

## HS2 Accelerator 7.0 **Application Support Webinar**



### **Event Schedule**

Time	Section	Speaker/s
10:30	Opening Remarks	Jasmine Pollock – Connected Places Catapult
10:35	Introduction to High Speed 2 (HS2)	Jonathan Kelly – HS2 Ltd Robert Cairns – HS2 Ltd
10:40	Programme Challenges	Jonathan Kelly – HS2 Ltd Robert Cairns – HS2 Ltd
10:50	Introduction to Connected Places Catapult	Jasmine Pollock – Connected Places Catapult
10:55	Programme Overview	Jasmine Pollock – Connected Places Catapult
11:05	Eligibility & Application	Jasmine Pollock - Connected Places Catapult
11:15	Q&A	

HS2



## Introduction to High Speed 2

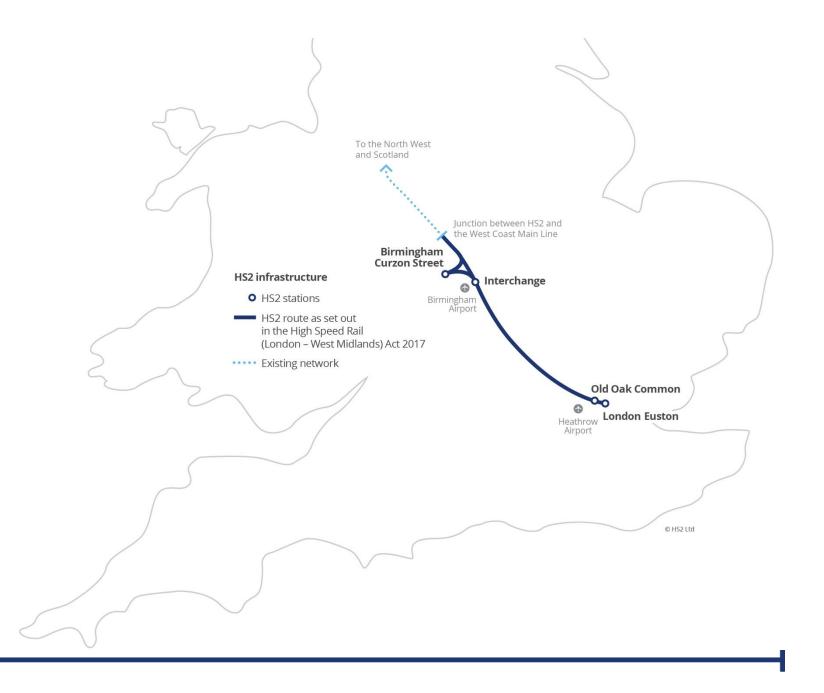
Jonathan Kelly – Senior Innovation Manager, HS2 Ltd Robert Cairns – Senior Innovation Manager, HS2 Ltd



# Britain's new high-speed railway is now being built

#### **Key facts**

- HS2 is the first new intercity railway to be built north of London in over a century.
- 140 miles of track, four new, state-of-the art stations, two depots and 32 miles of tunnel.



## **Progress update**



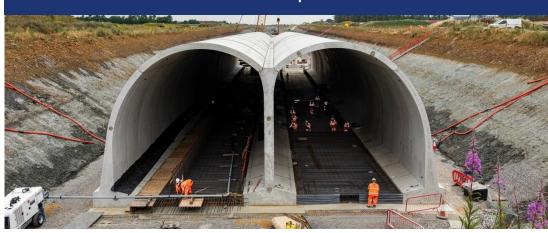




Old Oak Common station, West London



'Green' Tunnel, Northamptonshire



#### Curzon Street, Birmingham



#### Value of innovation at HS2

385

Completed projects

34

Pipeline of projects

£1bn

Identified savings programme wide

£16.3m

Portfolio spend

24

Live projects

£380m

Enabled savings in cost reduction

1.7m TCO<sub>2</sub>

**Identified Carbon Reduction** 

£318m

Enabled savings in cost avoidance

#### Accelerator success to date



25

Start-ups supported



Funding & investment



Pilot projects secured



### 2.2x

Average team size growth



**20%** 

Female CEOs & founders



420

New jobs created for industry



16%

BAME CEOs & founders



HS2



## Programme Challenges

Jonathan Kelly – Senior Innovation Manager, HS2 Ltd Robert Cairns - Senior Innovation Manager, HS2 Ltd



# Automating Asset Management

How can we identify, monitor and manage the condition of rail assets?

How can we ensure the integrity and accuracy of asset condition data throughout its lifecycle?



# Futureproofing Operations

How can we detect cybersecurity vulnerabilities and safeguard critical rail systems (such as signalling, telecoms, controls etc) from cyber threats?

How can we identify, monitor and prevent hazards, obstructions, unauthorised access, and trespassing in real-time?



# Maximising Site Productivity

How can we automate on-site installation and fit-out (including civils, stations and rail systems) to improve productivity and reduce risk?





## Introduction to Connected Places Catapult

Jasmine Pollock - Accelerator Programme Manager



# WE ARE THE UK'S INNOVATION ACCELERATOR FOR CITIES, TRANSPORT AND PLACE LEADERSHIP

CONNECT MARKETS

SPARK OPPORTUNITIES

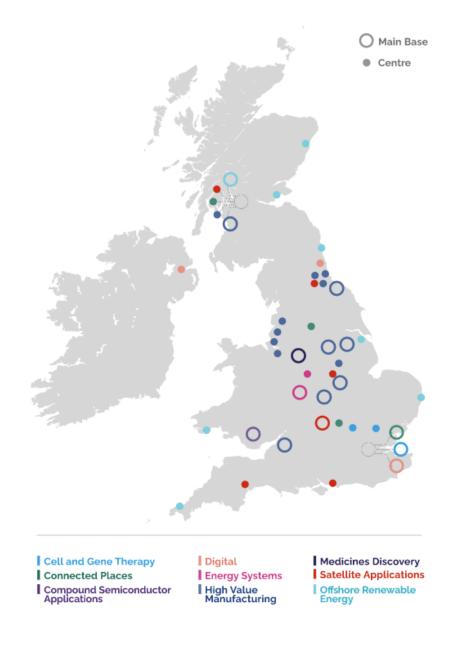
ACCELERATE GROWTH



## THE CATAPULT NETWORK WHO ARE WE?

The Catapult Network is a collective of independent non-profit organisations transforming the UK's capability for innovation in sectors of strength.

There are 9 Catapult centres in over 40 locations across the UK, with leading expertise in specific technology and/or sector domains.



## CONNECTED PLACES INNOVATION IMPERATIVES



Human Experience



Connected Intelligence



Climate Action

## CONNECTED PLACES MARKET VERTICALS



**Rail & Stations** 



Air Mobility & Airports



Integrated Infrastructure



Ports & Maritime



Homes & Housing



Cities & Place Leadership

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## CONNECTED PLACES ACTIVE ACCELERATOR PROGRAMMES



#### **Aviation & Airports**

Future of Air Mobility Accelerator



#### Maritime





#### **Roads & Networks**

National Highways – Low Carbon National Highways – Hazard Protection National Highways – Roadworks Freight Innovation Fund



#### **Rail & Stations**

Clean Futures
High Speed 2 (HS2)
Station Innovation Zone



## Integrated Infrastructure & Place Leadership

DIATOMIC Accelerator DfT Rural Transport DfT Decarbonisation





Jasmine Pollock - Accelerator Programme Manager



## **Upcoming Dates**



## **Programme Support**



## **Support Timeline**

#### **Bespoke 1-to-1 Mentorship**

Procurement Readiness | Investment Readiness | Marketing & PR | Commercial Strategy

#### Connect

with sponsors & stakeholders across HS2, supply chain & industry

#### Discover

the needs, challenges & requirements of sponsors & stakeholders

#### Identify

use cases & project ideas with sponsors & stakeholders

#### **Develop**

use cases & project ideas with sponsors & stakeholders

#### Submit

pilot proposal for funding & approvals by sponsor(s)

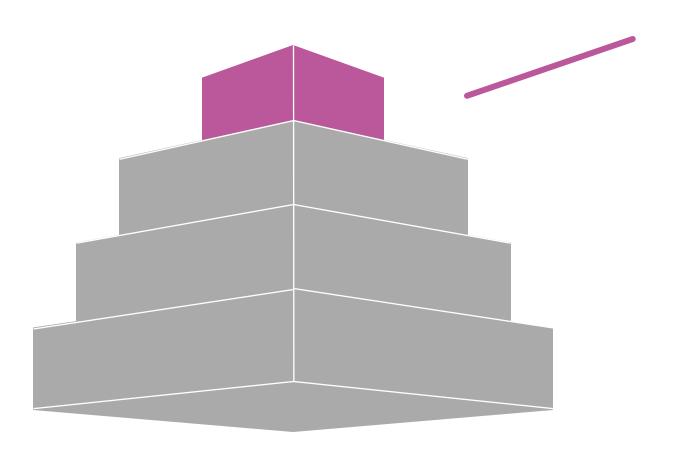
Month 1

Month 2

Month 3

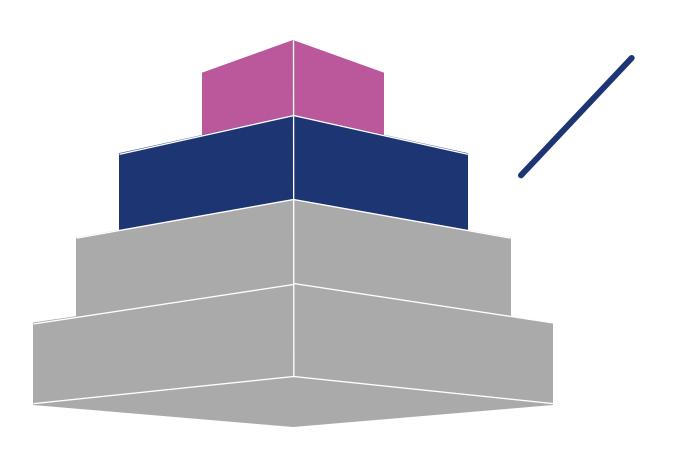
Month 4

Month 5



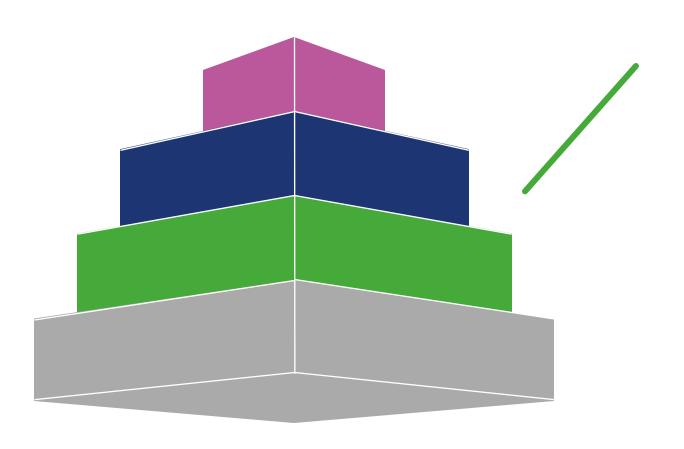
#### **Small Businesses**

- Bolster credibility & recognition
- Explore commercial project opportunities with HS2 and wider industry
- Unlock innovation funding for proof-of-concept projects
- Build new use-cases and bolster product-market fit
- Access to industry-specific tech investors



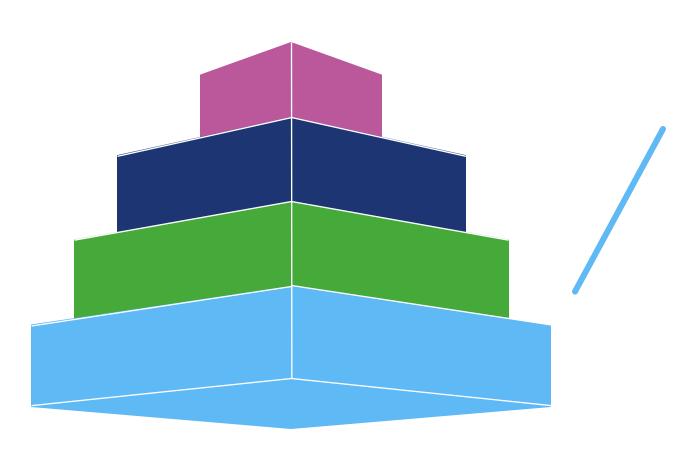
#### High Speed 2 (HS2)

- Support strategic goals & innovation legacy
- Enhance project agility and derisk decision-making
- Save cost and carbon from project baseline
- Future-proofing



#### **Wider Industry**

- De-risk innovative technologies and use-cases
- Collaborate on innovation projects to share learnings and value-add
- Catalyse industry step-change
- Attract new talent and new skills from future generations



#### **Economy**

- Cultivate entrepreneurship & innovation
- Create new jobs for future generations
- Influence policy-making to support new ways of working and emerging technologies

## **Programme Success**



25 start-ups supported



pilot projects awarded



£220m investment raised



2.2x average team growth



400+ applications received



**£20m** baseline cost savings



**420** 

new jobs created for industry



20% alumni with female founders / CEOs





Jasmine Pollock - Accelerator Programme Manager



## Eligibility



Applicants <u>must</u> be a micro, small or medium-sized enterprise



Applicants <u>must</u> be headquartered or based within the UK or Europe



Applicants <u>must</u> have a solution which is technology readiness level (TRL) 5+ (This means that the solution has been tested or demonstrated in its intended environment)

**FINANCIAL** 

**TECHNOLOGY** 

**PEOPLE** 

COMMERCIAL

FIT

#### **FINANCES**

- 1. Is the company profitable? Yes/No
  - If no, how many months of financial runway does the business have?
  - If less than 6 months, how do you plan to sustain operations throughout the programme's lifespan?
- 2. Has the business ever received grant funding or investment? Yes/No
  - If yes, please provide details including value and funder/investor.
- 3. Is the business planning to raise an investment round in the next 12-18 months? Yes/No
  - If yes, what funding stage will this round be?
  - If yes, what will the funds be primarily used for?

**FINANCIAL** 

**TECHNOLOGY** 

**PEOPLE** 

COMMERCIAL

FIT

#### **TECHNOLOGY**

- 1. Which challenge are you applying to?
  - Automating Asset Management
  - Futureproofing Operations
  - Maximising Site Productivity
- 2. What problem, in respect to the selected challenge, are you trying to solve and why? (150 words)
- 3. Please describe the solution, how it addresses the problem statement and why it is better than the current approach. (150 words)
- 4. How do the technical capabilities of your solution differentiate you from your competitors? (150 words)
- 5. What is your technology readiness level (TRL)?

**FINANCIAL** 

**TECHNOLOGY** 

**PEOPLE** 

COMMERCIAL

FIT

#### **PEOPLE**

- 1. What are the skills and experience of your current team? (150 words)
- 2. What are the strengths and weaknesses of your current team? (150 words)
- 3. How will the current team be developed or expanded in the next 12-18 months to address any weaknesses? (150 words)
- 4. How many full time staff do you currently employ?
- 5. Does the business operate as a consultancy firm?

**FINANCIAL** 

**TECHNOLOGY** 

**PEOPLE** 

**COMMERCIAL** 

FIT

#### **COMMERCIAL**

- 1. What commercial traction has the company had and what customers have been worked with to date? (150 words)
- 2. What project success has the company had and what measurable benefits have been realised for customers or partners? (150 words)
- 3. Who are your competitors and how do you differentiate from them? (150 words)

**FINANCIAL** 

**TECHNOLOGY** 

**PEOPLE** 

COMMERCIAL

FIT

#### **PROGRAMME FIT**

- 1. What is your intended use case / proposition for HS2? (150 words)
- 2. What would be the expected benefits or value-add based on this use case / proposition, and how would you measure these? (150 words)
- 3. What are the risks, dependencies, and assumptions of this use case / proposition? (150 words)
- 4. Is the company currently on a business support programme?
  - If yes, please specify which programme, the end date, and how you ensure you will commit adequate time and resource to this programme.
- 5. Can the company commit to attending in-person activities with project stakeholders across London and Birmingham?
- 6. Does any member of the company's team (who will be involved) identify as a person with a disability or a person with accessibility needs?

## **Scoring Criteria**



#### **TECHNOLOGY**

- 1. Impact
- 2. Feasibility
- 3. Novelty
- 4. Scalability



#### **COMMERCIAL**

- 1. Product Market Fit
- 2. Business Model
- 3. Market Potential
- 4. Financial Risk
- 5. ROI



#### **PEOPLE**

- 1. Skills
- 2. Experience
- 3. Team Potential
- 4. Operational Capacity



#### **PROGRAMME FIT**

- 1. Challenge Fit
- 2. Eligibility Criteria
- 3. Proposition Feasibility
- 4. Proposition Impact

25%

25%

25%

25%





## HS2 Accelerator 7.0

Live Q&A

