

CONSTRUCTION SECTOR IS AT STAKE





40%

of raw materials used to manufacture building products and components

40%

of solid waste streams in developed countries from construction & demolition







	Standards (common language)	Labels (PULL)	Regulations (PUSH)	
Product level	ISO 21 930 EN 15 804	EUCERIFIED WWW.ecolabel.eu ECOLADEL ECOLADE	Some countries already require EPDs in their public call for tender:	
Building level	EN 15643	<image/> <image/>	 EU framework of core indicators <u>By 2020:</u> NL: global warming potential & resource depletion France : energy and carbon 	







Objective: "to close the loop" of product lifecycles through greater recycling and re-use, and bring benefits for both the environment and the economy.

Priority sectors include construction, with a few identified projects:

- indicators to assess environmental performance throughout the lifecycle of a building,
- guidelines for use on demolition sites to collect separately,
- promotion of sorting systems for construction and demolition waste,
- voluntary recycling protocols.
- price signal



"LIFE-CYCLE THINKING" IS THE BEST ROUTE



The market choice

Increasing demand from customers and building certifications

Building labels requirements	•	breeam	DGNB	HORE
LCA & EPD of building material	~	~	>	~



- EU core indicators framework: "Encouraging professional development and life cycle thinking"
 - S macro-objectives in link with "Life cycle environmental performance"
 - **MO1.** Greenhouse gas emissions from building life cycle energy use
 - MO2. Resource efficient material life cycles
 - MO3. Efficient use of water resources



SAINT-GOBAIN SUSTAINABLE RESOURCE MANAGEMENT POLICY

Toward a more circular economy



- **50% non-recovered internal waste reduction** between 2010 and 2025
- Increased recycled content in our products
- Implement new services to foster construction & demolition waste recycling
- Systematically implement eco-innovation approach based on LCA



RECYCLED CONTENT & CONSTRUCTION / DEMOLITION WASTE MANAGEMENT Examples





ECO-INNOVATION

Life-Cycle Thinking: from raw material extraction to end-of-life





OUR APPROACH TO BRING DIFFERENTIATING VALUE TO OUR CUSTOMERS BY DEVELOPING HIGH PERFORMING PROFITABLE PRODUCTS AND SOLUTIONS THAT ARE HAVING A BETTER IMPACT ON PEOPLE AND PLANET



SOME EXAMPLE OF ECO INNOVATION FROM OUR PORTFOLIO OF SOLUTIONS

Weber.col.flex ECO









9 / Integrating sustainability in innovation

SAINT-GOBAIN APPROACH FOR LCA & EPD

The LCA in our DNA. Saint-Gobain carried out its first LCAs in the early 90's...

- LCAs are the best science-based tools to assess the environmental impacts of construction products and buildings
- Already hundreds of EDPs produced around the world...
- Srd party verified







FIRST EPD FOR BUILDING IN SPAIN AND SECOND IN THE WORLD The example of our Spanish Multicomfort house





Quantify scientifically, objectively and verified by independent third party the impact of a building on the environment

- Determine stages and processes (materials, Energy, transport) with greater impact.
- Determine points with the greatest potential for environmental improvement.
- Make available truthful information



NEW SAINT-GOBAIN TOWER IN LA DEFENSE – FROM THEORY TO REALITY



Deconstruction of the existing building



- Insulation in ventilated facades: 900m², 180m³
- 90% of waste collected
- Bags of 200 and 400L for collection at each floor level
- Bags into 20 m³ container
- Bags into bales (by the waste management company)
- Bales shifted to Orange for transformation in the Oxymelt





TOWARDS BETTER RESOURCE EFFICIENCY IN BUILDING SECTOR



Accelerated implementation of circular economy

More standardization / harmonization of assessment methods

Strengthening the price signal







