

## **ARGE's Lead (Pb) Reduction Programme**

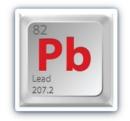
## Taking up the lead challenge

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- ⇒ 2030: Looking at lead in building hardware
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## The legal pressure on lead (Pb) continues to increase (1/3)



#### Overview:

- **⇒ Lead (Pb)** in products has been **restricted in EU** (EEA) **countries since 2006** (RoHS 1).
- **⇒** For ARGE the relevant core legal acts are the EU REACH Regulation and EU RoHS Directive.
- ➡ REACH radiates to other EU legal acts, as Waste Framework Directive (SCIP Database), Construction Products Regulation, Taxonomy Regulation, etc.
- **⇒ Lead (Pb)** as a **Substance of Very High Concern (SVHC) in REACH** has become relevant for **EPD** too.



### The legal pressure on lead (Pb) continues to increase (2/3)

#### Pro memoria:

#### **⇒** REACH Regulation:

■ REACH stands for Registration, Evaluation, Authorisation and Restriction of Chemicals (including substances as e.g. lead) and aims at improving the protection of human health and the environment from the risks that can be posed by chemicals.



#### **○** RoHS Directive:

■ RoHS stands for Restriction of Hazardous Substances in Electrical and Electronic Equipment and restricts the use of hazardous substances in electrical and electronic equipment to protect the environment and public health.





## The legal pressure on lead (Pb) continues to increase (3/3)

Some milestones:

Especially since 2018, the challenges with both, REACH and RoHS have increased significantly !!!!!

#### 2022

REACH: Proposal to add lead to the list of substances subject to authorisation



#### 2012

REACH: Lead became a restricted substance

#### 2015

REACH: Mouthing of children was added to restriction

#### 2018

REACH: Lead was added to the list of Substances of Very High Concern (SVHC)





### 2030: Looking at lead in building hardware

**②** Building hardware products, as door closers, door locks, panic exit devices, glass door gear, window fittings are lead-free ⚠!



- ⇒ Many/most/all (?) keys are made from unleaded alloys (unleaded: < 0.1%) 
  →.</p>
- ⇒ Lead content in lock cylinders is significantly reduced 
  ♣. 
  ▶
- **○** It's not just looking into the crystal ball!





### ARGE's strategy to get to us to the 2030 target picture (1/3)

ARGE works bidirectionally:

- There is a clear commitment by the manufacturers in ARGE to strive for the reduction − and where reasonably possible − the elimination of lead in their products!
- □ In addition, ARGE contributes to EU law making and implementation (REACH and RoHS)



# ARGE's strategy to get to us to the 2030 target picture (2/3) *Quotes:*

Quote from a Policy Officers of the European Commission:

"If you benefit from a derogation for your keys and locks, you cannot expect that this derogation will last forever."

2019

Quote from a consultant to the European Commission:

"Isn't there any progress with having eliminated lead in your mechatronic/ electronic building hardware which you can report?"

2021



### ARGE's strategy to get to us to the 2030 target picture (3/3)

We sliced the elephant:

#### **4 Work Packages**

- ➡ WP 1: Keys Establishing robust test data for lead release in artificial saliva
- ➡ WP 2: Keys Reduction of lead content in copper alloy
- **WP 3:** Lock cylinders & padlocks Reduction of lead content in copper alloy
- ⇒ WP 4: All other building hardware products Compiling and disseminating information relevant for reduction of lead content respectively elimination of lead in products



### State of play WP 1

Testing keys for lead migration

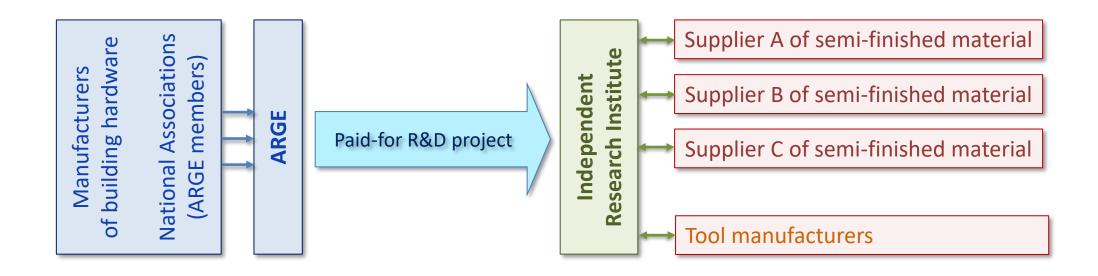
- **Team** established
- Relevant test standards studied and understood
- Potential test institutes identified
- Request for quotation prepared



#### State of play WP 2 and WP 3

Research projects for reducing/eliminating lead in keys, locks cylinders and padlocks

- Structure established
- Stakeholders committed





## State of play WP 2 and WP 3

Research projects for reducing/eliminating lead in keys, locks cylinders and padlocks

Envisaged research partner: RWTH Aachen WZL (Germany)



**⇒ First, indicative cost estimate:** € 100k for key project

€ 150k for lock cylinder project



### State of play WP 4

Compiling and disseminating information for all other products than keys and lock cylinders

- **Scope defined: 11 product lines** to be dealt with:
- **Compilation of data** kicked-off

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



## Tasks for 2022/2023/2024

- **WP 1:** Obtain Europe-representative data for lead migration of keys (end-date: 2023)
- ⇒ WP 2 + 3: Establish financing of projects, and subsequently carry out projects (end-date 2024/2025)
- **WP 4:** Compile and disseminate information (end-date 2023/2024)



## Your take-away from this presentation ...

- **⇒** The legal pressure on lead continues to increase!
- ARGE is working bidirectionally:
  - Legal direction: With the European Commission
  - Technical direction: In research projects with our suppliers
- Manufactures in ARGE have the clout to make things happen!!!





# Let's master the



challenge!



# Thank you!

Any questions?