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The economies of waste

Staggering waste statistics

"in Europe 90% of raw materials used in manufacturing become waste before the product leaves the factory, while 80% of products made get thrown away in the first six months of their existence."

According to the Cambridge Circular Economy Centre

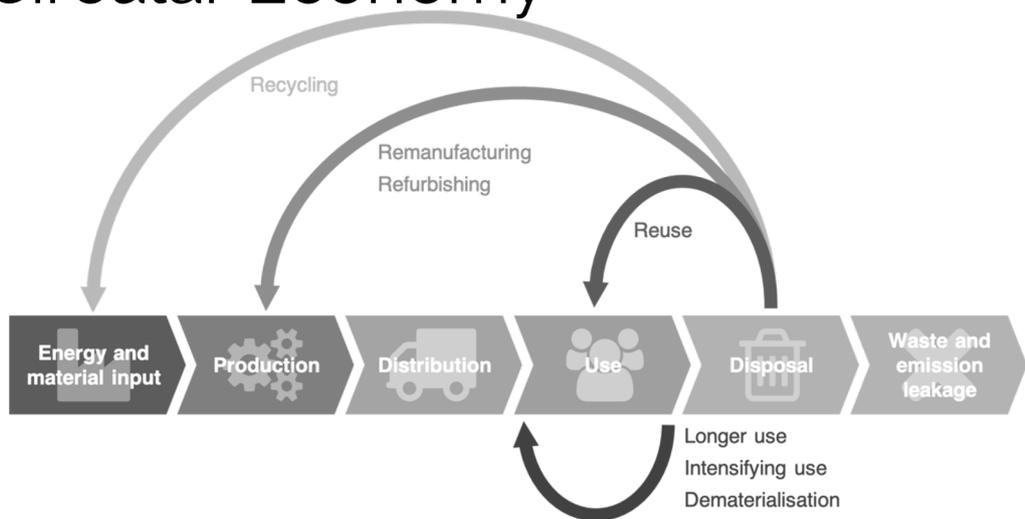
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The Linear Economy



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The Circular Economy

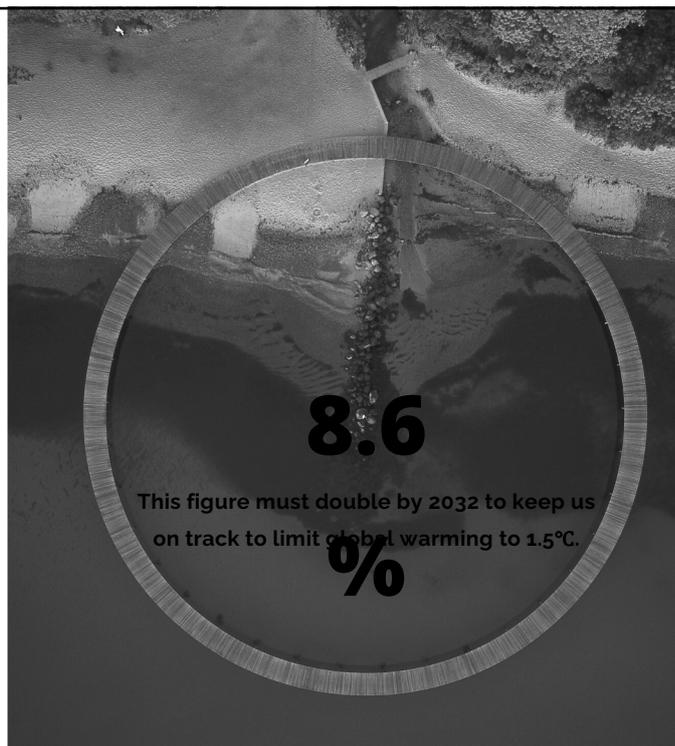


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"The circular economy seems to be stuck in the future"

Re-using & re-cycling is difficult

- **Supply:** legacy materials are not used for high value next use opportunities
- **Demand:** secondary materials are not used enough in new products/buildings
- **Data availability:** data on waste & secondary materials is hard to find

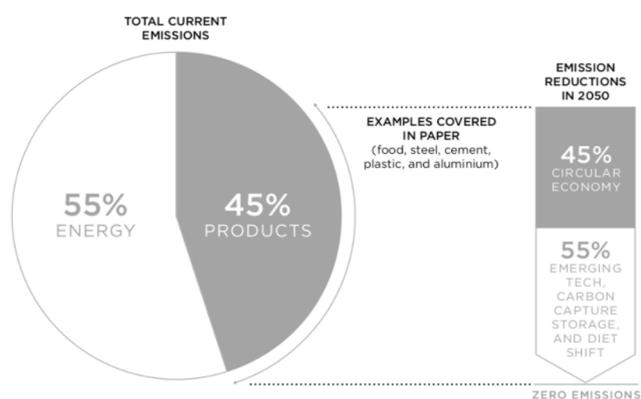


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Why should anyone care?

Impact potential: circular economy

Adopting the circular economy principles has the potential to get us 45% closer towards the Paris Climate agreement targets (source: Ellen MacArthur foundation)



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Imagine a world in which the use of secondary materials and waste is:

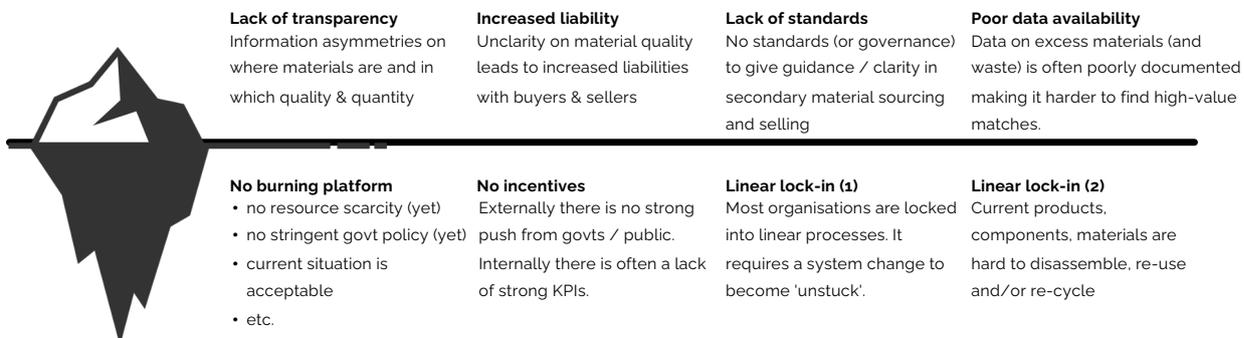
- **second nature**
- **cheaper** than virgin materials
- **reduces** your environmental impact

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There are obstacles

Adopting circular economy principles creates some obvious (often technical) above the waterline challenges, but also a number of implicit below the water line challenges.

These are often challenges of a less technical nature and run deep into organisations.



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Dating-site approach

The Excess Materials Exchange (EME) is digital B2B SaaS platform. Where we actively connect buyers & sellers of any excess material (including waste). Next to that, we also link in what we call 'value added providers'. These are companies that can make a difference in making matches happen. You can think of technology providers, logistical service providers, law firms, banks, but also government entities.

Value added providers



Buyers Sellers

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Our approach

How do we find the highest value match?

Our approach to making sure that your excess materials find the highest value match is three-pronged.

Identity

We give products, materials or waste streams an identity with our digital Resources Passport.

Intelligence

We enrich the data filled in the Resources Passports with data required to improve data-driven decision making

Integral approach

We link our data with data on environmental, social and financial impact

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Our features (1/6)

To support our approach, we have developed a number of features

Resources Passport

The resources passport gives excess products, components and materials an identity. The passports store information on:

- Characteristics
- Functionalities
- End-of-life opportunities
- Environmental & financial impact

Resources Passport

17/03/2020



EME0245

General information

Product name	Weight
Ceiling tile	1.35k g
Year of manufacture	Year of last use
16-03-2020	16-03-2020
Legal owner	SBI-code of owner company
Name of client	12345678
Available quantity (EOL)	Expected lifetime
500 tonnes	12345678



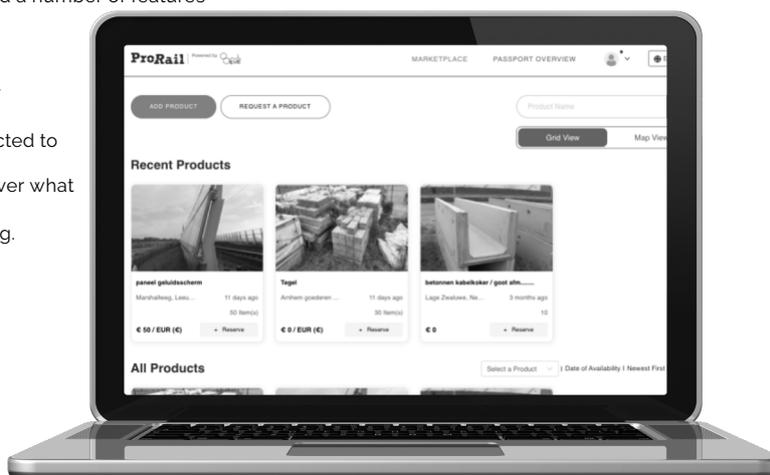
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Our features (2/6)

To support our approach, we have developed a number of features

Internal circular marketplace

Manage your excess material flows and their associated passports on our platform connected to our marketplace. This will give you control over what resources you have and where they are going.



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Our features (3/6)

To support our approach, we have developed a number of features

Track & trace

The track & trace functionality has the potential to scan an RFID tag, QR-code or Bar-code of an object or component and show/update the location on a map, as well as to show/update Resources Passport characteristics.

Resources Passports can be scanned and updated easily. They can also accompany the product/ /component and/or material to the next owner.



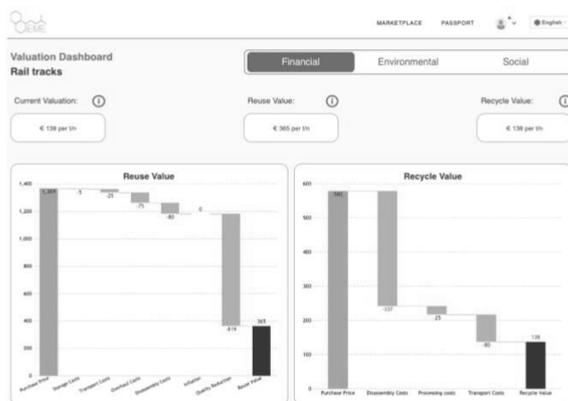
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Our features (4/6)

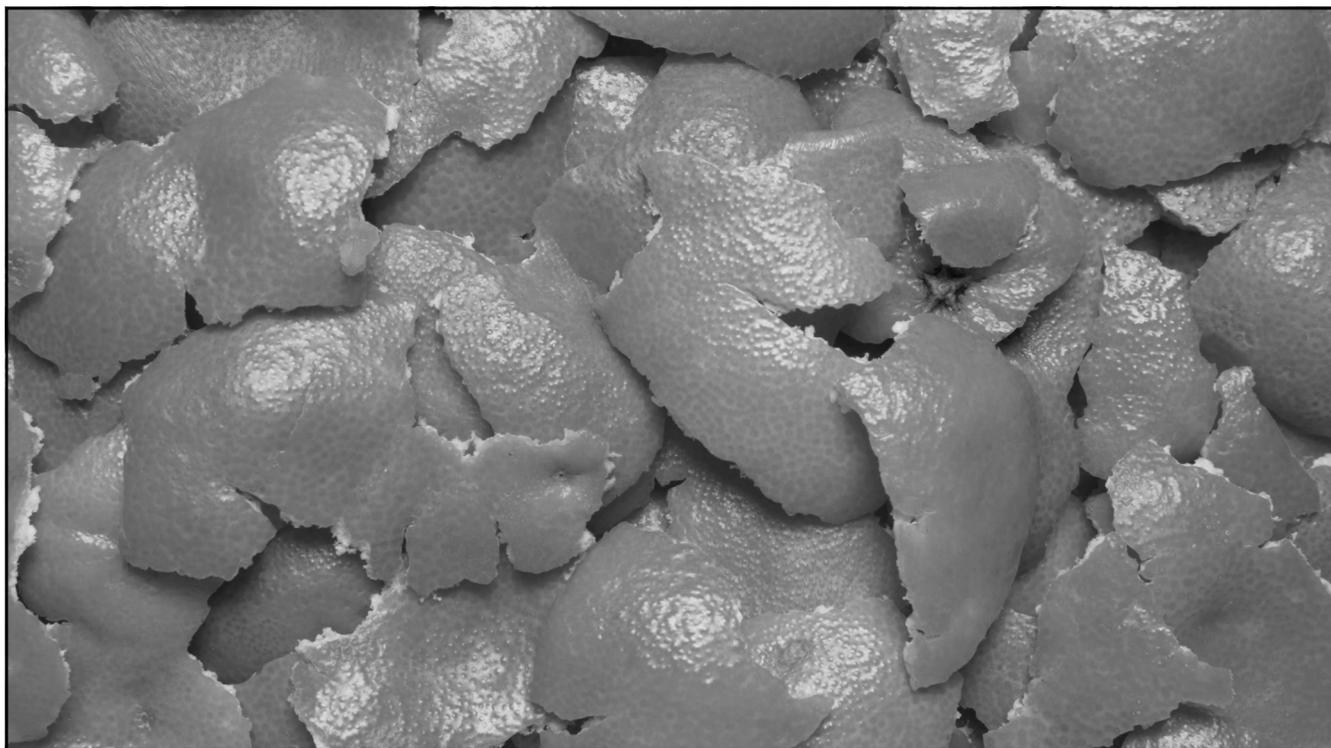
To support our approach, we have developed a number of features

Financial valuation

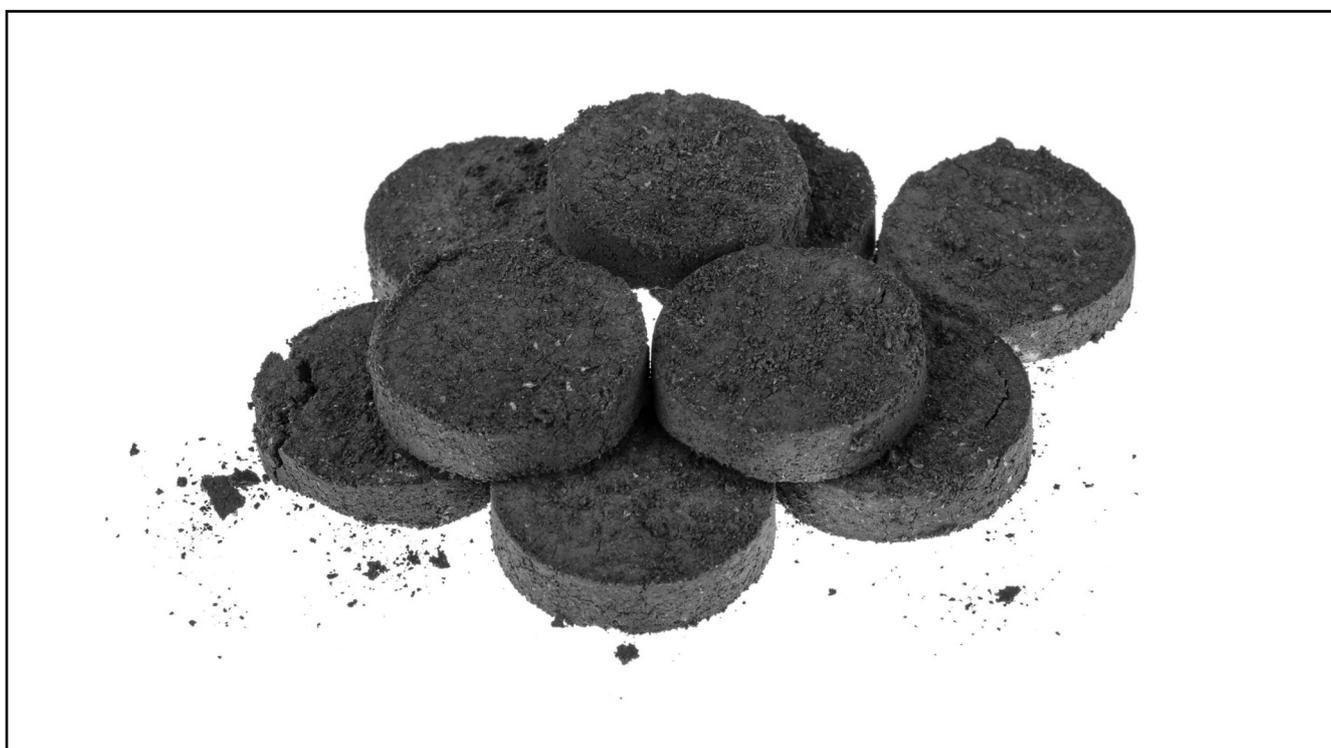
All Resources Passports can be accompanied by an estimate of the end-of-life value for both re-use and re-cycle options.



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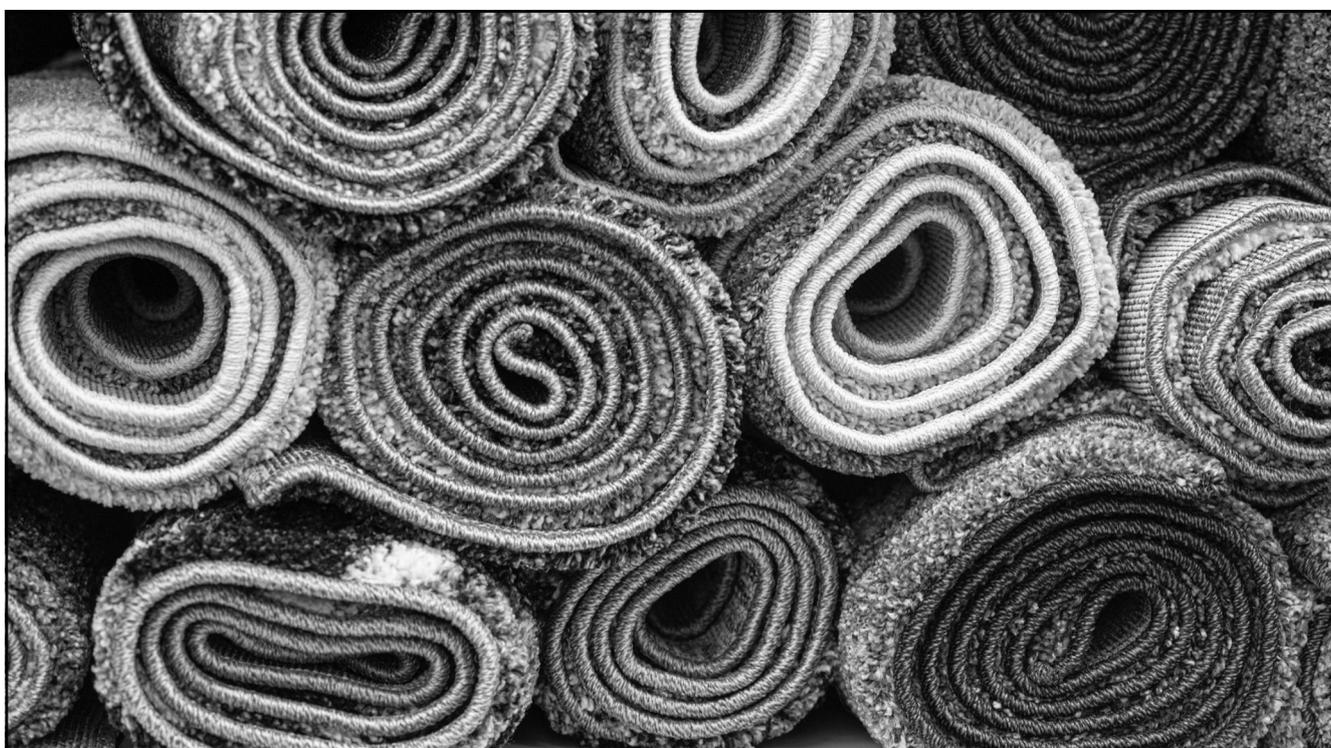
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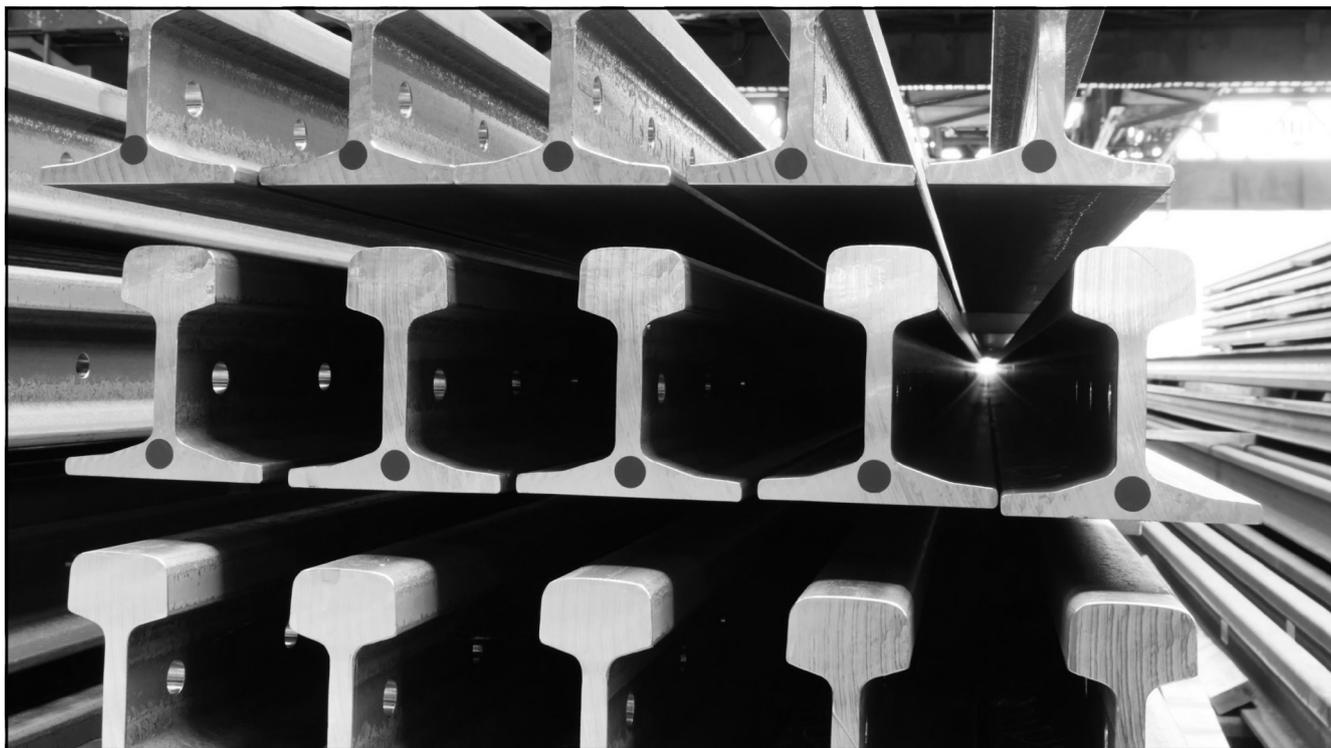
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“ I was intrigued to hear about the innovative approach being developed in the Netherlands by a company called the Excess Materials Exchange ”

HRH Prince Charles



“ By creating a transparent market value for excess materials EME revolutionizes the waste paradigm. They offer an indispensable tool that takes the Circular Economy to the next level. ”

Jan peter Balkenende - former prime minister of the Netherlands



WORLD ECONOMIC FORUM

urban tech



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THANK YOU

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