Karim Hajjar
Chief Financial Officer
IFRS 16 has been implemented in the Group’s financial statements since January 1, 2019. Comparative information for the first quarter of 2018 in the business review is presented on an unaudited pro forma basis as if the implementation had taken place on January 1, 2018. This information is labelled “pro forma” or “PF”. The balance sheet evolution is compared with January 1, 2019, which includes the IFRS 16 impact versus December 31, 2018.

Besides IFRS accounts, Solvay also presents underlying Income Statement performance indicators to provide a more consistent and comparable indication of the Group’s financial performance. The underlying performance indicators adjust IFRS figures for the non-cash Purchase Price Allocation (PPA) accounting impacts related to acquisitions, for the coupons of perpetual hybrid bonds, classified as equity under IFRS but treated as debt in the underlying statements, and for other elements that would distort the analysis of the Group’s underlying performance.

Safe harbor

This document may contain forward-looking information. Forward-looking statements describe expectations, plans, strategies, goals, future events or intentions. The achievement of forward-looking statements contained in this press release is subject to risks and uncertainties relating to a number of factors, including general economic factors, interest rate and foreign currency exchange rate fluctuations, changing market conditions, product competition, the nature of product development, impact of acquisitions and divestitures, restructurings, products withdrawals, regulatory approval processes, all-in scenario of R&I projects and other unusual items. Consequently, actual results or future events may differ materially from those expressed or implied by such forward-looking statements. Should known or unknown risks or uncertainties materialize, or should our assumptions prove inaccurate, actual results could vary materially from those anticipated. The Company undertakes no obligation to publicly update or revise any forward-looking statements.
## Financial Results

*Focus on cost, cash and customers in a challenging macro environment*

### 9 Months 2019 Results & Strategy Review

<table>
<thead>
<tr>
<th>Metric</th>
<th>Amount</th>
<th>Change Y/Y</th>
<th>Change Including Forex &amp; Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Net Sales</strong></td>
<td>€7.8B</td>
<td>-0.7% organically</td>
<td>+1.6%</td>
</tr>
<tr>
<td><strong>Underlying EBITDA</strong></td>
<td>€1,796M</td>
<td>-2.6% organically</td>
<td>-0.2%</td>
</tr>
<tr>
<td><strong>Free Cash Flow to Solvay shareholders</strong></td>
<td>€345M</td>
<td>+€217M organically</td>
<td>-0.2%</td>
</tr>
</tbody>
</table>

**9 months**

- Volumes impacted by headwinds in automotive, electronics and oil & gas.
- Positive net pricing and forex offset lower volumes, higher raw materials and fixed costs.
- Sustained margin at 23%.

**Q3**

- €2.6B - 2.7% organically, -0.5% including forex & scope.
- €601M - 1.8% organically, +0.4% including forex & scope.
- €313M - +€167M organically from continued operations.

Disciplined working capital management.
ADVANCED MATERIALS

9M 2019 PERFORMANCE

Net Sales

+1.8%  
Y/Y organic

EBITDA

-8.4%
Y/Y organic

EBITDA Margin

26%

MARKET DRIVERS

• Aerospace market growth trends continue
• Automotive market headwinds continue
• Electronics market down, but improving sequentially in Q3

PERFORMANCE HIGHLIGHTS

• Double-digit aerospace volume growth offset continued weakness in auto & electronics
• Cost discipline and efficiency measures offset by higher production costs and accounting impact of lower inventories
**ADVANCED FORMULATIONS**

**9M 2019 PERFORMANCE**

<table>
<thead>
<tr>
<th>Net Sales</th>
<th>EBITDA</th>
<th>EBITDA Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>-7.9%</td>
<td>-10%</td>
<td>18%</td>
</tr>
</tbody>
</table>

**MARKET DRIVERS**

- Shale oil and gas significantly deteriorating
- Overall resilient demand dynamics in key markets, including mining, flavors and consumer care

**PERFORMANCE HIGHLIGHTS**

- Oil & gas materially impacted by market conditions and erosion of competitiveness
- Profitability sustained and margins improved in other key businesses
- Margins sustained
PERFORMANCE CHEMICALS

9M 2019 PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>Net Sales</th>
<th>EBITDA</th>
<th>EBITDA Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+3.4%</td>
<td>+8.7%</td>
<td>30%</td>
</tr>
<tr>
<td>Y/Y organic</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MARKET DRIVERS
- Resilient demand in soda ash and peroxides markets

PERFORMANCE HIGHLIGHTS
- Pricing up in soda ash and peroxides on stable volumes
- Operational efficiency and higher prices more than offset higher raw material and energy costs
- Margins progressed
Free Cash Flow to Solvay Shareholders

€345M

+€217M Y/Y
Continuing operations, 9M 2019

- Strong Q3 delivery with €313M
- Strict focus on costs and working capital
- Maintained Capex discipline

Delevered\(^{[1]}\) by €140M in 9M 2019
+€241M Y/Y

\(^{[1]}\) Operational deleveraging of net financial debt by €140 million, after payment of the dividends in the first half, a improvement of €241 million compared to the same period in 2018. Operational deleveraging is free cash flow to Solvay shareholders after dividend payments, but before forex and scope changes on net debt.
Underlying EBITDA

-2% to -3%
organically

$\sim$2,330M
Flat Y/Y, at current forex

Free Cash Flow
to Solvay shareholders

$\sim$490M
from continued operations

$\sim$300M
total operational cash deleveraging \([1]\)

[1] Operational deleveraging is free cash flow to Solvay shareholders after dividend payments, but before forex and scope changes on net debt.
Ilham Kadri
Chief Executive Officer
Redefined structure and responsibilities of executive leadership team

Focused and incentivized organization on cost improvement and cash generation

Initiated comprehensive strategic review of every business

Mobilized organization to redefine a new sense of purpose as we move forward with one culture
INITIAL INSIGHTS

We have a strong foundation …

- Attractive end markets aligned with key megatrends
- Leading market positions with further growth potential
- Proven technology and innovation expertise
- Passionate and talented people

… with significant opportunity to accelerate value creation

- Clear business mandates and differentiated KPIs
- Research & Innovation to better serve customers
- Operational synergies and efficiencies across our businesses
- Unified culture with a common purpose
OUR VALUE PROPOSITION

**Sustainable Solutions Aligned to Megatrends**
- Advanced materials and specialty chemicals offer sustainable solutions aligned to megatrends
- Large and growing market opportunity

**Geographic Advantage**
- Evenly balanced revenues across Europe, Americas, Asia & RoW
- Customers served out of 61 countries

**Unmatched Depth of Capabilities**
- Leadership positions in >75% of our portfolio
- Leverage technologies across businesses to meet complex customer demands and help reduce their total cost of ownership

**Financial Performance**
- One of the highest EBITDA margins in the industry
- Maintained or raised dividend since 1982

**Significant Opportunity Ahead**
Driving change through our new strategy, new operating model and new culture to maximize profitable growth, cash flows and shareholder returns
SOLVAY BY THE NUMBERS

€10.3B 
net sales
50% sustainable solutions

€2.2B 
underlying EBITDA
22% margin

>50% 
revenue in faster growing economies

24,500 people
125 sites

€350M in R&I
2,200 R&I employees in 21 global locations

EVENLY BALANCED 
revenue across Europe, the Americas and Asia & RoW

61 countries
>100 nationalities

75% of R&I pipeline revenue to be from “Sustainable Solutions”

264 new patents in ’18
2,800 patents in force

1,500 intellectual property agreements

2,200 R&I employees
in 21 global locations
WELL-POSITIONED TO BENEFIT FROM A MORE ESG-FOCUSED WORLD

Sustainable Products
• Deliver financial growth and profitability through materials and compounds that help address climate change, resource efficiency and improve quality of life

Sustainable Employer
• Offer a safe, engaging and diverse workplace to maximize our employee potential and help achieve operational excellence
• Since 2012, reduced safety incident rates by 32%

Sustainable Planet
• Reduce environmental impact through lower resource consumption, emissions and waste generation
• Ex: 1 million tonne absolute Scope 1+2 greenhouse gas reduction

AAA
MSCI ESG (on a scale of AAA-CCC)
#2 out of 42
Diversified Chemicals - Sustainalytics
92nd percentile
FTSE4GOOD
Top 10 of 159
WBCSD
Our Leading Market Positions Are Supported By Megatrends
### Megatrends

<table>
<thead>
<tr>
<th>Macro Drivers</th>
<th>Electrification</th>
<th>Lightweighting</th>
<th>Resource Efficiency</th>
<th>Healthcare</th>
<th>IoT / Digitalization</th>
<th>Eco-friendly based solutions</th>
</tr>
</thead>
</table>
| Growth Opportunity | - Resource scarcity  
- Climate change  
- Consumer trends | - Responsible mobility  
- Climate change  
- Resource scarcity | - Safeguard ecosystem  
- Resource scarcity  
- Climate change | - Aging population  
- Growing middle class  
- Digitalization, mobility & wellness | - People connecting digitally  
- Digitally interconnected ecosystems | - Health and wellness awareness  
- Consumer trends  
- Resource scarcity |
| Addressable Market | >€25B | >€10B | >€50B | >€10B | >€50B | >€10B |

- Composites in aerospace to grow 2x in next 10 years
- Composites in offshore oil pipes / risers to be worth >$14B in 10 years
- Composites in auto to grow 30% CAGR in next 10 years
- Water treatment to grow at 4%+ CAGR over next 5 years
- Lithium supply to increase 6x by 2030 and copper to add ~4mtpa
- Energy-efficient glass to grow at 4.5% CAGR by 2025
- Global medical plastics to grow >6% in short-term
- Global medical implant to grow at 7% CAGR in short-term
- IoT sensors to grow >15% CAGR through 2023
- Display capacity to grow at 4% CAGR through 2023
- Semiconductors market to grow at 6% CAGR to 2022
- Organic shampoos to expand at 3.1% CAGR to 2025
- Natural vanillin to grow >10% CAGR by 2024
- Waterborne coatings to grow by 5.7% CAGR by 2025

Data sources can be found in the appendix on slide 47
WE HELP CUSTOMERS LOWER TOTAL COST OF OWNERSHIP & INCREASE SUSTAINABILITY

<table>
<thead>
<tr>
<th>Megatrends</th>
<th>Electrification</th>
<th>Lightweighting</th>
<th>Resource efficiency</th>
<th>Healthcare</th>
<th>IoT / Digitalization</th>
<th>Eco-friendly based solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Our Solutions &amp; Value Proposition</strong></td>
<td><strong>High-performance polymer technology portfolio</strong></td>
<td><strong>Extract</strong></td>
<td></td>
<td><strong>Bio-based ingredients</strong></td>
<td></td>
<td><strong>Waterborne solutions</strong></td>
</tr>
<tr>
<td><strong>Electrolyte technology</strong></td>
<td><strong>Thermoplastic composites</strong></td>
<td><strong>Thermoset composites</strong></td>
<td><strong>Extraction technologies</strong></td>
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</tr>
<tr>
<td>• Binders &amp; membranes for Li-ion</td>
<td>• Aerospace industry</td>
<td>• Aerospace structures</td>
<td>• Cu flotation</td>
<td>• Long-term implants</td>
<td>• New-generation OLED &amp; flexible displays</td>
<td>• Vanillin: Flavors &amp; fragrances</td>
</tr>
<tr>
<td>• Next-generation Li-ion</td>
<td>• Automotive industry</td>
<td>• Improving engine efficiency &amp; downsizing</td>
<td>• Li extraction</td>
<td>• Medical devices</td>
<td>• Semiconductor industry consumables</td>
<td>• Guar: Agro &amp; nutrition</td>
</tr>
<tr>
<td><strong>Resource efficiency</strong></td>
<td><strong>Healthcare</strong></td>
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<tr>
<td>• Flexible risers</td>
<td>• Long-term implants</td>
<td>• Long-term implants</td>
<td>• Dialysis membranes</td>
<td>• Pharma packaging</td>
<td>• Dialysis</td>
<td>• Eco-efficient glass</td>
</tr>
<tr>
<td><strong>Megatrends</strong></td>
<td></td>
<td></td>
<td><strong>Soda ash, Peroxides &amp; Silica</strong></td>
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<td><strong>Eco-friendly based solutions</strong></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>Thermoplastic composites</strong></td>
<td></td>
<td><strong>Thermoset composites</strong></td>
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</tbody>
</table>
WE ANALYZED MARKET POSITIONS IN EACH BUSINESS TO DETERMINE PORTFOLIO PLAYBOOK

<table>
<thead>
<tr>
<th>Business Units</th>
<th>Leadership Positions</th>
<th>Technology Penetration</th>
<th>Market Consolidation</th>
<th>Track Record</th>
<th>Growth Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialty Polymers</td>
<td>#1 high-performance polymers</td>
<td>Low</td>
<td>High</td>
<td>High growth and margin</td>
<td>High</td>
</tr>
<tr>
<td>Composite Materials</td>
<td>#1 aerospace for secondary &amp; adhesives</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soda Ash &amp; Derivatives</td>
<td>#1 globally</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peroxides</td>
<td>#1 globally</td>
<td>High</td>
<td>High</td>
<td>Predictable growth and resilient cash</td>
<td>Medium</td>
</tr>
<tr>
<td>Silica</td>
<td>#1 silica for tire globally</td>
<td>High</td>
<td>High</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coatis</td>
<td>#1 phenol in Latin America</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Novecare</td>
<td>#2 surfactants</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Chem</td>
<td>#1 rare earths for automotive catalysts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technology Solutions</td>
<td>#1 selected high-purity chemicals for semiconductors</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Performance</td>
<td>#1 vanillin</td>
<td></td>
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</tr>
</tbody>
</table>

9 Months 2019 Results & Strategy Review
November 7, 2019
Our New Strategy:
G.R.O.W.
Distinct business mandates with capital and resource discipline to maximize profitable growth and stable cash flows to drive shareholder returns

Accelerate **Growth**

We will prioritize investments in high margin Materials businesses with high growth potential, which are also our most sustainable solutions.

Deliver **Resilient cash**

We will maximize cash flow generation from our resilient Chemicals businesses where we have a competitive advantage.

**Optimize returns**

We will optimize our Solutions businesses to unlock value and increase returns.

**Win**

We are creating a winning team and operating model to support a performance-driven culture and win with our customers — Solvay ONE.
### MATERIALS

*Extend position as #1 pure-play advanced materials business*

**Accelerate growth**

- Specialty Polymers
- Composite Materials

- ~€3.1B 2019 FY Net Sales
- ~28% 2019 FY EBITDA Margin

### CHEMICALS

*Become #1 cash conversion chemical player*

**Deliver resilient cash**

- Soda Ash & Derivatives
- Peroxides
- Silica
- Coatis
- Rusvinyl

- ~€3.2B 2019 FY Net Sales
- ~27% 2019 FY EBITDA Margin

### SOLUTIONS

*Unlock value*

**Optimize returns**

- Novecare
- Technology Solutions
- Special Chem
- Aroma Performance

- ~€3.9B 2019 FY Net Sales
- ~17% 2019 FY EBITDA Margin

---

*Enabled by Solvay ONE operating model*
MATERIALS
#1 pure play advanced materials business

<table>
<thead>
<tr>
<th>Unique high-performance polymers &amp; composite technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strong growth opportunities</strong></td>
</tr>
<tr>
<td>• Sustainable automotive</td>
</tr>
<tr>
<td>• Sustainable aerospace</td>
</tr>
<tr>
<td>• Healthcare</td>
</tr>
<tr>
<td>• Electronics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strategic intent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accelerate growth</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INNOVATION</th>
<th>CUSTOMERS</th>
<th>INVESTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research, digital and technical support</td>
<td>Upgrade key account resources and e-commerce platforms</td>
<td>Prioritize investments for growth</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Key levers</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Realign organization around growth opportunities</td>
</tr>
<tr>
<td>• Accelerate innovation with highest-growth customers</td>
</tr>
<tr>
<td>• Reallocate resources to thermoplastic composites and battery platforms to accelerate customer wins</td>
</tr>
<tr>
<td>• Improve operational efficiencies through simplification, order to cash optimization and digitalization</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Track record</th>
</tr>
</thead>
<tbody>
<tr>
<td>+7% EBITDA growth (organic 2014-2019)</td>
</tr>
<tr>
<td>~28% EBITDA margin (2019)</td>
</tr>
<tr>
<td>&gt;25% Vitality index (2018)</td>
</tr>
<tr>
<td>Returns &gt; WACC (average 2014-2019)</td>
</tr>
</tbody>
</table>

[1] Vitality index: % of sales coming from newly developed products in last 5 years
CHEMICALS

#1 cash conversion chemical player

World-leaders in essential chemicals to daily life

Mono-technology businesses
- Soda ash
- Peroxide
- Silica
- Phenol chain

Strategic intent
Deliver resilient cash

INNOVATION
Focus on process innovation

CUSTOMERS
Leverage best-in-class global production assets

INVESTMENT
Selectively invest in capacity

Key levers
- Adapt organization to focus on cash and returns
- Drive focused productivity and rationalization programs
- Prioritize Capex to maintenance and invest selectively for compelling cash returns, e.g. natural soda ash
- Focus R&I on process innovation

[1] Cash conversion: (EBITDA – Capex) / EBITDA

Track record

+9%
Cash flow growth (organic 2014-2019)

~79%
Cash conversion (2019) [1]

~27%
EBITDA margin (2019)

Returns at WACC
(average 2014-2019)
Unlock value

**Unique formulation & application expertise**

**Selective opportunities to grow**
- Natural food ingredients
- Crop care
- Coatings
- Mining solutions

**Strategic intent**

**Optimize returns**

**INNOVATION**
Focus on eco-friendly solutions

**CUSTOMERS**
Digitalization, focus on key accounts

**INVESTMENT**
Selective in niche opportunities

**Key levers**
- Innovate selectively in specialty niche markets
- Fix shale oil & gas and other low-return businesses
- Drive efficiency and address fragmented industrial footprint

**Track record**

- **Returns**
  - < WACC
    - (average 2014-2019)

- **Flat**
  - Net sales & EBITDA growth
    - (average 2014-2019)

- **~17%**
  - EBITDA margin
    - (2019)
SOLVAY ONE: NEW GROUP OPERATING MODEL TO WIN

LEGACY SOLVAY

Multiple cultures
• Solvay + Rhodia + Cytec + …

Decentralized operating model
• Significant empowerment to deliver at business unit level
• Fragmented customer account management and culture
• Limited cross-business talent development

Partial enterprise-wide efficiency programs
• Manufacturing excellence

Non-differentiated mandates
• Same KPIs and incentives for all

NEW SOLVAY

Single purpose

Enterprise leadership with strong performance management
• Strategic enterprise customer engagement
• Capital discipline & resource redeployment
• Group best practices, know-how and simplified processes
• Centrally driven talent development and deployment
• Business units empowered to deliver (P&L and cash)

Repeatable cost and cash playbook
• Simplification, order-to-cash, indirect spend, Zero Based Budgeting
• Productivity measures

Distinct mandates with aligned incentives
CUSTOMER CENTRICITY

- Tailor service and approach based on customer segmentation to drive innovation
- Deploy talent to new strategic account roles centered around key accounts
- Incentives to align with customer value creation and NPS
- Deploy Specialty Polymers e-commerce global platform across the Group, with first sales in 2019
- Leverage Group distribution channel for efficient order-to-cash process

[1] Net Promoter Score
SOLVAY ONE
Disciplined centrally allocated resources

CAPEX

• Contain Group Capex at 7-8% sales
• Prioritize at Group vs GBU level
• Redirect resources from ~40% to ~60% to Materials and selective growth opportunities
• Capex minimization through digitalization
• Strict returns criteria:
  - IRR 15%
  - ROCE 20%+

R&I

• Contain Group R&I at ~€350M/year
• Prioritize at Group vs GBU level
• Redirect resources from ~35% to >50% to Materials and selective growth opportunities

2018 Growth Capex 2024
2018 R&I 2024

MATERIALS CHEMICALS SOLUTIONS CORPORATE
SOLVAY ONE
Cost reductions of €300 to €350M

SIMPLIFICATION & SYNERGIES

Complete Current Simplification Program
• Announced in 2018, to be completed by FY2020

Launch New Synergy Program
• Reduce indirect spend through improved group-wide policies
  - Technical goods & services
  - General and IT expenses
• ‘Order to Cash’ program
  - Reduce logistics & packaging costs
• Zero-Based Budgeting

PRODUCTIVITY MEASURES

Continued operational cost reductions
• Yield improvements
• Raw material & energy efficiency

Overall Equipment Effectiveness (OEE)
• For better asset utilization

Benefiting from deployment of digital
• Manufacturing Capex avoidance, improving yield and effectiveness

Total gross savings €300-350M run-rate by 2024
### REDUCING PENSIONS & INTERESTS

**Lower pension cash service by >€40M run-rate as from 2020**
- Deploy ~€0.5B of proceeds from sale of Polyamide to reduce pension liabilities
- Return > WACC
- Better security for pension obligations

**Decrease interest payments by >€35M run-rate by 2024**
- Deleveraging net debt by ~€0.6B with proceeds from sale of Polyamide & consistent operational FCF growth

### REDUCING WORKING CAPITAL NEEDS

**Order-to-cash program**
- A leaner enterprise-wide supply chain
- Inventory management and warehousing

Reduce working capital / sales ratio by 1-2% of sales

~€500M more cumulative cash from operations by 2024
Financial Commitments
### MID-TERM FINANCIAL TARGETS

<table>
<thead>
<tr>
<th></th>
<th>2019 estimate</th>
<th>2020 – 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Underlying EBITDA growth</strong></td>
<td>-2% to -3%</td>
<td><strong>Mid-single digit</strong> / year average</td>
</tr>
<tr>
<td>FCF conversion [1]</td>
<td>Around 22%</td>
<td><strong>Exceed 30%</strong> by 2024</td>
</tr>
<tr>
<td>ROCE</td>
<td>Around 8%</td>
<td><strong>Exceed 11%</strong> by 2024</td>
</tr>
</tbody>
</table>

2020 outlook to be communicated in February 2020
All targets are on an organic basis (at constant forex and scope)

[1] FCF Conversion: FCF to Solvay shareholders (before netting of dividends paid to Non Consolidated Interests) divided by the EBITDA
[2] FCF to Solvay shareholders

**COMMITTED TO DELIVERING ENHANCED VALUE**

**MATERIALS**

**CHEMICALS**

**SOLUTIONS**

**GROWTH**

**RESILIENCE**

**OPTIMIZE**

**WIN**

9 Months 2019 Results & Strategy Review
November 7, 2019
<table>
<thead>
<tr>
<th>Priority</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td>Disciplined approach to Capex and R&amp;I</td>
</tr>
<tr>
<td>✔️</td>
<td>Reduce liabilities (net financial debt and pensions)</td>
</tr>
<tr>
<td>✔️</td>
<td>Portfolio opportunities</td>
</tr>
<tr>
<td>✔️</td>
<td>Maintain stable and growing dividend</td>
</tr>
<tr>
<td>✔️</td>
<td>Maintain investment grade rating</td>
</tr>
</tbody>
</table>
WHY INVEST?

- Attractive secular trends drive long term growth
- Leadership positions >75% of portfolio
- Strong ESG credentials
- Best-in-class margins
- Resilient cash, investment-grade
- Growth and cash generation to drive stable and growing dividends

G.R.O.W. strategy to enhance shareholder value
Appendix
MARKET DRIVERS

Fuel efficiency / lightweighting regulations driving CO₂ reductions
- EU target 95g CO₂/km by 2020
- US target 50% reduction on new vehicles by 2025

Shift to electrification
- ~30% CAGR hybrid & plug-in electric vehicles in 10 years
- Increasing polymer weight per car
  6kg ICE → 12kg P(HEV)
- Content doubles with move toward hybrid vehicles

HOW WE WIN

Broadest portfolio of advanced materials
- Greater use of high-performance polymers to meet more critical applications

Deep customer relationships
- Strategic collaborations across OEMs
- Alliance on next generation battery development

Leveraging core competencies
- Knowledge to integrate design, materials and processes

Solvay outpaces growth 3X

- Coolant systems
- Transmissions
- Precision thermal
- Sensing & Autonomous Driving System
- Management systems
- Li-ion battery

We make cars more efficient
~15% net sales

AUTOMOTIVE

Resource efficiency
Lightweighting
Electrification

9 Months 2019 Results & Strategy Review
November 7, 2019
MARKET DRIVERS

4.3% annual growth in passenger traffic

10% → 50% by weight
- Significant increase of composites on new aircrafts vs. legacy aircrafts

~40,000 new aircrafts in next 20 years

HOW WE WIN

Broad customer base
- Positions with major global OEMs in US, Europe, China & Russia
- Long-term contracts on key programs across commercial & military sectors

Technology leadership
- Thermoset & thermoplastic composites
- Resin infusion & bonding technology
- LEAP engine technology
- Airbus A220 wing technology
- Winglet aerodynamic technologies

AEROSPACE

We make aircraft lighter & more efficient

~10% net sales
MARKET DRIVERS
Why Thermoplastics?

Fast cycle time
- Enabling increased build rates
- More efficient part assembly

Performance and durability
- High strength
- Unrivaled toughness
- Weight reduction

Environmental resilience
- Resistance to aggressive fluids
- Corrosion resistance

HOW WE WIN

Investments
- Capacity expansions in aero (Sept 2019)
- New capacity for oil & gas (Oct 2019)
- Two innovation center openings (Oct 2019)
  - Brussels
  - Atlanta USA

Customer partnerships
- Supplying aero for >30 years
- New customer agreement in oil & gas

Addressable market size (aero + oil & gas)
- €500M
MARKET DRIVERS

+5-7% CAGR

- Health care coverage in developing markets
- The growing care needs of elderly populations (ageing and growing populations and increasing life expectancy)
- Advances in treatments and health technologies
- High sterilization capabilities

HOW WE WIN

Patient care: World leader in thermoplastics used for high performance membrane

Pharma packaging: World leader in high barrier polymers to package pharmaceuticals

Medical devices
- Medical grade plastics for limited exposure applications
- Biomaterials for long-term exposure applications
- 3D additive manufacturing compatibility

We improve comfort for over 2 million patients undergoing a.o. dialysis, orthopedic (knee, hip, spine) or cardiovascular procedures.

We provide 50 to 90% reduction in medical device cost while enabling greater design freedom and improved ergonomics through lightweighting.

We are in 1 in every 4 pharmaceutical blister packs globally which is over 400 billion pills.
MARKET DRIVERS

Double digit growth expected
- The growing demand for hyper-connectivity and the fast development of 5G
- Exponential growth of data, leading to necessary miniaturization
- Internet of Things
- Need to reduce the energy consumption of components

Innovation is key to anticipate the fast moves in this industry.

More specifically, 5G and Internet of things, will open many new markets where Solvay’s expertise and customer intimacy will be key assets.

HOW WE WIN

We target advanced technology markets driven by strong long-term trends with a portfolio of solutions

- Specialty polymers providing high performance solutions for structural and electronic components
- Recognized expertise in high purity chemistry for the semi-conductor industry
- New generation materials for OLED, delivering high quality diffuse light from thin and potentially flexible displays
HOME & PERSONAL CARE

~10% net sales

MARKET DRIVERS
Attractive market potential: GDP+
• Request for more natural and bio-based solutions
• Growing customer base
• Enhanced performance and convenience
• Demand for Personalised and Premium Products
• Digital tools enabling the niche brands

HOW WE WIN
We provide our customers with portfolio of innovative polymers and surfactants
• Homecare and I&I: solutions & ingredients for fabric care, dish care and surface care that enhance the performance
• Personal care: natural & synthetic polymers, surfactants, fragrances and precipitated silica serving the hair/skin/oral care and cosmetics markets
• Food packaging: high performance materials for safe, reliable and convenient food packaging
• Aroma: world’s largest integrated producer of vanillin for the flavors & fragrances industries

Our Products can be found in over 2.5B bottles of personal care products every year, enhancing the lifestyle of millions of consumers around the globe.

We support more sustainable lifestyles in Home & Hygiene through our solutions for long lasting disinfection, low energy washing, and fabric enhancement, present in over 1.5B bottles every year.
SODA ASH & BICARBONATE

Resilient demand & strong cash conversion

16% net sales

>10% Cash flow growth [1] (average 2016-2019)

~75% Cash conversion [2] (2019)

MARKET DRIVERS

Resilient growing soda ash demand
• Mix of consumer and industrial-driven demand

Environmental standards supporting future growth
• Insulation glazing & solar panels
• Plastics substitution in container glass
• Air pollution control from land facilities (power plants, incinerators) to shipping vessels
• Lithium extraction to fuel (EV) batteries

HOW WE WIN

We offer security of supply
• Global network of world-class and local assets
• Capacity addition of 1.4 Mt capacity in soda ash and bicarbonate by 2022

We are technology and cost leaders
• Strong asset base, based on scale, access to marine transport and natural soda ash
• Digitalization & manufacturing excellence drive cost competitiveness
• Focus on reducing CO2 footprint
• Development of sustainable bicarbonate solutions

Worldwide soda ash demand [3]
excluding China (in Mt)

Food packaging
Home & health care
Chemical industry

Construction
Resources & Environment (flue gas treatment, mining, ...)

Solvay sales [3]

~15%
~15%
30%

~15%
~15%
10%

Resources & Environment

Expanding healthcare

[1] Operational cash flow after Capex and WC before payment of taxes and liabilities
[2] EBITDA – Capex) / EBITDA
[3] Solvay internal estimate, based on external data (IHS, CFRA)

November 7, 2019
PEROXIDES

**Resilient demand & strong cash conversion**

- 6% net sales
- >25% Cash flow growth (average 2016-2019)
- ~85% Cash conversion (2019)

**MARKET DRIVERS**

**Resilient & growing H₂O₂ & (HP)PO markets**
- Diversity of markets decreases cyclicality
- Applications in Agro / Food, Consumer Goods, Electronics, Energy / Environment to grow at GDP+
- HP-PO capacity to grow at ~4% CAGR to 2024 as one winning technology

**Sustainability is a key growth driver**
- Versatility of use, efficiency and sustainability profile of peroxides drives demand & new applications

**HOW WE WIN**

- We partner with our customers
  - Offering a global footprint for security of supply
  - Building long term partnerships to joint develop business
  - Developing selectively high value applications close to the markets

- We offer best-in-class technology
  - Unique ability to build small to mega-plants
  - 3 mega HP-PO plants (>60% of WW HP-PO capacity) with long term contracts with BASF, Dow & Saudi Aramco in PO/PU chain, with stable return mechanism

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**Worldwide H₂O₂ demand [3]**

- 5.0% CAGR (2005-2018)
- >3% CAGR (2018-2023)

![Worldwide H₂O₂ demand](chart.png)

**Source:** Solvay figures based on external sources (IHS, ...)

[3] Operational cash flow after Capex and WC before payment of taxes and liabilities

[4] PO use in the following applications: Consumer goods, Industrial & chemicals, Construction and Automotive & Aerospace
OUR NEWLY REALIGNED BUSINESS SEGMENTS
Allow a differentiated management approach

Former Segments

New Segments
Announced November 7, 2019

ADVANCED MATERIALS
Specialty Polymers
Composite Materials

PERFORMANCE CHEMICALS
Soda Ash & Derivatives
Peroxides
Coatis
Rusvinyl

ADVANCED FORMULATIONS
Novecare
Technology Solutions
Aroma Performance

MATERIALS
Specialty Polymers
Composite Materials

CHEMICALS
Soda Ash & Derivatives
Peroxides
Silica
Coatis
Rusvinyl

SOLUTIONS
Novecare
Technology Solutions
Special Chem
Aroma Performance
DIGITALIZATION AS KEY ENABLER FOR FURTHER VALUE CREATION

**DIGITALIZATION OF PLANTS**

- Increase asset performance
  - Leveraging data analytics
- Improve reliability of equipment
  - Monitoring and predictive modeling for failure prevention
- Improve productivity of shop floor
  - Mobile dashboards and digital resources for operators

**Example in Specialty Polymers**

- +18% tons/yr gain in fluids
- +26% tons/yr gain in HFP
- +15% tons/yr gain in PVDC & PVDF

**DIGITALIZATION FOR CUSTOMERS**

- Real-time data analysis
- Technical recommendations
- Reduce process variability

**Example in Technology Solutions**

- Real-time data enables ongoing interaction with customer
- Immediate recommendations on new solutions
- Virtual tech support with immediate benefit to customers’ bottom line
SCALE AND DIVERSITY ADVANTAGE
Leveraging the power of Solvay

Financial Strength
Balance of high margin growth and strong cash-generating businesses

Diverse Portfolio
Ability to manage cyclicality and deepen customer relationships

Geographic Breadth
Global presence confers market insight and diversification advantage, customer advantage

R&I Scale
Powerful R&I – at business and corporate level – to drive innovation across the company

Identify New Opportunities
We can extend opportunities with existing customers by weaving together solutions and technologies from multiple GBU's

Operational Efficiency
Scale operations and supply chain efficiency across our businesses

Attract and Retain Talent
As a global and diverse organization of scale, we can attract the best talent
• ~50% of global car production in EV or hybrid in 2030 (Source: Roland Berger)
• Global battery demand growth at 20%+ CAGR over the 2018-2030 period (Source: World Material Forum, Global Battery Alliance)
• Composites in aerospace to grow 2x in next 10 years (Source: Bain - BSR Composites)
• Composites in offshore oil pipes / risers to be worth >$14B in 10 years (Source: UBS Global Research, “Offshore Contractors take sides in composite pipe race” 8 October 2019)
• Composites in auto to grow 30% CAGR in next 10 years (Source: Roland Berger)
• Water treatment to grow at 4%+ CAGR over next 5 years (Source: Solvay internal research)
• Lithium supply to increase 6x by 2030 and copper to add ~4mtpa (Source: World Material Forum, Global Battery Alliance)
• Energy-efficient glass to grow at 4.5% CAGR by 2025 (Source: “Energy Efficient Glass – Market Analysis, Trends, and Forecasts” Research and Markets, October 2019)
• Global medical plastics to grow >6% in short-term (Source: BCC Research - 2018 report)
• Global medical implant to grow at 7% CAGR in short-term (Source: “Medical Implants Market: Global Industry Trends, Share, Size and Forecast Report By 2023”, Kenneth Research, 1 August 2019)
• IoT sensors to grow >15% CAGR through 2023 (Source: BCC Sensors Technologies and Markets - July 2018)
• Display capacity to grow at 4% CAGR through 2023 (Source: Solvay internal research)
• Semiconductors market to grow at 6% CAGR to 2022 (Source: PwC publication, 2019)
• Organic shampoos to expand at 3.1% CAGR to 2025 (Source: Solvay internal research)
• Natural vanillin to grow >10% CAGR by 2024 (Source: Solvay internal research)
• Waterborne coatings to grow by 5.7% CAGR by 2025 (Source: Solvay internal research)