

# BridgeAI Launch Event

26th April 2023



Innovate  
UK



# Housekeeping



Fire bell test every Friday at 11:00.

No action should be taken, if the bell rings any other time, please leave the building immediately. Nearest fire exit – outside this room, opposite the double doors.



The assembly point is Trinity Square Gardens opposite the exit of Tower Hill Underground Station - off Coopers Row.

The fire alarm for this building is a one-stage continuous alarm and an automatic announcement.



Toilet facilities are located on this floor at the bottom of the stairs. Ladies are next to the cloakroom and gents further down the corridor on the left.

# Digital Brochure





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# Introducing BridgeAI

Will Drury, Interim Executive Director  
Digital & Technologies  
Innovate UK





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# Closing Remarks

Esra Kasapoglu,

Director of AI and Data Economy

Innovate UK





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# Meet the Partners





# BridgeAI Innovate UK

Dr Claire Morris

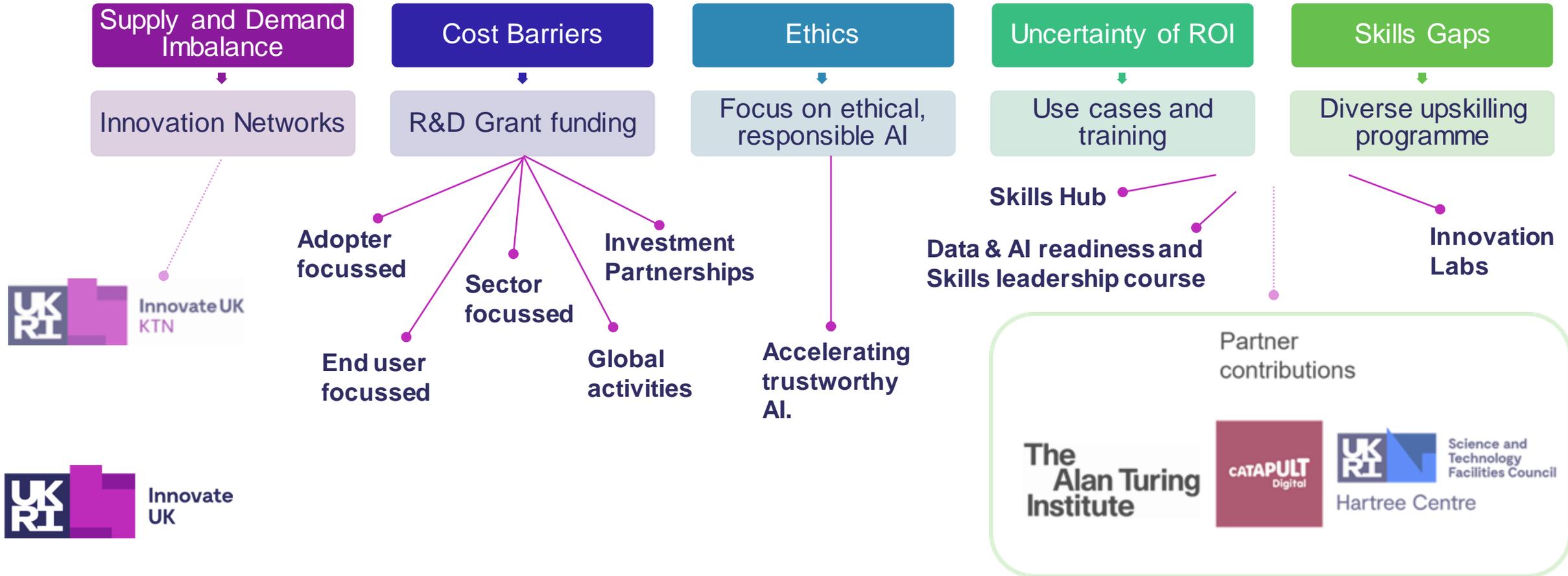
Innovation Lead – BridgeAI

[Claire.morris@iuk.ukri.org](mailto:Claire.morris@iuk.ukri.org)



# BridgeAI

# Opportunities

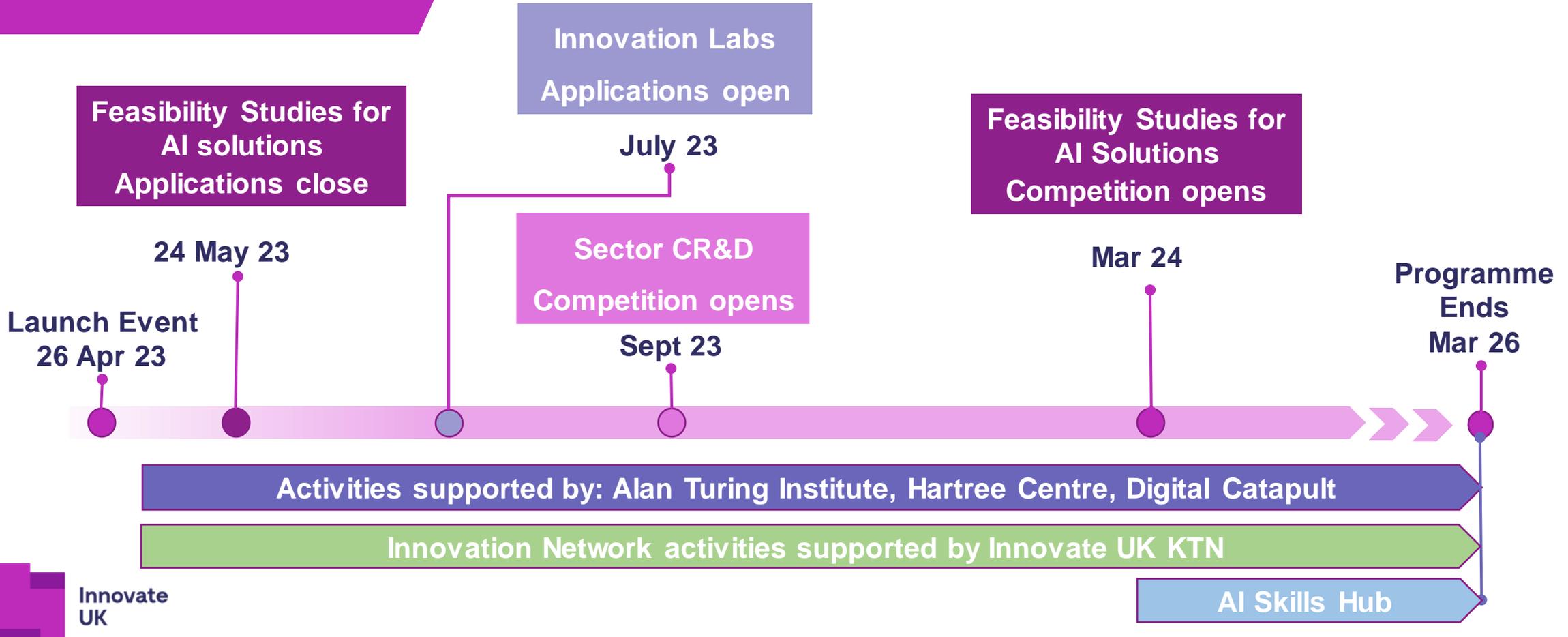


# BridgeAI

Adopter focussed

Priority Sector AI Solution development

End user focussed



# BridgeAI

# Feasibility Study for AI solutions

up to  
£5m

**Key Dates:** Applications close **24<sup>th</sup> May 2023**

**Grant:** Up to **£50,000**

**Projects:** **4-6 month** collaborative AI innovation projects

**Scope: Adopter focussed R&D in key sectors.**

Awards will be granted to applications that demonstrate how they can address business challenges and opportunities to drive an increase in productivity using AI, in collaboration with an AI developer or academic organisation.

**Apply Now:** <https://iuk.ktn-uk.org/opportunities/feasibility-studies-for-artificial-intelligence-solutions/>

# BridgeAI

# Sector CR&D

**Key Dates:** Competitions open **Sept 2023**

**Grant Strand 1:** Up to **£100k** for single **SMEs**

**Grant Strand 2:** Up to **£1.2m** for **collaborative consortia**

**Projects (1)** 6 month feasibility studies

**(2)** 12 month collaborative AI projects

up to  
**£32m**



**Scope: Priority Sector AI solution development.**

Awards will be granted to R&D applications that develop AI and ML solutions addressing priority sector business challenges and opportunities.

Strand 2 projects will be required to have representation from an academic partner and demonstrate research commercialization.

<https://iuk.ktn-uk.org/programme/bridgeai/>



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# Thank you



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AI



RAS

# Innovate UK KTN

26<sup>th</sup> April 2023

P Williams – Head of Complex Systems

[www.ktn-uk.org](http://www.ktn-uk.org)



Innovate UK  
KTN



## About Us

Innovate UK KTN (IUK KTN) exists to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.



Innovate UK  
KTN

# Our Network



**46,229**  
Unique  
Organisations



**72%**  
Small

**15%**  
Medium

**13%**  
Large



**234,478**  
innovators



Every university in  
the UK



## Bridge AI Innovation Network

We convene diverse communities of innovators.

Our **Innovation Networks** unite some of the best minds and greatest thinkers from across the UK in areas of innovation, development and new technologies.

[BridgeAI.net](https://BridgeAI.net)



## Support for Innovators

KTN can help you accelerate your innovation. We do this by connecting ideas, people and communities to respond to challenges and drive positive change. We can make introductions to new business partners, help you find collaborators for grants and project delivery, and introduce you to new market opportunities and customers.



## Ignite Labs x BridgeAI

Helps businesses that are early on in their AI journey navigate the AI landscape in the UK and gain access to the tools, knowledge, and resources to explore how and when to use AI.



**Dr Lily Dixon**

Ignite Labs x BridgeAI programme Lead





## Knowledge Transfer Partnerships

Building long-lasting connections and collaborations between the working and learning worlds. Graduates, businesses and academic institutions come together to solve challenges through innovation.



## Innovation Exchange

Innovate UK KTN's **Innovation Exchange** programme connects companies with specific challenges to innovators who are already working on the solutions. Our unique cross-sector approach connects businesses with opportunities beyond their existing thinking.



**Find out more**

**@BridgeAI.net**

Phil Williams – [Phil.Williams@iuk.ktn-uk.org](mailto:Phil.Williams@iuk.ktn-uk.org)

[www.ktn-uk.org](http://www.ktn-uk.org)



**Innovate UK**  
KTN

# Digital Catapult

**Katy Ho**

Head of Innovation Practice

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Digital Catapult - the UK authority on advanced digital technologies

Digital Catapult's mission is to accelerate industry adoption of advanced technologies, driving growth in the UK economy.

We break down barriers, de-risk innovation, and responsibly shape the products, services and experiences of the future.

We create new opportunities through collaboration with a wide range of organisations and new ways of solving industry challenges, increase productivity and open up new markets.



## What we do



Deliver specialised **acceleration** and **innovation programmes** aligned to Industry challenges and themes



Build **testbed facilities**, **run pilots** and **proof of concepts** and test new business models



Facilitate **R&D projects**, inform policy recommendations and lead research on emerging tech trends

## Who we work with



Government & public sector



Startups & scaleups



Corporates & industry



Investors



Academia



Catapult Network



# Areas of focus and cross technology applications

Virtualisation & cyber-physical systems

Digital and resilient supply chains

Open and interoperable digital Infrastructure



Future Networks –  
5G - IoT



Immersive  
technologies



Artificial Intelligence  
and machine learning



Distributed ledger  
technologies and  
distributed solutions



Quantum  
technologies

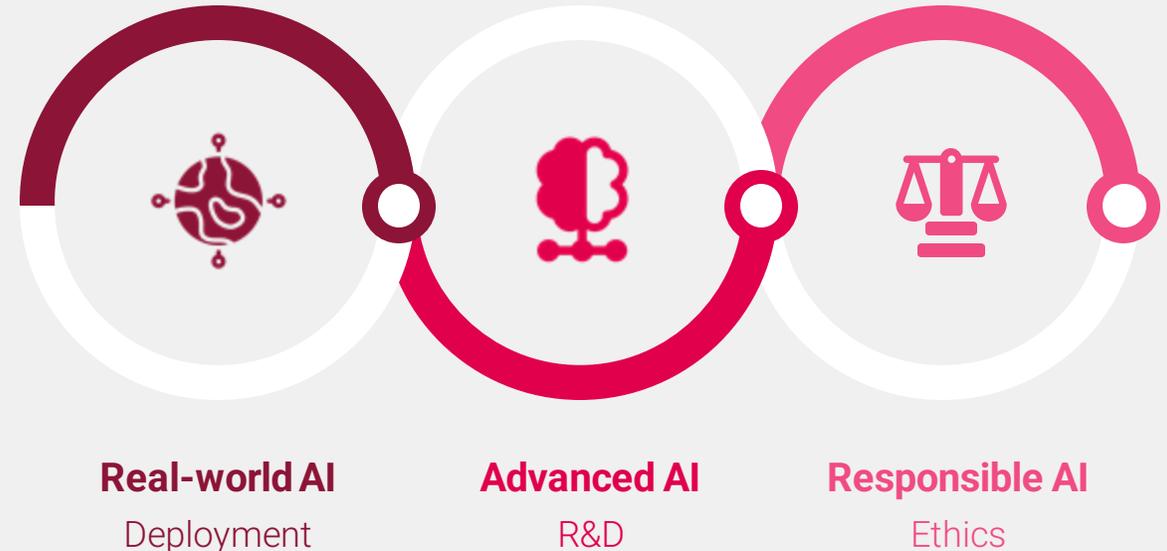
## Our AI/ML Strategy and role in BridgeAI

Within Bridge AI we will foster **collaboration between supply and demand** for AI solutions, build the **foundations for digital and data and responsible technology** readiness and encourage private investment to help scale solutions.

Specifically:

- Connecting businesses in key-target sectors with AI experts
- Supporting responsible AI Adoption: AI Ethics, Data Maturity and Data Readiness
- Providing access to a network of investors and insight into the fundraising process
- Providing technical expertise and offering access to technical resources

### Augmenting human decision-making



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## Our BridgeAI offerings



### Expert Working Groups

The BridgeAI Expert Working Groups (EWGs) will play a critical role in coalescing and aligning the UK's bustling AI developer community with industry players in the agriculture, transport, construction and creative industries.



### Business & Technology Acceleration

Providing startups and scaleups with access to technical and business expertise and an experimentation space to help them develop responsible, ethical and desirable AI and ML deep-tech solutions.





## Training & Targeted Workshops

Hosting a series of training and workshops on the following topics:

- ▶ End-to-end Digitalisation journey
- ▶ AI SMEs and Industry Collaboration
  - ▶ AI SMEs Community and Investors Engagement



## Resources & Toolkits

Offering resources to help organisations in their digital transformation journey:

- ▶ Digital Maturity and Digital Transformation Framework
- ▶ Data Maturity and Readiness Framework
- ▶ Data Strategy and Governance Framework
  - ▶ Data Ethics Training and Toolkit



# Thank you!

Contact us

[bridgeai@digicatapult.org.uk](mailto:bridgeai@digicatapult.org.uk)

# The Alan Turing Institute

## Our goals

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Innovate and develop world-class research

Solve real-world problems

Build skills for the future

Drive an informed public conversation



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# The Alan Turing Institute – our role in Bridge AI

The Turing will convene unique expertise across AI and data science to provide:

1. **AI independent scientific advice** – getting ‘under the bonnet’ and providing mentoring to end-users with AI challenges
2. **AI upskilling** – harnessing the UK data science and AI community to accelerate the development of AI capabilities in low-adoption sectors
3. **AI standards expertise** – collaborating with the UK AI Standards Hub to promote AI innovation and lower barriers to adoption

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# 1 - AI independent scientific advice

The Turing will source data science and AI experts from within its extensive network to support Bridge AI participants with:



**Advising** –  
Providing  
independent  
unbiased expert  
advice about AI



**Mentoring** – for  
data and AI  
practitioners, and  
for executives  
who need it



**Inspiring** - talking  
to boards about  
AI challenges and  
opportunities  
and why it  
matters

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## 2 - AI upskilling

The Turing will harness the UK data science and AI community to accelerate the development of AI capabilities. We will:

1. **Support the delivery of online training tools**, together with the Turing community, targeted to the needs of Bridge AI participating organisations
2. **Provide advice and bespoke training** in areas of common interest, with a focus on 'new' or 'new to me' areas in AI
3. **Enable access to the Turing Way**, for data and AI practitioners who are a little more advanced on their AI journey



### 3 - AI Standards expertise

The Turing is leading the UK AI Standards Hub, together with the British Standards Institute (BSI) and the National Physical Laboratory (NPL).

For Bridge AI Participants we will provide privileged **access to the UK AI Standards Hub capabilities** including:

Access to our online community and training via the Hub's web platform

Bespoke delivery of workshops on AI standardisation, and related topics (e.g. AI ethics)

Reviewing the standards landscape and developing roadmaps, to support low adoption sectors on working with recognised AI standards

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# Benefits of working with the Turing

**We are the UK's national institute for data science and artificial intelligence.**

This makes us well placed to support Bridge AI participants with some of the more challenging issues you may face on their adoption journey. Some of the specific benefits of working with us are:

- **AI independent scientific advice** – Access to direct tailored support from leading experts in the field, and those with direct experience of working with industry on implementation of AI and data science solutions.
- **AI upskilling** – Access to our wide range of training materials, allowing you to keep up to date with the latest tools and techniques in AI and data science, alongside opportunities to shape future training offers to suit your specific challenges.
- **AI standards expertise** – Building understanding of how standards and certification can help solve challenges you face as a provider or adopter of AI solutions. Including identifying where new standards may be needed to help develop your business.



Science and  
Technology  
Facilities Council

Hartree Centre

# The Hartree Centre

Introduction

**Duncan Sime**

Head of Business Development

# Our mission

Transforming UK industry by accelerating the adoption of high performance computing, big data and AI technologies.

# What we do

- **Collaborative R&D**  
Define a challenge in your business and we build a team to deliver a solution
- **Platform as a service**  
Give your own experts pay-as-you-go access to our compute power
- **Creating digital assets**  
License the new industry-led software applications we create with IBM Research
- **Training and skills**  
Drop in on our comprehensive programme of specialist training events or design a bespoke course for your team



# Capabilities

- Modelling and Simulation
  - High Fidelity capability
  - Detailed Engineering Analysis
  - Chemical Reactions at a Molecular Level
  - Code Coupling/Multi-Scale and Multi-Physics
- Code Optimisation
  - Current and Future Computing Architectures
- Data Science and AI
  - Automate Inspection using ML and DL
  - Improve understanding of the regulatory environment using NLP
  - Increase productivity with Big Data Analytics
- Developing Digital Twins
  - Data+Physics\_Modelling+Visual\_Computing = The Holy Grail!



# Our role in Bridge AI

- **Access to experts**
  - Informing companies of the benefits and requirements of data foundations to use AI
  - Supporting companies to identify where data science and AI solutions can be integrated to deliver gains in performance, productivity and time to market
- **Training and skills**
  - Helping businesses to explore data-driven and AI technologies, enabling better decision making and development of digital-ready roadmaps
- **Access to supercomputers**
  - Using Hartree Centre high performance computing platforms to speed up calculations and simulations and solve sector challenges





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# Questions?





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# Lunch & Networking



# Sector Panel Discussions

MAPS





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# What do companies need to do to adopt and innovate with AI?



# Featuring:

Peter Lee  
British Standards Institution representative

James Fletcher – Lead Responsible Data & AI  
BBC

Rosie Bennett - COO  
[mystic.ai](https://mystic.ai)

**Moderated by:**  
Madalina Nazare, Director of CR&D, Digital Catapult





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# Thank you



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