

SWIM and Horizon 2020 Support Mechanism

Working for a Sustainable Mediterranean, Caring for our Future

SWIM-H2020 SM

Integrated approach to sustainable management of CDW at local level

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SWIM and Horizon 2020 SM

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Plan

- **Who we are**
- **Construction and Demolition Waste in the EU: Key data**
- **EU policy and regulation (overview)**


ACR+, the Association of Cities and Regions for sustainable Resource management

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in **23**
countries 

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C&D waste in the EU: key data

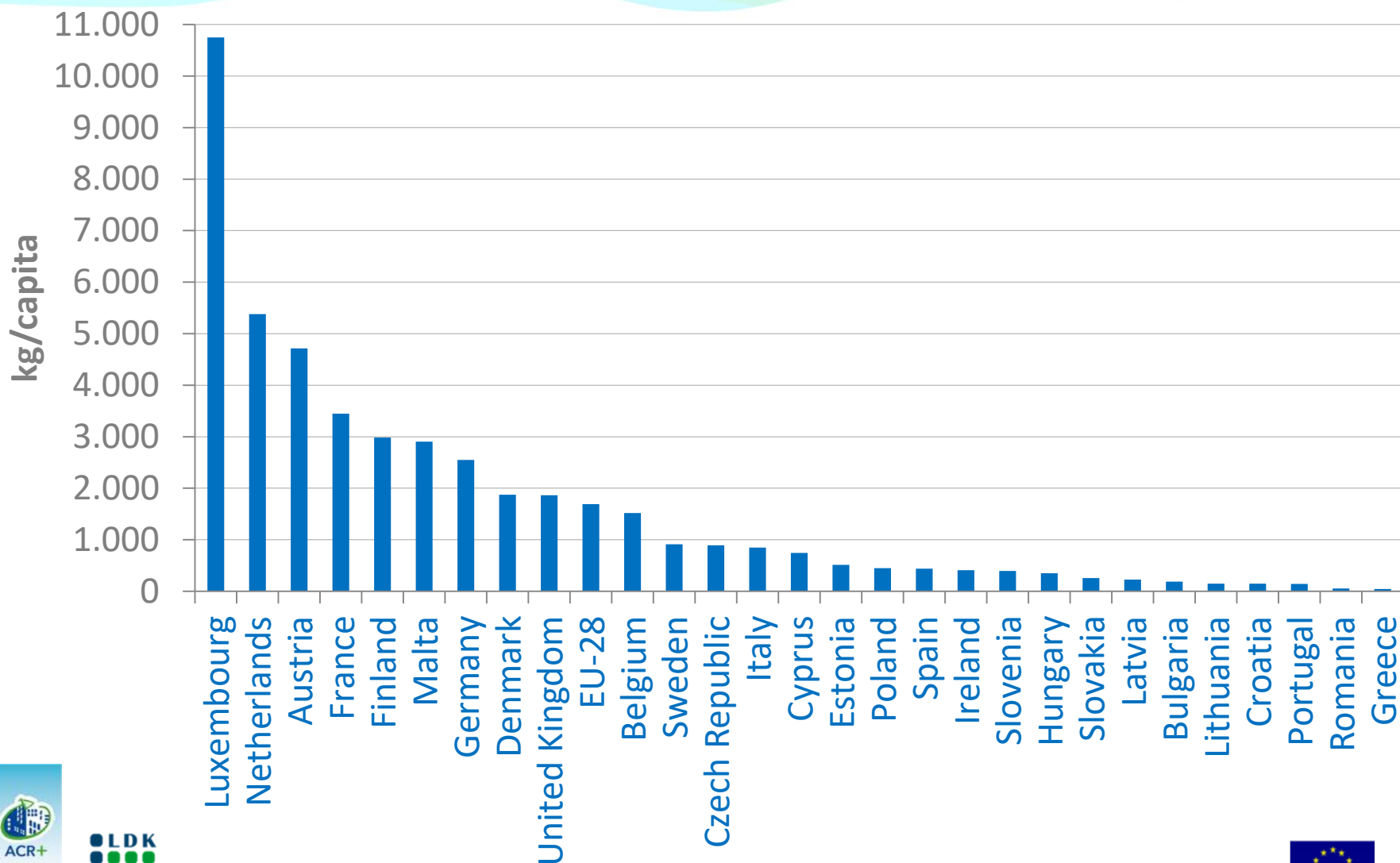
In the EU:

- **The construction industry = 18 million direct jobs and 9 % of the EU's GDP**
- **CDW = 500 millions t/year (160 t/pers)**

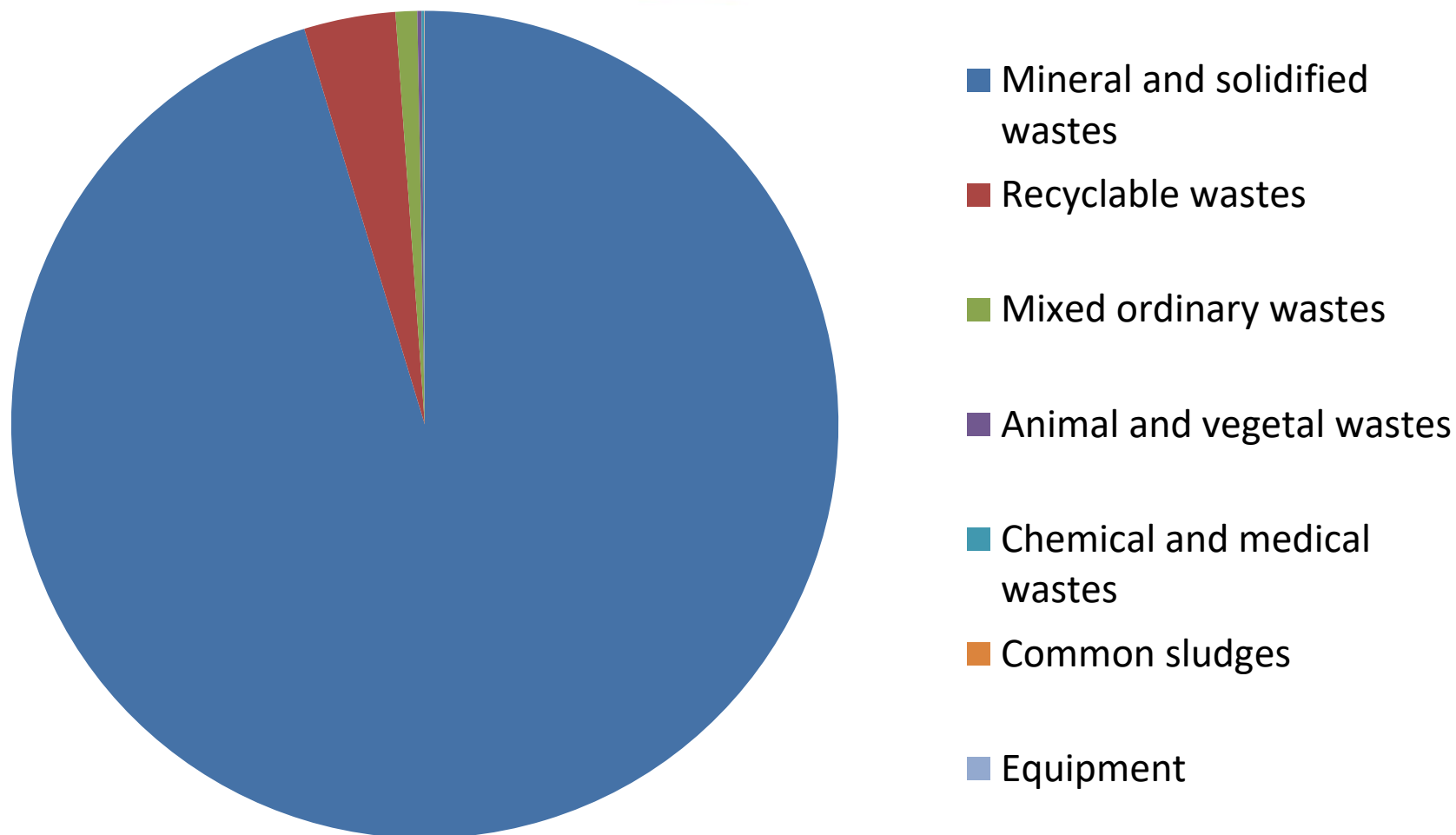


Construction waste generated per capita (2014)

Source: Eurostat

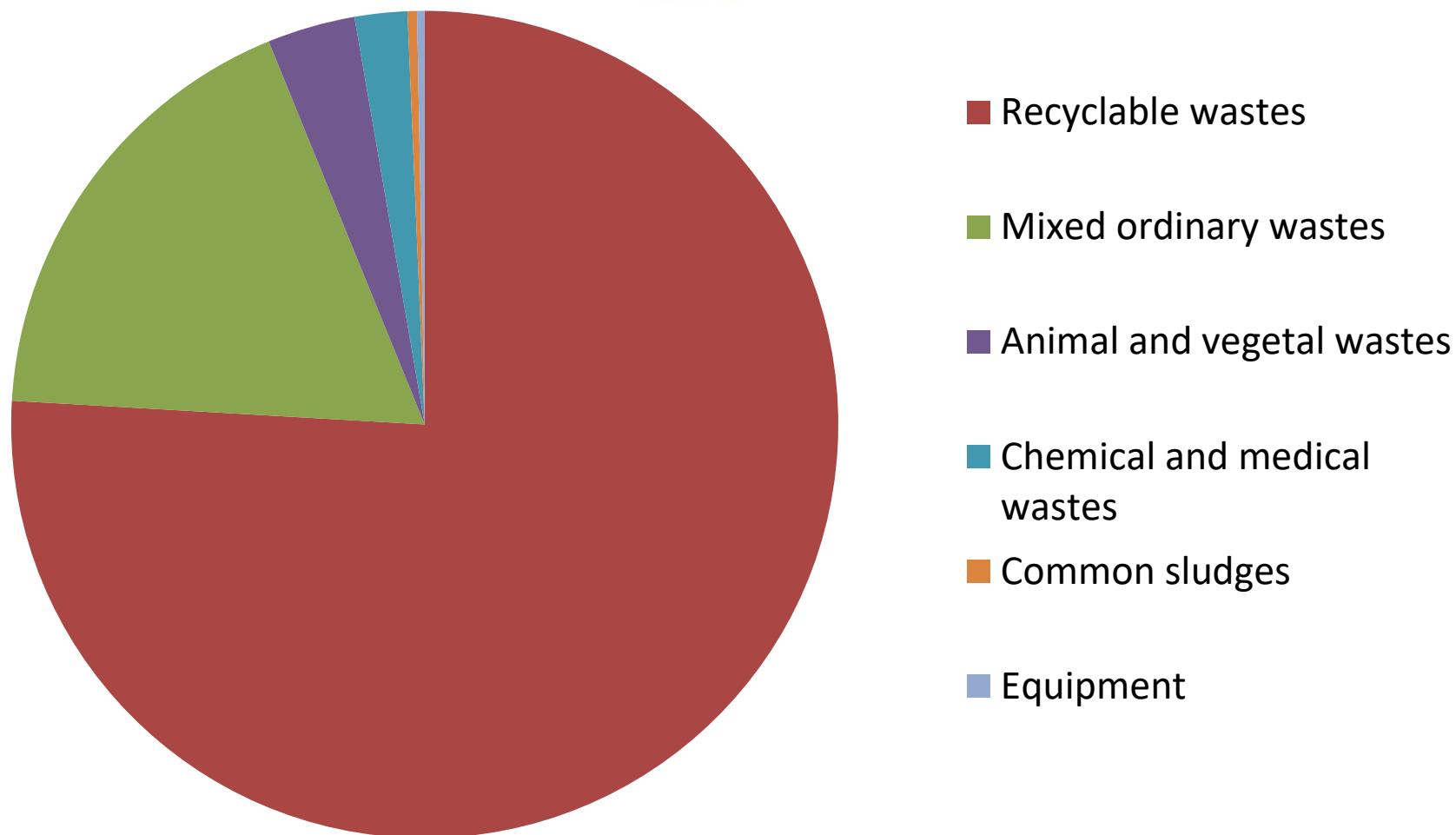


Construction waste generation in the EU-28, by type of waste (2014).



Source: Eurostat

Construction waste generation in the EU-28, excluding mineral waste (2014).



Source: Eurostat

CDW recycling & backfilling (2014)

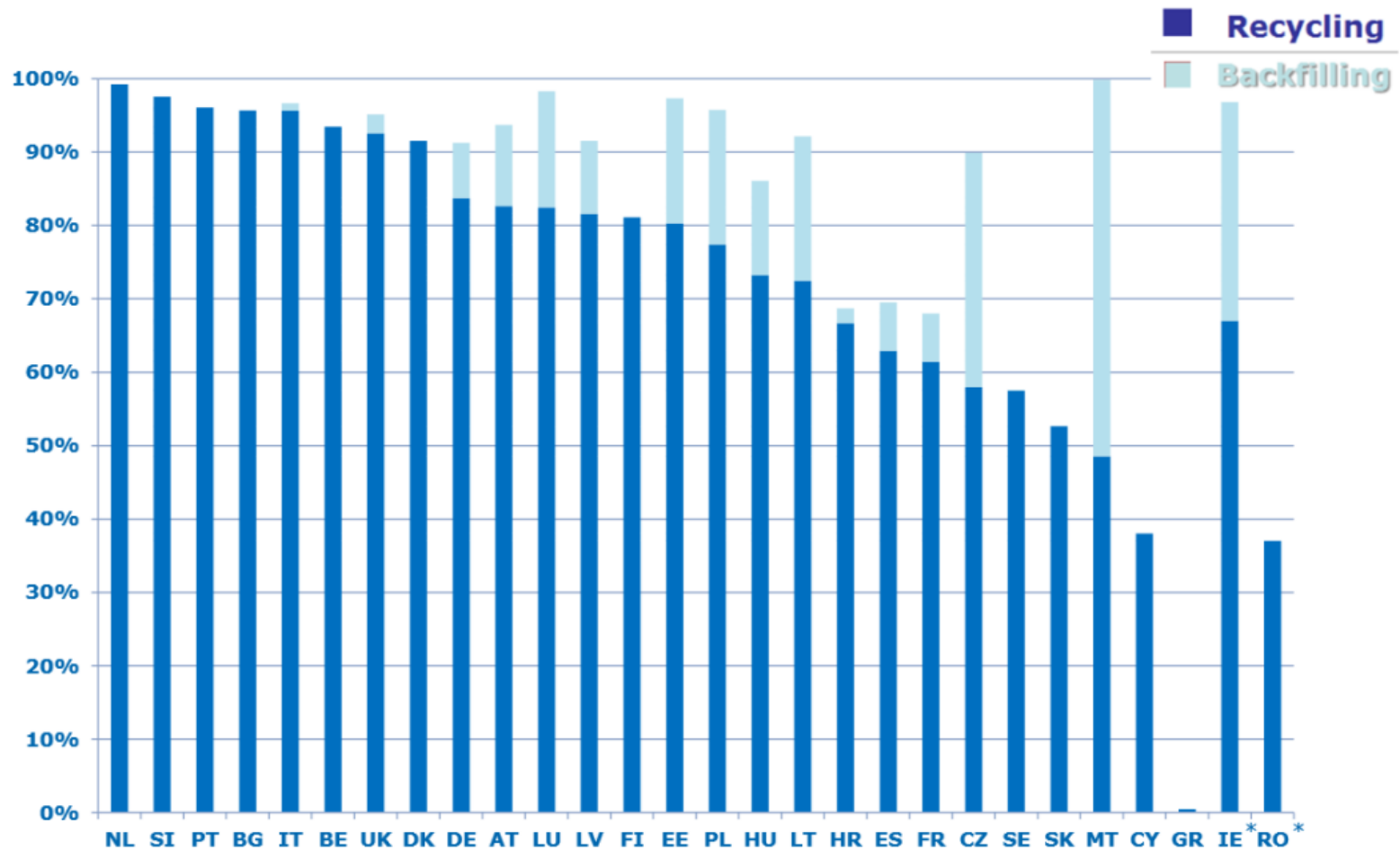


Chart: European Commission
Data source: Eurostat

C&D waste in the EU: key data

European
Commission

Levels of maturity of EU member states in CDW generation and management (Study Bio by Deloitte-BRE-ICEDD-RPS-VTT-FCT in 2015-2016)

Level 1 Initial	Level 2 Developing	Level 3 Implemented	Level 4 Improving / optimising
Lithuania Cyprus Malta Romania Bulgaria Greece Croatia Latvia	Hungary Poland Slovakia Spain Portugal Slovenia Italy France Czech Republic Estonia	Austria Belgium Finland Ireland Germany	Luxembourg Denmark Sweden United Kingdom The Netherlands

C&D waste - EU policy and regulation

2014: communication on Resource efficiency opportunities in the building sector

→ to improve design, construction, demolition, and recycling of construction products as well as simplify data in the use of resources to reduce waste

2015: the Circular economy package (and the Construction 2020 Strategy)

→ concrete and ambitious programme of actions and measures covering the whole cycle, from production and consumption to waste management and the market for secondary raw materials

Circular Economy Package

Enabling
Framework

Waste target
review

Specific
waste
challenges

Resource
Efficiency
target

Umbrella Communication

- **Green Employment Initiative**
- **Green Action Plan for SMEs**
- Progress Report RE Roadmap

- **Legislative proposal**
- Impact assessment
- Fitness check (packaging)

- **Sustainable buildings COM**
- Sustainable food
- Marine litter

- Analysis of an EU target for Resource Productivity

C&D waste - EU policy and regulation

The Construction 2020 Strategy included in the CE package

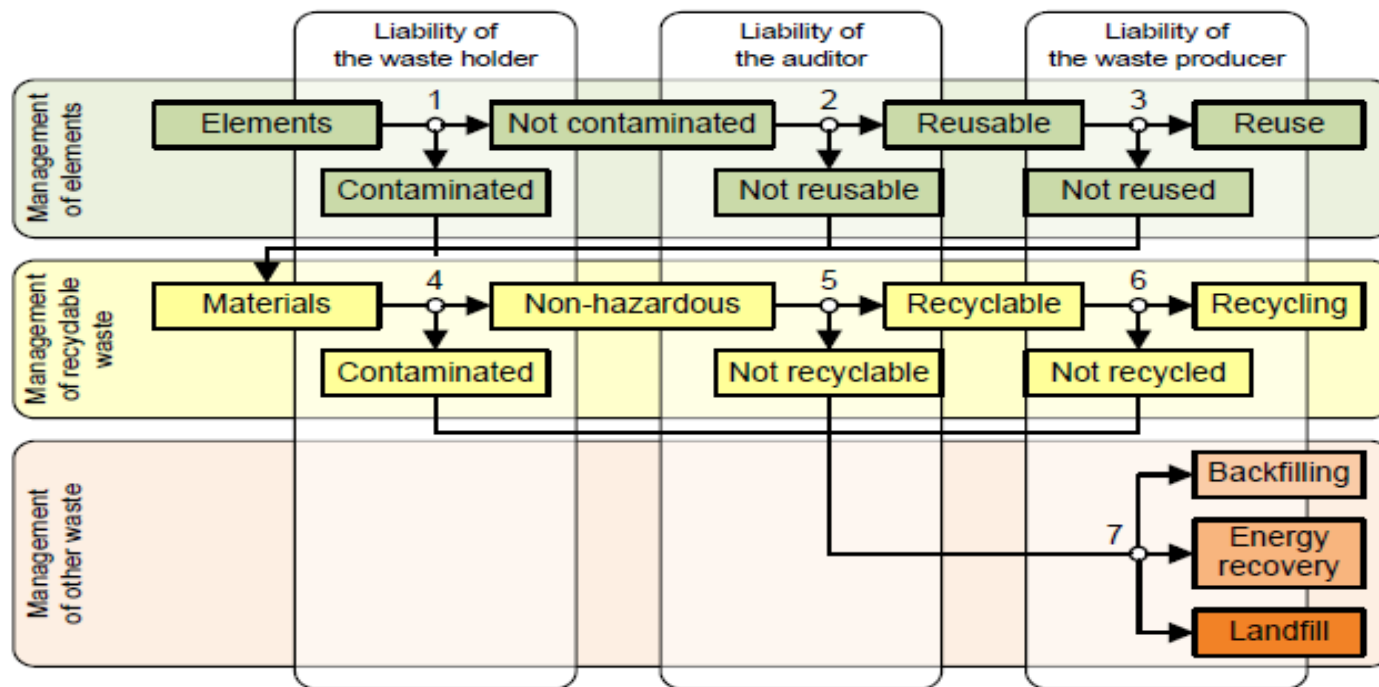
- Recycling of CDW encouraged by mandatory targets (cfr Waste framework directive 2008/98/EC)
- EU CDW Management protocol
 - Pre-demolition assessment guidelines
 - Voluntary industry-wide recycling protocol for construction and demolition waste
 - Core indicators for the assessment of the LC environmental performance of a building + incentives for their use
- Building design improvements
- Design for Deconstruction

C&D waste - EU policy and regulation

European
Commission

“EU Pre-demolition & Renovation Waste Audits”

CDW WASTE AUDIT GUIDELINE: Decision-making



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C&D waste - EU policy and regulation

EU regulation:

- **Eco-design directive 2009/125/EC** (mainly driven by energy efficiency criteria)
- **Construction Products Regulation 305/2011** (defining the rules for the affixing CE Mark based on harmonised technical specifications)
- **The landfill directive 99/31/EC** (when waste needs to be landfilled, it must be sent to landfills complying with the requirements of the directive)
- **The waste framework directive 2008/98/EC** and its article 11.

C&D waste - EU policy and regulation

EU regulation:

- The waste framework directive:

- Sets the basic concepts and definitions related to waste management ;
- Lays down some basic waste management principles;
- Explains when waste ceases to be waste and becomes a secondary raw material (end-of-waste criteria) and how to distinguish between waste and by-products

C&D waste - EU policy and regulation

EU regulation:

- The waste framework directive:

- Article 11 sets a recycling and recovery target to be achieved by 2020: 70% of construction and demolition waste must be prepared for re-use, recycling and other recovery
- The directive requires that MS adopt waste management plans and waste prevention programmes

C&D waste - EU policy and regulation

EU regulation:

- **European standards for aggregates:** introduced in 2004, withdrawn in 2013 to allow some changes, reviewed in 2016 and published recently.



For example EN 12620 provides standards for the physical and chemical properties of recycled aggregates from construction and demolition waste.

C&D waste - EU policy and regulation

For more information:

- EU Construction and Demolition Waste management Protocol (July 2017- http://ec.europa.eu/growth/tools-databases/newsroom/cf/itemdetail.cfm?item_id=8985)
- EC Sustainable Buildings Communication (2014)
- the EU 2020 Construction Strategy



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Thank you for your attention.

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