

Construction & Demolition Waste Management in Europe

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Presentation of the speaker

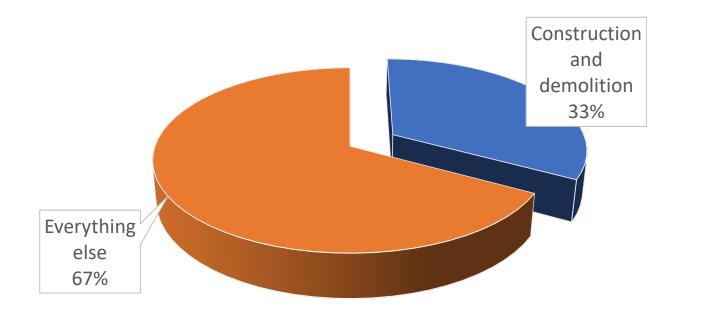
- Belgian bio-engineer, specialised in demolition and C&D waste management
- Founder and owner of RECYCLING ASSISTANCE BVBA (2003), a member of Demolition & Recycling Consultants and the European Demolition Association.
- Founder of CHAP-YT BVBA (2011), specialising in the recycling of cellular concrete
- Co-founder and board member of CASO, the Belgian Demolition Federation and Tracimat, an organization for the certification of CDW.
- Board member of the European Demolition Association and Vice President of the EDA International Committee.







Production of waste in the EU



All the numbers in the European Demolition Industry Report 2019!











Waste management evolution



. . . . GROWTH Internal Market, Industry, Entrepreneurship and SMEs European Commission > DG GROWTH > Search Search Q demolition Search options WEB Circular economy - European Commission ec.europa.eu/growth/industry/sustainability/.../index_en.htm Source 11 Feb 2016 - More on Construction and demolition Waste originating from construction and demolition DG GROWTH represents one of the highest volumes of waste in Europe. One ton of construction and Date All WEB Construction - European Commission ec.europa.eu/growth/sectors/construction/index_en.htm Language 11 Feb 2016 - the consolidating the internal market for construction products by developing a common English technical language for the performance of construction products following up on the File formats All 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 Filter by Docsroom (103) WEB Construction sector competitiveness - European Commission ec.europa.eu/growth/sectors/construction/.../index en.htm Entrepreneurship and SMEs (1) 11 Feb 2016 - job creation through up-skilling and apprenticeships to meet demands for new General information (4) competencies Resource efficiency : focusing on low emission construction, recycling and valorisation Industry (3) Sectors (2) 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

1989 Greenpeace[®] activist

2019 circular economy on top of the EU-agenda









Decontamination + Demolition + Recycling

Make it safe and secure – All the time

- 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





Decontamination + Demolition + Recycling











- Protocol as a guidance document, no legislation
- Guide for EU-member states "new" to waste management
- Based on best practices in the Netherlands, Flanders, Denmark, UK, ...
 - Pre-demolition surveys
 - Decontamination
 - Deconstruction/Dismantling
 - Demolition
 - Recycling on & off site



https://ec.europa.eu/growth/content/eu-construction-and-demolition-waste-protocol-0_en



















Selective demolition & recyling only possible when the market is supporting this

- Taxes on landfill
- Promote the (re)use of recycled content
 - BREEAM
 - Green procurement
 - LCA







Research for solutions for more difficult fractions of CDW

- HISER, Gypsum to Gypsum, Cradle 2 Cradle, ...
- Recently granted project Wool 2 Loop





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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 waste

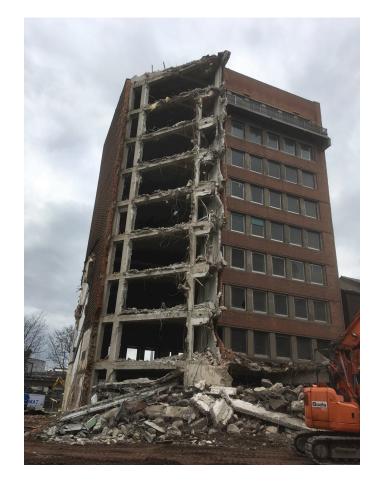
Increasing awareness & regulation about

HSSES: health, safety, environment, security, and social economics



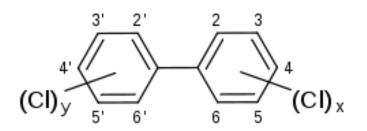


A new scenario for the industry





















And ...













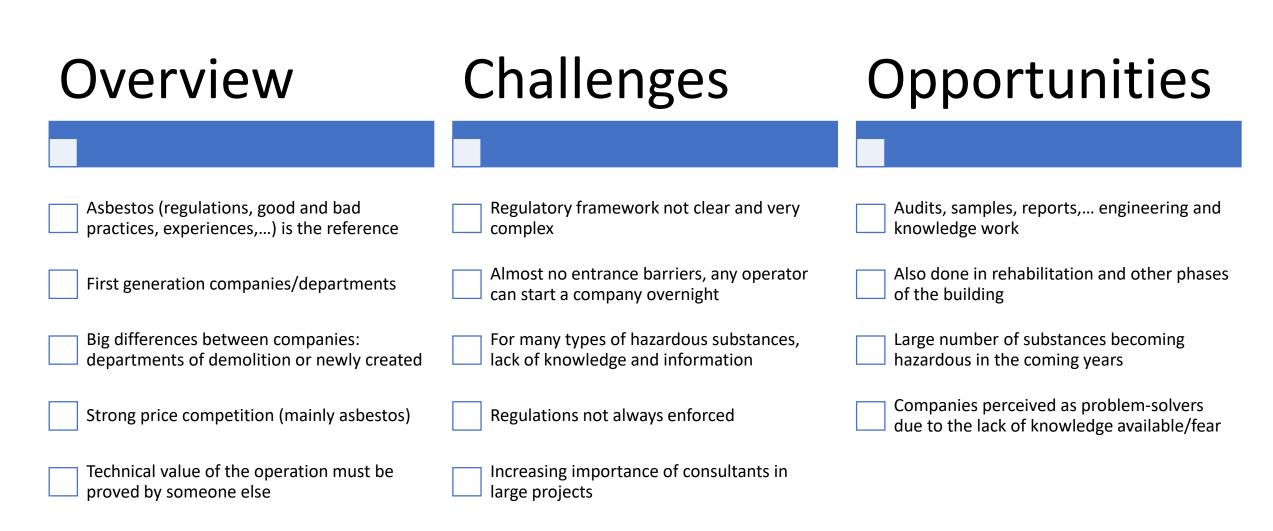




Demolition



Decontamination



Liabilities and high level of responsibility

Recycling



Greetings



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