

# AI4Nuclear



## Meeting 3

7<sup>th</sup> February 2023

# AI4Nuclear



14.00 Introduction & Welcome

Mark Bankhead, NNL

14.10 Presentation 1: Deep Learning in Image Anomaly Detection –

Sadra Bolourian, Surrey University

14.35 Presentation 2: Machine Vision for Glovebox object recognition

Richard French i3D Robotics

15.00 Presentation 3: automatic defect recognition on Bridge Structures

Andy Hassall, Waldeck

15.25 Presentation 4: AI Standards Hub

Jacob Pratt, Alan Turing Institute

15.50 AOB / Wrap up

16.00 Close

# AI4Nuclear – News and Events



## UKRI Artificial Intelligence Call

Centres for doctoral training, up to £117 million available:

[UKRI Centres for Doctoral Training in artificial intelligence – UKRI](#)

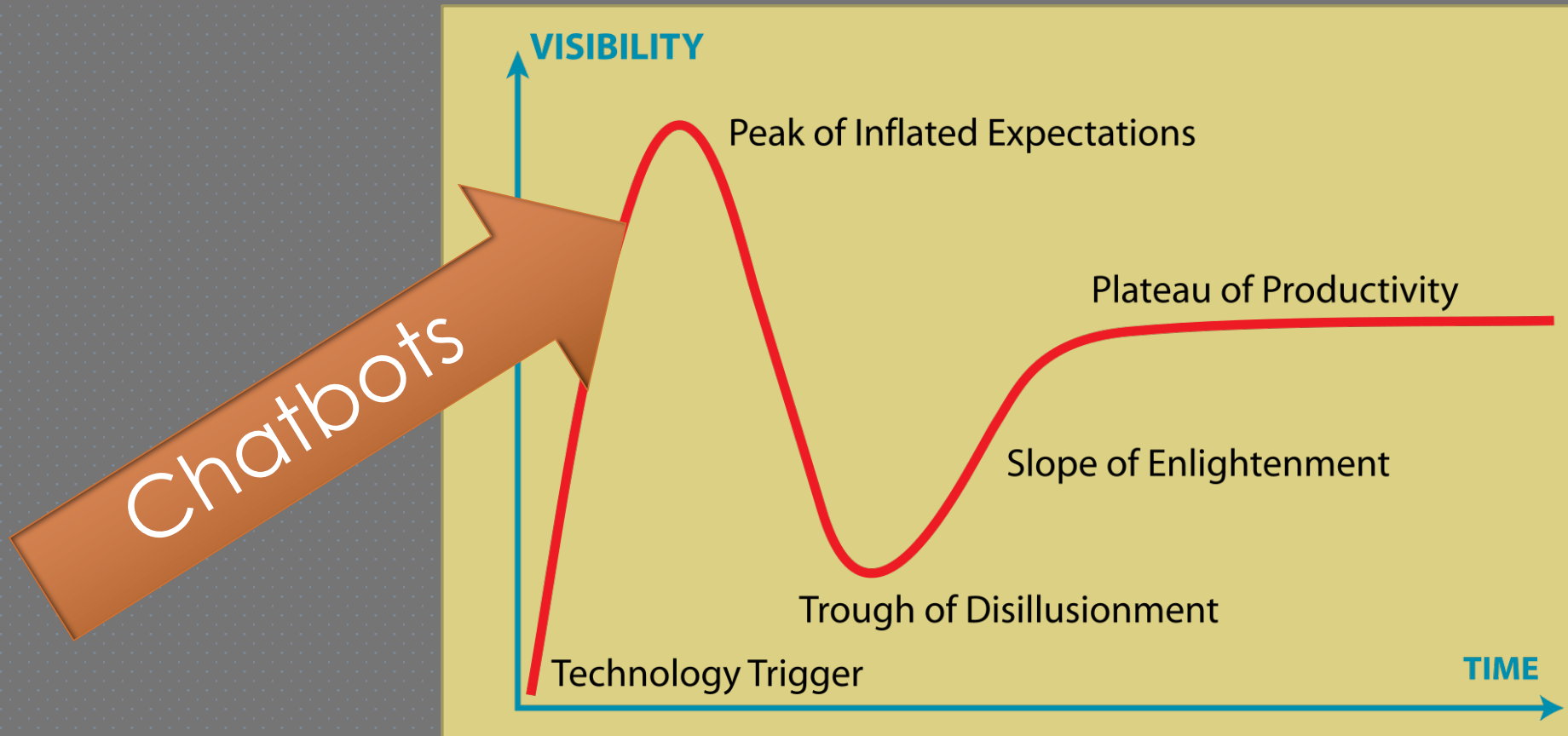
AI Hubs for real data and science and engineering research, £75 million:

[Artificial intelligence hubs for real data and for scientific and engineering research – UKRI](#)

Global leaders in AI, £20 million in two rounds to establish world leading researchers:

[Turing Artificial Intelligence Fellowships - GOV.UK \(www.gov.uk\)](#)

# AI4Nuclear – News and Events



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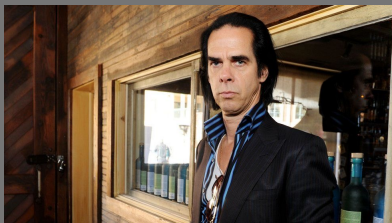
## [ChatGPT Passes Google Coding Interview for Level 3 Engineer With \\$183K Salary \(pcmag.com\)](#)

Amazingly, ChatGPT gets hired at L3 when interviewed for a coding position, reads a Google document, but ChatGPT itself says it can't replicate human creativity and problem-solving skills.



## [Google launches AI chatbot Bard to rival wildly successful ChatGPT | Science & Tech News | Sky News](#)

Google's parent firm Alphabet Inc announced the release of the conversational AI service, which will be rolled out to "trusted users" before its public release in the coming weeks.



## [Nick Cave says ChatGPT's AI attempt to write Nick Cave lyrics 'sucks' - BBC News](#)

"Thanks for the song, but with all the love and respect in the world, this song is bullshit, a grotesque mockery of what it is to be human, and, well, I don't much like it"

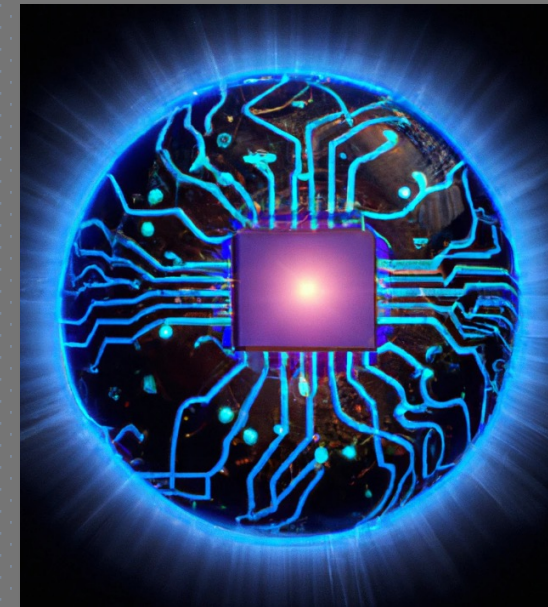
# AI4Nuclear



## The Power of Artificial Intelligence for Nuclear

The potential for clean, efficient, and safe nuclear energy is a tantalizing prospect for those looking to reduce their carbon footprint. By harnessing the power of nuclear fission, the world could have access to an inexhaustible, clean energy source that produces minimal waste.

The ability to control and manipulate energy on a grand scale brings with it a unique set of challenges and opportunities. In the realm of nuclear energy, artificial intelligence has the potential to revolutionize the way we use and manage the power of the atom.



# AI4Nuclear



## Meeting 3 - Talks

7<sup>th</sup> February 2023

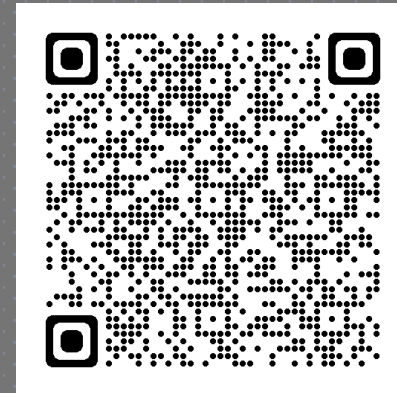
# AI4Nuclear



## Next Meeting & Calendar

Meeting to discuss developing a technical paper on the application of AI for Nuclear

<https://calendly.com/d/x4k-mdb-2vy/technical-paper-on-the-application-of-ai-in-nuclear>





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## AI4Nuclear meetings

Next meeting Tentatively for April/ May 2023 (online)

- Suggestions for topics include chatbots and nuclear

Workshop on AI standards, tentatively Summer 2023