





















Q3 2019 RESULTS & STRATEGIC REVIEW

November 7, 2019

Karim Hajjar Chief Financial Officer

FORENOTE



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

Net Sales

9 months

€7.8B

-0.7% Y/Y organically +1.6% including forex & scope

Volumes impacted by headwinds in automotive, electronics and oil & gas

Q3

€2.6_B

-2.7% Y/Y organically -0.5% including forex & scope

Underlying EBITDA

€1,796м

-2.6% Y/Y organically -0.2% including forex & scope

Positive net pricing and forex offset lower volumes, higher raw materials and fixed costs

Sustained margin at 23%

€601_M

-1.8% Y/Y organically +0.4% including forex & scope

Free Cash Flow to Solvay shareholders

€345м

+€217M Y/Y from continued operations

Disciplined working capital management

€313м

+€167M Y/Y from continued operations



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

Net Sales

-7.9%

Y/Y organic

EBITDA

-10%

Y/Y organic

EBITDA Margin

18%

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

Net Sales

+3.4%

Y/Y organic

EBITDA

+8.7%

Y/Y organic

EBITDA Margin

30%

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





SIGNIFICANT FREE CASH FLOW GENERATION & YOY GROWTH



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.





FULL YEAR GUIDANCE

Underlying EBITDA

-2% to -3% organically

~[€]2,330M

Flat Y/Y, at current forex

Free Cash Flow to Solvay shareholders

~[€]490M

from continued operations

~[€]300M

total operational cash deleveraging [1]

 Operational deleveraging is free cash flow to Solvay shareholders after dividend payments, but before forex and scope changes on net debt.



THERERE

Ilham Kadri Chief Executive Officer

ACTIONS TAKEN SINCE MARCH 2019





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 **€2.2**B

underlying EBITDA 22% margin

>50%

revenue in faster growing economies

24,500 people **125** sites

EVENLY BALANCED

revenue across Europe, the Americas and Asia & RoW 61 countries

>100 nationalities

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

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





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 42Diversified Chemicals - Sustainalytics

92nd percentile FTSE4GOOD

Top 10 of 159 *WBCSD*



Our Leading Market Positions Are Supported By Megatrends

OUR BUSINESSES ARE ALIGNED TO POWERFUL MEGATRENDS

Megatrends	Electrification	Lightweighting ++	Resource efficiency	Healthcare	IoT / Digitalization	Eco-friendly based solutions
Macro Drivers	Resource scarcity Climate change Consumer trends	Responsible mobility Climate change Resource scarcity	Safeguard ecosystem Resource scarcity Climate change	Aging populationGrowing middle classDigitalization, mobility& wellness	People connecting digitally Digitally interconnected ecosystems	Health and wellness awareness Consumer trends Resource scarcity
Growth Opportunity	- ~50% of global car production in EV or hybrid in 2030 - Global battery demand growth at 20%+ CAGR over the 2018-2030 period	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
Addressable Market	> [€] 25B	> [€] 10B	> [€] 50B	> [€] 10B	> [€] 50B	> [€] 10B

Data sources can be found in the appendix on slide 47



WE HELP CUSTOMERS LOWER TOTAL COST OF OWNERSHIP & INCREASE SUSTAINABILITY

Megatrends Electrification Lightweighting Resource Healthcare IoT / **Eco-friendly Digitalization** based solutions efficiency **Our Solutions Bio-based** High-performance polymer technology portfolio & Value ingredients **Proposition** Binders & · Improving engine Flexible risers · Long-term implants New-generation · Vanillin: membranes for Li-ion OLED & flexible Flavors & fragrances efficiency & · Medical devices downsizing displays · Guar: Dialysis membranes **Electrolyte Thermoset** Extraction High-purity Agro & nutrition Pharma packaging Home & personal technology composites technologies chemicals care products Next-generation · Aerospace structures Cu flotation Semiconductor Li-ion industry consumables Li extraction Waterborne Thermoplastic composites solutions Aerospace industry Flexible risers Coatings · Automotive industry Soda ash, Peroxides & Silica · Eco-efficient glass · Dialysis · Air pollution control Disinfection · Eco-efficient tires



WE ANALYZED MARKET POSITIONS IN EACH BUSINESS TO DETERMINE PORTFOLIO PLAYBOOK

Business Units	Leadership Positions	Technology Penetration	Market Consolidation	Track Record	Growth Potential
Specialty Polymers	#1 high-performance polymers	Low	High	High growth and	High
Composite Materials	#1 aerospace for secondary & adhesives	Low	nigii	margin	nigii
Soda Ash & Derivatives	#1 globally		-0-		
Peroxides	#1 globally	11:41	11:44	Predictable	Billio allinomo
Silica	#1 silica for tire globally	High	High	growth and resilient cash	Medium
Coatis	#1 phenol in Latin America				
Novecare	#2 surfactants #1 guar for personal care				
Special Chem	#1 rare earths for automotive catalysts #1 selected high-purity chemicals for semiconductors	Madium	1	Volatile	Madium
Technology Solutions	#1 copper flotation #2 specialty UV stabilizers	Medium	Low	performance & lower returns	Medium
Aroma Performance	#1 vanillin				



Our New Strategy: G.R.O.W.

OUR G.R.O.W. STRATEGY

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











RESILIENCE





DIFFERENTIATED BUSINESS MANDATES

MATERIALS

Extend position as #1 pure-play advanced materials business

Accelerate growth

- Specialty Polymers
- Composite Materials

~€**3.1**B

2019 FY NET SALES **~28**% 2019 FY

EBITDA MARGIN

CHEMICALS

Become #1 cash conversion chemical player

Deliver resilient cash

- Soda Ash & Derivatives
- SilicaCoatis
- ~€3.2B
- 2019 FY NET SALES
- 2019 FY EBITDA MARGIN

~27%

lala ala

SOLUTIONS

Unlock value

Optimize returns

- Novecare
- · Special Chem
- Technology Solutions
- Aroma
 Performance

- ~€**3.9**B
- 2019 FY NET SALES

~17%

2019 FY EBITDA MARGIN

Enabled by Solvay ONE operating model



R

RESILIENCE

OPTIMIZE



WIN

MATERIALS

#1 pure play advanced materials business

Unique high-performance polymers & composite technologies

Strong growth opportunities

- · Sustainable automotive
- · Sustainable aerospace
- Healthcare
- Electronics







Strategic intent Accelerate growth

INNOVATION

Research, digital and technical support

CUSTOMERS

Upgrade key account resources and e-commerce platforms

INVESTMENT

Prioritize investments for growth

Key levers

- · Realign organization around growth opportunities
- · Accelerate innovation with highest-growth customers
- Reallocate resources to thermoplastic composites and battery platforms to accelerate customer wins
- Improve operational efficiencies through simplification, order to cash optimization and digitalization

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

Track record

+7%

EBITDA growth (organic 2014-2019)

~28%

EBITDA margin (2019)

>25%

Vitality index (2018)[1]

Returns > WACC

(average 2014-2019)



G

GROWTH

R

RESILIENCE

O

OPTIMIZE



WIN

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-inclass 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

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)



RESILIENCE





SOLUTIONS 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 ecofriendly 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)







G

GROWTH

R

RESILIENCE





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





RESILIENCE

OPTIMIZE



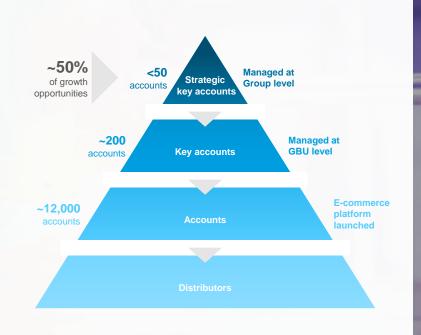
SOLVAY ONE

Organic growth fueled by differentiated customer engagement model

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 [1]
- 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





RESILIENCE





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%+



MATERIALS
CHEMICALS
SOLUTIONS
CORPORATE







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



R

RESILIENCE

OPTIMIZE



SOLVAY ONE

Cost reductions of €300 to €350M

SIMPLIFICATION & SYNERGIES

€100-150M run-rate by 2024

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





SOLUTIONS CORPORATE

Total gross savings €300-350M run-rate by 2024

PRODUCTIVITY MEASURES

€200M un-rate by 2024

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



R

RESILIENCE

OPTIMIZE



SOLVAY ONE Cash management

REDUCING PENSIONS & INTERESTS

€75M run-rate by 2024

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

€150M umulative by 2024

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

RESILIENCE

COMMITTED TO DELIVERING ENHANCED VALUE

MID-TERM FINANCIAL TARGETS

2019 estimate 2020 - 2024Mid-single Underlying -2% to -3% **GROWTH** digit EBITDA growth / year average More than **FCF** Around Exceed 30% ~[€]150M FCF [2] conversion [1] 22% by 2024 run rate More than Around Exceed 11%

OPTIMIZE

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

8%

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

by 2024



MATERIALS

CHEMICALS

SOLUTIONS

~€300M EBIT

run rate

ROCE

OUR CAPITAL DEPLOYMENT PRIORITIES

☑ Disciplined approach to Capex and R&I

Reduce liabilities (net financial debt and pensions)

Portfolio opportunities

Maintain stable and growing dividend

Maintain investment grade rating



WHY INVEST?



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

 $6 \text{kg ICE} \rightarrow 12 \text{kg P(HEV)}$

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

Precision thermal

Coolant

systems

Management systems



Transmissions

Sensing & Autonomous Driving System

Li-ion battery



AEROSPACE

We make aircraft lighter & more efficient

~10% net sales

MARKET DRIVERS

4.3% annual growth in passenger traffic

$10\% \rightarrow 50\%$ 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





THERMOPLASTIC COMPOSITES

For aerospace, automotive and oil & gas

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







HEALTHCARE

We improve comfort for others

~5% net sales





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.











ELECTRONICS

Beyond smartphones

~5% net sales

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

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

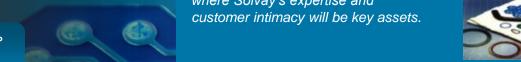
Innovation is key to anticipate the fast moves in this industry.

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











O-ring & sealing





Acoustic components









MARKET DRIVERS

Attractive market potential: GDP+

- · Request for more natural and bio based solutions
- · Growing customer base
- Enhanced performance and convenience
- · Demand for Personalized 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)

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

[2] EBITDA - Capex) / EBITDA



2/VExpanding healthcare

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

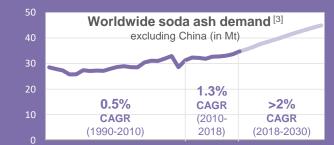
HOW WE WIN

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



1990 1994 1998 2002 2006 2010 2014 2018 2022 2026 2030 [3] Solvay internal estimate, based on external data (IHS, CFRA)



~15%



Resources & Environment

(flue gas tratment, mining, ...











PEROXIDES

Resilient demand & strong cash conversion

6% net sales

>25%

~85%

Cash flow growth [1]

(average

2016-2019)

Cash conversion [2]

(2019)

Operational cash flow after Capex and WC before payment of taxes and liabilities
 (EBITDA – Capex) / EBITDA



MARKET DRIVERS

Resilient & growing H₂0₂ & (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

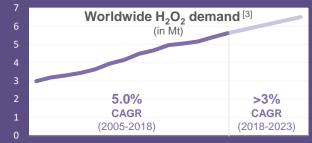
HOW WE WIN

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



2005 2007 2009 2011 2013 2015 2017 2019 2021 2023 [3] Source: Solvay figures based on external sources (IHS, ...)











OUR NEWLY REALIGNED BUSINESS SEGMENTS

Allow a differentiated management approach

Former **New Segments** Announced November 7, 2019 Segments **ADVANCED PERFORMANCE ADVANCED MATERIALS CHEMICALS FORMULATIONS MATERIALS CHEMICALS** SOLUTIONS **Specialty Polymers** Soda Ash & Derivatives **Composite Materials** Technology Solutions Peroxides **Special Chem** Silica Aroma Performance Coatis Rusvinyl



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 cashgenerating 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 GBUs



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



SOURCES FOR MEGATRENDS

- ~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)

