



# Circular economy as a key cornerstone for a sustainable cement industry

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# HeidelbergCement has committed to doing more with less

SUSTAINABILITY  
COMMITMENTS  
**2030**

SUSTAINABLE DEVELOPMENT **GOALS**  
17 GOALS TO TRANSFORM OUR WORLD

Includes target to source **30%** of total heat consumption from **alternative fuels** at Group level.



**DRIVING  
ECONOMIC STRENGTH  
AND INNOVATION**



**ACHIEVING EXCELLENCE  
IN OCCUPATIONAL HEALTH  
AND SAFETY**



**REDUCING  
OUR ENVIRONMENTAL  
FOOTPRINT**



**ENABLING THE  
CIRCULAR ECONOMY**



**BEING A GOOD  
NEIGHBOUR**



**ENSURING COMPLIANCE AND  
CREATING TRANSPARENCY**



**HEIDELBERGCEMENT**

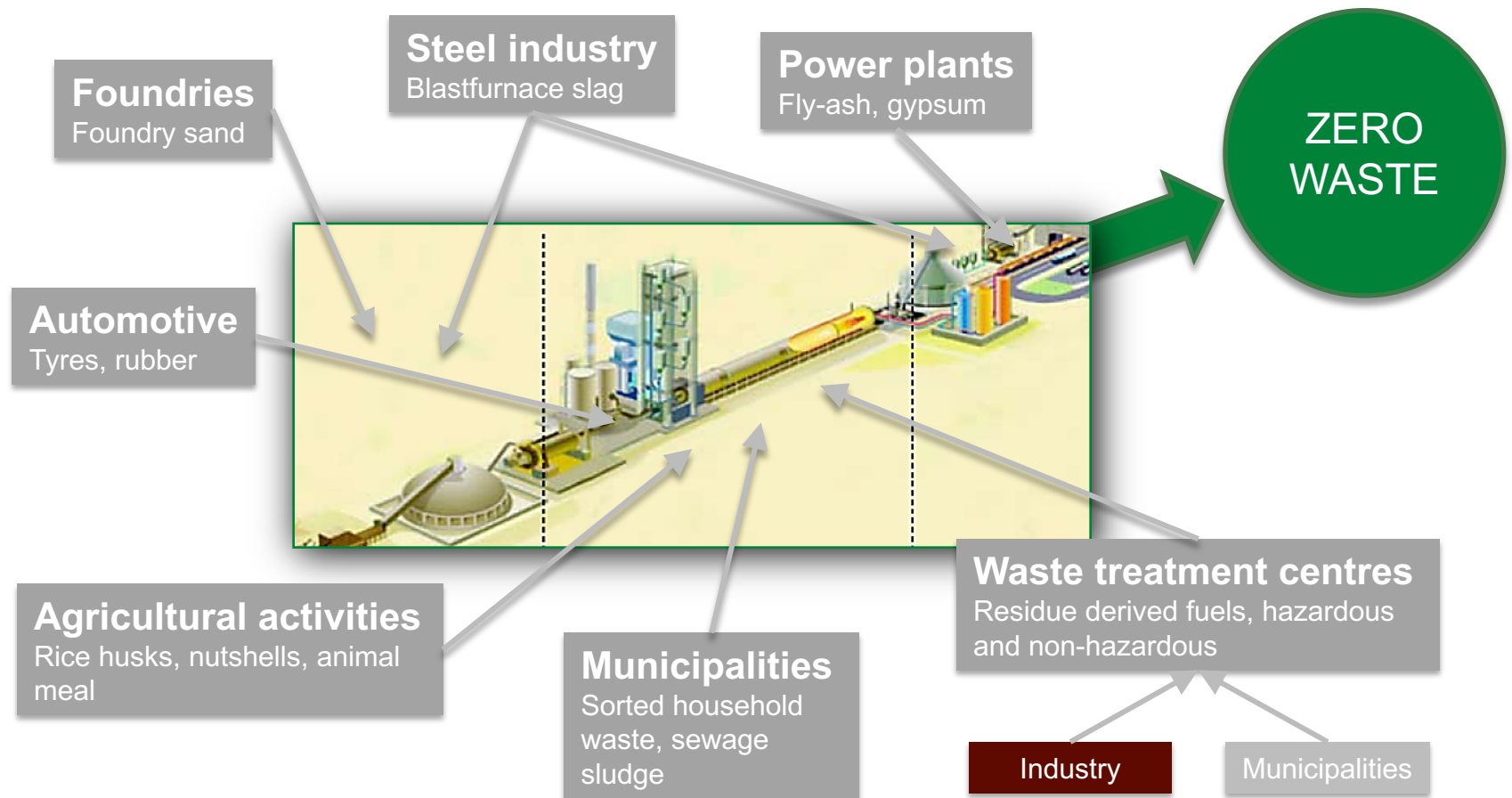
# How are we circular ?



- As raw materials we use a variety of wastes from other industries.
- In clinker production the fossil fuels are replaced by alternative fuels: wastes with significant caloric values.
- In cement production a part of the clinker is substituted with by-products like fly ash.
- Concrete as final product is 100% recyclable either as aggregate in concrete or as road base.

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# Cement production is at the heart of industrial ecology



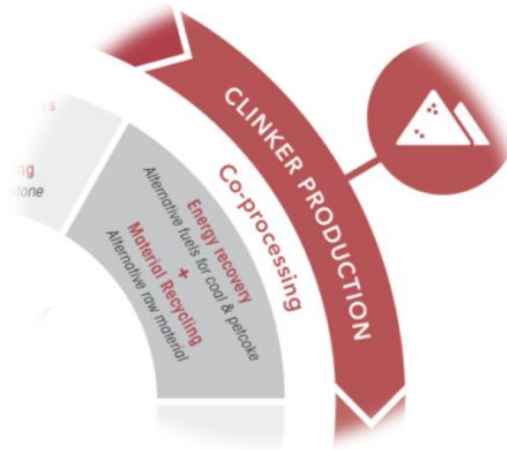
HeidelbergCement recovers finite resources to minimise primary energy consumption

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# Co-processing

Co-processing is the combination of energy recovery and material recycling.

Co-processing offers the necessary parameters for a **full burnout of wastes** with a minimal environmental impact.



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## At 60% average rate of use alternative fuels, the EU Member States would cumulatively:

1. Avoid 26.0 Mtonnes of CO<sub>2</sub> emissions
2. Process 15.7 Mtonnes of waste
3. Save 11.1 Mtonnes of coal equivalent
4. Avoid 12.2 EUR billion investment in WtE plants

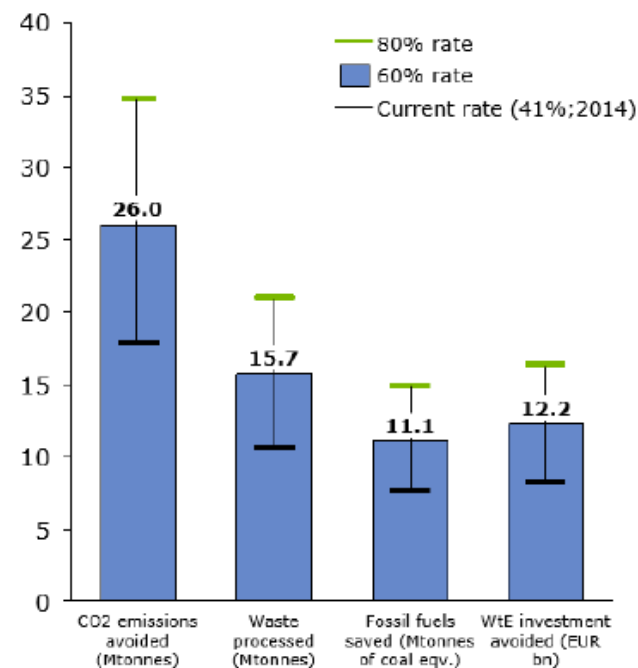


Figure 3-3: Estimated benefits at 60% average co-processing rate across EU 28

## And why that ambition is challenging .....

### 1. Unavailability of high quality waste fuels



Figure 5-1: Availability of high quality waste streams for the cement industry

### 2. Excessive bureaucracy



Figure 5-2: Perceived bureaucratic obstacles in regards to permit issuance

### 3. Public unacceptance of waste

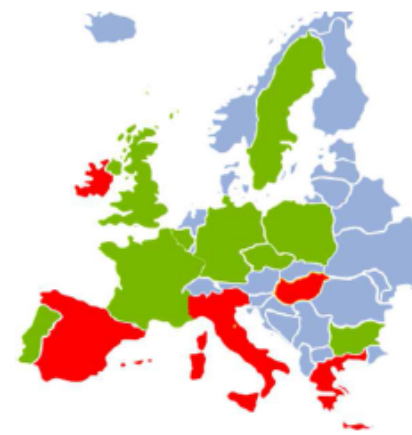


Figure 5-3: Public perspective towards waste combustion

**There are clear wins for society, environment and business !**

## **Policy Recommendations to enhance recycling & recovery in the cement & concrete sector**

- 1. Complete landfill ban for combustible materials.**
  - Stronger support of separate collection systems.
- 2. Level playing field in assessment of recycling & recovering materials between sectors (and countries).**
- 3. Recognition of the recycling part of co-processing.**
- 4. Reduction of bureaucracy levels with in regard to permitting for both waste utilization in cement kilns and imports of pre-proceed wastes.**



# Thank you for your attention.

## **CONTACT**

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