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## Circular Waste Management series IV: Collection and Recycling of CDW

### Austrian Recycling Building Materials Ordinance

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# Main Challenges of CDW

## Collection and Recycling in the Past

- Various hazardous substances in CDW (asbestos, tar, HBCD etc.)
- Inappropriate types of CDW for recycling result in patchy qualities of recycling aggregates
- Low costs of primary resources and high costs for landfilling results in high incentive for low-quality recycling
- Limited range of applications for some recycling materials, surplus of recycling materials on the market
- No end of waste criteria, no product status of recycling-materials
- Legal uncertainty due to lack of a clear legal regulation

# Austrian Recycling Building Materials Ordinance - Objectives

**Standardization and improvement of quality** of recycling-materials



- **Pre-demolition audit**
- **Removal** of materials containing dangerous substances and impurities before demolition
- Definition of **input-materials, quality classes** and **ranges of application**
- **Qualitymanagement- and labelingsystem**

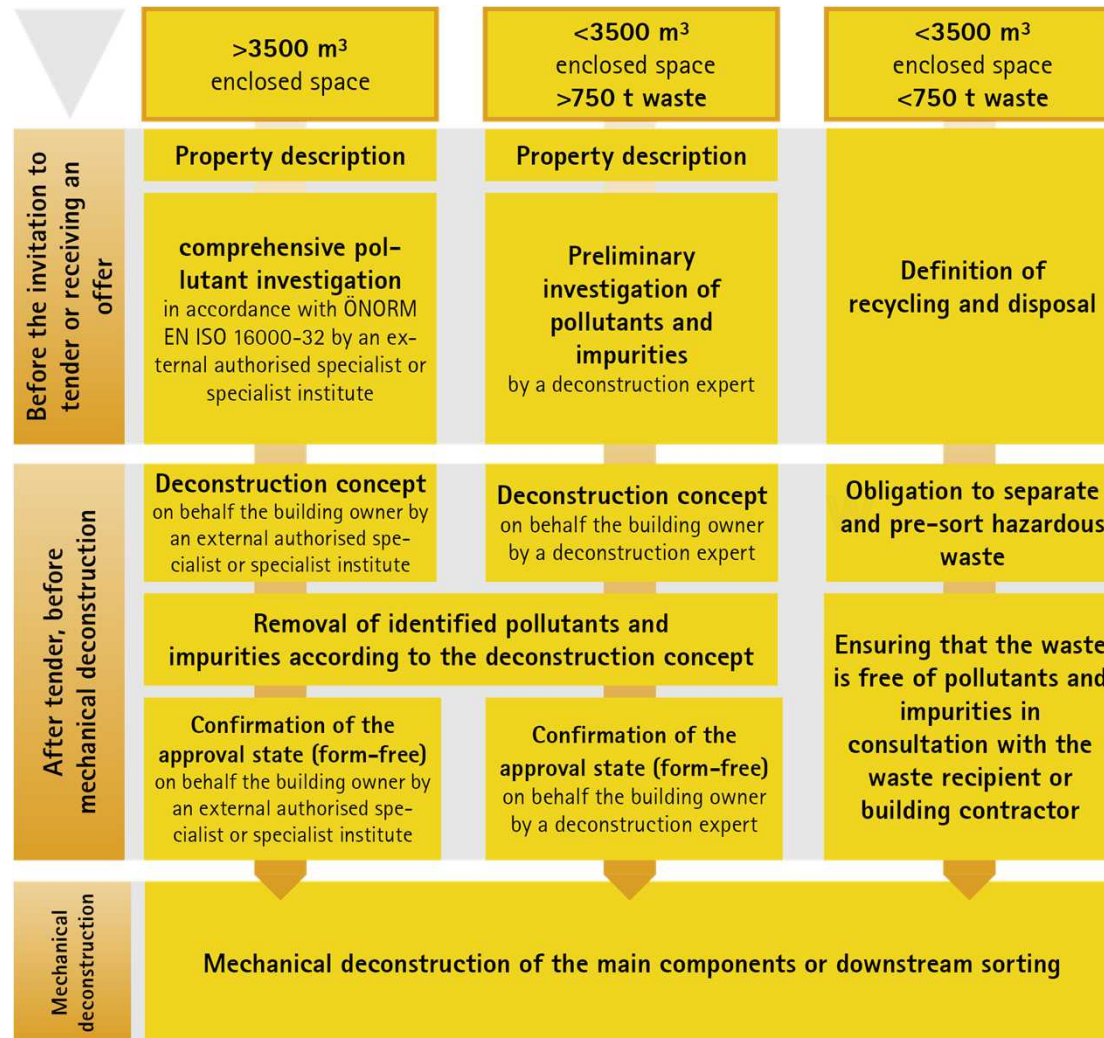
**Improvement of marketability** of recycling-materials



- **Legal security** due to precise regulations
- **End-of-waste-status** for high quality recycling-materials
- Alignment with **EU-building products regulation** (CE-marking)

Reference source: Roland Starke,  
Federal Ministry Republic of Austria BMK (bmk.gv.at)

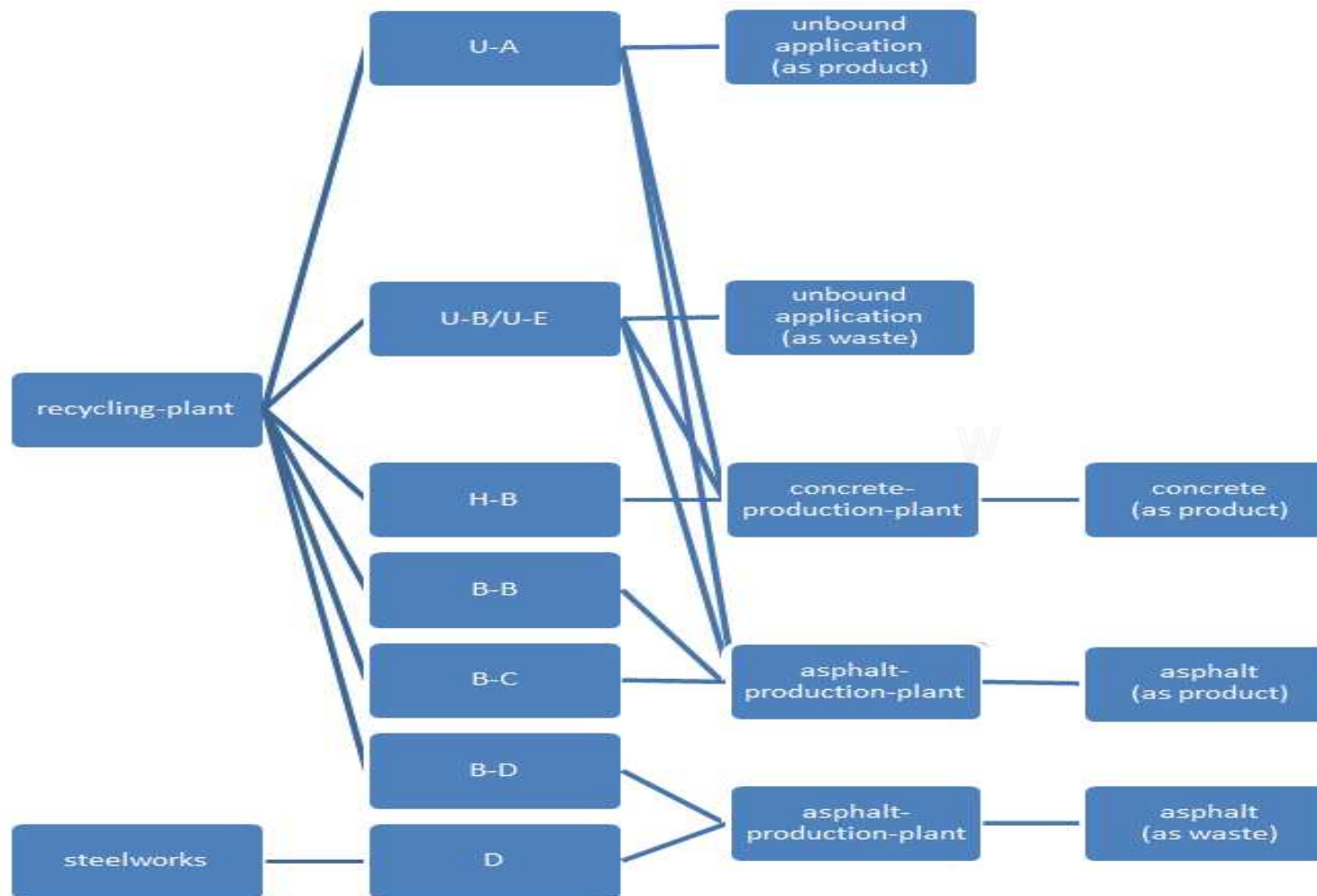
# Austrian Recycling Building Materials Ordinance – Pre-demolition Audit



Basis for preliminary investigation of pollutants and impurities: ÖNORM B 3151  
Basis for comprehensive investigation of pollutants and impurities: EN ISO 16000-32

Source: [www.baurestmassen.steiermark.at](http://www.baurestmassen.steiermark.at)

# Austrian Recycling Building Materials Ordinance – Types of Materials



# Lessons Learned

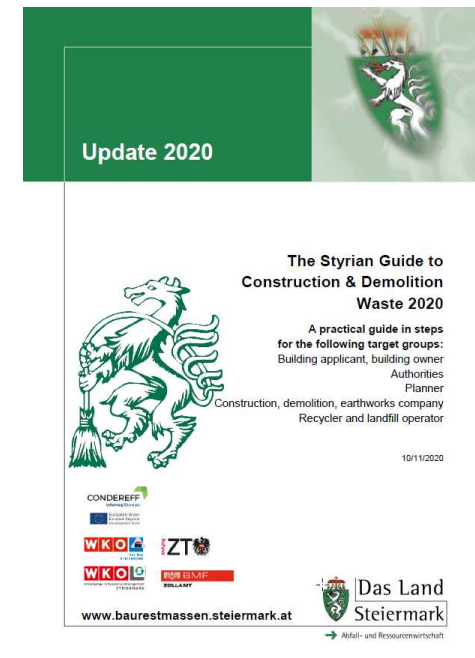
- Pre-demolition audits and high quality standards are crucial
- Improvement of input quality for recycling
- Most recycling-aggregates declared as highest quality (class U-A), end of waste
- High recycling rate for mineral CDW
- Lowest recycling rates in areas with low landfilling costs
- Detection of some hazardous substances during pre-demolition audits might be difficult (e.g. leaded paints)
- Still recycling loops to be established (e.g. gypsum, mineral fibers)
- More attention needs to be paid to re-use



# How to Communicate Regulations?

- Styrian Guide to CDW – a practical guide in steps for the target groups:

	Target group: <b>Building owner</b>
	Target group: <b>Authority</b>
	Target group: <b>Planner</b>
	Target group: <b>Contractors</b>
	Target group: <b>Waste management companies</b>
	<b>INFO-POOL</b>



New: English version



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Thank you for your attention!

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