A Growing Community

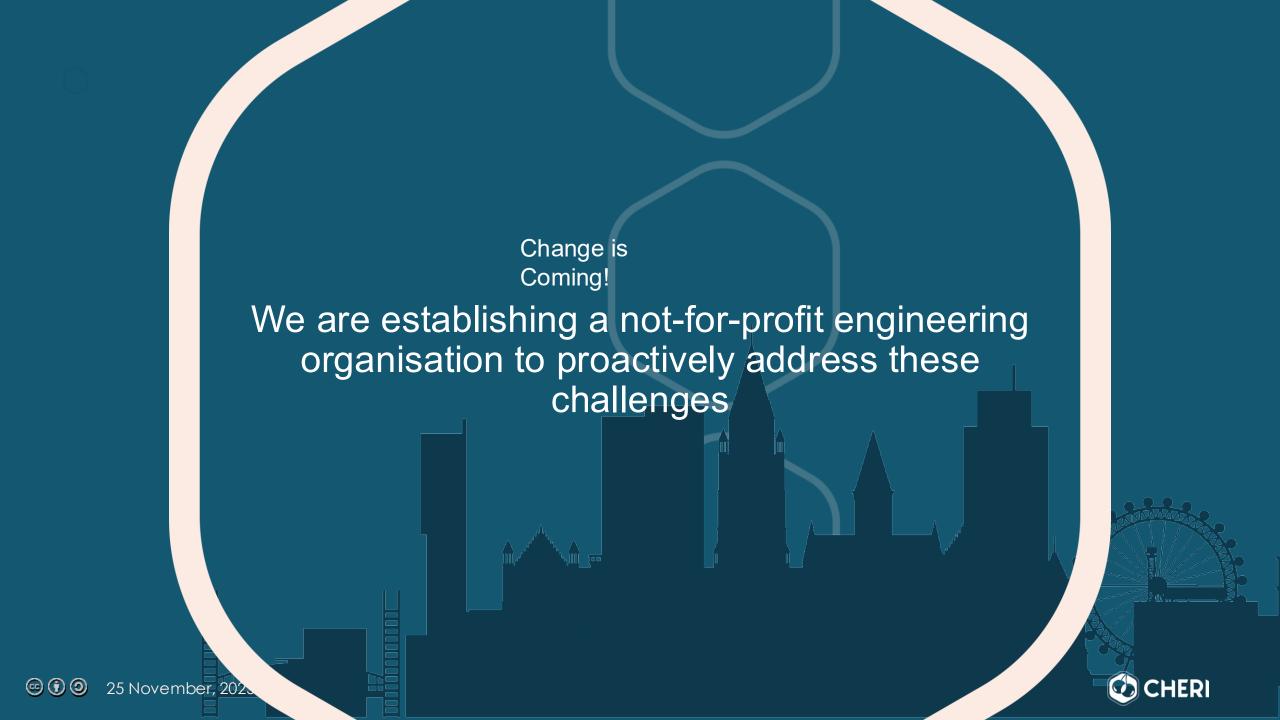- Considerable effort invested in CHERI software

- Often though research, demonstrators or proof of concepts

- Aimed at advancing or demonstrating CHERI

- Rarely leads to mature industry ready software stacks

CHERI

Technical Debt is a Barrier to Adoption

- Out of date software

- Fragmentation

- Incomplete software stacks

- Missing documentation

- Forces product markers to work on non-differentiating software in isolation

- **A significant and ongoing effort is needed to enable industry adoption**

CHERI

Change is
Coming!

We are establishing a not-for-profit engineering organisation to proactively address these challenges

CHERI

Mission Statement

" Improve the availability, quality and upstream alignment of open-source software stacks and tools for CHERI "

CHERI

Engineering Team

- Core Activities:
  - Working with the ecosystem to identify challenges and where we can provide value
  - Readying private code for open source
  - Consolidating
  - Upstreaming
  - Rebasing
  - Specific Developments
- The hub will develop its own engineering team
- Initially resources will be provided by The Good Penguin and similar organizations

CHERI

Open Source Development

- Provide the infrastructure needed for open source development

- Provide CI and hardware in loop testing

- Allow anyone to participate in development

- Represent an obvious upstream for staging CHERI work
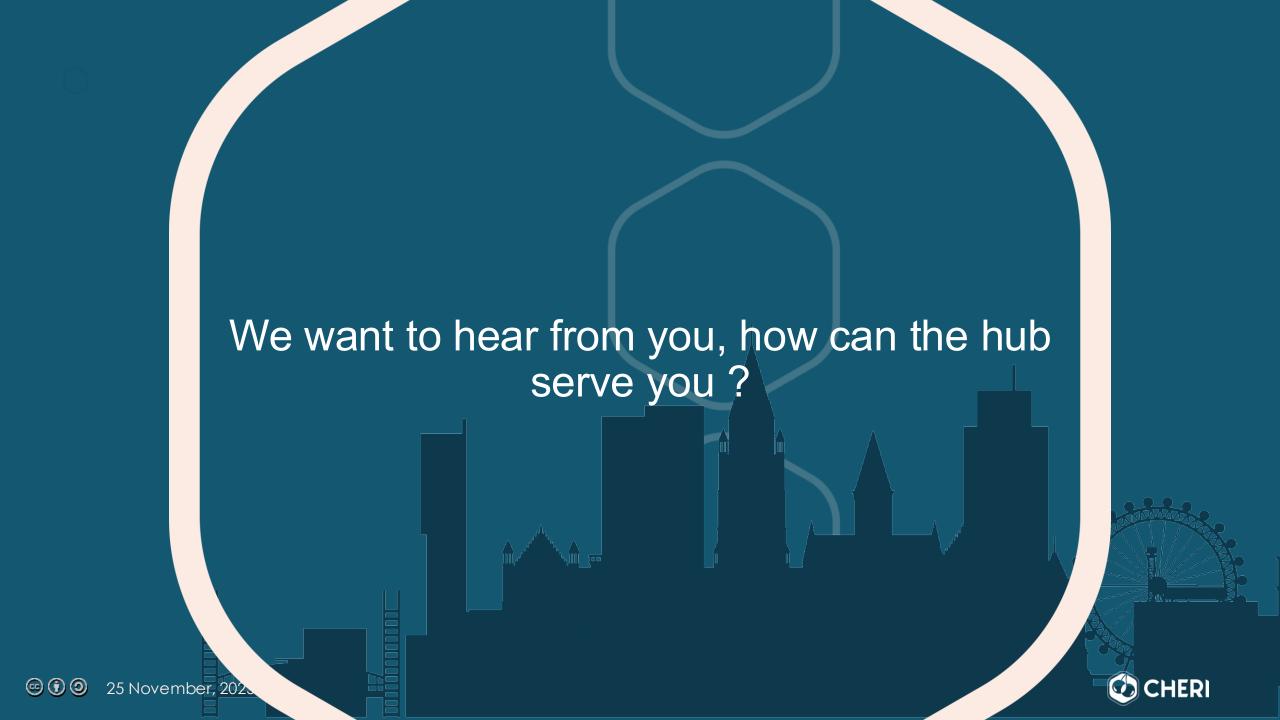
CHERI

Distribution

- Availability of CHERI software and software stacks, representing the 'current state of art'

- Documented and tested releases for supported platforms

CHERI

Funding

- Our efforts are initially funded by UKRI

- We will become self sustainable through:
  - Membership fees (to share costs and consolidate effort to address shared, non-differentiating engineering challenges)
  - Access to hardware board farm
  - Sponsorships / consultancy

CHERI

We want to hear from you, how can the hub serve you ?

CHERI

CHERITech'25
CONFERENCE

Manchester, UK

CHERI

2025
14th November

cheri-alliance.org

Thank you!

Contact   amurray@thegoodpenguin.co.uk

Web   www.thegoodpenguin.co.uk

25 November, 2025