



Our vision for sustainable innovation

Pioneering new ideas



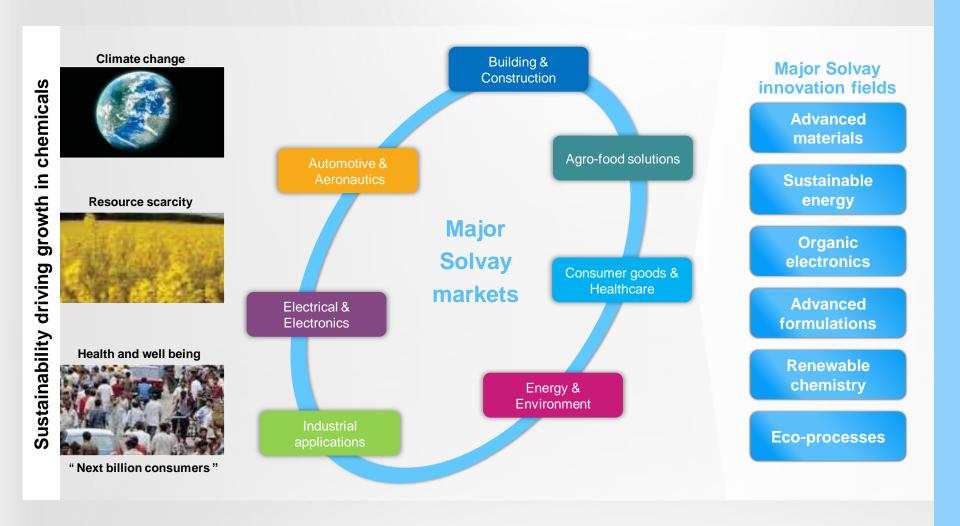
Deliver value

Leverage network & partnerships

Sustainability

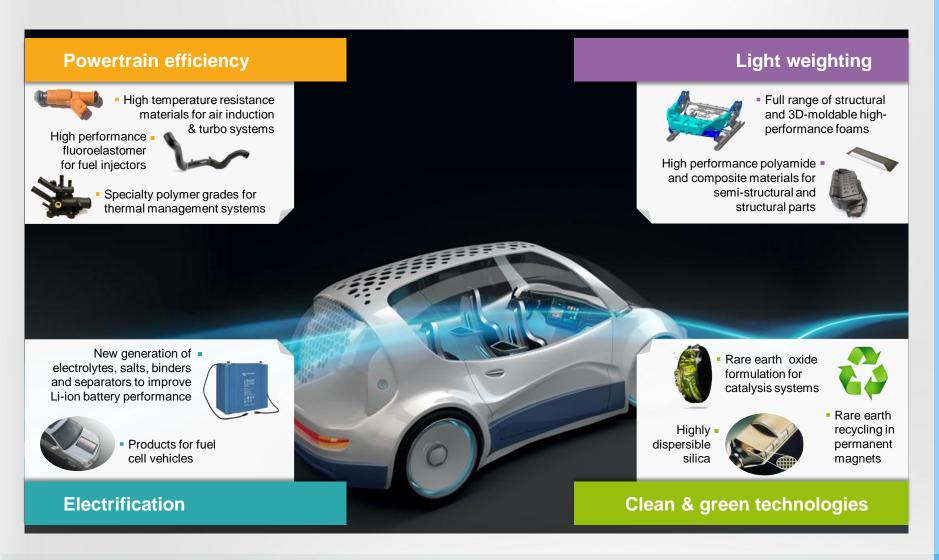


Our innovation responds to sustainability challenges





Innovative solutions towards sustainable mobility...





... towards sustainable energy...

Energy from renewable sources

- Materials for inorganic and organic photovoltaic panels
- Building blocks for epoxy resins for wind turbines
- Innovative resins for fuel cells membranes
- Energy produced from biomass



Energy storage & conversion

- Innovative materials for current and next generation batteries
 - Solar pond •
 - CO₂ capture & use ■





- Surfactants (also bio based) and specialty polymers for oil & gas extraction
- Sulfuric acid regeneration for oil refineries



Energy & resources efficiency

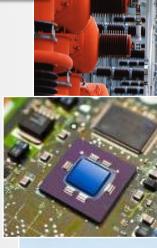


... towards a sustainable life style

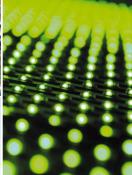
Process & energy efficiency

- OLED lighting
- High performance polyamide for LED
- Surface treatment

- Materials for smart devices
- OLED displays
- New materials for transparent electrodes







Sustainable solutions

- Energy efficient lamps
 - Rare earth recycling •
- Bio sourced materials for structural applications
 - LED materials •

- Circuit breakers •
- Flame retardant solutions •

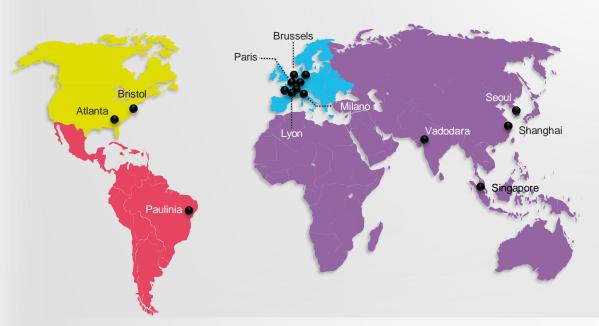
Enhanced design & connectivity





Solvay research network: innovation and delivery

Innovation excellence: € 250 m REBITDA lever*...



Network of competence centers and shared resources, cross-fertilizing and enhancing our sustainable innovation

Open innovation











across businesses



2012 data

R&I staff

~ € 300 m **R&I** efforts

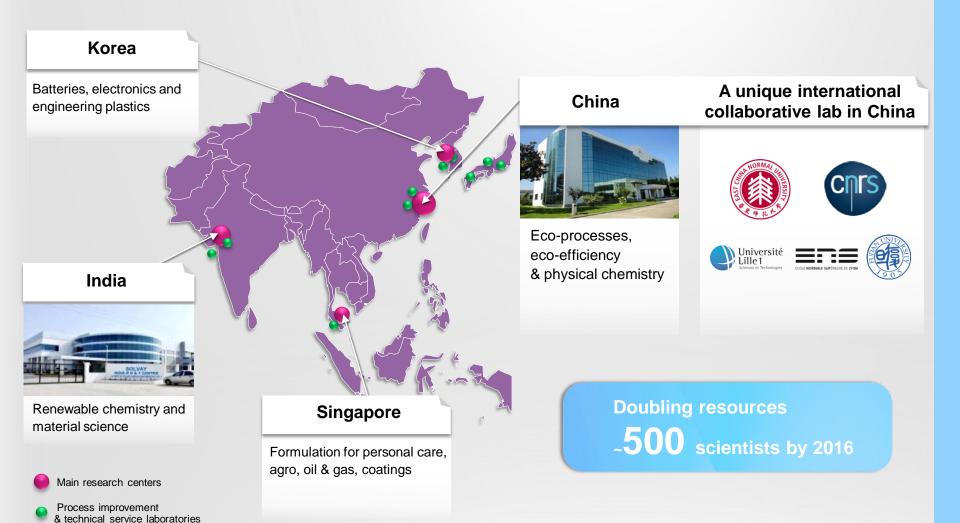
> **R&I** resources managed by GBUs

New sales ratio

Patents filed

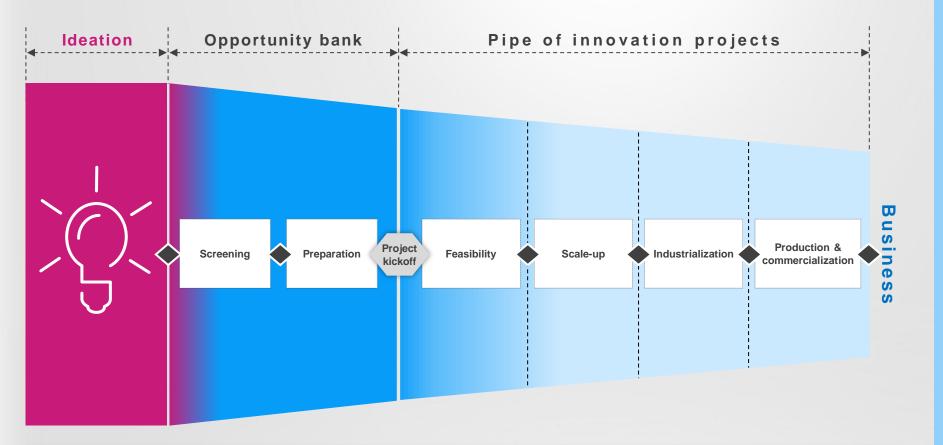


Building customer intimacy and market proximity, Asian focus





Best-in-class processes for innovation excellence ...



Ensuring efficient & timely innovation delivery

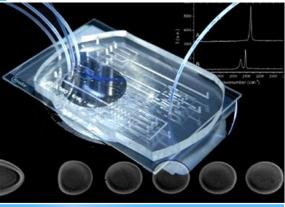


... and best-in-class tools for innovation excellence

High throughput methodologies developed at Solvay's Lab of the Future in Bordeaux



"Lab on a chip" for formulations and phase diagrams



Robots for synthesis, chemical reactions and formulations

Microfluidics for data acquisition and testing

Laboratory Of Future - Joint lab with academia

(French national center for scientific research & Bordeaux university)



Eco-conceived solutions, starts with impact assessment

Impact: reduced carbon footprint for automotive oil pans made of high performance polyamide compared to aluminum



Delivering sustainable value





