

DRIVERS FOR CIRCULARITY





Access to raw materials



5x more nonmetallic minerals extracted in 2017 vs 1970



Environmental Footprint



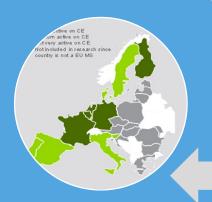
Extraction



Transportation



Waste handling & landfilling



Public Policies



Developing worlwide



Becoming more stringent



Decarbonisation



11% Embodied carbon



Market demand















DRIVERS FOR CIRCULARITY - RAW MATERIALS AVAILABILITY

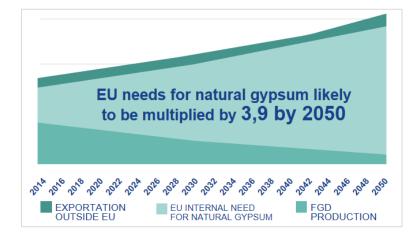


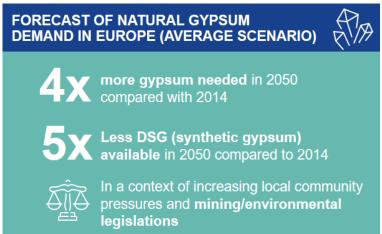




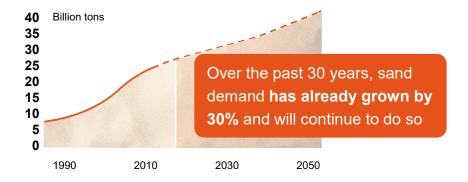
GYPSUM





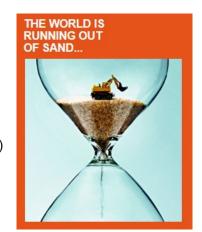






Worldwide cement production

China 2,500	
India 280	Cement prod (Mt)
USA 83	
Iran 75	
Turkey 75	





3 ROUTES TOWARDS CIRCULARITY



Products & systems offering



Circularity in innovation process, rethink formulations, design products for recycling, etc..



Develop light weight systems





 Adjust quantities: kitting, bulk format, product cut-offs recycling



ENERGY & CARBON









Supply chain & operations



 Reduce process waste landfilled – zero by 2025



Reduce resource intensity –
e.g. lighter products and
same performance



 Increase recycled / renewable content in products & packaging



Integrating more recycled materials in our flat glass activity



Our gypsum plants use up to 25% recycled CDW



Network & service ecosystem



Securing access to secondary raw materials



Maximising synergies between our businesses and activities



New business models : service based models; reuse

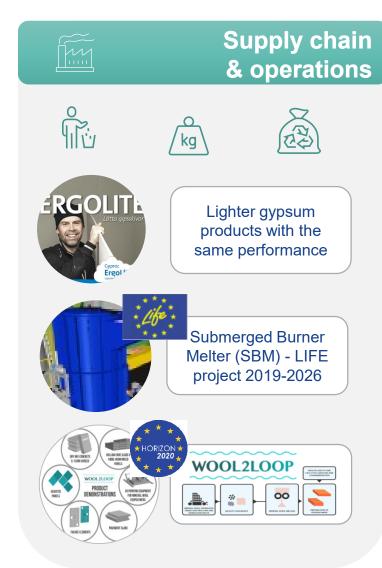


120 collection points in our distribution network



OUR 3 ROUTES TOWARDS CIRCULARITY – EXAMPLES

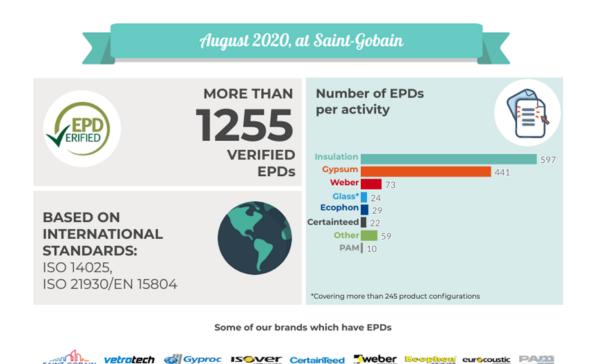








PRODUCT INFORMATION AT THE ROOT OF OUR SUSTAINABILITY STRATEGY



Countries where products are covered with EPDs



Program operators where our EPDs are published:



















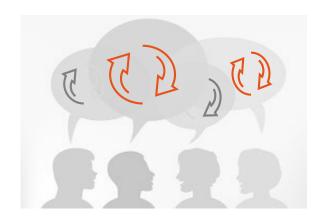
CHALLENGES TO SCALE UP CIRCULARITY

Why is is still so cheap to landfill CDW waste?

By when will selective demolition be put in practice?

How to access quality secundary raw materials?

How to facilitate the safe handling and transport of waste aimed at being recycled in new processes (interface waste/chemicals)?



How to better locate recyclable waste? What about digital?

How to engage the whole value chain in the circularity transformation?

How to increase demand for reycled products?

By when will buildings be assessed for their life cycle performance, incl. circularity?

How can buildings and product policies complement each other?



POLICIES FOR CIRCULAR ECONOMY



Ban access to landfill for recyclable waste



Set recycling targets for specific waste streams



Make deconstruction mandatory (vs. demolition)



Create demand for reused products & products with recycled content - Public procurement, green labels



Promote whole life cycle approach and the use of LCA / EPDs – EN15804+A2



Foster end of waste status



Construction Product Regulation has a role to play to promote circularity (e.g. recycled content, recyclability)





















TO CONCLUDE

- ✓ Circularity is a strategic direction aimed at responding to the pressure on resources and improving waste management
- ✓ Circularity is a key driver to decarbonize buildings; and it will contribute directly to our 2050 climate objective
- ✓ Our three fold approach covers products and solutions (via eco-innovation); efficiencies in our supply chain; and developing recycling services
- ✓ Policy at EU level can unlock several obstacles and help the whole value chain embrace circularity, e.g. via setting targets for recycling & recycled content
- ✓ Building & product policies should support each other. Life cycle approach and product information via EPDs are at the core of a lasting circularity approach





