CHERI

Launching the CHERI Alliance

'Cybersecurity by design - from research to industry' conference

Mike EFTIMAKIS
Founding Director – CHERI Alliance

Driving a global industrial ecosystem to solve the biggest cybersecurity challenge

CHERI

⬡ **CHERI – from research to industry**

14 years of research

Specification document

Prototypes

Formally proven

… no products!

Need to accelerate industry adoption!

- Awareness

- Desirability

- Feasibility

12/11/2024

The adoption problem has been solved before…

Bluetooth
Bluetooth SIG

USB
USB implementers forum

mipi
Mipi Alliance

HDMI
HDMI Forum

Wi-Fi
Wi-Fi Alliance

RISC-V
RISC-V International

JEDEC
JEDEC Solid State
Technology Association

Linux
Linux Foundation

Let's do this for CHERI...

CHERI

CHERI Alliance's formal launch today!

CHERI

The journey up to now

Early 2023	Mid 2023	End 2023	Feb 2024	May 2024	Mid 2024	Nov 2024
Realise the gap	**Get everyone excited**	**Find how to do it!**	**Start the company**	**Sign-up first members**	**Start working groups**	**Launch!**

An independent entity

- **ISA-agnostic**
  - CHERI could be added to Arm, Intel, MIPS, RISC-V, …

- **Country-agnostic**
  - Security is not country-dependent

- **Not just one company**
  - Need broad industry adoption
  - Need a community

Financial support

Department for Science, Innovation, & Technology

Hosting structure

- **CHERI Alliance** Community Interest Company
  - Limited company – no shares
  - Defined / audited purpose
- **Founding Directors of the CIC**

Mike Eftimakis
VP Strategy & Ecosystem
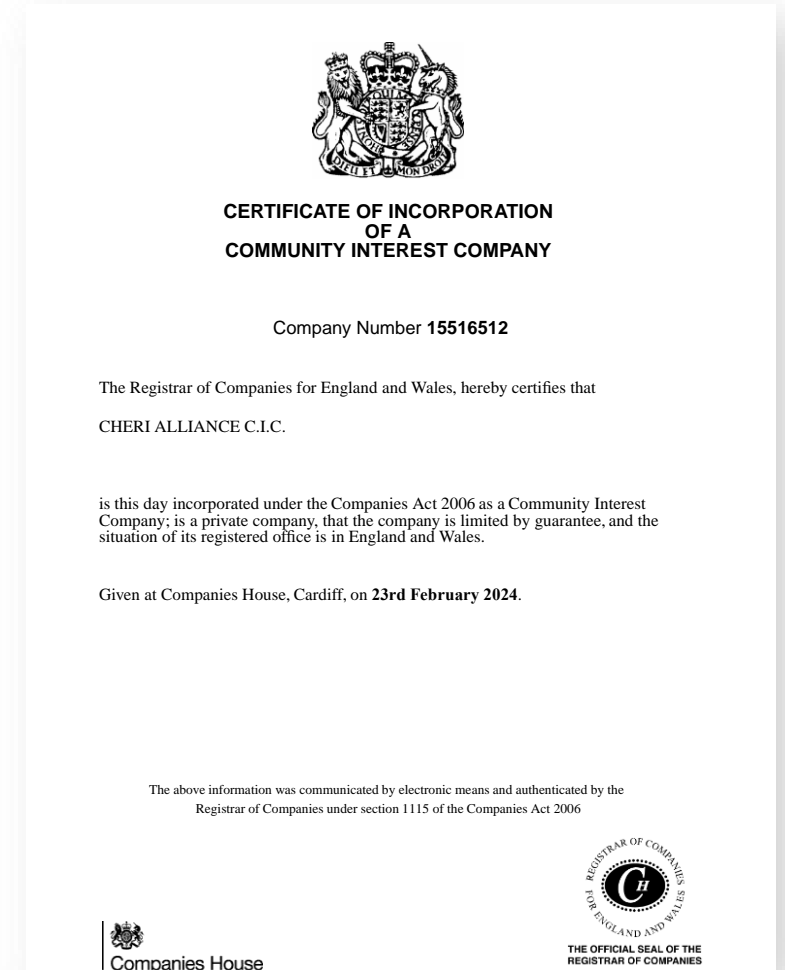Codasip

Robert Watson
Professor
UNIVERSITY OF CAMBRIDGE

Mike Halsall
Founder
Emerging Tech Radar
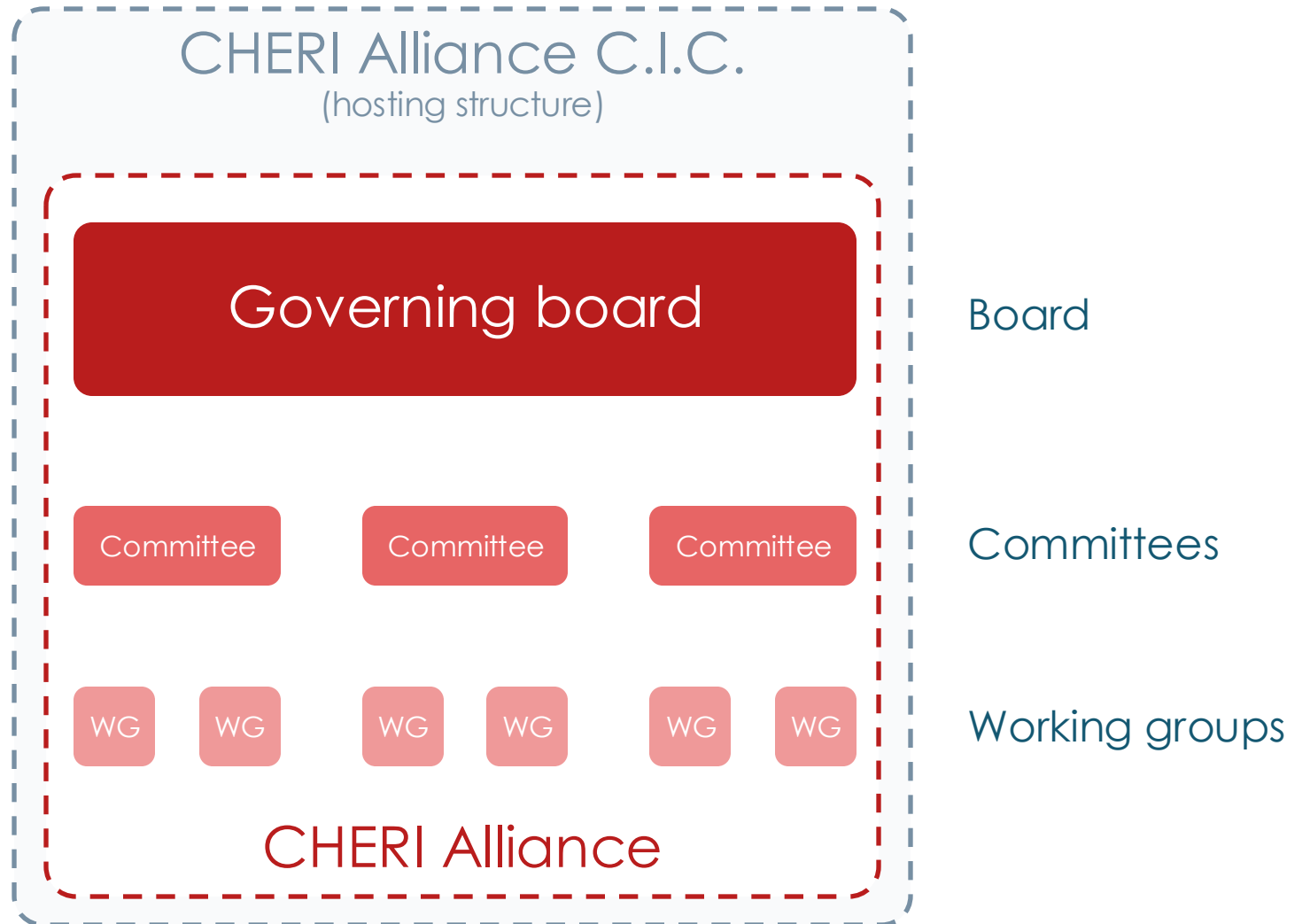

Gavin Ferris
Chief Executive Officer
lowRISC

**CERTIFICATE OF INCORPORATION
OF A
COMMUNITY INTEREST COMPANY**

Company Number **15516512**

The Registrar of Companies for England and Wales, hereby certifies that

CHERI ALLIANCE C.I.C.

is this day incorporated under the Companies Act 2006 as a Community Interest Company; is a private company, that the company is limited by guarantee, and the situation of its registered office is in England and Wales.

Given at Companies House, Cardiff, on **23rd February 2024**.

The above information was communicated by electronic means and authenticated by the Registrar of Companies under section 1115 of the Companies Act 2006

Companies House

THE OFFICIAL SEAL OF THE REGISTRAR OF COMPANIES

A collaborative environment

Members
(yearly membership fee)

Community
(free)

CHERI Alliance C.I.C.
(hosting structure)

Governing board — Board

Committee Committee Committee — Committees

WG WG WG WG WG WG — Working groups

CHERI Alliance

Founding Members of the Alliance

… and growing!

Promoting CHERI adoption

Role of the CHERI Alliance

Technical alignment	Interoperability cross ISA	Compliance	Best practices
Promotion	Technical & marketing information	Media	Regulation
Community support	Open-source software support	Platform for collaboration	Education, networking
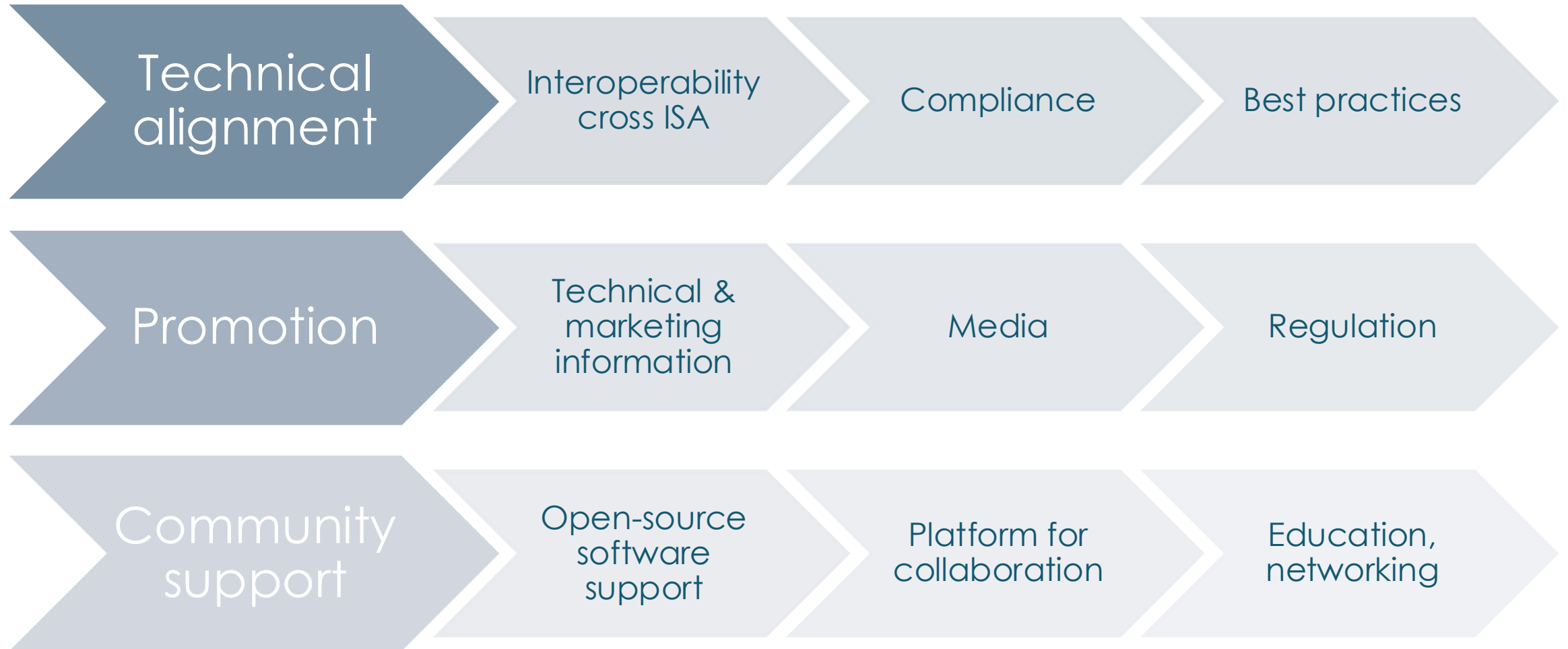
Added value for CHERI adoption

International

Agile

Driven by industry needs
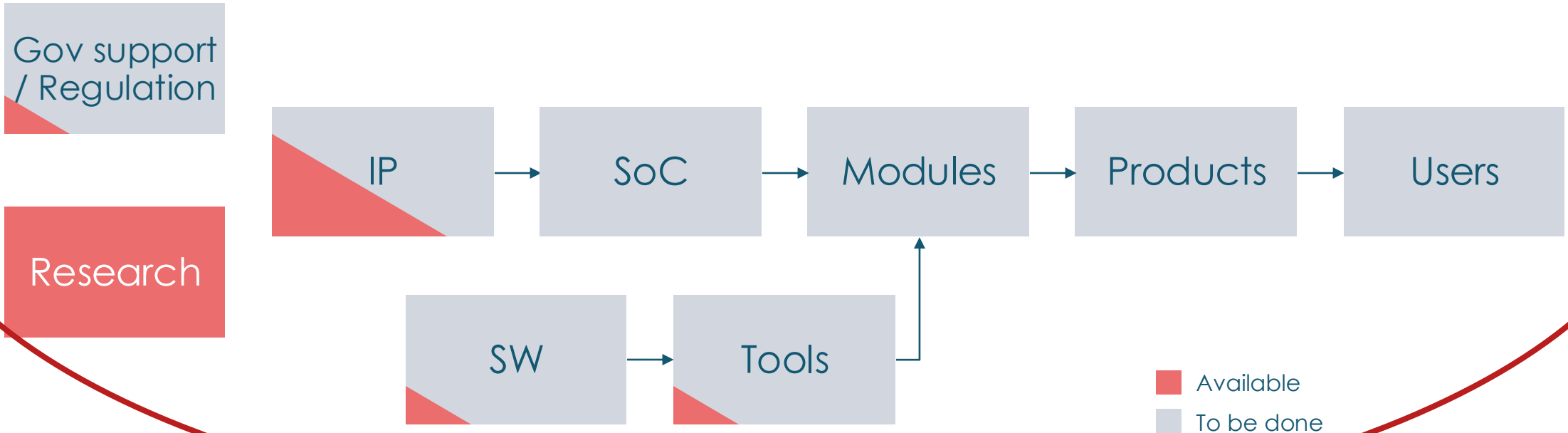
Focal point

What is missing to get CHERI adopted?

How to stimulate the industry?

Gov support / Regulation

Research

IP → SoC → Modules → Products → Users

SW → Tools → Modules

Available (red)
To be done (grey)
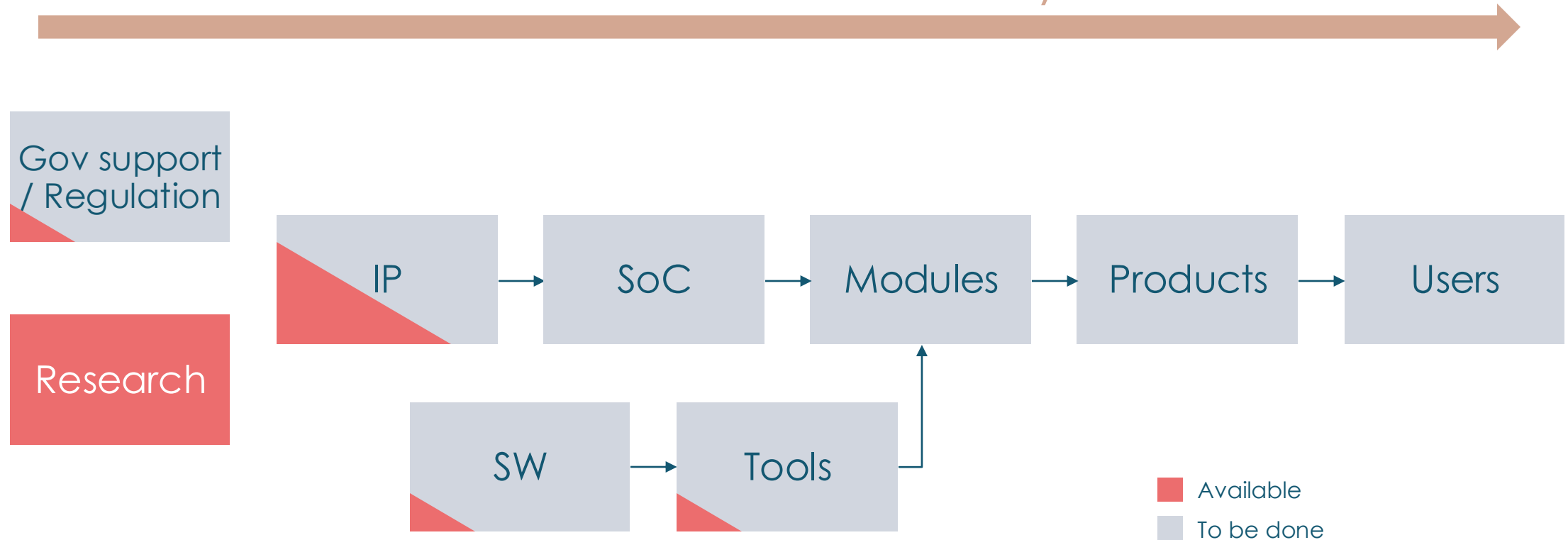
What is missing to get CHERI adopted?

Scope of CHERI Alliance

How to stimulate the industry?

Gov support / Regulation

Research

IP → SoC → Modules → Products → Users

SW → Tools

Available

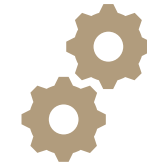To be done

Develop a value proposition for everyone
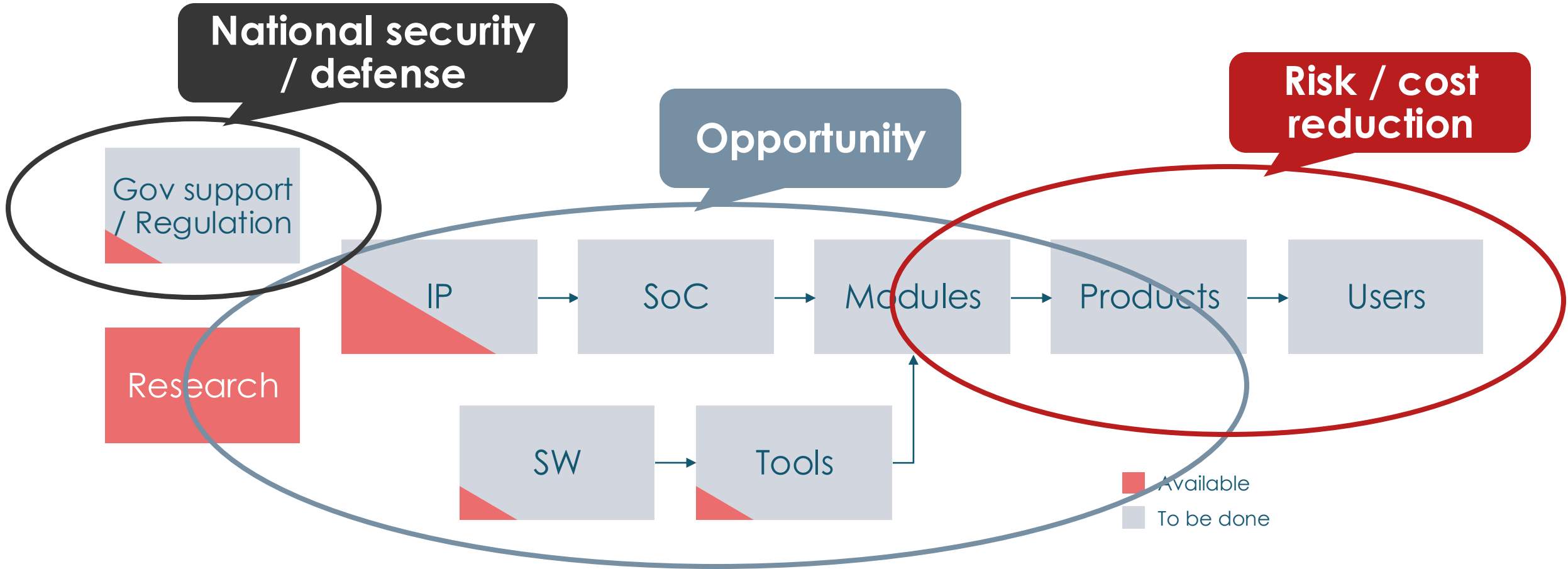
Working groups

- Focusing on each important topic

Marketing   Technical

Welcoming more members now!

Demonstrate security leadership

Network, collaborate and exchange

Accelerate adoption of CHERI

Share promotion costs

Activate the community

CHERI

THANK YOU

Contact contact@cheri-alliance.net

Web www.cheri-alliance.org

12/11/2024