28 October 2026



Introduction to the CHERI Alliance

Why / What / How?

Executive Summary

The CHERI Alliance is an independent entity

- Non-profit
- Focused on accelerating CHERI adoption
- ISA-agnostic
- Worldwide reach
- Drive / stimulate ecosystem
  - Industry
  - Research
  - Government
  - Communities

- Industry financed
  - Long-term sustainability

- With financial support of



The CHERI Alliance stimulates CHERI adoption

Technical

- Guidance, best practices
- Tech enablement (code, examples…)
- Interoperability, compliance

Promotion

- Technical & marketing info
- Media
- Policymakers, regulation

Community support

- Open-source software support
- Platform for collaboration
- Education, networking

Current members



Benefits for members



Demonstrate security leadership



Network, learn and get visible



Accelerate adoption of CHERI



Save on costs
(learning, promotion, development, ...)



Collaborate with the community

The complete story

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

CHERI Alliance's mission

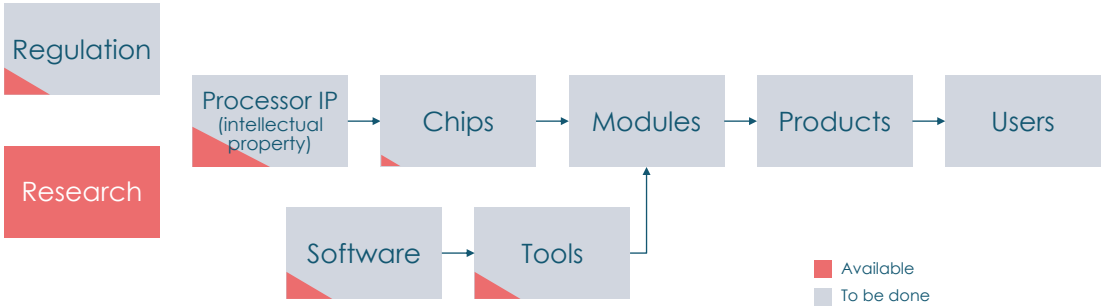
Why a CHERI Alliance?

- **Accelerate adoption!**
- CHERI cannot just be a specification
- Need to go further
  - Bring an ecosystem together – industry, users, government and academia
  - Promotion of security (and CHERI in particular)
  - Technical alignment
  - Demonstrate industry adoption
  - Manage communication / branding
  - Educate, support community
  - Network

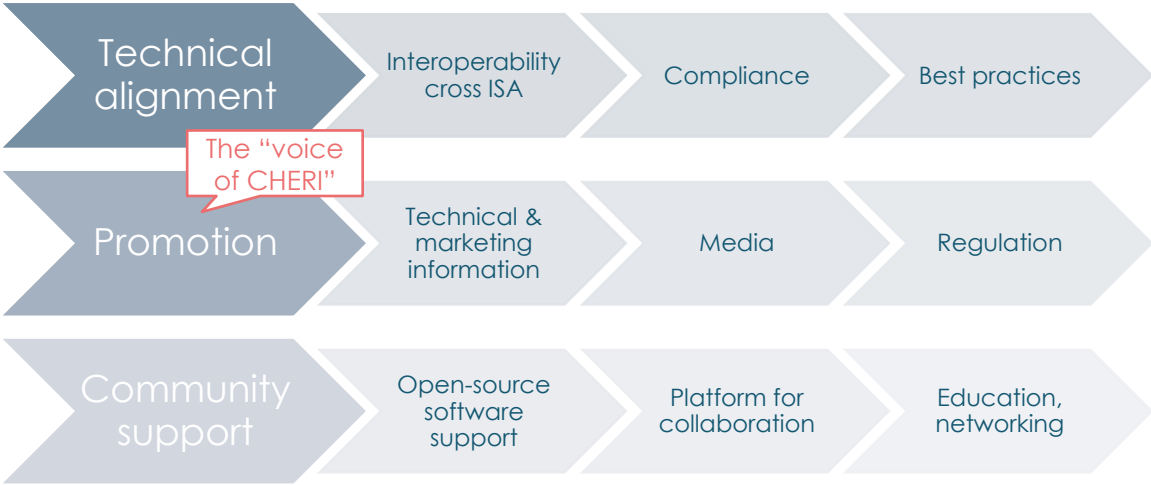
Getting CHERI adopted

Show benefits
Make it easy to adopt
Highlight risks (lack of security / upcoming regulations)

How to stimulate the industry?

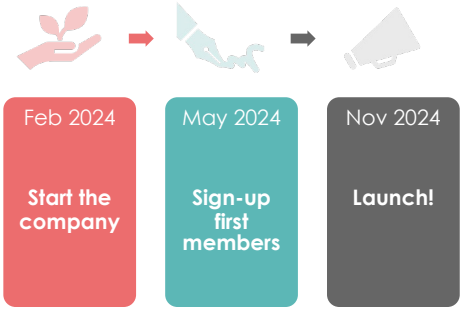


Role of the CHERI Alliance



A non-profit, independent entity

- ISA-agnostic
  - CHERI could be added to Arm, x86, MIPS, RISC-V, …
- Country-agnostic
  - Initially driven by UK/US, but security is not country-dependent
- Not just one company
  - Aim for broad industry adoption
  - Connect with communities
- Manage CHERI brand



Structure & Governing board

- Non-profit organization
  - Community Interest Company (CIC)
  - Special type of company – asset lock, no shareholders
  - Audited on community purpose
  - Based in Cambridge, UK
- Governing board
  - 8 elected by members
  - 1 selected by directors of the CIC


Adam Finney


Alex Richardson
Google

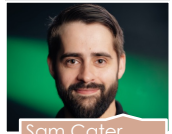

Allison Randal
Capabilities Ltd


Andrew Lindsay
Codasip


David Chisnall
SCI Semiconductors


Mike Eftimakis
CHERI Alliance C.I.C.


Paul Waller
NCSC


Sam Cater
BT


Simon Moore
University of Cambridge

CHERI Alliance members – on 29 October 2026

Updated list and members' details
https://cheri-alliance.org/members/

Industry / govt

































































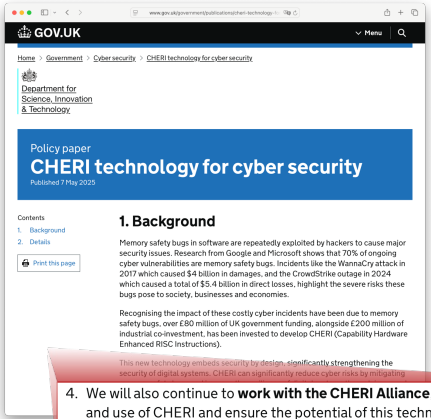
CHERI Alliance members – on 29 October 2026

Updated list and members' details
https://cheri-alliance.org/members/

Research / Universities

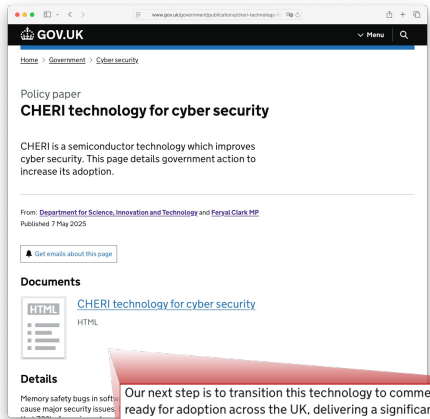
CentraleSupélec
Durham University
ISEP INSTITUTO SUPERIOR DE ENGENHARIA DO PORTO
Fraunhofer AISEC
JKU JOHANNES KEPLER UNIVERSITÄT LINZ
جامعة الملك عبدالله للعلوم والتقنية King Abdullah University of Science and Technology
KU LEUVEN
MANCHESTER 1824 The University of Manchester
國立臺灣大學 National Taiwan University
RPTU
SRI
UNIVERSITY OF BIRMINGHAM
UNIVERSITY OF CAMBRIDGE
THE UNIVERSITY of EDINBURGH
University of Exeter
University of Glasgow
University of Kent
Prifysgol Abertawe Swansea University

UK govt's partner for CHERI adoption



4. We will also continue to **work with the CHERI Alliance**, to encourage the take up and use of CHERI and ensure the potential of this technology is realised. Finally, we will work with international partners to persuade governments and industry to prioritise secure by design and memory safety.

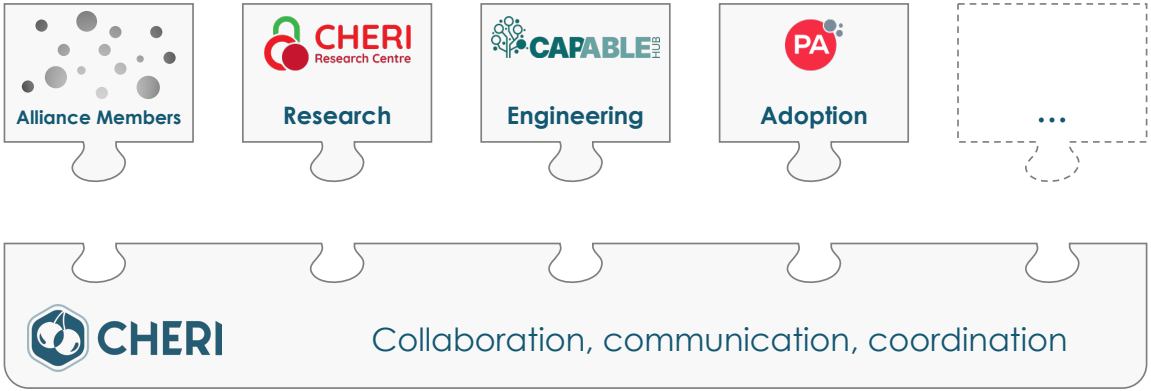
https://www.gov.uk/government/publications/cheri-technology-for-cyber-security/cheri-technology-for-cyber-security



Our next step is to transition this technology to commercial products, ready for adoption across the UK, delivering a significant advancement in innovative cyber security. Leveraging industry co-investment, we will partner with the CHERI Alliance, InnovateUK, the University of Cambridge and other stakeholders to drive this effort.

https://www.gov.uk/government/publications/cheri-technology-for-cyber-security

Orchestrating the CHERI ecosystem



Organizing conferences

- 2 conferences / year
  - CHERI Blossoms Conference
  - CHERITech Conference



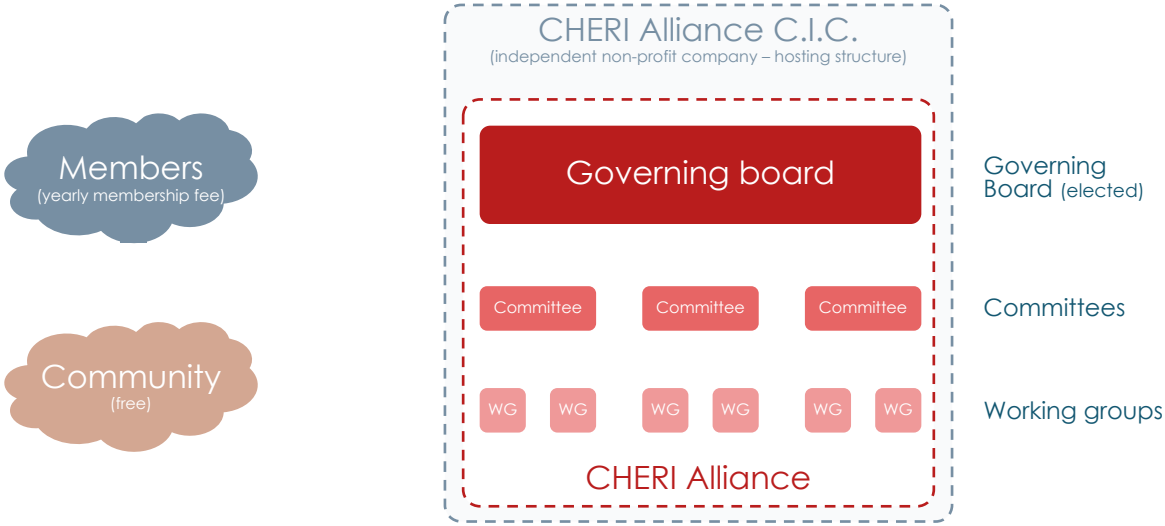








Governance


Members
(yearly membership fee)
Community
(free)
CHERI Alliance C.I.C.
(independent non-profit company – hosting structure)
Governing board
Committee
Committee
Committee
WG
WG
WG
WG
WG
WG
CHERI Alliance
Governing Board (elected)
Committees
Working groups

Governing board

Composition

- 5-10 people
  - 1 chair + seats from paying members
  - 0-2 community seats
  - 1 representative of C.I.C.
- Max 1 person per company

Functioning

- Elected for 2 years
  - Elected by Members
  - Chair elected by board
  - ½ of board elected each year
- 1 seat = 1 vote
  - Majority voting
  - Quorum 2/3
- No remuneration

Role

- Control structure
- Approve new working groups / projects
- Approve major initiatives from committees
- Allocate budget / approve accounts
- Organize referendums

Committees

Composition

- Max 5 people
- Max 1 person per company

Functioning

- Selected by gov board
  - Members propose candidates
  - Chair selected by board
- 1 seat = 1 vote
  - Majority voting
  - Quorum 3 people
- No remuneration

Role

- Propose new working groups / projects
- Propose initiatives
- Manage working groups
- Prioritize work
- Review / approve WG results
- Publish / open results

Working groups

- Focus on key topics
  - Promotion
  - Software / OS / Tools porting
  - Recommendations / compliance
- Opportunity to
  - Collaborate and show expertise
  - Influence outcome
  - Learn
  - Access exclusive content
  - Network
- Open to all members



Marketing



Technical

Discover working groups
https://cheri-alliance.org/who-we-are/working-groups

Current Working Groups

✅	**Certification Program**	Mike Effimakis	CHERI Alliance
C	**CHERI C/C++**	David Chisnall	SCI Semi
FREE	**CHERI FreeRTOS**	Oliver Gray	Codasip
■	**CHERI in SoC**	Ben Fletcher	Codasip
🐧	**CHERI Linux**	Allison Randal	Capabilities Ltd
🦭	**CHERI QEMU**	Alfredo Mazzinghi	Capabilities Ltd
🧐	**CHERI Research**	Jon Woodruff	University of Cambridge
4	**CHERI seL4**	Hesham Almatary	Capabilities Ltd
🤖	**CHERI Virtual Machines**	Jeremy Singer	Glasgow University
🪁	**CHERI Zephyr**	Jennifer Jackson	Birmingham University
📣	**Marketing**	Adam Finney	CHERI Alliance
👮	**MMU-less systems**	Murali Vijayaraghavan	Google
🛠️	**OS Support & Portability**	Brooks Davis	SRI
🪪	**Promotion & Ambassador Program**	Mike Effimakis	CHERI Alliance
💾	**Repository Management**	Marno van der Maas	lowRISC
⚙️	**Rust + CHERI**	Edoardo Marangoni Sarah Harris	SCI Semi University of Kent
📋	**Safety + CHERI**	Maricel Ventura Thierno Sene	Codasip

Target activities

Standardization & best practices

- Promote the CHERI specification and align across ISA
- 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

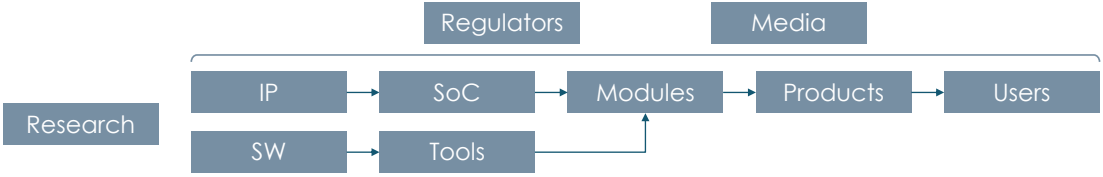
- Develop a compliance program
- Manage testing process
- Manage branding and promotion of compliant products

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

Audience

Group	Desired impact of CHERI Alliance
Govt / Regulators	Requesting a higher security level in products
End users	Create awareness, pull for CHERI-enabled products
OEMs	Implement CHERI into their products
Tech providers	Release CHERI-enabled products (IP, tools, SoCs, modules…)
SW community	Port software to CHERI, use CHERI features (e.g. compartmentalization)
Media	Create awareness, get visibility
Research community	Get them involved, develop future extensions
CHERI Alliance members	Show leadership, drive CHERI, benefit from networking



CHERI Alliance deliverables

- CHERI tech alignment (for all architectures)
- Tech collaterals and recommendations
- Marketing collaterals and campaigns
- Conferences
- Educational material
- Web site
  - Information / Education / Networking
  - Access to deliverables
  - Member visibility
  - Ecosystem support (repositories, forums, collaboration tools…)
  - “CHERI Enabled” product listing

Join the Alliance now!



Demonstrate security leadership



Network, learn and get visible



Accelerate adoption of CHERI



Save on costs
(learning, promotion, development, ...)



Collaborate with the community

Member benefits

CHERI Alliance Member

For all members

- Demonstrate security leadership
- Vote in elections, get elected
- Join committees / working groups
- Drive alignment and standards
- Leverage joint open-source efforts
- Early access to CHERI code
- Network and exchange
  - Member-only address book
  - Member-only content, reports, info
- Accelerate adoption of CHERI
- Benefit from CHERI marketing
- Free visibility on CHERI Alliance Website
  - Member page
  - Blog
- Free visibility at events *
  - Speaking slots, webinars
  - Booth, demo
- Show product compliance **

* Benefits depend on the event
** Compliance program: https://cheri-alliance.org/cheri-enabled/

Example of marketing benefits

- Web presence
  - Highlights on LinkedIn / YouTube / social media
  - CHERI Alliance Website
- CHERI Alliance conferences
  - Talks, exhibition, networking…
- Embedded World
  - Demo pods on the CHERI Alliance booth
  - CHERI session in the conference







CHERI Blossoms Conference 2026

Organized by the CHERI Alliance

CHERITech

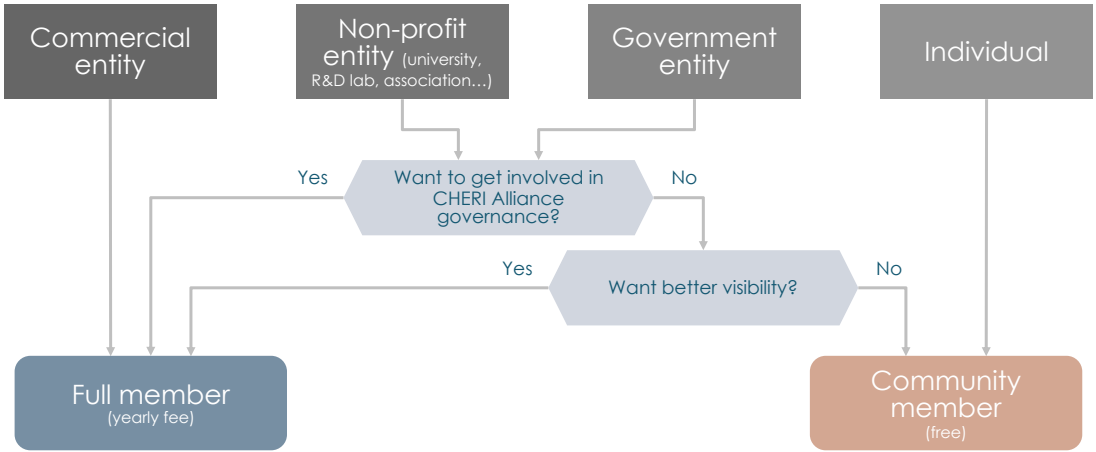
- Technical focus
  - Free entry (even non-members)
  - Talks, demos, workshops
  - Research updates
- Next edition
  - CHERITech'2026
  - 12-13th November 2026
  - Munich

CHERI Blossoms Conference

- Main event
  - Free entry (even non-members)
  - Talks, demos, networking
  - Published online
- Next edition
  - CHERI Blossoms Conf 2027
  - 22-23rd April 2027
  - Cambridge

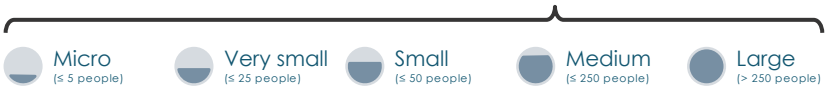
See all events: https://cheri-alliance.org/events/

How to decide membership type?



Membership tiers

	Full Member (mandatory for commercial companies, possible for other entities)	**Community** (accessible only to non-profit – universities / research / govt / associations / individuals / …)
Gov board participation	● [5-7 seats]	● [0-2 seats]
Vote to elect gov board	■ [for member seats]	■ [for community seats]
Committees' participation	●	○
Working groups participation	■	■
Full members benefits (directory, visibility, product listing…)	■	
Cost	Depends on organization size	Free



■ Yes
● Yes, if elected
○ By invitation only

Ensuring sustainable activity

- Use of funds
  - Organizing conferences
  - Legal & administrative costs
  - Web site dev & maintenance
  - Marketing activities
  - Infrastructure (hosting, cloud, SW…)
  - Member & Community management
- … In the future
  - Compliance testing?

- Alliance financed by the industry
- With grant from

Department for Digital, Culture, Media & Sport

The Alliance relies on members' participation



- Exchange with other experts
- Provide feedback
- Contribute code & content
- Collaborate



- Participate to CHERI marketing
- Publish your CHERI-related news
- Promote / amplify the message



- Get involved in working groups
- Support and educate the community
- Network

No formal obligation…

but the more we work together, the more efficient we will be



CHERI

THANK YOU

Contact contact@cheri-alliance.org

Web www.cheri-alliance.org

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