

Imagine a world where you have the power of a data centre in the palm of your hand without impacting the environment or your own security.



### **SCAL**

Land and resource usage for data centres and Telecomms is unsustainable



### SPEED

Large and slow AI models mean more servers serving fewer customers



# **SUSTAINABILITY**

Datacentre energy demands are expected to reach up to 20% of global consumption if unchecked



# **SOCIAL RESPONSIBILITY**

Cloud computing is vulnerable to cybersecurity, privacy and trust breaches



# **SMART-EVERYTHING**

Miniaturising electronics is increasingly unsustainable

# **OUR TECHNOLOGICAL TARGETS**

Support up to **500x** 

more computations per second

Reach up to 100x

faster access to

Use up to **1000x** 

less energy for computing

Deliver training capabilities at the edge making it

100x

cheaper to access AI capabilities

Deploy AI at

100x

smaller

form-factors



Find out more: eil.ac/EVA

We are creating a novel entrepreneurial engine to generate semiconductor technologies that drive optimal AI processing exploiting IP across a diverse range of applications and markets.

The Edinburgh Venture builder for Al-hardware, EVA, will co-locate researchers, innovators and investors creating critical mass in a thematically cohesive business. This will translate academic research that has clear market fit, adopting an agile approach to commercialisation that capitalises on successes and failures, and upskills a dedicated resource to deliver viable technologies underpinned by world-leading research.





