

Responsible AI UK (RAi UK)

An Ecosystem for Responsible AI in the UK and beyond



UK Research
and Innovation



University of
Nottingham
UK | CHINA | MALAYSIA

Our Vision

Responsible Ai UK (RAi UK) will enable Responsible and Trustworthy AI to power benefits for everyday life

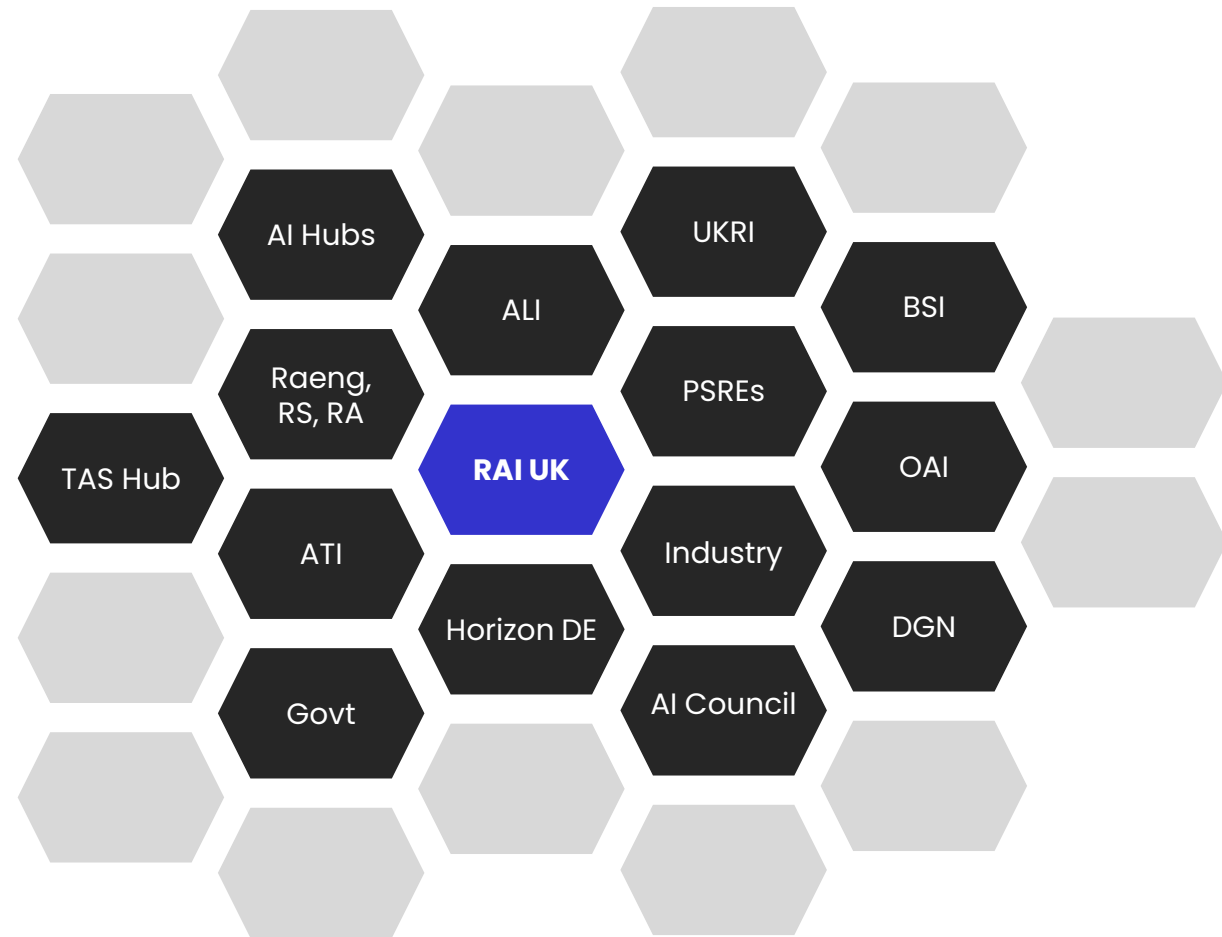
Taking a socio-technical view, Responsible AI is about the responsible development, deployment, and use of AI.



Connecting the Ecosystem

At the heart of our mission is the ambition to convene and connect a rich and diverse ecosystem of researchers and innovators across the UK.

Using RAI UK as a platform, we champion an ethos of working together to develop a national conversation about AI that prioritises responsibility and societal benefits



Our USPs



TRUSTED EXPERTISE:

RAi UK provides Research Driven Expertise on Responsible AI building on over 20 years of interdisciplinary research. Our 20-strong research team is ready to work with government and industry to deliver advice and undertake research on emerging challenges.



RESEARCH FUNDING:

RAi UK is deploying more than £15m into research projects to fill the gaps in the RAI research landscape and amplify the work of aligned programmes. Our research projects will involve over 300 researchers by end of 2024.



CONNECTOR & CONVENER:

RAi UK convenes working groups, events, workshops, and other activities to glue the AI Ecosystem in the UK and ensure the community is engaged internationally to construct a Responsible AI future.

RAi UK Team



A Diverse Team: Disciplines, Gender, Backgrounds, Nations



Prof. Dame Muffy
Calder



Prof. Tom
Rodden



Prof. Sarvapali (Gopal)
Ramchurn



Prof. Dame
Wendy Hall



Dr Kate
Devlin



Prof. Gina
Neff



Prof. Jack
Stilgoe



Prof. Maire
O'Neill



Prof. Derek
McAuley



Prof.
Matt Jones



Prof. Joel
Fischer



Prof. Elvira
Perez



Dr Caitlin
Bentley



Prof. Prokar
Dasgupta



Prof. Sana
Khareghani



Dr Shoaib
Ehsan

Our Partners

OFFICIAL



What we've been up to since we started

2023

- 26/06/2023**
Event: London Townhall
- 31/07/2023**
Funding call: International Partnerships call launched
- 19/09/2023**
Event: Creative Industries: Writing & Publishing Roundtable
- 11/10/2023**
Event: Cardiff Townhall
- 30/11/2023**
Funding call: Keystone Projects call launched
- 04/12/2023**
First RAi UK webinar/Seminar
- 01/05/2023**
Milestone: RAi UK begins
- 07/07/2023**
Funding call: Impact Accelerator call launched
- 11/09/2023**
Event: Belfast Townhall
- 25/09/2023**
Event: Glasgow Townhall
- 30/10/2023**
Event: RAi UK at the AI Fringe
- 01/12/2023**
Milestone: Impact Accelerator projects start

2024

- 22/03/2024**
Event: Partner Network Townhall
- 01/02/2024**
Milestone: Satellite Projects start
- 15/04/2024**
Funding call: Skills call launched
- 01/05/2024**
Event: Responsible Tests for the Public Procurement of AI
- 07/05/2024**
Event: CogXFestival
- 10/06/2024**
Research: Integrator Sandpit begins
- 27/06/2024**
Event: AI in Health and Social Care
- 01/09/2024**
Milestone: Skills projects begin
- 01/02/2024**
Milestone: International Partnerships start
- 22/03/2024**
Brand: Launch of new RAi UK identity
- 09/04/2024**
Event: Responsible AI Community Building Event
- 01/05/2024**
Milestone: Keystone Projects start
- 02/05/2024**
Event: Integrating EDI/RRI into research
- 04/06/2024**
Event: AI and Net Zero Showcase
- 14/06/2024**
Research: Roundtable with Keystone Projects
- 27/06/2024**
Milestone: AI Champions announced
- 10/09/2024**
Event: RAi UK All Hands Meeting

Our Research Projects

RAI UK SECTORS

		1	2	3	4	5	6	7	8	9	10	11	12
Cultural and Creative Industries	Amplify												
	MusicRAI												
Defence and Security	AIPAS												
	PROBABLE Futures												
Health and Wellbeing	AEGIS												
	RAI4MH												
	DOMINOS												
	Ethical AI for Healthcare												
Science, Innovation and Technology	Public Voices in AI												
	RAISE												
	AI for Electoral Oversight												
	TAS Hub / Good Systems												
	Economic Landscape Analysis												
	RAKE												
	AdSoLve												
Transport	Robot Autonomy in Public												
Education	For the FATES of Africa												
	SAGE-RAI												
Governance, Regulation and Policy	AI Regulation in Safety-Critical Systems												
	PHAWM												
	AI Equality by Design												
	Transparency Regulation Toolkits												
	Responsible AI in Developing Countries												

1	AI fairness & bias
2	Culture
3	Data quality
4	Education & skills
5	Infrastructure
6	Labour & jobs
7	Public attitudes
8	Quality of life
9	Regulation, policy, law
10	Society & public services
11	Sustainability
12	Verification

RAI UK THEMATIC CLUSTERS



How we develop our research

Bottom up and top down approach

- Top down: developing research that complements and enhances the wider portfolio, by identifying gaps and synergies
- Coordinating activities across our three Keystone projects, two Satellite projects, and our Impact Accelerator and International Partnerships projects (e.g., webinars, conference)
- Thematic strategy and landscape mapping
 - Umbrella review, global programmes review
- Bottom up: creating new activities, integrate new collaborators and partners through co-creation activities
 - E.g., Integrator and International sandpits, new 18 month-long projects starting

The sandpit process

Developing collaborative and interdisciplinary Responsible AI research

RAi UK Integrator Sandpit, London



The DNA of a sandpit



Pivotal question: How can we bring delight, flourishing and fulfilment to individuals, communities, organisations and societies through the responsible design, deployment, and use of AI?

Interdisciplinary

Collaborative ideas and solution generation

Unexpected projects evolve

Sets solid foundations for virtual project working

Residential

Intensive

Enjoyable

Result in exciting projects that are interdisciplinary, interinstitution and international project teams





Sandpit Agenda

	Sunday 22nd	Day 1 Monday 23rd INTERACT & CLARIFY	Day 2 Tuesday 24th CREATE	Day 3 Wednesday 25th DEVELOP	Day 4 Thursday 26th IMPLEMENT
am		Purposeful networking whilst exploring the topic	Creating ideas 1	Creating and developing potential projects 3	Mentor feedback Final preparation for presentations
pm	Organising Team, Facilitator and Mentor Briefing	Understanding the topic.	Exploring ideas 2	Peer Review and Mentor Feedback	Mentor feedback and Sandpit close
Eve	Director and Mentors host dinner	Informal networking	Informal ideas development	Preparing for draft presentation submission (20.30 finish)	

Assessment criteria



- How does the proposal answer the pivotal question?
- Quality of research idea – novelty, ambition, transformation
- Suitability of proposed methodologies
- Program of work — novelty, objectives, risk mitigation
- How has EDI and RRI been considered in writing the proposal and the planned work
- Resources and Management – justification of project team and budget



ARTful Intelligence



Show me a Story about AI

Creativity is a core pillar of RAI UK.

(RQ1) How are creative communities experiencing the emergence of AI in the Arts and what stories do they tell about AI?

(RQ2) Which values underpin these narratives?

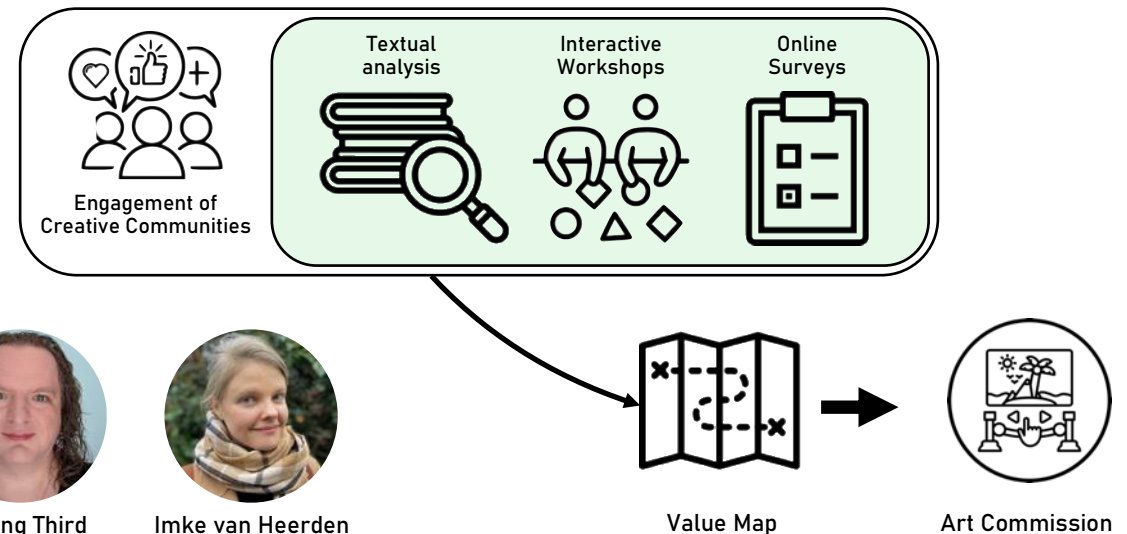
(RQ3) How can an appreciation and understanding of these values inform novel forms of art and creativity?

The project emphasises the engagement with creative communities.

Using a multitude of research methods, e.g., art-historical & philosophical analysis, surveys, and participatory workshops, we will identify narratives surrounding the use of AI in the arts.

In collaboration with artists, these narratives will be synthesised into a value map.

This will result in the commissioning of value-sensitive artworks focusing on community engagement at a publicly accessible interactive exhibit.



Pepita Barnard



Liz Douthwaite



Joshua Kelsall



Sarah Kiden



Eike Schneiders



Aisling Third



Imke van Heerden

Co-development of Culturally Sensitive Approaches for Prompt Engineering (CulturAI)

AI systems are value-laden and reflect the societal values, narratives and priorities embedded in their design. These cultural narratives or contexts, that are built in through data or algorithms, influence the outputs from GenAI systems.

OBJECTIVES

- To conduct an analysis of the existing landscape of approaches to prompt engineering.
- To conduct stakeholder engagement activities to collect diverse data on relevant values, views, perceptions and attitudes on culturally sensitive prompts.
- To use the insights to develop a toolkit for training/ improving AI systems to be culturally sensitive.

TEAM



Aistinn Gomez
Bergin (UoN)



Gisela Reyes
Cruz (UoN)



Damian Eke
(UoN)



Sarah Kiden
(UoS)



Maira Klyshbekova
(KCL)



Paschal Ochang
(UoN)



Lokesh Singh
(UoS)



Tayyaba Azim
(UoS)



Yi Dong
(UoS/UoL)



Tuyen Nguyen
(UoS)

Embodied AI in Social Spaces: Responsible & Adaptive Robots in Complex Settings

Aim: The aim of this project is to develop approaches for responsibly implementing adaptive multi-human multi-robot (MHMR) systems in complex social environments that addresses socio-technical issues of deploying such systems.

Team:

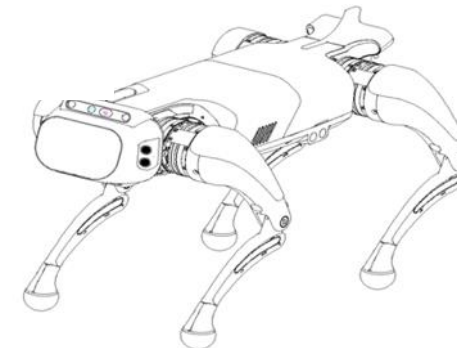
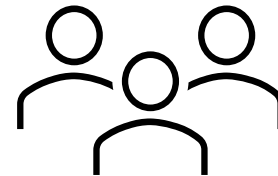
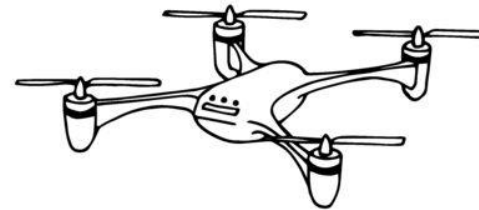
Ayodeji Abioye, Aleksandra Landowska, Aislinn Gomez Bergin, Dominic Price, Jayati Deshmukh, Tuyen Nguyen, Yi Dong Athina Georgara, Lokesh Singh, and Rafael Maestre.

Advisory Board:

Joel Fischer, Shoaib Ehsan, and Gopal Ramchurn.

Project Partners:

BAC-IN, Blueskye AI, Mendi, MHRA, and NICE.



RAi UK International Sandpit - INDIA



RAi UK International Sandpit – Funding model



Joint funding by RAI UK and international partner

RAi UK funds

- the event
- the UK researchers to participate
- and their time to contribute to the project (salary, travel, consumables)

CeRAI funds

- The India researchers time to contribute to the project (salary, travel, consumables)



RAi UK International Sandpit – Pivotal question



‘In what ways can diverse demographics in India and the UK drive responsible AI innovations in the technological and social domains?’



Roles and Responsibilities – after the Sandpit

