

ENABLING CHANGE AND CIRCULAR ECONOMY

International conference about demolition, decontamination and recycling

FRIDAY 24 MAY

Delegation of the EU to Japan

Organized by:



In partnership with:



EU-Japan Centre
for Industrial Cooperation
日欧産業協力センター



Construction and Demolition Waste Management in Europe

Mr. Johan D'Hooghe, Vice president EDA International Committee

Presentation of the speaker

ir. Johan D'Hooghe, Bio-engineer 1994 KULeuven Belgium

More than 20 years experience in CDW-management & Demolition

Founder en owner of Recycling Assistance BVBA member of Demolition & Recycling Consultants®

Co-founder of Tracimat vzw

Board member of EDA and Decontamination Institute



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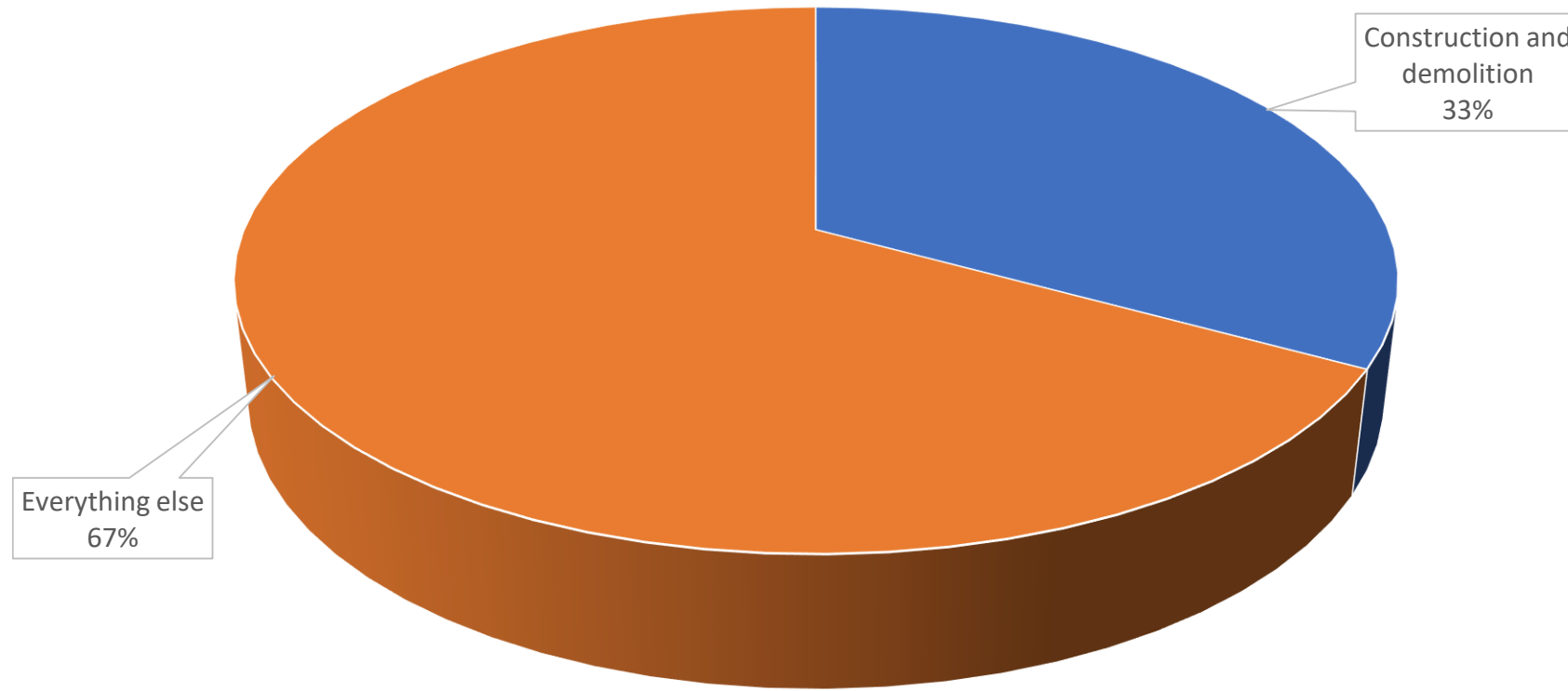
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Production of Waste in the EU



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WEB Circular economy - European Commission
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
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
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
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
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



Healthy Workplaces

MANAGE DANGEROUS SUBSTANCES

Campaign Guide

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Demolition + decontamination + recycling = DDR

- **Make it safe and secure – All the time in a socially acceptable way**
- Environmental protection and decontamination
- Dismantling and decommissioning
- Demolition itself (multiple methods, machines, tools, processes,...)
- Valorization & on-site recycling
- Preparation for off-site recycling
- Remediation of contaminated soil

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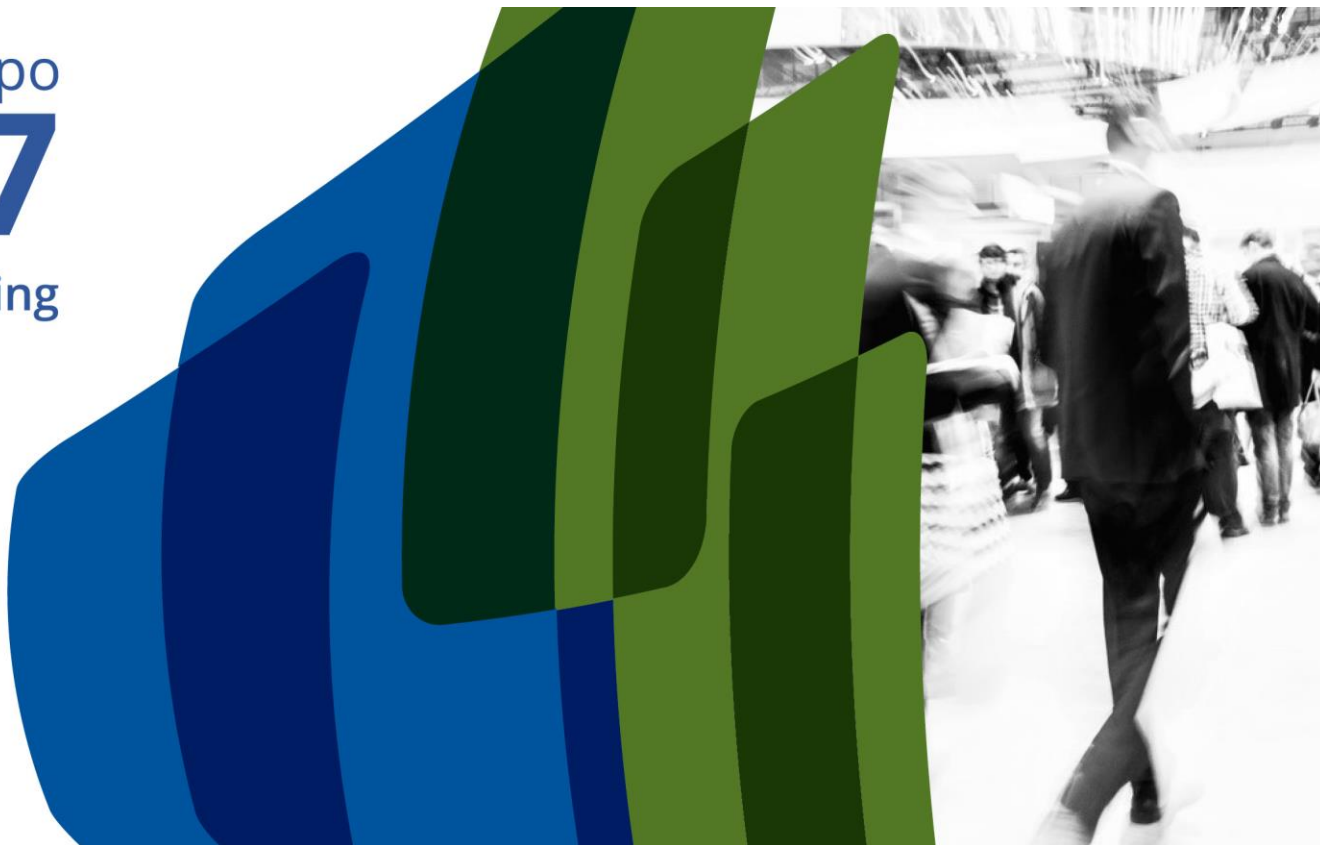
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DDR Forum & Expo 2017

Demolition, Decontamination and Recycling

June 14th-16th Brussels



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A new scenario for the industry

Demolition/Dismantling/Decommissioning

- From simple to very complex processes

Hazardous and unknown waste

- More every day
- Need to have a global approach to hazardous w.

Always three parts for the work

- Safety
- Technical
- Environmental

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Demolition

Overview



- Fighting with the name
- Stable companies
- Second or third generation
- Multiple management levels = healthier companies
- Clear business models

Challenges



- Changing and more complex regulations and business models
- Shorter life of equipment
- Big investments made/high economic risk
- Entrance barriers to drop significantly
- Need to be updated on everything related
- New players coming in (PM/engineering/consultants)

Opportunities



- Niche markets (industrial, urban, scrap,...)
- Main contractors for related services
- Decontamination (work hours)
- Recycling everything
- Specialization

Decontamination

Overview



- Asbestos (regulations, good and bad practices, experiences,...) is the reference
- First generation companies/departments
- Big differences between companies: departments of demolition or newly created
- Strong price competition (mainly asbestos)
- Technical value of the operation must be proved by someone else

Challenges



- Regulatory framework not clear and very complex
- Almost no entrance barriers, any operator can start a company overnight
- For many types of hazardous substances, lack of knowledge and information
- Regulations not always enforced
- Increasing importance of consultants in large projects
- Liabilities and high level of responsibility

Opportunities



- Audits, samples, reports,... engineering and knowledge work
- Also done in rehabilitation and other phases of the building
- Large number of substances becoming hazardous in the coming years
- Companies perceived as problem-solvers due to the lack of knowledge available/fear

Recycling

Overview



- Circular economy is trending topic
- Recycling is part of the eco generation/positive image perceived
- Difficult to find a successful business model that works always/everywhere
- Multiple management levels = healthier companies
- Solid business planning and analysis work

Challenges



- Multiple sources of income, but it has to make economic sense
- Big investments and long periods for operations to be profitable
- Need of real market and real enforcement
- Complex and irregular flows of materials
- New powerful players creating market misrepresentation

Opportunities



- Average: 2 ton x person x year
- Complex entrance barriers
- Material keeps coming
- Regulations will have to enforce it
- Increased value of certain materials in urban environments



Greetings



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