

**International workshop on Application of Sustainability Principles  
and Circular Economy to Nuclear Decommissioning**

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# **Circular economy applied to construction materials (non-nuclear)**

Jose Blanco, Secretary General  
European Demolition Association, EDA







# EDA brings the **demolition** industry **together**

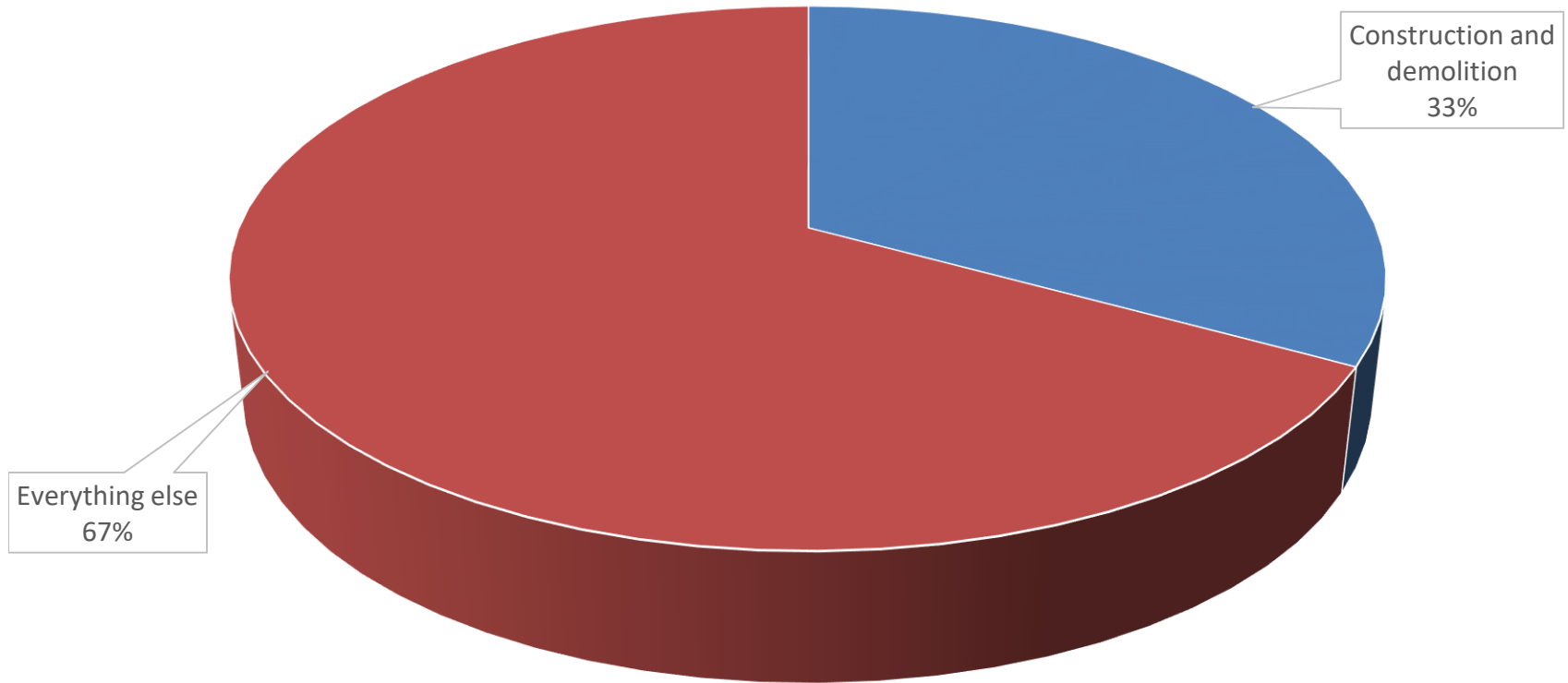








# Production of waste



# The green issue





# The green issue

- Sustainable development/circular economy
- Energy efficiency
- Extended producer responsibility
- Definitions and hierarchy of waste
- Waste management targets
- End of life of construction materials
- Waste management and subproducts







← Right Decision  
Wrong Decision →











*One Sixty Four*  
1640 PINE STREET















# **DANGER**



**Hazardous  
waste  
Handle  
with care**





**CHANGE  
AHEAD**







# Demolition becomes relevant

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GROWTH

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demolition



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### WEB Circular economy - European Commission

[ec.europa.eu/growth/industry/sustainability/.../index\\_en.htm](https://ec.europa.eu/growth/industry/sustainability/.../index_en.htm)

**11 Feb 2016** - More on Construction and **demolition** Waste originating from construction and **demolition** represents one of the highest volumes of waste in Europe. One ton of construction and

### WEB Construction - European Commission

[ec.europa.eu/growth/sectors/construction/index\\_en.htm](https://ec.europa.eu/growth/sectors/construction/index_en.htm)

**11 Feb 2016** - the consolidating the internal market for construction products by developing a common technical language for the performance of construction products following up on the

### WEB Growth - European Commission - News

[ec.europa.eu/.../itemdetail.cfm?item\\_type=251&lang=en&item\\_id=8589](https://ec.europa.eu/.../itemdetail.cfm?item_type=251&lang=en&item_id=8589)

**09 Dec 2015** - from construction and **demolition** represents one of the highest volumes of waste in Europe. We plan to take a series of actions to ensure the recovery of valuable resources

### WEB Construction sector competitiveness - European Commission

[ec.europa.eu/growth/sectors/construction/.../index\\_en.htm](https://ec.europa.eu/growth/sectors/construction/.../index_en.htm)

**11 Feb 2016** - job creation through up-skilling and apprenticeships to meet demands for new competencies Resource efficiency : focusing on low emission construction, recycling and valorisation

### WEB Growth - European Commission - News

[ec.europa.eu/.../itemdetail.cfm?item\\_type=251&lang=en&item\\_id=7141](https://ec.europa.eu/.../itemdetail.cfm?item_type=251&lang=en&item_id=7141)

**18 Feb 2016** - to the construction sector, could provide a tool for data gathering. Recycling and valorisation of construction and **demolition** waste: Develop Tools/Guidelines based on existing



# DDR = Demolition + decontamination + recycling

- **Make it safe and secure - All the time**
- Environmental protection
- Decontamination
- Demolition itself (multiple methods, machines, tools, processes,...)
- Valorization & on-site recycling
- Preparation for off-site recycling
- Remediation of contaminated soil

# Many issues to be solved

Just in building materials 862 registered chemical substances

**ECHA**  
EUROPEAN CHEMICALS AGENCY

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ECHA > Information on Chemicals > Registered substances

### Registered substances

The data comes from registration dossiers submitted to ECHA by the date indicated as last update. The Total Tonnage Band is compiled from all the dossiers with two exceptions; any tonnages claimed confidential and any quantity used as an intermediate to produce a different chemical. The Total Tonnage band published does not necessarily reflect the registered tonnage band(s).

Please note that information on chemical properties of registered substances is directly accessible via eChemPortal. [Chemical Property Data Search](#)

Further information

- Registered substances
- How to determine whether a substance is a chemical (Data Submission Manual)
- Understanding REACH Regulation
- Q&A on registered substances
- Give us your feedback

Last updated 09 February 2016. Database contains 13876 unique substances and contains information from 53231 dossiers.

Substance identity

Administrative data

Substance data

Uses and exposure

Category:

Product Category

Sector of Use

Process Category

Environmental Release Category

Article Category

Operator:

AND

View all Registered Substances

Search Clear all

Showing 1 - 50 of 862 results.

Items per Page 50 Page 1 of 18 < First < Previous Next > Last >

Name	EC / List no.	CAS no.	Registration type	Submission type	Total tonnage band
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But the demolition industry deals with many types of materials and sectors





# The Future

NEXT EXIT 





# Design for end-of-life

- What does it mean?
- How to increase reuse?
- How to reduce processing operations?
- How to reduce the number and types of materials mixed on construction?
- How to make it easier for decontamination and/or demolition?





# Let's keep in touch

## European Demolition Association, EDA

Tel.: (+32) 280 827 60

E-mail: [info@europeandemolition.org](mailto:info@europeandemolition.org)

Web: [www.europeandemolition.org](http://www.europeandemolition.org)



