



**Safety first!**  
**How to continuously improve**  
**safety performances**

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euopean  
aluminium association

Aluminium for Future Generations 

# What are we talking about?

**...Limiting  
high-risks  
accidents...**



# ...Personal Protective Equipment...



# ...Molten metal safety...



# ...Deployment of a Safety Culture!





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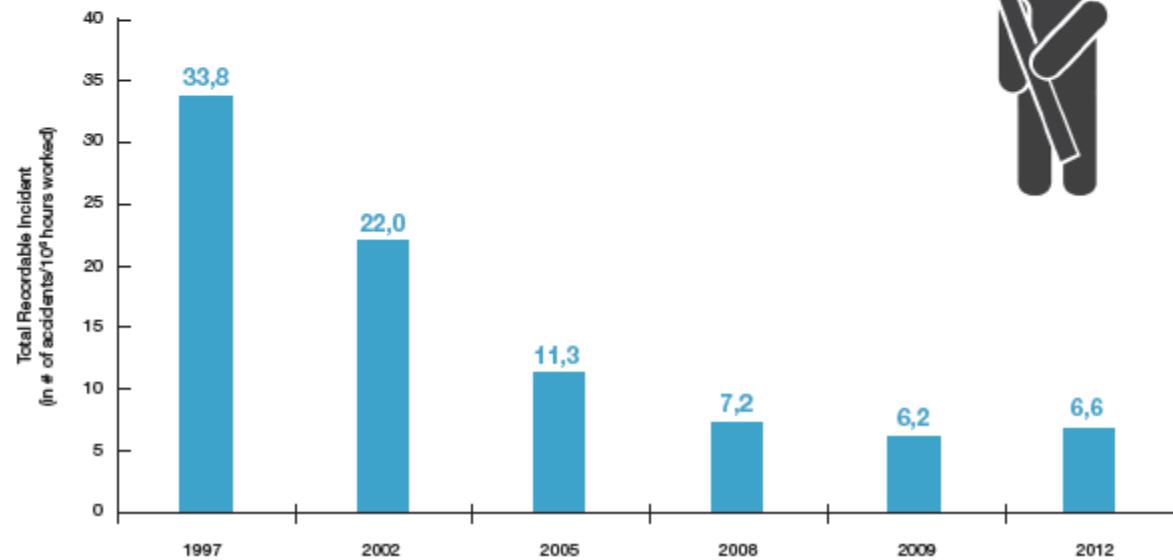
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# Where do we stand?

Continued strong investments in safety, prevention and training programmes has led to impressive progress with a **79% reduction in Total Recordable Incident rate.**

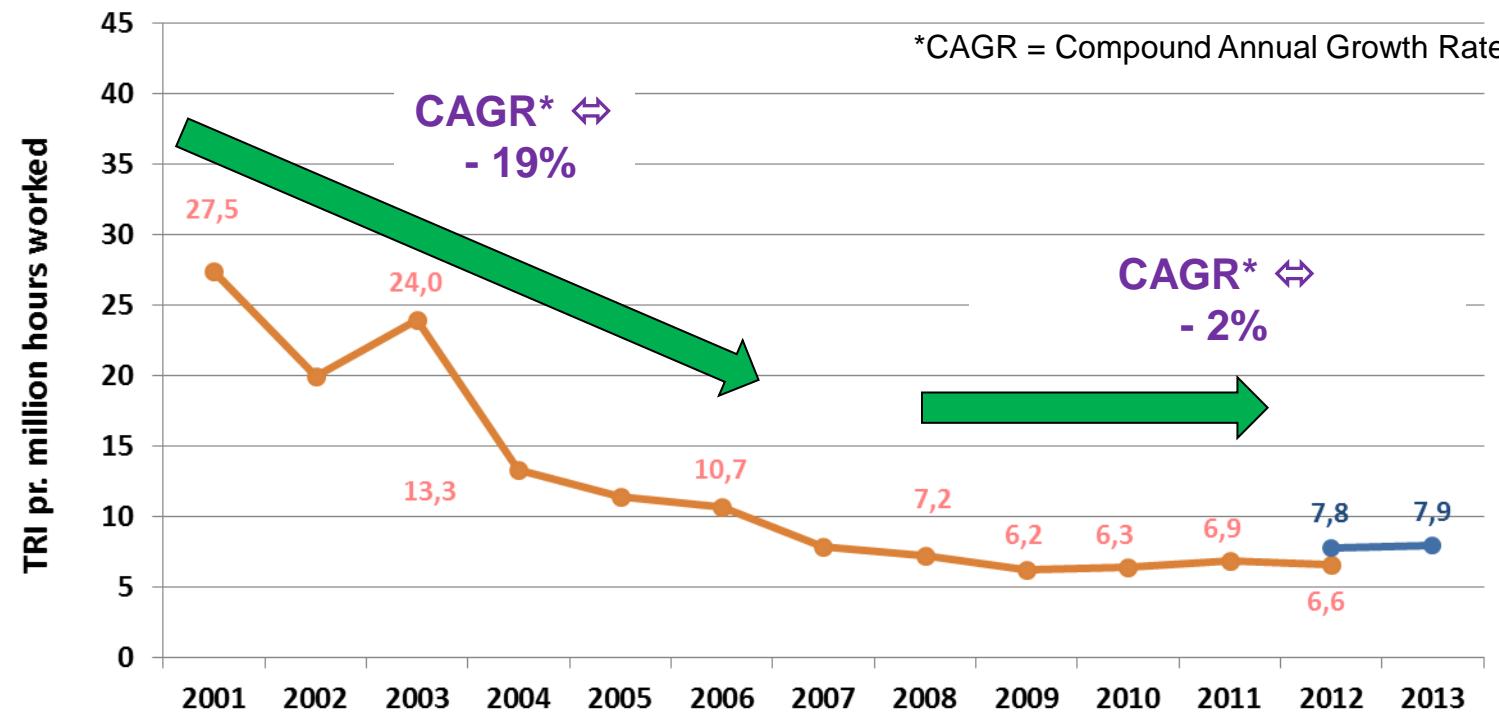
The Total Recordable Incident Rate (TRI) is the total number of fatalities, lost time accidents, restricted work cases and medical treatment cases per million hours worked.

Total Recordable Incident (TRI)



# How does EAA support its members companies in improving?

## Exchange best practices through...



...Regular collection of safety statistics

# Exchange best practices through...



# Exchange best practices through...



...bi-yearly EAA Safety Workshops

# Exchange best practices through...

## Effective SAFETY Solutions

**WHERE**  
Company: Constellium  
Location: Issiore  
Business: Plate and Sheet

**THE ISSUE**  
There is a high risk of explosion if a tool touches molten metal which is not prepared for contact with molten metal. This can happen if tools for different purposes get mixed.

**THE SOLUTION**  
Type: Technical  - Procedures  - Others   
The two kinds of tools are painted in different colors: tools for molten metal in red, others tools in blue.

**PICTURES**  
 

**SAFETY BENEFITS – pros/cons**  
The visualization makes a human error very unlikely.

**IMPLEMENTATION COST (k€) AS APPLICABLE**  
The cost is insignificant.

**EAA SAFETY WORKSHOP – 10 & 11 June 2013 - Brussels**

## Effective SAFETY Solutions

**WHERE**  
Company: Aluminium of Greece  
Location: St Nikolaos Plant, 32003 Greece  
Business: Alumina & Aluminium production (smelter)

**THE ISSUE**  
Increase plant's safety level by enhancing workforce participation.  
Put safety in employees' everyday agenda by improving Secure Professional Action (SPA).

**THE SOLUTION (additional level of protection put in place)**  
Type: (Technical  - Procedures  - Others )  
Description of key feature or change versus current conditions:  
Introduction and communication of Secure Professional Behavior (SPB)  
Evolution of SPA using bottom – up teamwork and video recording made by Taskforce Team in order to:  
Show the appropriate and safe way of working  
Identify and assess potential hazards in area of responsibility  
Visualize the appropriate work procedures  
Underline the risky or false behaviors  
Communicate best practices  
Enhance discussions and brainstorming for safety  
Produce corrective actions

**RES (if applicable) or ADDITIONAL INFO**  
Attached presentation & videos

**BENEFITS – pros/cons**  
Bottom – up) Participation, Safety, Results, Behavior

**IMPLEMENTATION COST (k€) AS APPLICABLE**

Costs.  
camera. (100 €)

## Effective SAFETY Solutions

**WHERE**  
Company: Assan Aluminyum Sanayi Tic. A.S. (01)  
Location: Turkey  
Business: Rolled Flat Aluminium Products

**THE ISSUE**  
In some places in the factory where the alone workers are working, in case of accident it may be too late to help the alone worker. Although alone workers have portable phones he could have no chance to use it if he passed out.

**THE SOLUTION (additional level of protection put in place)**  
Type: (Technical  - Procedures  - Others )  
Description of key feature or change versus current conditions:  
At the end of last year we began to use personal alert device which can be easily carried on the arm of workers. Six places were determined to use the system where the alone workers are working. Six places were determined to use the system where the alone workers are working. The working principle of this device is depending on inactivity of the alone workers. When the personal alert device perceives this inactivity, it sends signal via transmitter on the wall in the alone worker working zone to the main unit which gives alarm signals to responsible. If alone worker leaves his working zone for more than 30 minutes the system is activated and gives signals to alert shift responsible. Addition to inactivity feature, portable device can be used by button mounted on it.

**RES (if applicable) or ADDITIONAL INFO**  


**BENEFITS – pros/cons**  
Immediately if alone worker becomes inactive, alert shift responsible by pressing button of the device if he could not use it.

**IMPLEMENTATION COST (k€) AS APPLICABLE**  
Cost of system in six location is 3.7k€

**ETY WORK**

# ...EAA Safety Solutions Awards

# Thank you for your attention!

## Any questions?

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