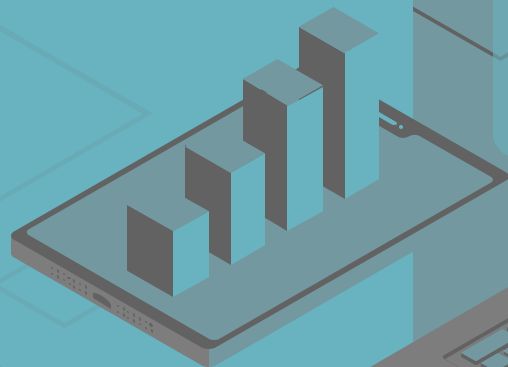




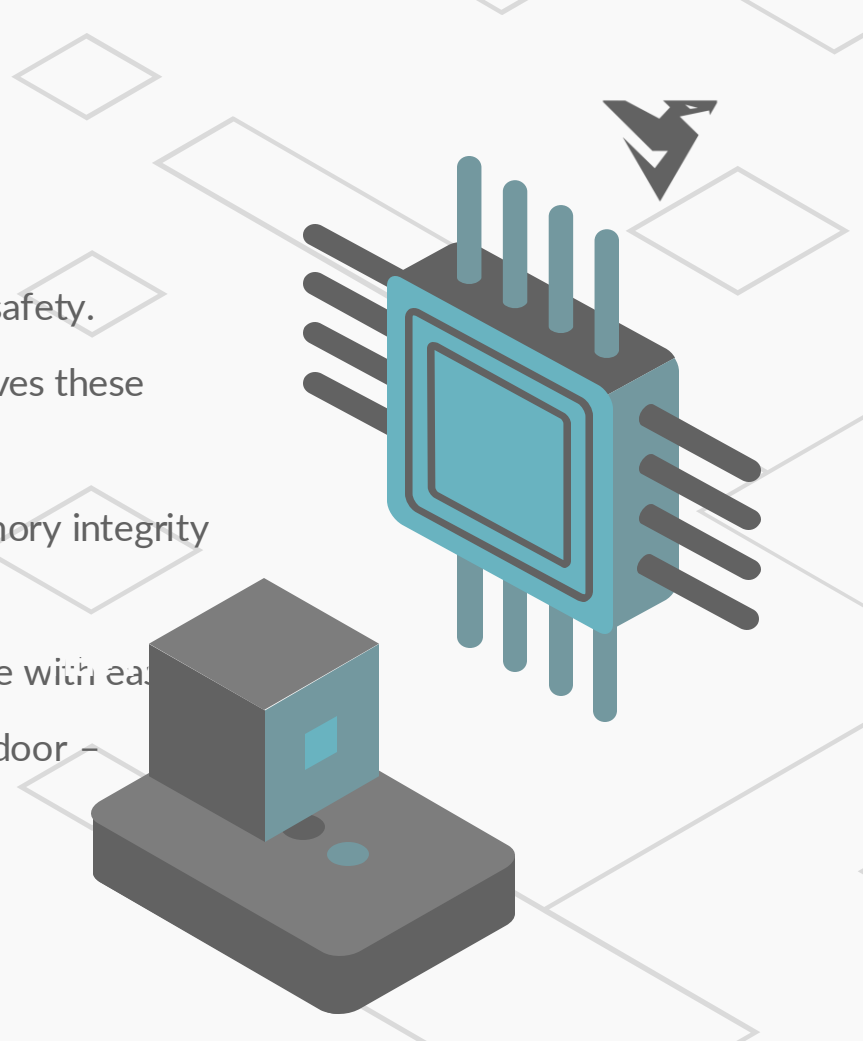
True Sovereign
Embedded Systems,
made possible using
WARP



Don't trust us...

Trust facts

- ~70% of all cyberattacks are due to a lack of memory safety.
- A new hardware chip design, CHERI, completely removes these issues due to new hardware chip design.
- By utilising capabilities instead of pointers, robust memory integrity without interference is guaranteed.
- CHERI-enabled processors can run existing legacy code with ease.
- Relying on CHERI hardware ensures no software backdoor – automatically rejecting dangerous code.



CHERI Alliance

Our Key Partners



Google

A founding member of the CHERI alliance with a foot in a wide range of industries.

SIEMENS

Siemens

Siemens is a full member of the CHERI alliance and a key player in the automotive industry.



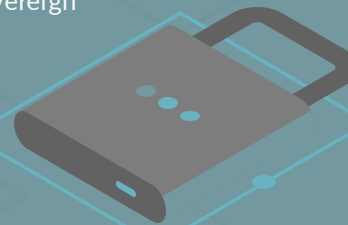
University of Cambridge

University of Cambridge is a forerunner of research in CHERI. We use UoC rocket chips within WARP.



NCSC

We aim to have WARP used in critical national infrastructure for sovereign benefit.



CHERI Alliance

Non-member backers



arm

ARM

ARM is one of the most prominent leaders in research of CHERI based devices.



DARPA

“the agency that shaped the modern world”, DARPA initially funded the research into CHERI back in 2010.



Microsoft

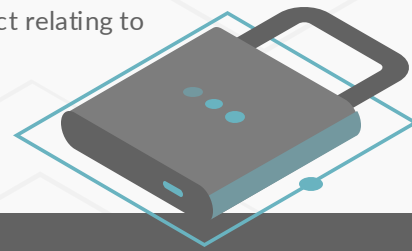
Microsoft

Developer of hardware, software and cloud services, Microsoft has expressed public interest in the future of CHERI devices.



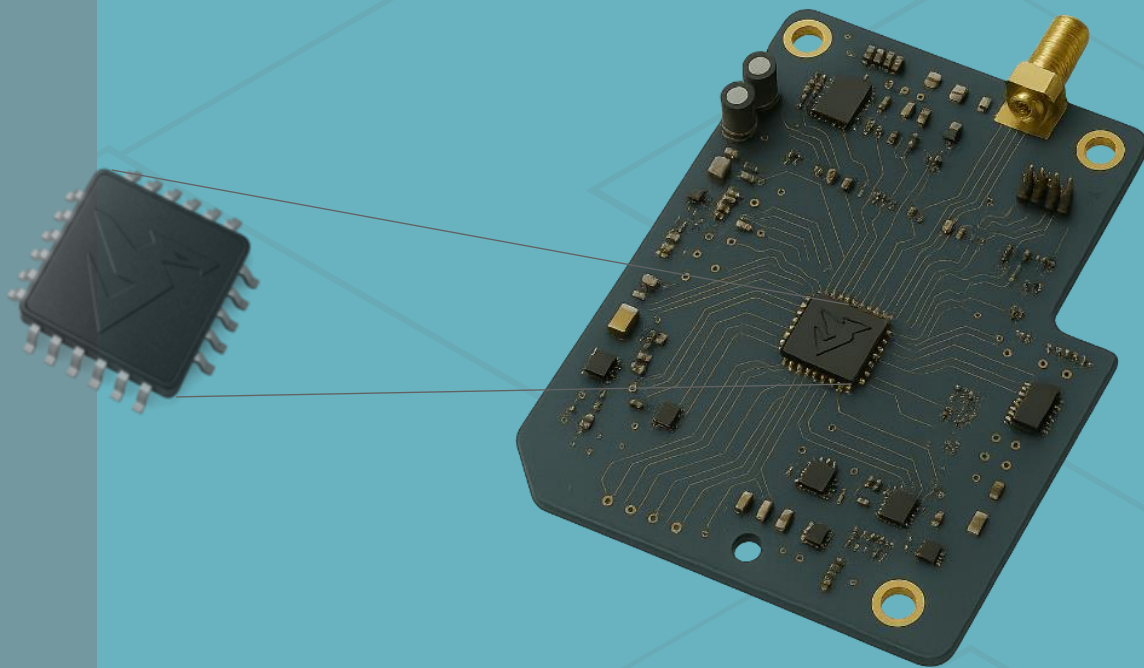
UKRI

UK Research and Innovation has invested in many project relating to advancing CHERI.



WYVERN ADVANCED RISC-V PROCESSOR

WARP



Visual representation only

What is WARP?



CHERI native

Eliminates 70% of IP and memory vulnerabilities by design; like preventing a car crash by flying.



RISC-V sovereign

Mitigates reliance on closed ecosystems and ARM processors.



Secure by Design

Vulnerabilities are prevented via memory pointer rules, not convoluted cryptography.



In demand

Over £30m of UKRI funding has been allocated to developing CHERI processors in the past 5 years.



UK designed

Abides by UK and ISO / BS regulations and supports local growth.



Vital for the future of computing

Will be necessary for IP protection, memory security and sovereignty in coming years, especially in edge computing and embedded systems.

4 revenues 1 Ecosystem

SERVICES

WARP OEMs

Custom instances of WARP architecture, which we license to partners and provide MPW services through our web dashboard and end-to-end team.



Labyrinth Access Control

Blockchain-hosted decentralised private access control application, using TOTP codes, meaning users are immutable, and **all** data is private.



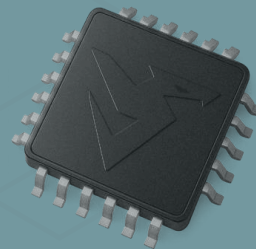
WARP Ecosystem

PRODUCTS



WARP 2532 SoCs

In-house generic SoCs for developer boards and low-volume industrial devices, support from our toolchain team comes part-and-parcel to integrate WARP into non-CHERI systems without compromise.



WARP Basilisk Storage

Labyrinth-protected WARP-controlled secondary storage devices for impenetrable, access controlled, data storage.



Don't Stick to the Status Quo



No current devices use CHERI commercially

This means memory is at risk and manufacturers don't have any choice.



The Status Quo keeps the insecure chips around

No big chipmakers want to undermine the current market by introducing something revolutionary.



WE provide the solution

WARP is the first commercially available CHERI enabled SoC in the world which can be customised for OEM applications.



All non-WARP Control Units are vulnerable to hardware, software and memory exploits by nature.

Our OEM Process

Stage1

Specification



Representatives of the company work with our engineering team to understand how WARP needs to be modified to integrate with their systems and vice versa.

Stage2

Development



Our engineering team is set to work adapting WARP to the OEM specification, ensuring each interface and system is secure.

Stage3

Testing



We provide custom FPGA boards for integration tests with your systems prior to our MPW runs or licensing to rule out bugs and compatibility issues.

Stage4

Procurement



Either licenses are provided for internal chip sourcing, or we will provide MPW services through our industry connections and handle all logistics up to SoC handover, including storage and distribution. Depending on volumes we can also arrange long-term shuttle agreements.

Any questions?

Contact us at:

<https://app.wyvern.global/contact>

contact-us@wyvern.global

+44 7562 361102

