

25 JUNE 2021

Call to Action: Businesses Role in Tackling Climate Change

Maayke-Aimée Damen
Founder Excess Materials Exchange

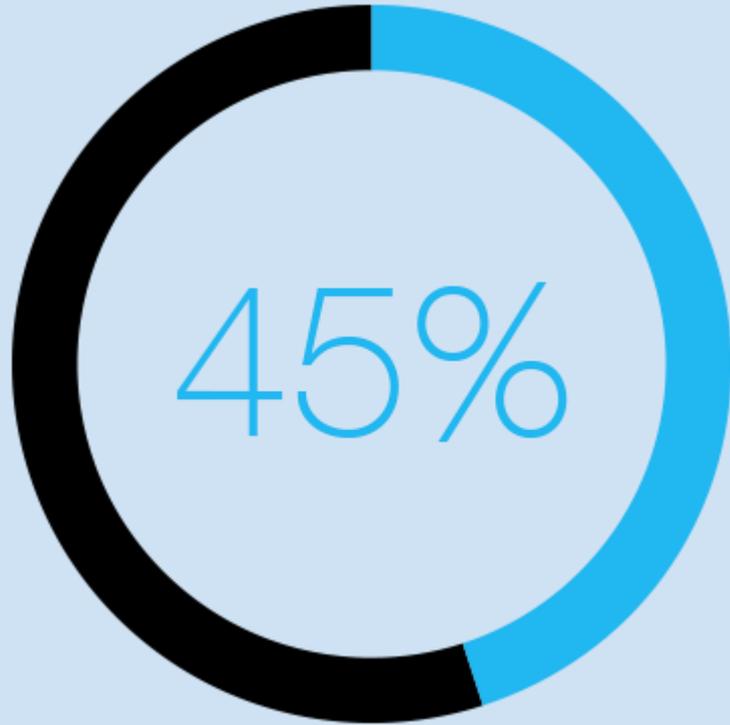




**What
percentage of
the products we buy
end up as waste
within 6 months?**



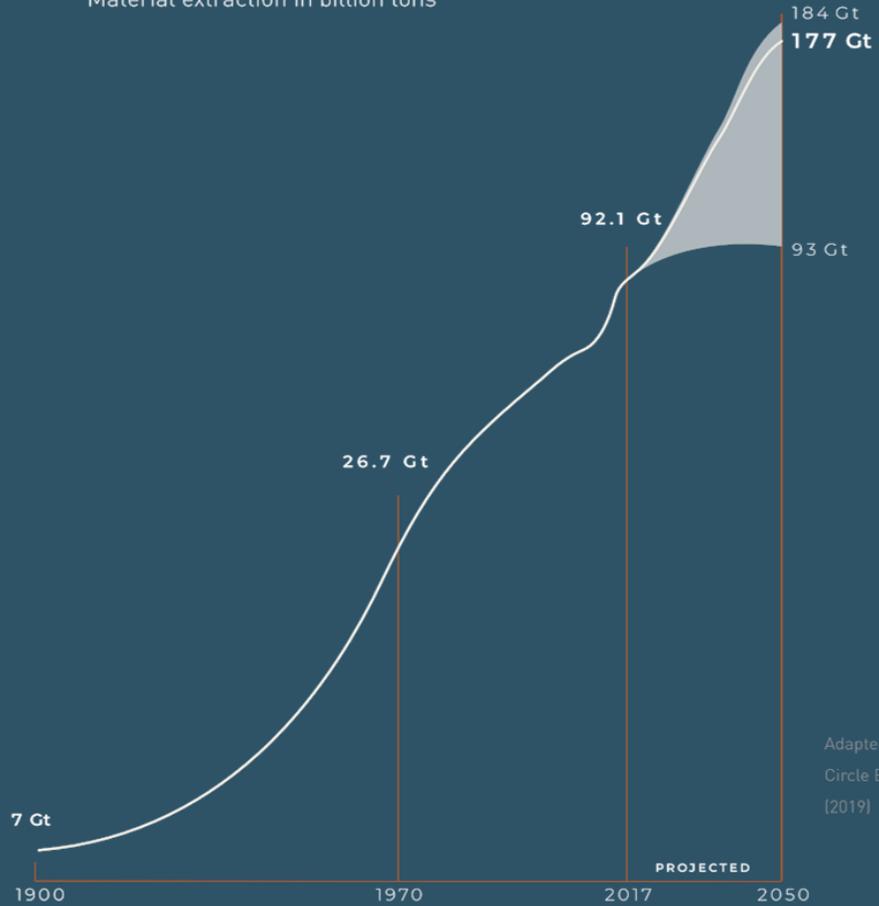
**What % of
material value is
lost after single use?**



45% of emissions
come from
producing the stuff
we use everyday.

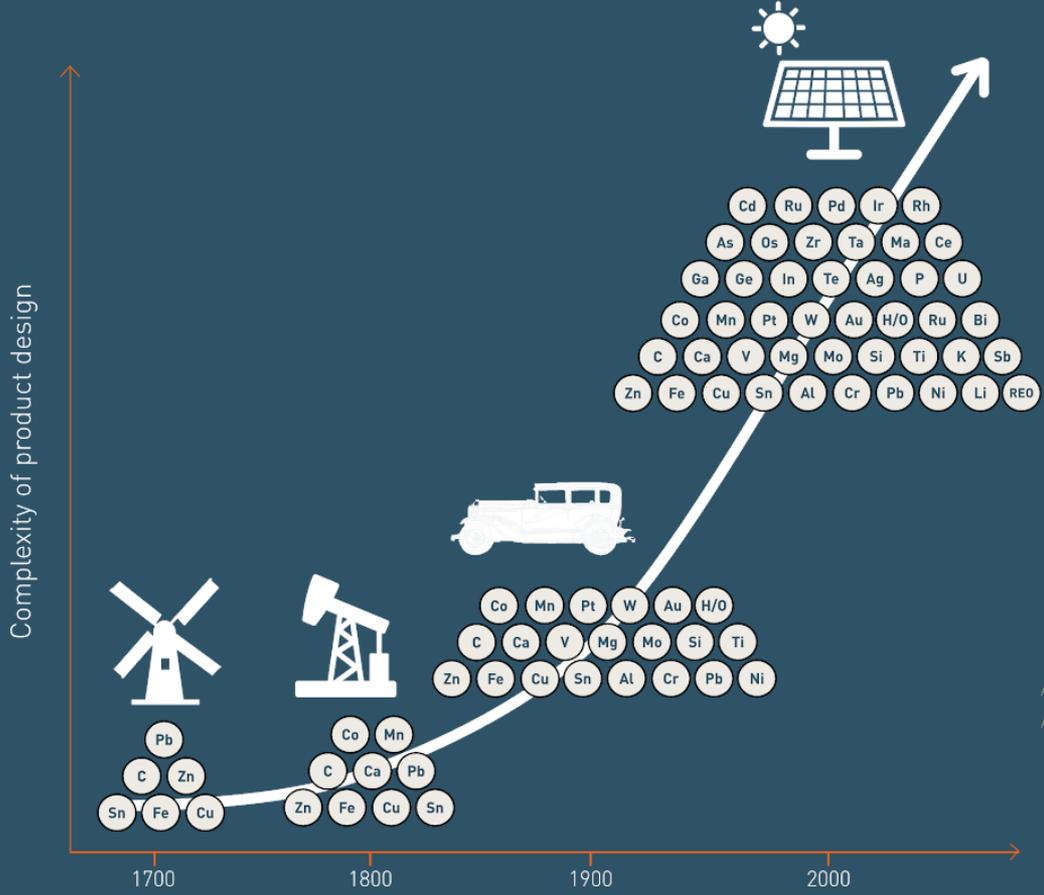
Global Resource Extraction (1900-2050)

Material extraction in billion tons



Adapted from:
Circle Economy
(2019)

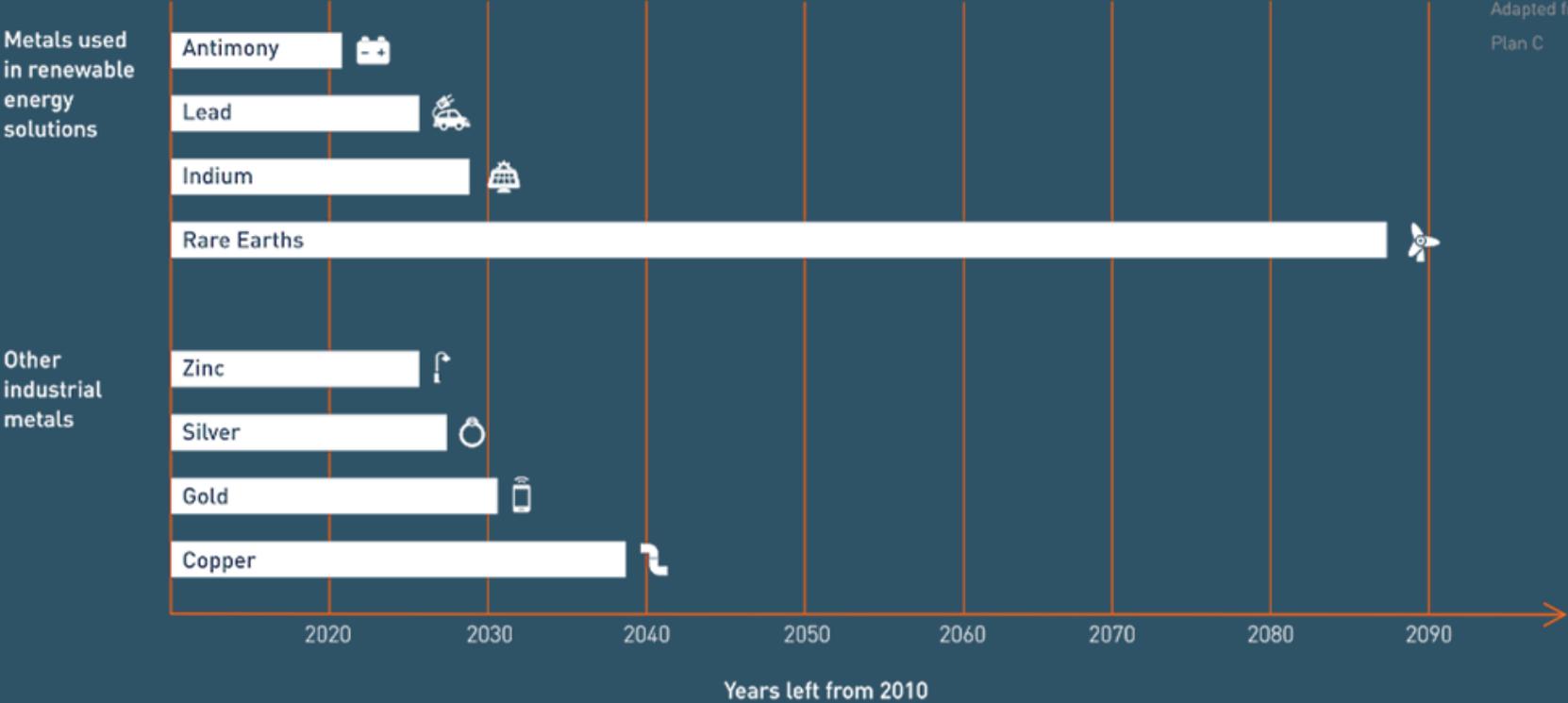
Evolution of Complexity



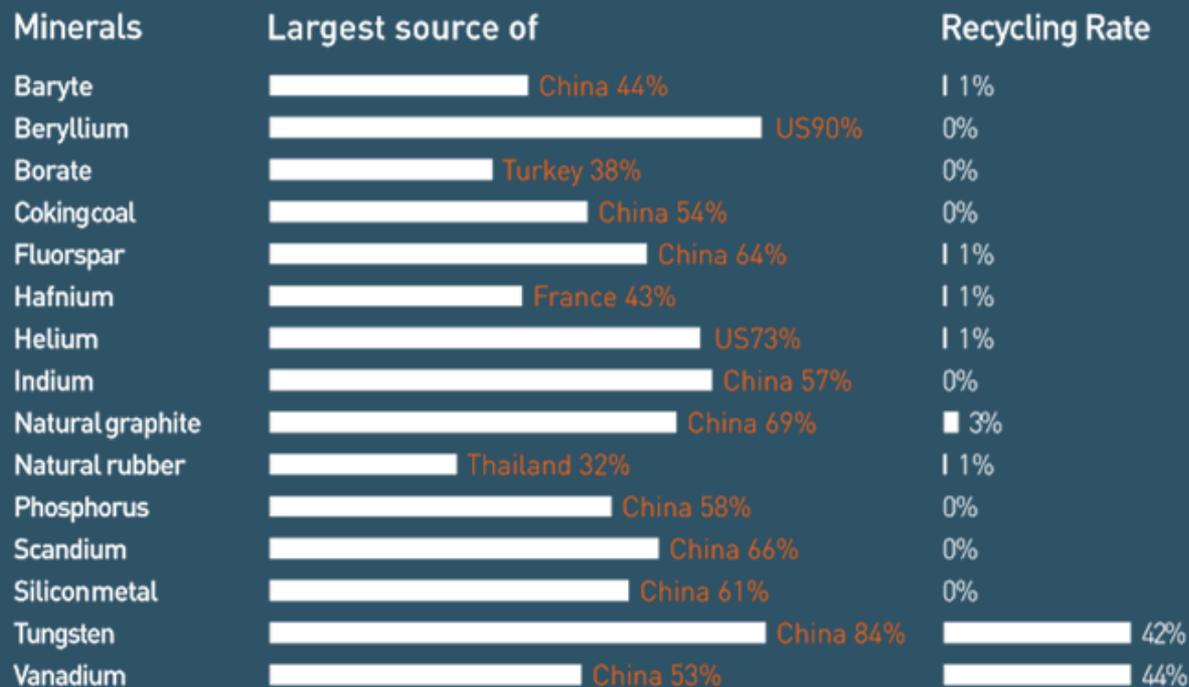
Adapted from:
Achzet (2009)

Metal production years left (2010-)

Adapted from:
Plan C



EU's Critical Raw Materials



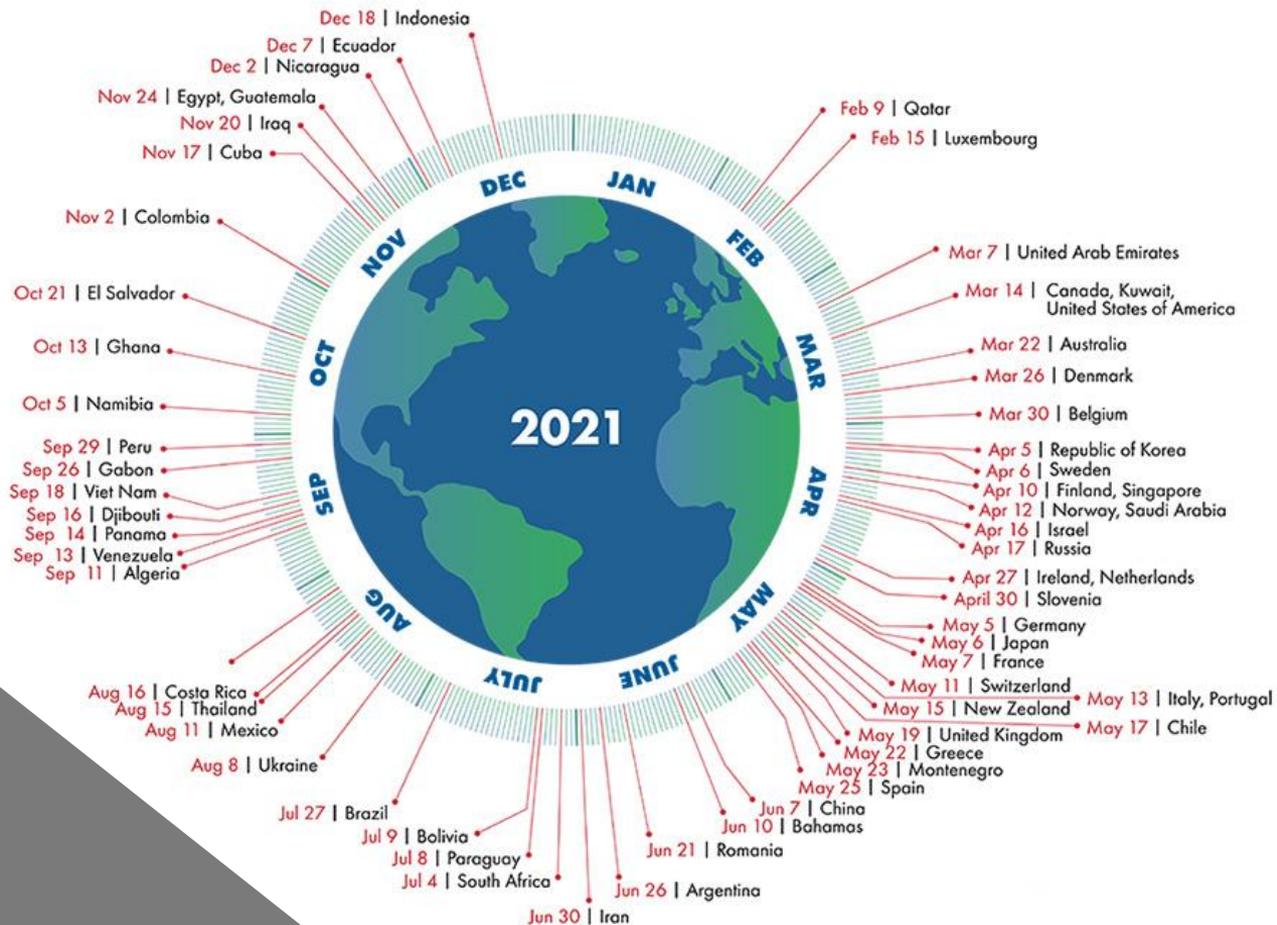
Adapted from:
P+ Magazine (2020),
Harald Sverdrup



**Worldwide waste
mountain expected to
grow with 70% in 2050**

Country Overshoot Days 2021

When would Earth Overshoot Day land if the world's population lived like...



Overshoot Day
Malaysia: May 30th



**People eat and breathe in
at least 50,000 particles
of microplastic a year**

The circular economy is a

\$4.5 trillion opportunity

We can start today!





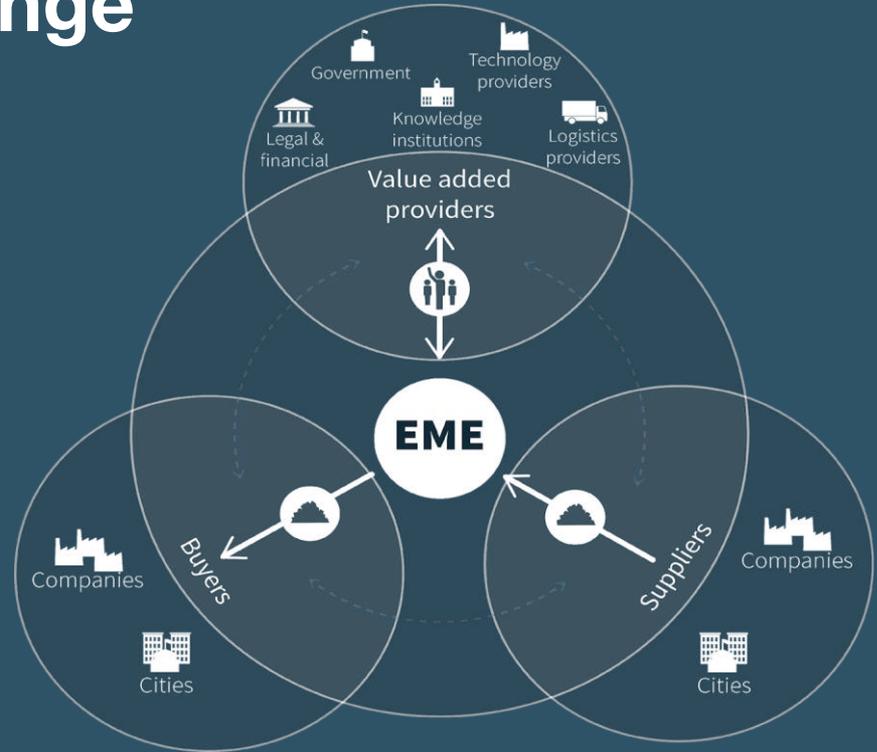
Quality | Time
Quantity | Location

Excess Materials Exchange

Where companies buy and sell any type of excess materials or products.

Functions like a **dating site** by matching:

- Supply and demand of materials
- Materials with their highest value reuse option



Our Approach



Identity



Intelligence



Integration



Identity

Powered by  Search Passport Name / Location/products Home Marketplace Resource Passport 

Roof Plates

Home / Roof Plates / Product Details



Description: A wall-plate which receives the lower ends of the rafters of a roof. A roofing material resting on the tie beams of a roof.

Since: 12 January 2020

Location: 3198 LK Europort Rotterdam

[Less Information](#) [Share via Mail](#) [+ Wishlist](#)

[EME Evaluation](#) [Download PDF](#)

General Info	
Market value/initial Purchasing price (per Unit)	€ 150000
End-of-life value (per Unit)	€ 30000
Waste processing costs (per Unit)	€ 10
Revenue for end-of-life (per Unit)	€ 200

Functionality

Characteristics

Composition

Contact Seller: [MESSAGE](#) [CALL](#)

Seller Name: Dakplaten-Kopen

Seller Address: Koddlaert nv
Industriezone 'Coudenhove'
Ambachtenstraat 1, 8680 Koekelare

Price: €30000

Logistics: Yes

Product Details MAP



Processes

Actors

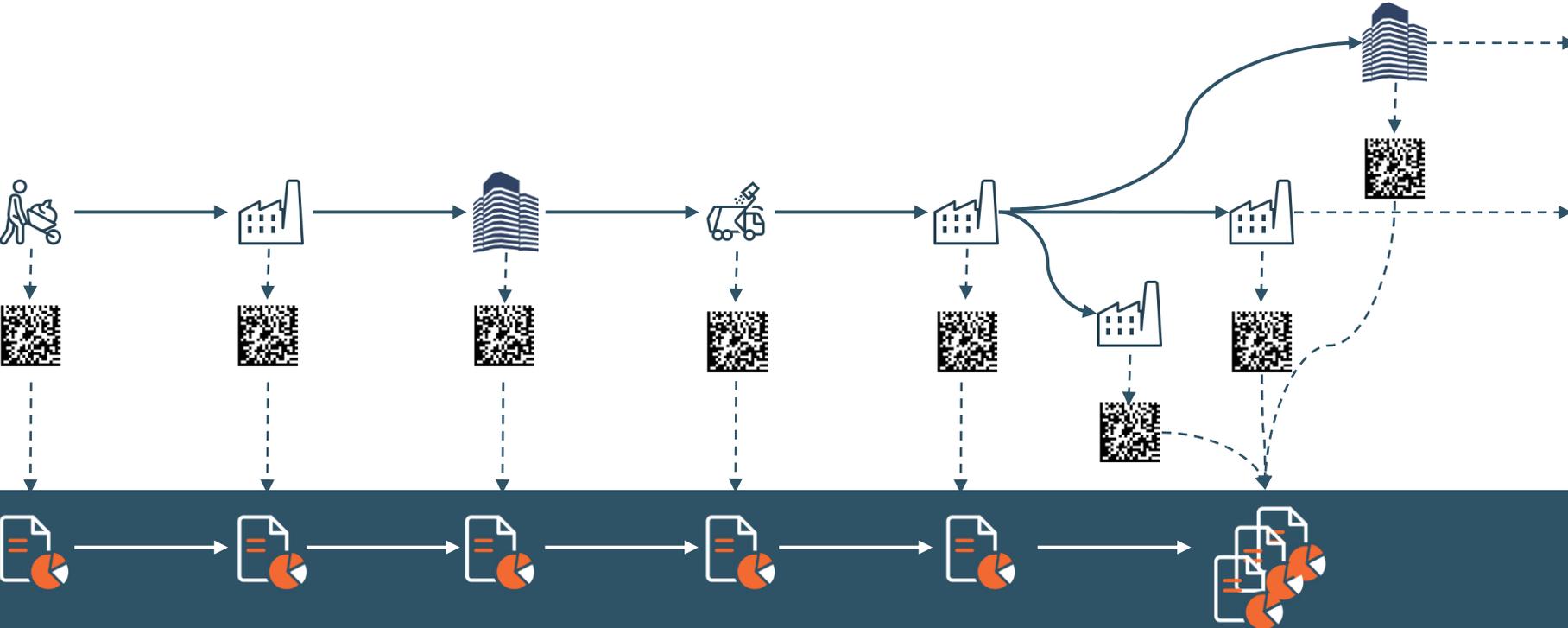
Traceability

Financial

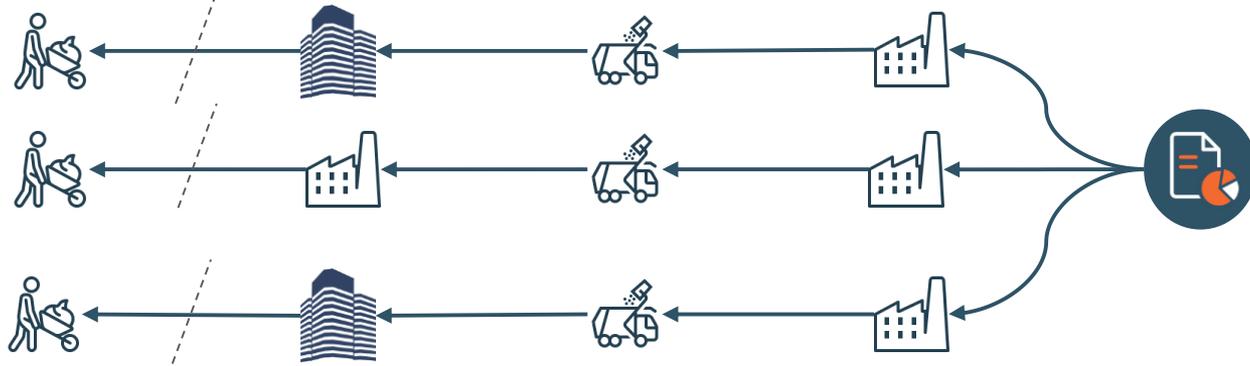
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Resources Passport

The story of stuff



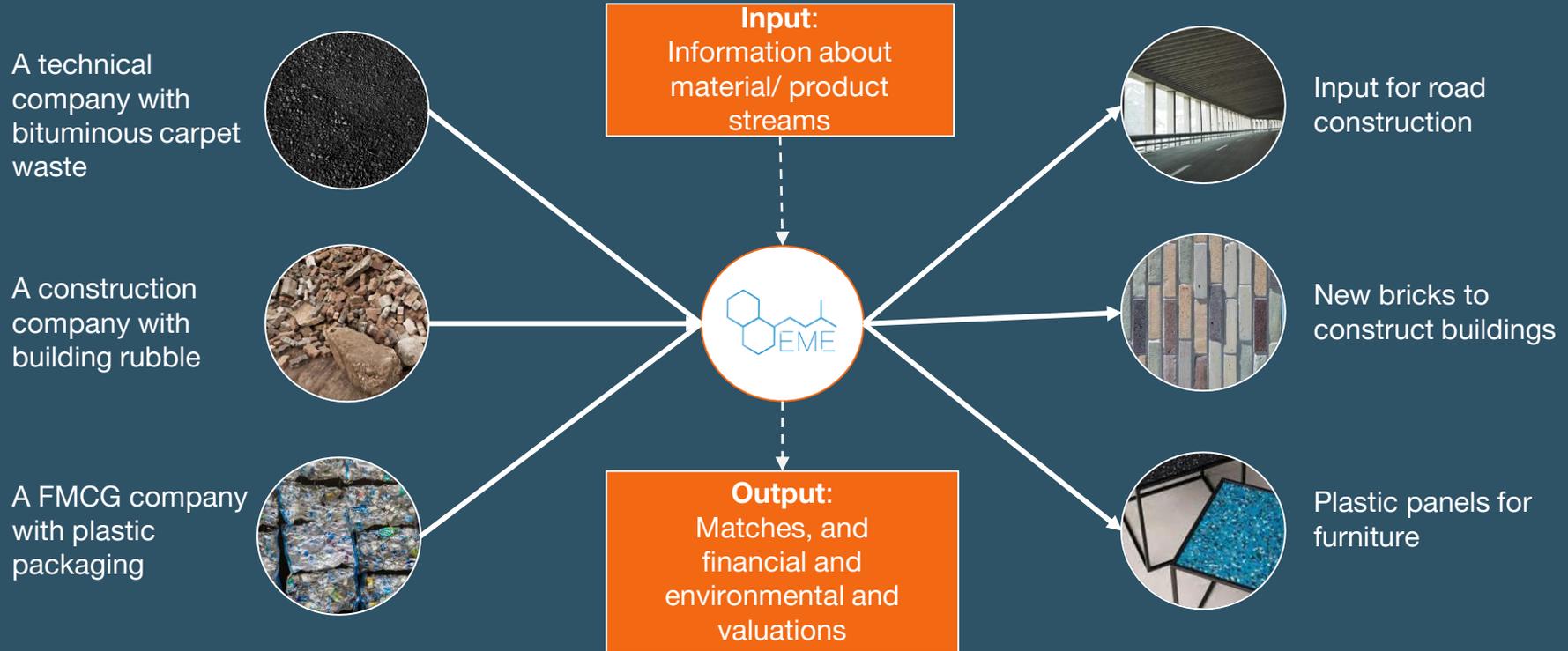
The story of stuff



Intelligence

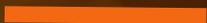


Integration: example flows on the marketplace





Orange peels





Orange peels: circular matches

1

Limonene



2

Fiber



3

Biogas





Orange peels: circular matches

1&2

Limonene & Fiber



**50% reduction
in cost**

**99% CO₂
reduction**



Railroad tracks



Railway tracks: circular matches

1

Railway Track



2

Support Beam



3

Quay wall





Railway tracks: circular match

2

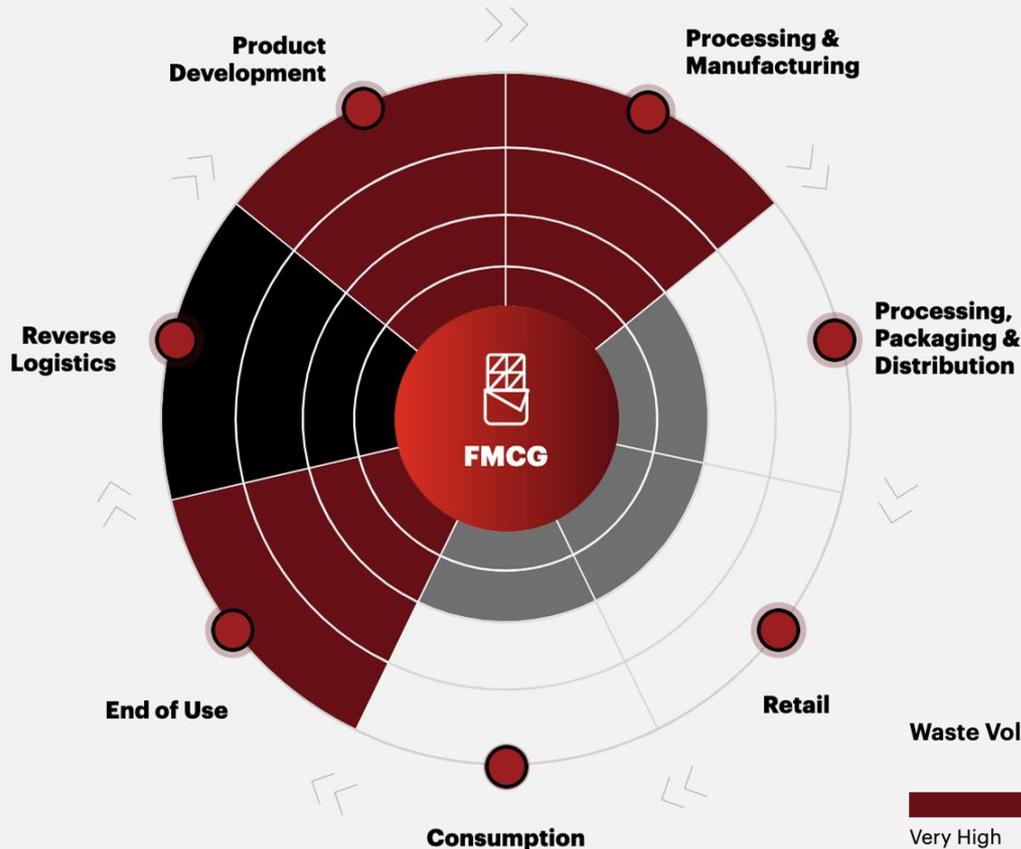
Support beam



**4x increase in
financial value**

**79% CO₂
reduction**

Waste analysis diagram



Value at Stake

\$30-110 Billion

(1–4% of EBITDA)

Top Circular Opportunities

Production efficiency

to reduce and reuse inputs and waste

Product design

to require less materials, reduce toxicity, or include circular raw material inputs

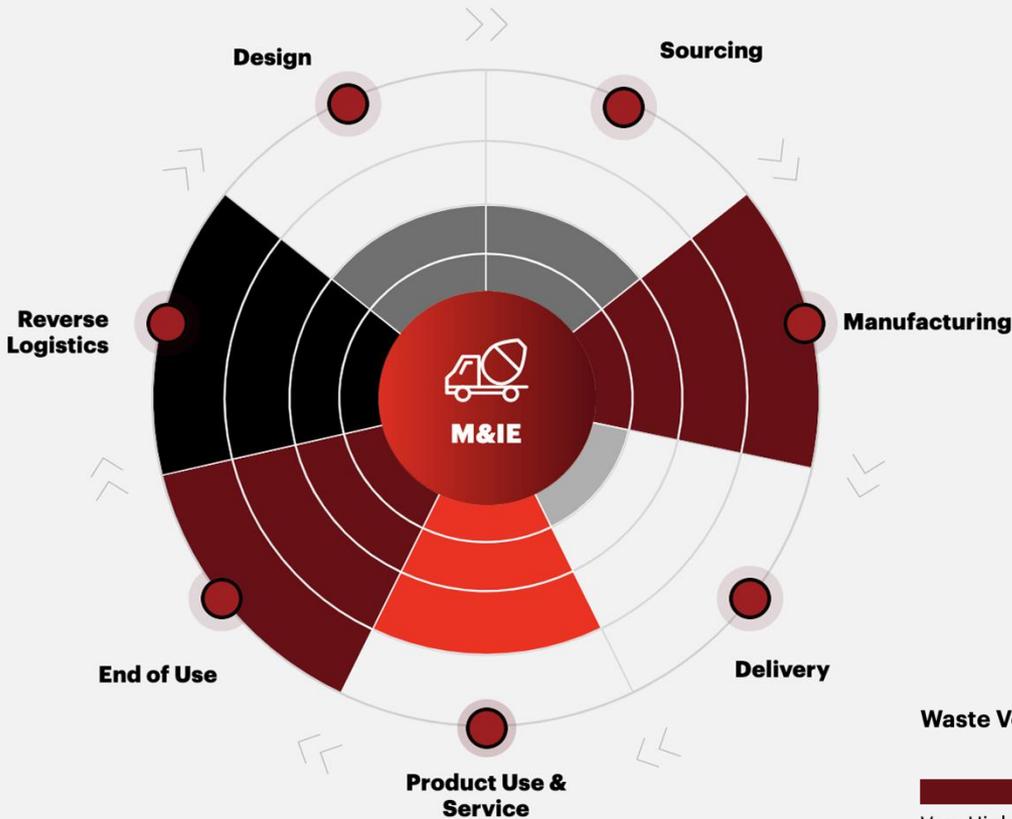
New business models

to increase recovery and recycling

Waste Volumes:



Waste analysis diagram



Value at Stake

\$70-220 Billion

(5–14% of EBITDA)

Top Circular Opportunities

Increase equipment utilization
and prolong lifecycles through service models

Enable multiple lifecycles
through resale and second-use markets

Recover and reuse
valuable parts at end-of-use

Waste Volumes:



Our pilot program

ProRail



ahrend



Rijkswaterstaat
Ministerie van Verkeer en Waterstaat

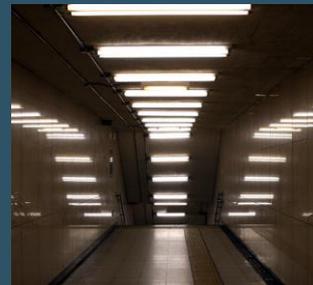
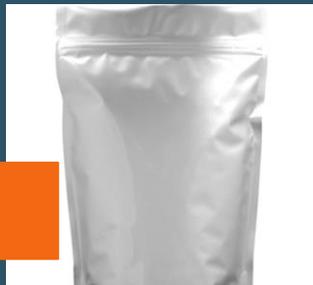
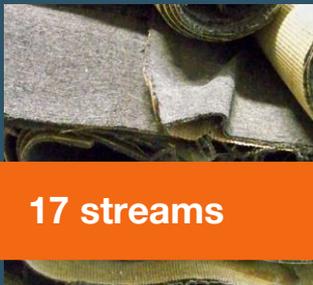
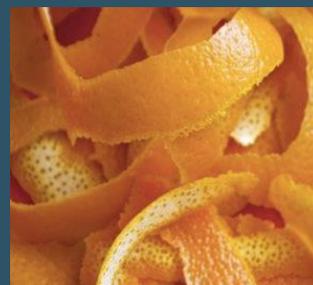
**aqua
minerals**



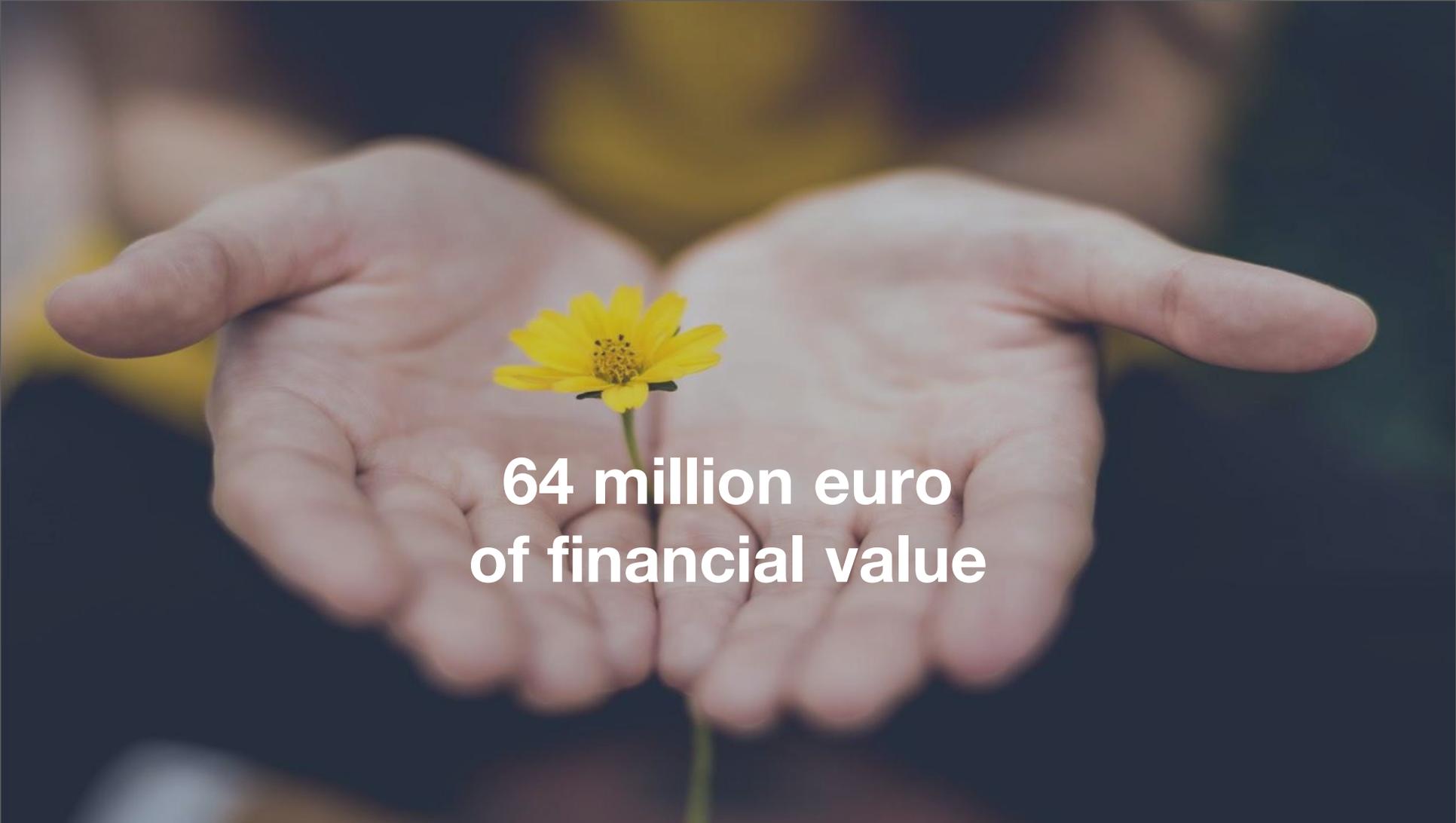
Tarkett

sodexo

 **Heembouw**



17 streams

A close-up photograph of two hands held palm-up, cradling a single small yellow flower with a dark center. The background is dark and out of focus, suggesting an indoor setting with other people present. The lighting is soft, highlighting the texture of the skin and the petals of the flower.

**64 million euro
of financial value**

An aerial night photograph of Paris, France, showing a dense network of streetlights. The lights are concentrated in the city center and spread out towards the edges, creating a complex, glowing pattern against the dark background of the city and surrounding areas. The text is overlaid in the center of the image.

**enough energy to light Paris'
street lights for 5 years**

A photograph taken from the perspective of a driver inside a car, looking out the front window. The car is moving along a two-lane asphalt road with yellow lines. The landscape is scenic, featuring rolling green hills, a small town in the distance, and large, rugged mountains under a blue sky with scattered white clouds. The car's side mirror and part of the window frame are visible in the foreground on the right side.

**860,000 car rides from
Amsterdam to Milan
in saved CO₂ emissions**

A photograph of a swimming pool with several lane lines visible, creating a perspective that leads towards the background. The water is a clear, vibrant blue. The text is centered in the middle of the image.

**amount of water
to fill 860 Olympic-sized
swimming pools**



PRIMA DONNA
swim

Join us in the circular economy revolution!



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