

# ARGE's Lead (Pb) Reduction Programme

The journey has started

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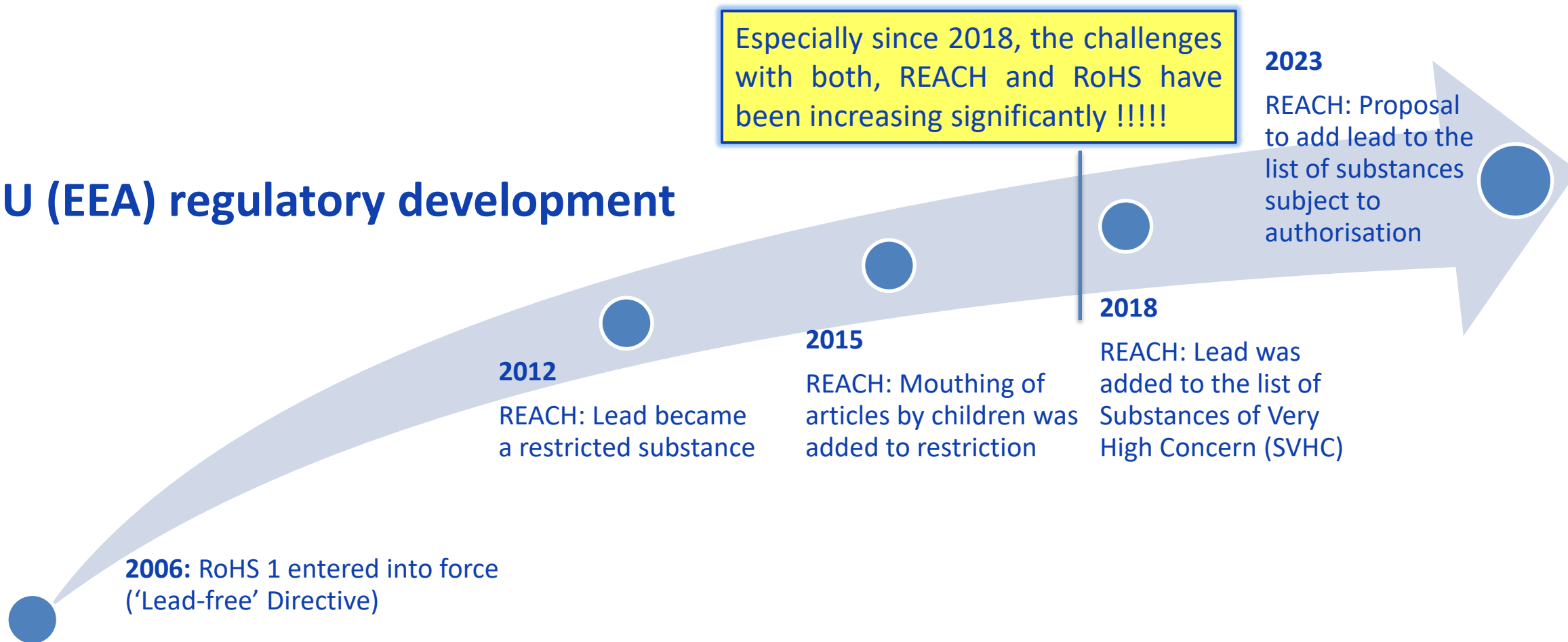


# Content

- ➔ Pressure and ambition towards Lead (Pb) substitution
- ➔ ARGE's Lead (PB) reduction programme
  - ⇒ Keys, lock cylinders and padlocks
  - ⇒ All other building hardware products
- ➔ Take away ...

# Pressure and ambition towards Lead (Pb) substitution (1/3)

## EU (EEA) regulatory development

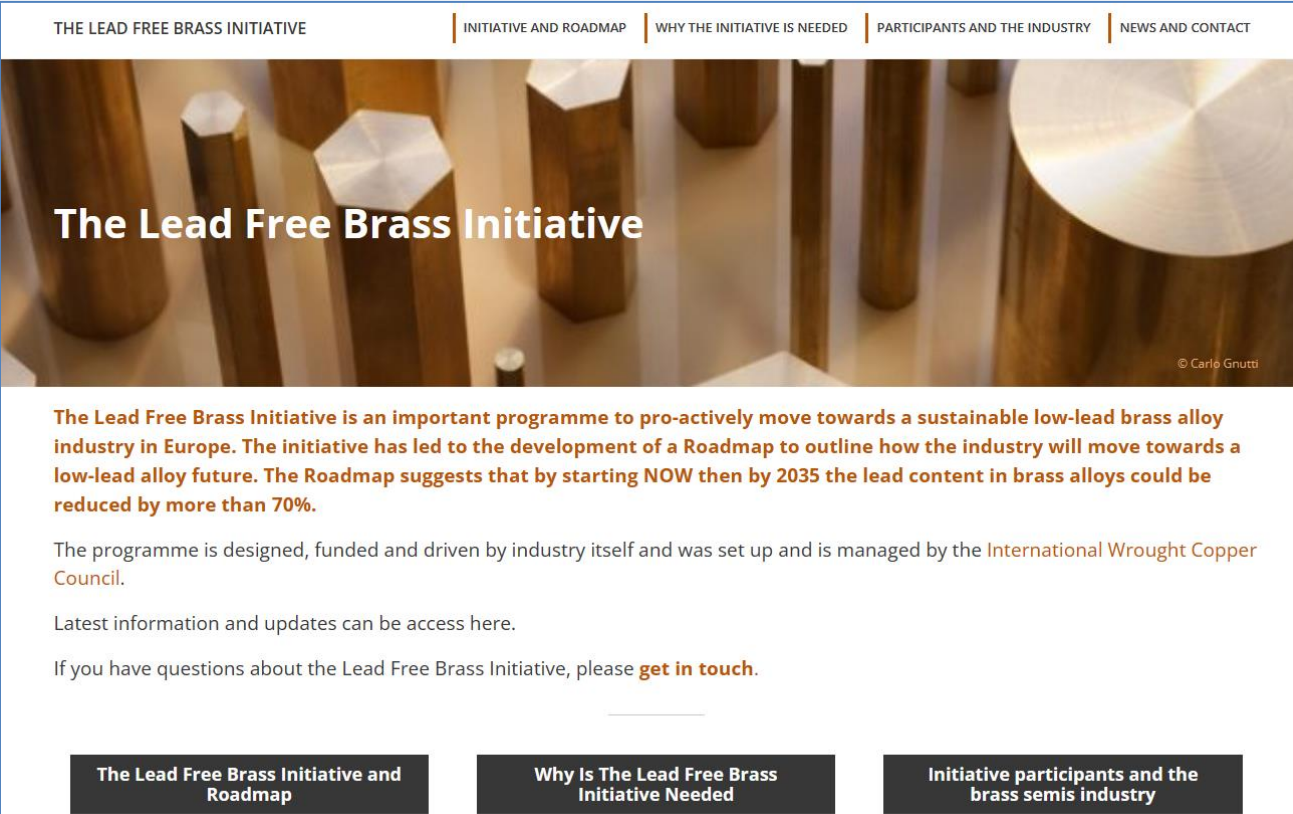


# Pressure and ambition towards Lead (Pb) substitution (2/3)

The Lead Free Brass Initiative:

[www.leadfreebrass.org](http://www.leadfreebrass.org)

Lead in brass alloys could be reduced by more than 70% in 2035



THE LEAD FREE BRASS INITIATIVE | INITIATIVE AND ROADMAP | WHY THE INITIATIVE IS NEEDED | PARTICIPANTS AND THE INDUSTRY | NEWS AND CONTACT

## The Lead Free Brass Initiative

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The Lead Free Brass Initiative is an important programme to pro-actively move towards a sustainable low-lead brass alloy industry in Europe. The initiative has led to the development of a Roadmap to outline how the industry will move towards a low-lead alloy future. The Roadmap suggests that by starting NOW then by 2035 the lead content in brass alloys could be reduced by more than 70%.

The programme is designed, funded and driven by industry itself and was set up and is managed by the International Wrought Copper Council.

Latest information and updates can be access here.

If you have questions about the Lead Free Brass Initiative, please **get in touch**.

The Lead Free Brass Initiative and Roadmap | Why Is The Lead Free Brass Initiative Needed | Initiative participants and the brass semis industry

## Pressure and ambition towards Lead (Pb) substitution (3/3)

**ARGE works bi-directionally:**



# ARGE's Lead (PB) reduction programme

## 1. Keys, lock cylinders and padlocks:

Research projects for eliminating or at least reducing the lead content

## 2. All other building hardware products:

Compilation and dissemination of information on the usability of unleaded alternative materials (brass, steel, aluminium alloys, ...)

# Research projects on keys, lock cylinders and padlocks (1/4)

## Engaged in the project:



- **Laboratory for Machine Tools and Production Engineering** at the Technical University in Aachen
- **13** Manufacturers of keys, lock cylinders and padlocks
- **7** manufacturers of semi-manufacturers
- **3** tool manufacturers
- **2** manufacturers of key cutting machines

# Research projects on keys, lock cylinders and padlocks (2/4)

## 13 Manufacturers of keys, lock cylinders and padlocks

**Access 2** (UK)

**dormakaba** (CH/AT)

**ALLEGION/CISA** (IE/IT)

**EVVA** (AT)

**Altuna Group** (ES)

**ISEO** (IT)

**ASSA ABLOY** (SE/DE)

**THIRARD** (FR)

**BKS** (DE)

**WILKA** (DE)

**CES** (DE)

**WINKHAUS** (DE)

**DOM Security** (FR/DE)



## Research projects on keys, lock cylinders and padlocks (3/4)

7 Manufacturers of semi-manufactures supply their semis free-of-charge

Nickelsilver-Strip:

**SUNDWIGER** **wieland**  
Messingwerk

 **MITSUBISHI MATERIALS**

Brass-Strip:

 **Aurubis** **wieland**

 **TRAFILERIE CARLO GNUTTI**

Brass-Rods:

 **Aurubis** **wieland**

 **TRAFILERIE CARLO GNUTTI** **DIEHL**

 **MITSUBISHI MATERIALS** **HME**

# Research projects on keys, lock cylinders and padlocks (4/4)

**External project cost:** approx. 460k €

**Project duration:** October 2023 – October 2025

## Reduction/ elimination of lead in all other building hardware products (1/2)

- ➔ Compilation and dissemination of information on the usability of unleaded alternative materials (brass, steel, aluminium alloys, ...)
- ➔ Project was started in 2022 but was not furthered in 2023 due to limited capacity; will be resumed in Q/2023

## Reduction/ elimination of lead in all other building hardware products (2/2)

Door closers and door coordinators	Sliding door gear
Electric strikes	Surface mounted locks (night latches)
Emergency and panic exit devices	Swing door drives
Handles and knobs	Window automation
Hinges	Window fittings (e.g., tilt & turn furniture)
Mortise locks	

## Take away from this presentation ...

- ➔ The lead substitution continues to gain momentum
- ➔ ARGE is pro-actively supporting its member companies
- ➔ Manufacturers within ARGE have to clout to make things happen!



Let's take up the  challenge!

# Thank you!

## Any questions?