



FROM FRINGE 'FEEL-GOOD' TO THE DRIVING SEAT

TODAY

Misaligned drivers in value chains reducing quality

Planned obsolescence: low-skilled labour, high material footprint

Volatile raw material supply chains

Surge in climate-related extreme weather events

Pandemic: resilience through transparency & collaboration



NET ZERO BY 2050

2035

UK: 78% Carbon reduction target

2023/25 SDR / UK taxonomy

Mandatory measurement of whole life carbon

SFDR takes effect



2020



- Defines 'sustainability'

- Strong move against 'greenwashing' - Frame of reference for fund classification









2021

PARIS2015 COP21-CMP11

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I'M INVISIBLE, MY MARRIAGE IS "SUSTAINABLE": IS THIS THE AIM?

Regenerative Design, Verb:

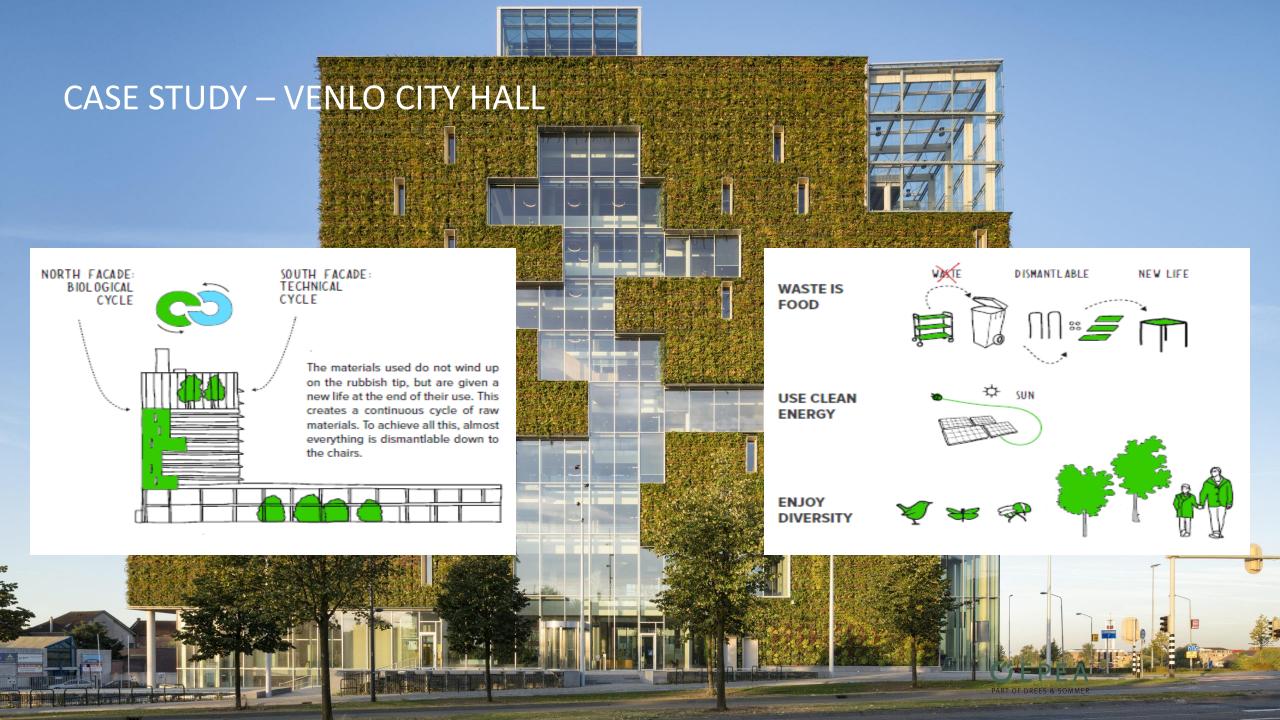
'Enabling social and ecological systems to maintain a healthy state and evolve.'





How can ESG drive growth, reduce risk and improve quality of our Buildings?

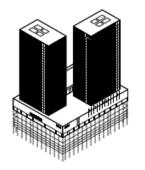




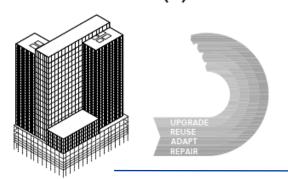




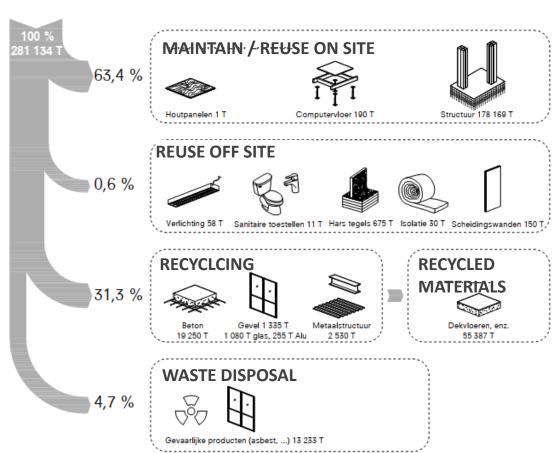
2018: WTC I & II

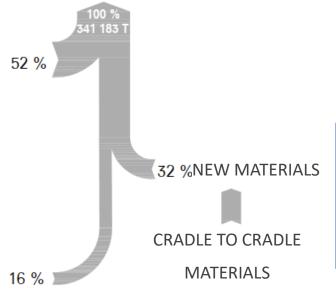


2023: ZIN in No(o)rd



WTC Project foresaw 15 % cost savings on demolition by reusing 1600 tons of material and upcycling 70.000 tons.





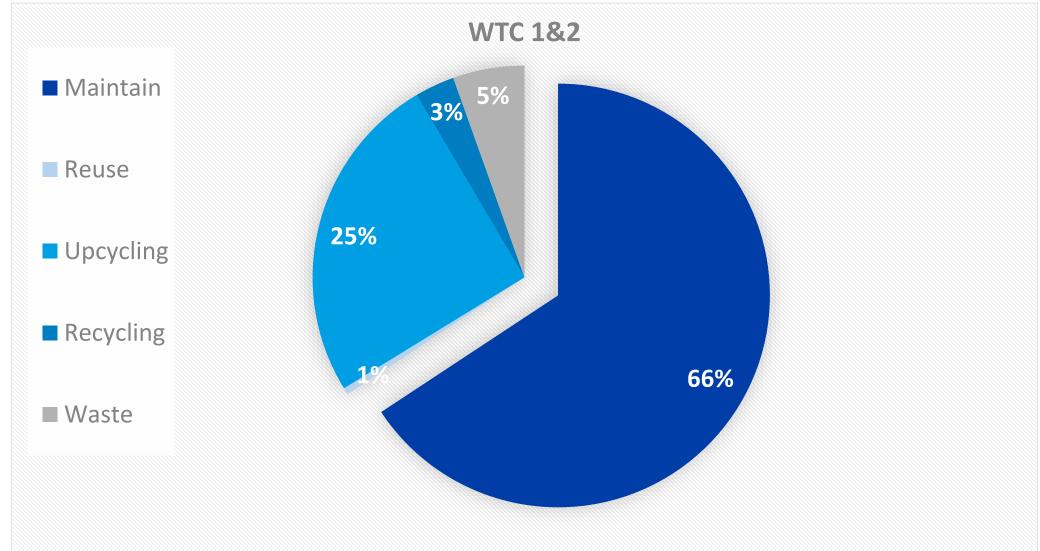
Re-use of reconstructed stone floor tiles (SILIPOL) with a value of 150 €/m²

(confirmed by the supplier and demolition company)





ZIN - URBAN MINING STRATEGY



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INDUSTRIAL TAKE BACK LOOPS: FLOAT GLASS

Big reductions in carbon footprint when comparing traditional and C2C processes

Glass is extracted as impure demolition waste



Glass is discarded into containers and shipped to a third party.



Skills and labour exported



Valuable glass is downcycled into bottles and eventually brown glass.



Recovery of entire façade elements through careful



Localization and upskilling of the labour force



Clear separation of the material enables dedicated processing



Material upcycling to new glass for windows and façades



KEY TAKEAWAYS

- Reuse of glass panels is difficult due to rapidly evolving product performance and bespoke project requirements.
- Contamination is the main reason for the downgrading of glass value. Careful demolition is key.

BENEFITS OF THE C2C APPROACH

- Carbon savings
- Economic impact localised
- Material diverted from landfill and reduced mining for virgin materials
- Financial valorisation of materials by diverting landfill and maximising resale of high-value materials
- Upskilling the local construction sector





URBAN MINING

1.246 tons of materials to be reused on site and other locations

Tiles, panels, etc.

Raised floor

Carpet

Ceiling tiles

REUSE IN THE SAME PROJECT

REUSE IN PROJECT IN PARIS

REUSE IN PROJECT NEARBY

USED FOR NEW PRODUCTS

DEALERS FOR USED MATERIALS



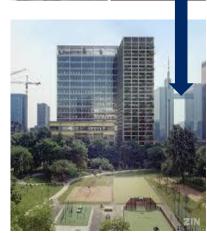








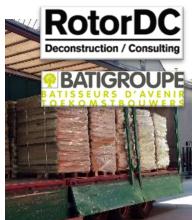
















What is the value proposition of a more holistic approach to the people around this table? How does this vary across Europe?

What are the unseen risks or today's status quo: on project proposals, commercial models? How could these become seen?

What are the right metrics to drive positive buildings?

Do buildings drive policy, or vice versa – where is the sweet spot for you?



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