

# CHERiAlliance

## Introduction to the CHERI Alliance

WHY / WHAT / HOW?

# CHERI is moving now!

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- After 14 years in the lab, CHERI is now mature
  - Govt and industry invested ~ £300m to develop CHERI
- Government are demanding memory safety
  - New requirement in UK govt procurement
  - White House publicly supporting it – and putting responsibility in the hands of the high-tech industry
- Leading companies are getting involved
  - Processors are now available
  - Software is being adapted



# Join the CHERI Alliance!

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Demonstrate  
security  
leadership



Network and  
exchange



Accelerate  
adoption of  
CHERI



Share promotion  
cost



Activate the  
community

More than  
**25**  
companies  
on board

# Our mission

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Unite industry leaders, system developers and security experts to drive and promote CHERI as an efficient security standard

# Why a CHERI Alliance?

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- CHERI cannot just be a specification
- Need to go further
  - Promotion of security (and CHERI in particular)
  - Technical alignment
    - Make sure it can be implemented efficiently
    - Manage different "flavors" of CHERI
  - Ensure compliance
  - Demonstrate industry adoption
  - Manage the communication / branding
  - Educate, support community

# Proposed activities

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## Standardization & best practices

- Develop and promote the CHERI specification
- Support CHERI adoption in open-source software
- Focus on efficient implementation and **optimization**
- Drive **standardization**, other **organizations**
- Establish best practices, guidelines, and implementation methodologies

## Marketing

- Advocate for the adoption of CHERI by industry players
- Raise awareness about importance of robust security
- Educate industry stakeholders and regulatory bodies
- Promote and protect the CHERI brand

## Compliance

- Develop a compliance program
- Manage testing process
- Manage branding and promotion of compliant products

## Collaboration & knowledge sharing

- Foster collaboration among Alliance members
- Facilitate networking opportunities, conferences, and workshops
- Collaborate with related / complementary security initiatives
- Host SW repositories
- Promote HW reference models

# An independent entity

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- ISA-agnostic
  - CHERI could be added to Arm, Intel, MIPS, RISC-V, ...
- Country-agnostic
  - Initially driven by UK/US, but security is not country-dependent
- Not just one company
  - Need broad industry adoption
  - Need a community
- Need to own and control CHERI brand



Formed as a  
**Community Interest Company (CIC)** \*

# Current status

- Hosting structure formed
  - CHERI Alliance CIC\*
- Now signing-up the first members!
- Plan to formally launch in September
- Directors of the CIC



Mike Eftimakis  
VP Strategy & Ecosystem



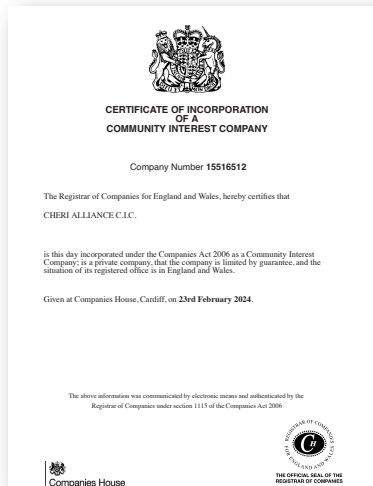
Mike Halsall  
Founder



Robert Watson  
Professor



Gavin Ferris  
Chief Executive Officer





# Member benefits

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Unique opportunity now!

## FOR ALL MEMBERS

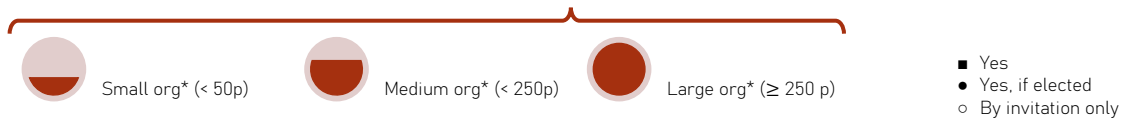
- Demonstrate security leadership
- Accelerate adoption of CHERI
- Drive alignment of the standard
- Activate the community / share dev costs
- Network and exchange
  - Member-only address book
  - Member-only reports, information
  - Special events
- Show product compliance\*

## IF JOINING BEFORE LAUNCH

- Get the "Founding Member" badge
- Best chance to get elected to the Governing Board
- Get selected to head key committees / working groups
- Ability to tune the policies
- Get unique visibility with launch campaign

# Membership tiers

	Member (not restricted to commercial Companies)	Community (not for profit) Academics / Govt / Individuals / ...
Gov board participation	● [7 seats]	● [0-2 seats]
Vote to elect gov board	■ [for member seats]	■ [for community seats]
Committees' participation	●	○
Working groups participation	■	■
Cost	Depending on entity size	Free



\* Using EU definitions: [https://single-market-economy.ec.europa.eu/smes/sme-definition\\_en](https://single-market-economy.ec.europa.eu/smes/sme-definition_en)

Discounts for multi-year membership



Thank you!

Contact: [contact@cheri-alliance.net](mailto:contact@cheri-alliance.net)