WE ARE A MULTI-SPECIALTY CHEMICAL COMPANY

<table>
<thead>
<tr>
<th>Key Figures</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employees</td>
<td>27,000 employees¹</td>
</tr>
<tr>
<td>Countries</td>
<td>58 countries¹</td>
</tr>
<tr>
<td>Industrial Sites</td>
<td>139 industrial sites¹</td>
</tr>
<tr>
<td>R&amp;I Centers</td>
<td>21 major R&amp;I centers¹</td>
</tr>
<tr>
<td>Occupational Accidents</td>
<td>0.77 occupational accidents at Group sites per million hours worked²</td>
</tr>
<tr>
<td>Net Sales</td>
<td>€ 10.9 billion of net sales¹</td>
</tr>
<tr>
<td>EBITDA</td>
<td>€ 2,284 million of EBITDA¹</td>
</tr>
<tr>
<td>Greenhouse Gas Intensity</td>
<td>5.86 kg CO₂ eq. per € EBITDA</td>
</tr>
<tr>
<td>Sustainable Solutions</td>
<td>43% sustainable solutions</td>
</tr>
</tbody>
</table>

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1. 2016 underlying results
2. MTAR: Medical Treatment Accident Rate

Group presentation 2017
6/8/2017
A BALANCED PRESENCE IN ALL GROWTH REGIONS

**NORTH AMERICA**
- 27% of net sales
- 6,400 employees
- 44 industrial sites
- 6 major R&I centers

**LATIN AMERICA**
- 10% of net sales
- 2,350 employees
- 8 industrial sites
- 1 major R&I center

**EUROPE**
- 33% of net sales
- 13,200 employees
- 57 industrial sites
- 10 major R&I centers

**ASIA PACIFIC**
- 30% of net sales
- 5,050 employees
- 30 industrial sites
- 4 major R&I centers

2016 underlying results
WE ARE BUILDING A MODEL OF SUSTAINABLE CHEMISTRY TO MEET THE CHALLENGES OF SOCIETY
OUR ACTIVITIES ARE STRUCTURED ALONG 3 MEGATRENDS

- Evolving demography and consumer behavior
- Innovation acceleration
- Resources constraints and demand for sustainability
OUR FIVE SUSTAINABLE COMMITMENTS BY 2025

Contribute to Society
- Societal Actions

Innovate Sustainable Solutions
- Sustainable Portfolio Management

Act Responsibly
- Safety
- Greenhouse Gas Intensity
- Engagement Index

Baseline 2014

- 50% of occupational accidents
- 80% employee engagement index

x2 employees involved in societal actions

50% share of sustainable solutions in the Group portfolio

-40% of CO2 intensity
WE CREATE SUSTAINABLE VALUE

Asking MORE from chemistry

MORE talents

Developing our people: a guarantee of success and performance

MORE commitments

BY ACTING RESPONSIBLY

Accelerating our transformation with portfolio upgrade, organic growth and excellence

MORE Innovation sustainable solutions

BY INNOVATING

Supporting responsibly the development of society and innovating to anticipate and adapt continuously

BY CONTRIBUTING TO SOCIETY
WE CREATE VALUE FOR OUR CUSTOMERS
WE ADAPT OUR PRODUCT OFFERING TO FAST-EVOLVING MARKETS

Distribution of net sales

- Industrial Applications: 18%
- Consumer Goods & Healthcare: 18%
- Building & Construction: 10%
- Electrical & Electronics: 5%
- Automotive & Aerospace: 28%
- Agro, Feed & Food: 10%
- Resources & Environment: 11%
CONSUMER GOODS AND HEALTHCARE

We develop competitive solutions contributing to health and well-being of consumers.

CONSUMER GOODS

• Personal care solutions (Jaguar Optima®, Tixosil® Micropearl) and smart textiles (Emana®) improve consumer well-being.

• Environmentally-friendly solutions for cleaning products (Eureco®, etc.).

HEALTHCARE

• Unique range of thermoplastics for implantable and non-implantable medical devices (Solviva® Biomaterials, Radel® PPSU).

• Sodium bicarbonate for effervescent tablets (Bicar®).
AUTOMOTIVE AND AEROSPACE

LIGHTWEIGHTING
Lightweight materials (high-performance polymers, advanced composite materials, etc.) for lighter and greener vehicles (Solvavite™, Tegracore™).

POWERTRAIN EFFICIENCY
Products (fluorinated elastomers, polymers, etc.) improve the motor longevity (Nocolok® Flux, Tecnoflon®).

ELECTRIFICATION
Flame-retardant materials and heat-resistant engineering plastics improve the lifespans of hybrid and electric vehicles (Solef® PVDF, LiTFSI salts, Amodel® PPA).

GREEN TECHNOLOGIES
Catalytic materials and highly dispersible silica, limit polluting emissions and fuel consumption (Premium SW, Optalys®).

We help manufacturers meet the challenges of sustainable mobility.
OUR LIGHTWEIGHTING OFFERING DRIVES SUSTAINABLE MOBILITY

- INTERIORS
- THERMAL & AIR MANAGEMENT SYSTEMS
- ENGINE COMPONENTS
- BRAKING SYSTEMS
- STRUCTURAL & SEMI-STRUCTURAL PARTS
- INSULATION
- ENERGY-EFFICIENT TIRES
- EXTERIORS & CHASSIS
- VEHICULE ELECTRIFICATION

**Products examples**

- Engine thermostat housing Amodel® PPA
- Ryton® PPS Quick connections for fuel lines
- Composite hood
OUR LIGHTWEIGHTING OFFERING DRIVES SUSTAINABLE MOBILITY

SECONDARY STRUCTURES
INTERIORS & GALLEYS
SURFACE COATINGS

BONDING & MULTIFONCTIONALITY
FLIGHT SYSTEM COMPONENTS
FLUIDS
PRIMARY STRUCTURES
ENGINES
WIRE & CABLES

Leap engine compressor

Thermal-acoustic insulation blankets made of Halar® ECTFE, KetaSpire® PEEK or PEKK

Torlon® PAI Clip nuts

Aircraft interiors TegraCore™ PPSU

Products examples

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Our proven expertise in the oil & gas, mining and energy sectors enables us to develop eco-friendly solutions.

**OIL AND GAS**
- Solutions based on guar and on surfactants increase yields and limit the environmental impact of drilling.
- High-performance polymers (Solef® PVDF) for improved operating efficiency.

**MINING**
Chemical reagents improve customers’ productivity and operating costs of the recovery of metals and minerals (Interox®).

**ENERGY SOLUTIONS**
Products and technologies for producing and storing renewable energies, and improving energy efficiency (Halar® ECTFE, LiTFSI lithium salt).

**ENVIRONMENTAL PROTECTION**
- Solutions for air and water treatment using filtration, gas separation, absorption, and chemical reactions (Udel® PSU, Interox®).
- Range of products and systems for controlling air emission and managing associated waste (SOLVAIR Solutions®).
AGRO, FEED AND FOOD

Sustainable living, environmental protection

Our solutions help crop and livestock farmers and food processors to operate responsibly, qualitatively, and sustainably.

AGRICULTURE
Environment-respecting formulations, protect crops and improve performance (AgRHO™, PROCrop™).

FEED
Silica, hydrogen peroxide, and sodium bicarbonate-based solutions meet the quality, food safety and productivity requirements of this market (Bicar® Z, Paramove® solution).

FOOD
Flavors and polymers contribute to safer and healthier food (Vanifolia™, Solvera® PFPE).
ELECTRICAL AND ELECTRONICS

Our miniaturization technologies and advanced materials open up new perspectives for manufacturers.

Connectivity and energy efficiency

DESIGN AND CONNECTIVITY
Solid, high temperature-resistant polyamides for slim and stylish smartphones (Kalix® HPPA).

SAFETY
Flame-retardant products (Amodel® PPA) at the forefront of electrical safety.

SUSTAINABLE SOLUTIONS
Phosphors based on rare earths helping improve display technologies and save energy (Luminostar®).

PROCESS EFFICIENCY
Hydrogen peroxide, a reference for manufacturers (Interox® Pico), improves the production efficiency of semiconductors.
Our high-performance solutions take part in the development of safe, healthy and sustainable housing.

**ENERGY PERFORMANCE**
Solutions used in energy-saving triple-glazed windows and in foam wall insulation for low-energy housing (Soda Solvay®).

**PROTECTION AND SAFETY**
Corrosion-resistant, UV-resistant and flame-retardant materials for greater safety and longevity in buildings (Rhodoline®, Cyasorb Cynergy Solutions®).

**RESOURCE MANAGEMENT**
High-performance plastics ensuring the robustness of water supply systems and drinking water quality (Technyl® eXten®, Radel® PPSU).
INDUSTRIAL APPLICATIONS

Efficiency and value

We help manufacturers get more out of their equipment in a more responsible way.

INDUSTRIAL AND PROTECTIVE COATINGS
Wide range of binders, solvents, pigments and additives. Biodegradable solvent (Rhodiasolv® IRIS) used in industrial cleaning, paints and coatings, etc.

3D PRINTING
3D printing polymers generating fast and inexpensive prototypes (KetaSpire® PEEK).

METAL AND SURFACE TREATMENT
Environmentally responsible solutions improve performance of finished products (Rhodoclean®, Augeo® SL191).

INDUSTRIAL EQUIPMENT PROTECTION
Materials resistant to corrosion, high temperatures and chemical aggression (Solef® PVDF).

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OUR SPIRIT OF INNOVATION & FOOTPRINT
WE INNOVATE FOR MORE SUSTAINABLE CHEMISTRY

RESPONSIBILITY
Life Cycle Analysis methodology to assess projects
- Assess all R&I projects
- Develop eco-designed products for sustainable solutions
- Conceive and implement eco-efficient processes

OPEN INNOVATION
At the heart of global innovation systems to access external knowledge
- Collaborating with academia worldwide
- Investing in venturing funds and start-ups
- Partnering with the industry (customers, research consortia)
- EC’s Environmental Funding program LIFE+ supports several Solvay projects

EXCELLENCE
Market proximity and long-term growth perspectives
- 85% of the Group’s R&I investments are directly managed by the GBU's
- Corporate R&I leads Solvay into new growth territories, incubates emerging competencies and enhances innovation excellence

Innovation in figures
2,340 employees
240 patent applications
€ 350 M/Y R&I efforts
€ 80 M invested in funds and start-ups

SOLVAY- Corporate Research & Innovation
6/8/2017

underlying results
INNOVATION CREATES THE CHEMISTRY OF THE FUTURE

1863
Ernest Solvay invents the process for producing soda ash

1878
Solvay innovates in social welfare (paid vacations, social security, 8-hour day)

1880
Solvay is the first industrial multinational operating simultaneously in the US and Europe

1911 & 1927
The congresses bring together the greatest physicists of their time

1960
Solvay invents the plastic bottle for mineral waters

1990
Solvay invents precipitated silica for green tires

2011
Solvay acquires Rhodia

2013
1st Chemistry for the Future Solvay Prize

2015
Solvay flies around the world with Solar Impulse

2011
Solvay acquires Cytec

6/8/2017
SOLVAY- Corporate Research & Innovation
Ernest Solvay established first prestigious meetings of top scientist as the Council of Physics

Professor Ben Feringa Laureate of the Chemistry for the Future in 2015, was awarded the 2016 Nobel Prize in Chemistry for his groundbreaking work on molecular motors

Chemistry for the Future Solvay Prize 3rd issue in November 2017

First round-the-world solar flight Solar Impulse 2 accomplished the first trip around the world without a single drop of fuel
Halar® Energy capture

Solef® PVDF Energy storage

Light weight/metal replacement

Non-linear numerical modeling

Polyamide® 6.6 Beyond the airplane

Inflatable mobile hangar

For performance pilot wear

Inflatable mobile hangar

Polyamide® 6

Sinterline™

Fomblin® PFPE

Lubrication All 4 engines

Sinterline™ Polyamide 6

Light weight / metal replacement

Solstick Energy capture

KetaSpire® PEEK
PrimoSpire® SRP

Light weight/metal replacement

Emana® based on Polyamide 6.6

Beyond the airplane

Solkane® 365 mfc

Structure

Torlon® PAI

Structure

Solef® PVDF

Energy storage

All 4 engines

F1EC

Energy storage

All 4 engines

VTM® 264 prepgs

VTA® 260 adhesive

Structure

TegraCore™

PPSU Foam

Structure

Ixef® PARA

Light weight / metal replacement

Solvay technical developments on Solar Impulse 2
OUR SUSTAINABLE INNOVATIONS

**Solvay Dental 360™**
Innovative material replacing metal in removable partial denture frames and enabling to accelerate the work of dental laboratories and dentists.

**SolvaLite™**
Thermoset composites enabling lighter vehicles while offering design freedom, exceptional properties and the use of automated processes.

**N Protect™**
Set of eco-friendly formulations used as stabilizer for urea fertilizer allowing higher crop yields with less fertilizer.

**POLIMOTOR 2**
Engine prototype without metallic parts allowing a 40% weight reduction.
OUR GLOBAL R&I FOOTPRINT & EXPERTISES

22% North America

58% Europe

15% Asia Pacific

Corporate R&I domains
- Organic chemistry
- Inorganic chemistry
- Process
- Material science
- Soft matter
- Analytical
- Simulation
- Biotechnology
- Electronic
- Catalysis
- Surface modification
- Material transformation
- Process safety
- Process pilots
- Environment
- Nano-material
- Battery
- High throughout

SOLVAY- Corporate Research & Innovation
6/8/2017
A WORLDWIDE NETWORK OF RESEARCHERS CONNECTED TO ACADEMIC PARTNERS

* In Top 100 worldwide ranking

Others academic partners are in national Top 10

To partner with high-level academia
To lead or take part in public-private partnerships
To participate and influence in decision-making consortia
4 JOINT LABS
WITH CNRS & UNIVERSITIES

- Laboratory of the Future
  Bordeaux, France

- Polymers Advanced Lab
  Lyon, France

- Complex Assemblies of Soft Matter (COMPASS) Lab
  Bristol, Pennsylvania, USA

- Eco-Efficient Products and Processes Lab (E2P2L)
  Shanghai, China
OUR NEW ORGANIZATION

Based on people to fit Group and GBU's technology roadmap
OUR GROWTH INITIATIVES ADDRESS CHALLENGES OF THE FUTURE

Application targeted materials

**Advanced materials**
- New materials with intrinsic breakthrough attributes
  - Toward new attributes for more comfort & energy savings
  - New polymers for composites

**Stimuli active materials**
- Material and system converting a “stimuli” into a different signal
  - Toward materials for digital world
  - Sensor based solutions

**Surface modification**
- New materials able to deliver targeted attributes
  - Toward better protection and sustainable use of materials
  - Anti-soil coatings

New chemistries and processes

**New organic chemistries**
- Breakthrough organic chemistries for new attributes
  - Toward new clean organic chemistries
  - More efficient surfactants

**New inorganic chemistries**
- Breakthrough inorganic chemistries for new attributes
  - Toward new inorganic materials & with clean access
  - New generation of batteries

**Eco-processes**
- New breakthrough processes
  - Toward 0 effluents, reduced energy consumption, better competitiveness
  - New generation of plants
let's create more future