asking *more* from chemistry®



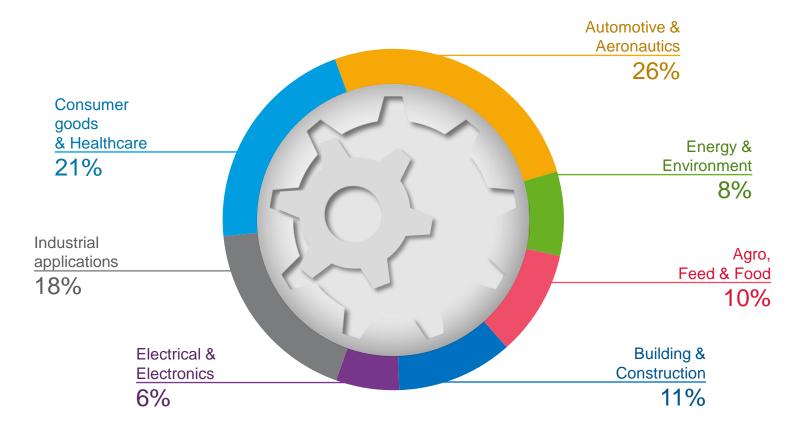


Solvay's view on materials efficiency

Jean-Pierre Clamadieu

Chief Executive Officer President of the Executive Committee 9 June 2016

Solvay offers chemical solutions and materials to a very broad range of industries



Pro forma 2015 figures incl. Cytec





Climate change is the key driver in the quest for system efficiency in Solvay's materials innovation

Need to lower emissions and energy consumption

- transport
- energy
- construction

Lightweighting

Energy efficiency & storage

Electrification

Green & clean technologies

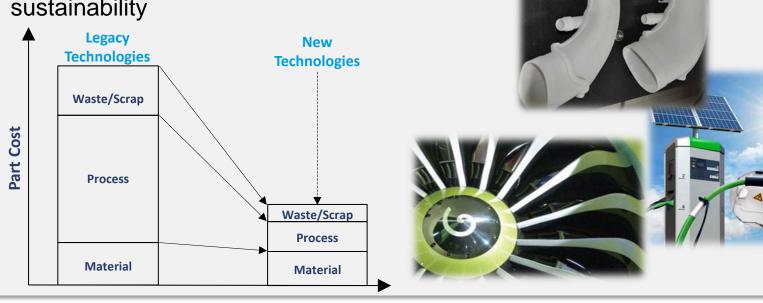






Solvay's new material solutions enable our customers to meet the climate challenge at affordable cost

- Integration of design, material technologies (specialty polymers, composites...) and processes: design for efficiency
- Ensure optimal trade-off between materials performance & efficiency, cost and sustainability







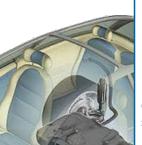
Examples of materials efficiency in automotive

Powertrain efficiency

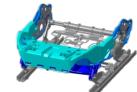


High thermal resistance materials for air induction & turbo systems

Specialty polymer grades for thermal management systems



Lightweighting



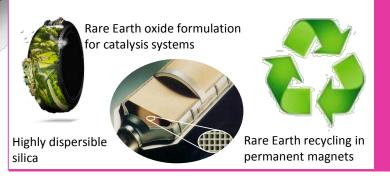
Full range of structural and 3Dmoldable high-performance foams



Composite materials for semistructural and structural parts



Clean and green technologies





Electrification

New generation of electrolytes, salts, binders and separators to improve li-ion battery performance





A complete portfolio of products for fuel cell vehicles

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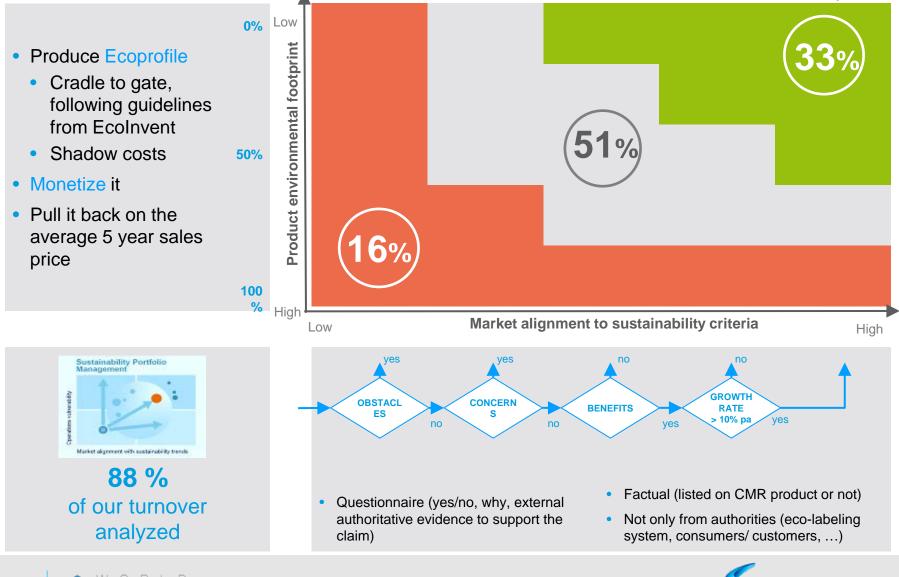
Solvay is pushing the limits of materials efficiency







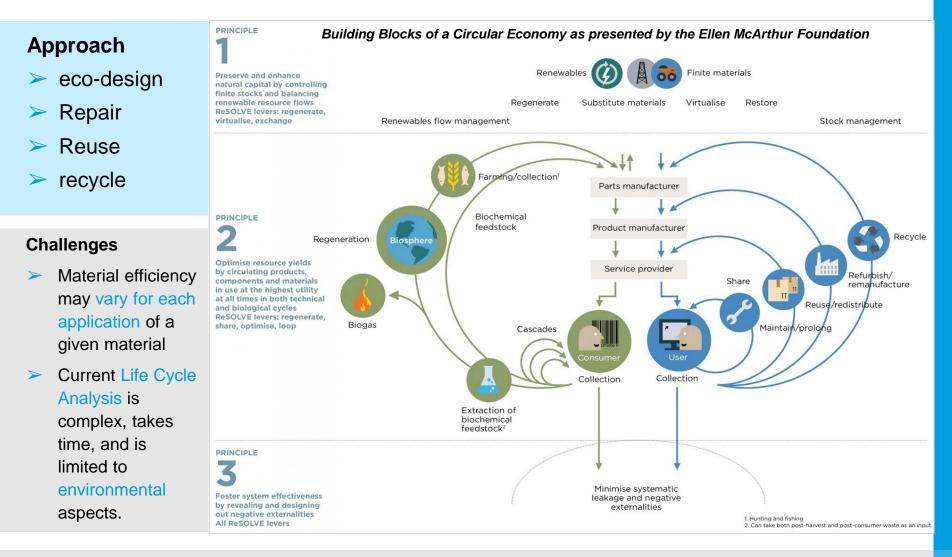
Solvay's current tool to evaluate materials efficiency: "Sustainable Portfolio Management" % of Group sales



RU

SOLVAY asking more from chemistry®

The next frontier: **Develop a circular economy ecosystem for materials**







How to move forward our materials efficiency thinking



➤ Use less

> Use longer

"No regret" indicators

- Final product lifetimeQuantity of material
 - > Usage cycles













"Design for efficiency":

- Use smarter (design for efficiency)
- Use more sustainably (circular economy principles vs. best alternative)

Integrated approach required with collaboration throughout the value chain (material suppliers, material users, system designers, final consumers)

- Involve cross sectoral entities with expertise on the matter, such as the WBCSD
- Set up an expert working group to define high-level KPIs for WMF2017

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