholder engagement

Commercialisation – 15%

- What is your understanding of the intended market? 200 words
What is the size of the market?
What opportunities does your project present in the market?
- What indirect or direct competitors have you identified in the UK and worldwide? How does your solution differ from theirs? 200 words
- Please describe an achievable route to market. 200 words
Is it a BtoB or BtoC solution?
Who will be your direct and end clients?
How do you plan to scale your solution?
What is your strategy for market introduction?(business model and promotion)
What stakeholder engagement strategy do you consider ?



Q&A

Get in touch with us!
trig@cp.catapult.org.uk



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THANK YOU

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