

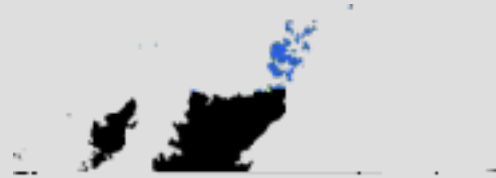
Removing barriers from AI startups

Machine Intelligence Garage

Driving the UK Economy ! through digital innovation

Our Centres

- London
- Brighton
- North East and Tees Valley
- Northern Ireland



The Technologies

☀ Artificial Intelligence

The Challenges

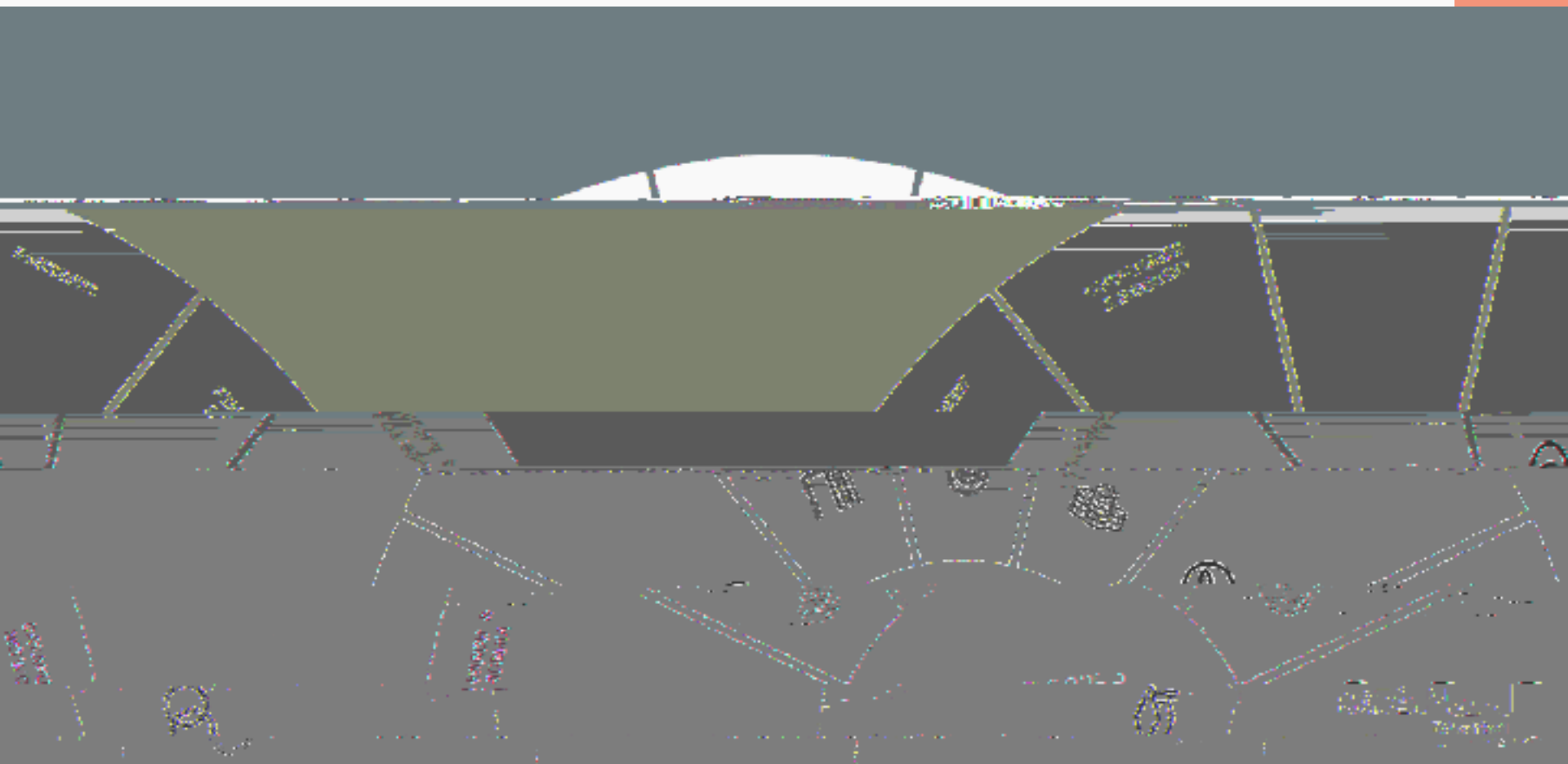
Lack of access to facilities

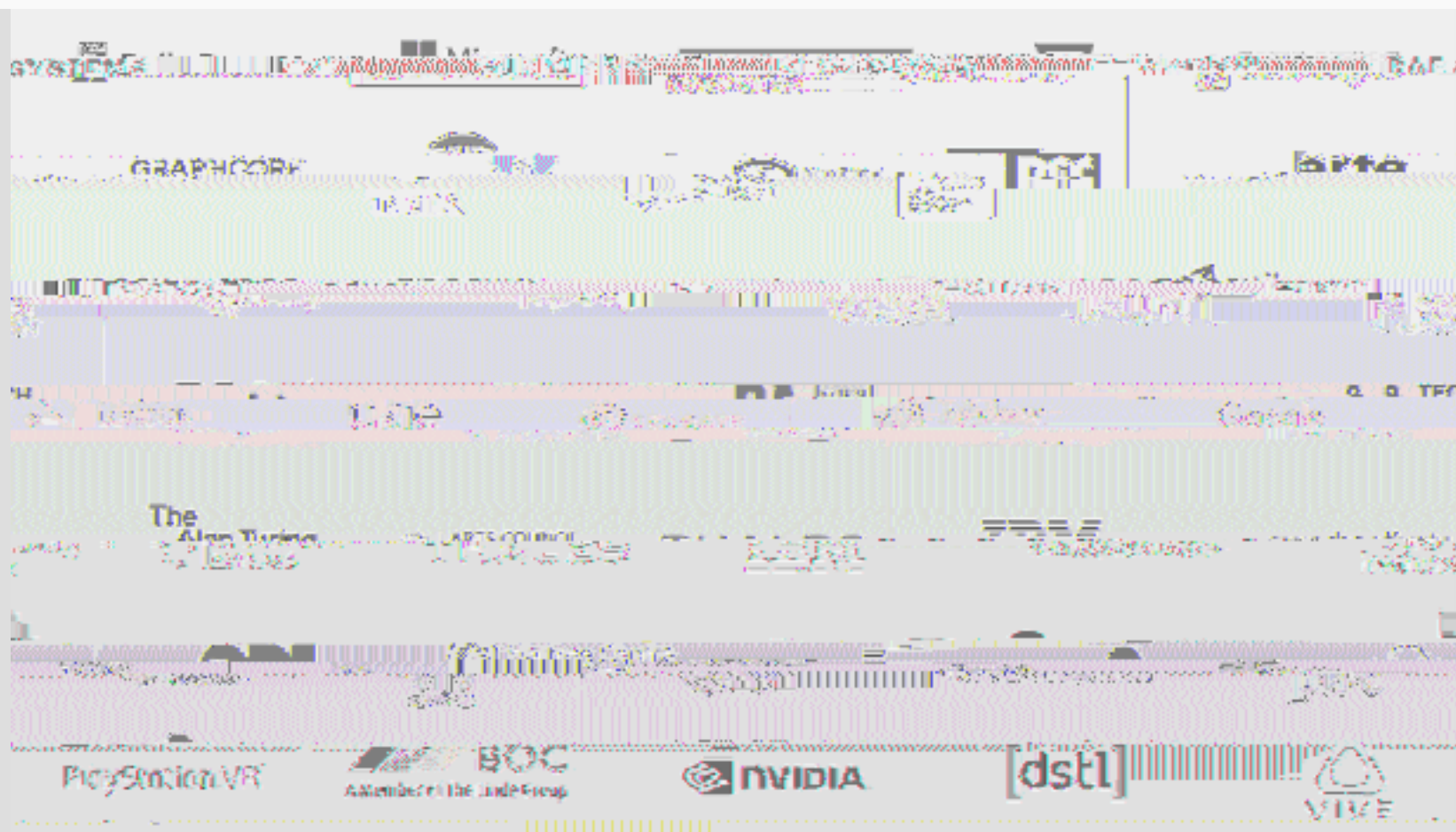
🕶 Immersive

📶 Edge Computing

Applied into high impact industries – advanced digital technologies will only reach their full potential when applied







WORLD LEADING AI RESEARCH

4th

Globally by number of publications in AI & ML (behind US, China & Japan)

£69m

EPSRC funds in AI/ML projects to date

4 of Top 20

Global Universities for Computer Science based in UK

3rd

Globally by no. of citations in AI & ML (behind China & US)

134

EPSRC grant funded projects

2nd

Globally after US for Impact (as measured by H-index)

46

EPSRC funded institutions in AI & ML



AI+ML EARLY STAGE LANDSCAPE

ncventures.com/wp-
s/2017/10/The-State-of-
on-Point-Summary.pdf



Unpaired Image-to-Image Translations

with Self-Supervised Adversarial Networks

Jun-Yang Zhu, Taesung Park, Donglai Peng, and Taehoon Kim
Korea University, Seoul, Korea

Summer Winter Monet Photos Zebras Horses





A tool to be integrated into digital products.

Ultimately, it's not just hype, but it's also not going to do everything

There are concerns, but we are in a position to make a difference

What's holding us back? 🤖

Machine intelligence companies face specific barriers:

- ! Access to talent
- ! Access to training data: cost, quantity & privacy
- ! Access to computation: speed, cost & expertise
- ! Industry adoption
- ! Ethics



Hosted hardware (NVIDIA DGX-1 and Graphcore IPUs)



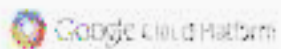
Cloud computing vouchers



Access to existing UK HPC infrastructure



Demo and Experimentation Space with new ML chips



Rolling open call, applications assessed every 8-10 weeks;

Criteria:

- ! AI-Enabled Product or Service Idea
- ! Strong Tech Team
- ! (Early Stage)
- ! Immediate Need for Computation
- ! Data Ready
- ! [Ethical Use of AI](#)

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Impact



- Health
- Manufacturing
- Recruitment
- Other



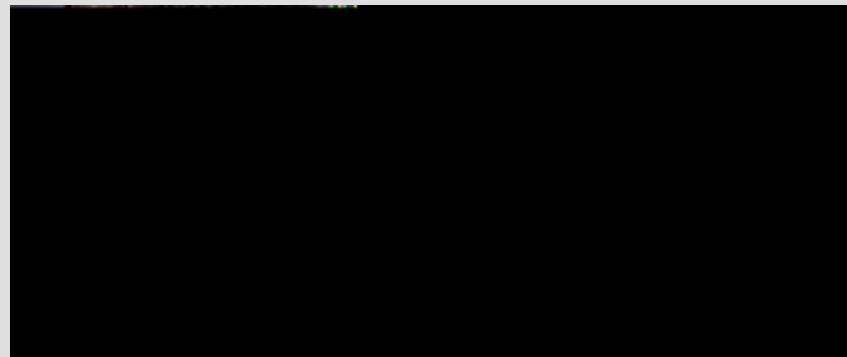
Cambridge Bio-Augmentation systems (CBAS)

Prosthetics using neural signal integration,
Including a “prosthetic interface device”
AI = Deep neural net for predicting behavioral
data from neural activity

Cohort #1 - HPC (Hartree centre)

NVIDIA AI inception pitch day in March

They are hiring!



Generative Tensorial Networks (GTN)

Drug discovery company, using DNNs for compound classification.

Cohort #1 - GCP voucher

£2.1 Mil funding + new hires

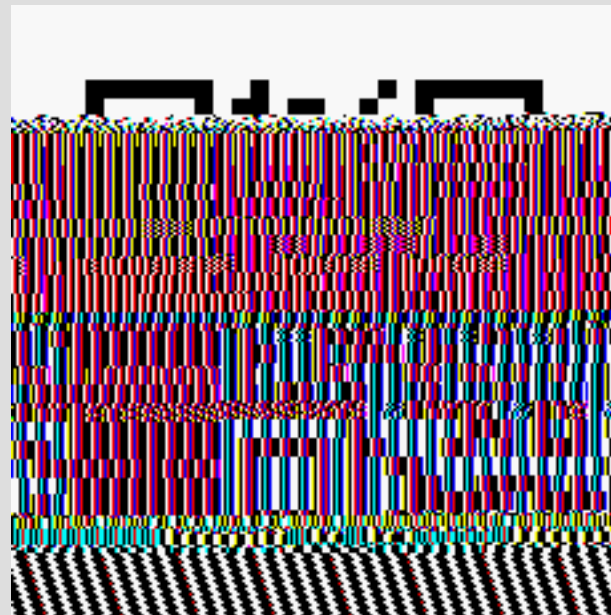
Currently recruiting





This call for applications is open!

<https://www.migarage.ai/application-open-call/>



MI Machine Intelligence Garage

Thank you!