























Karim Hajjar Chief Financial Officer

9 Months 2019 Results & Strategy Review

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

Underlying EBITDA

9 months

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

€7.8B

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

> €**2.6**B -2.7% Y/Y organically

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

€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%

€601м

-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

ann

€313м

+[€]167M Y/Y from continued operations



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Q3

ADVANCED MATERIALS

9M 2019 PERFORMANCE

Net Sales +1.8% Y/Y organic



EBITDA Margin

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% EBITDA -10% Y/Y organic EBITDA Margin

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



Y/Y organic



EBITDA Margin

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





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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

 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.





9 Months 2019 Results & Strategy Review

Ilham Kadri Chief Executive Officer

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ACTIONS TAKEN SINCE MARCH 2019



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

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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



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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





November 7, 2019



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 FTSE4G00D Top 10 of 159 WBCSD



Our Leading Market Positions Are Supported By Megatrends

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OUR BUSINESSES ARE ALIGNED TO POWERFUL MEGATRENDS

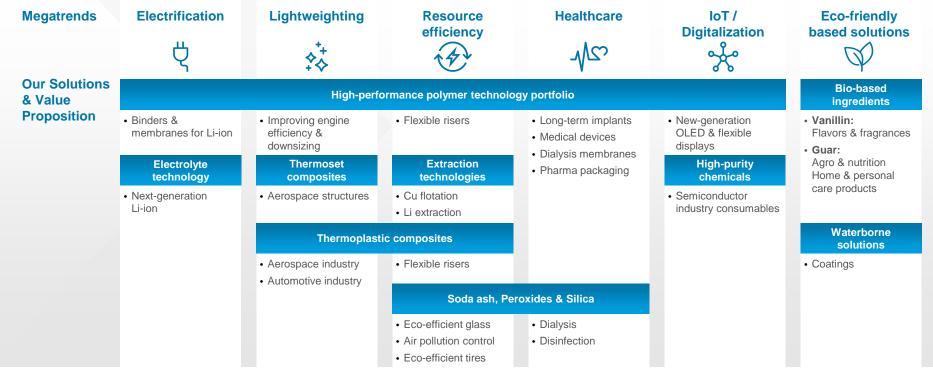
Megatrends Macro Drivers Growth Opportunity	Electrification Climate change Consumer trends • ~50% of global car production in EV or hybrid in 2030	 ef Responsible mobility Climate change Resource scarcity Climate change Resource scarcity Climate Climate change Resource scarcity Climate Climate Resource scarcity Climate Climate Resource Climate Resource Resource Climate Climate Resource Climate Climate Resource Climate Resource Resource Climate Resource Resou	Resource efficiency • Safeguard ecosystem • Resource scarcity • Climate change	efficiency Image: Comparison of the system ource scarcity mate change • Aging population eguard ecosystem ource scarcity mate change • Aging population er treatment to v at 4%+ CAGR mext 5 years um supply to base 6x by 2030 copper to add tpa rgy-efficient glass row at 4.5% • Global medical plastics to grow >6% in short-term	IoT / Digitalization . People connecting digitally . Digitally interconnected ecosystems . IoT sensors to grow >15% CAGR through 2023	Eco-friendly based solutions • Health and wellness awareness • Consumer trends • Resource scarcity • Organic shampoos to expand at 3.1%	
	• Global battery demand growth at 20%+ CAGR over the 2018-2030 period		 Lithium supply to increase 6x by 2030 and copper to add ~4mtpa Energy-efficient glass to grow at 4.5% CAGR by 2025 		 Display capacity to grow at 4% CAGR through 2023 Semiconductors market to grow at 6% CAGR to 2022 	 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	

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Data sources can be found in the appendix on slide 47

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WE HELP CUSTOMERS LOWER TOTAL COST OF OWNERSHIP & INCREASE SUSTAINABILITY



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		Ingh	margin	- ngn	
Soda Ash & Derivatives	#1 globally	-	-			
Peroxides	#1 globally	High	High	Predictable	Modium	
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		Volatile	Medium	
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.

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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







WIN



C

GROWTH

DIFFERENTIATED BUSINESS MANDATES

R	
RESILIENCE	



MATERIALS

Extend position as #1 pure-play advanced materials business

Accelerate growth

 Specialty · Composite Polymers Materials

~€**3.1**B 2019 FY NET SALES

2019 FY **EBITDA MARGIN**

~28%

CHEMICALS

Become #1 cash conversion chemical player

Deliver resilient cash

- Soda Ash & Silica
 - Derivatives Coatis
- Rusvinvl Peroxides

~27% ~€3.2B 2019 FY **EBITDA MARGIN** NET SALES

2019 FY

Optimize returns

~€**3.9**B

2019 FY

NET SALES

Novecare

Solutions

Unlock

value

SOLUTIONS

- Special Chem
- Technology Aroma Performance

~17% 2019 FY EBITDA MARGIN

Enabled by Solvay ONE operating model



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RESILIENCE

OPTIMIZE

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

CUSTOMERS **INNOVATION**

Realign organization around growth opportunities

battery platforms to accelerate customer wins

to cash optimization and digitalization

· Accelerate innovation with highest-growth customers

· Reallocate resources to thermoplastic composites and

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

Improve operational efficiencies through simplification, order

Research, digital and technical and e-commerce support platforms

Key levers

Upgrade key Prioritize account resources

INVESTMENT investments for

growth

record

Track

+7% EBITDA growth (organic 2014-2019)

~28% **EBITDA** margin (2019)

>25% Vitality index (2018)^[1]

Returns > WACC (average 2014-2019)



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GROWTH

CHEMICALS #1 cash conversion chemical player

Resilience

OPTIMIZE

World-leaders in essential chemicals to daily life

Mono-technology businesses

- Soda ash
- Peroxide
- Silica
- Phenol chain

Resource efficiency

Strategic intent Deliver resilient cash INNOVATION CUSTOMERS Focus on process innovation Leverage best-inclass global production assets 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

Track record

+9%

Cash flow growth (organic 2014-2019)

~79%

Cash conversion (2019)^[1]

~27% EBITDA margin (2019)

Returns at WACC (average 2014-2019)

] Cash conversion: (EBITDA – Capex) / EBITDA

.



GROWTH

SOLUTIONS Unlock value

Unique formulation & application expertise

Selective opportunities to grow

- Natural food ingredients
- Crop care
- Coatings
- Mining solutions

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Strategic intent **Optimize returns**

INNOVATION CUSTOMERS

· Innovate selectively in specialty niche markets • Fix shale oil & gas and other low-return businesses

INVESTMENT

Focus on ecofriendly solutions

Key levers

Digitalization, focus on key accounts

· Drive efficiency and address fragmented industrial footprint

Selective in niche opportunities

Returns < WACC (average 2014-2019)

Track

record

Flat

Net sales & EBITDA growth (average 2014-2019)

~17% **EBITDA** margin (2019)

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25

OPTIMIZE





SOLVAY ONE: NEW GROUP OPERATING MODEL TO WIN



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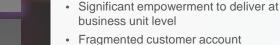


OPTIMIZE



WIN

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 Fragmented customer account management and culture

LEGACY SOLVAY

• Solvay + Rhodia + Cytec + ...

Multiple cultures

Decentralized

operating model

· 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



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RESILIENCE

OPTIMIZE

WIN

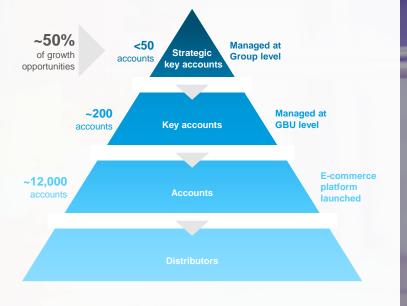
SOLVAY ONE

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





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SOLVAY ONE Disciplined centrally allocated resources

GROWTH

Resilience

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OPTIMIZE

28

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





G

SOLVAY ONE Cost reductions of €300 to €350M

GROWTH

Resilience



OPTIMIZE



WIN



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





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

PRODUCTIVITY MEASURES

€200M run-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



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SOLVAY ONE Cash management

GROWTH

R

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OPTIMIZE

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** cumulative by 2024

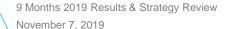
Order-to-cash program

- 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

WIN





Financial Commitments

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COMMITTED TO DELIVERING ENHANCED VALUE

GROWTH

RESILIENCE

OPTIMIZE

MID-TERM FINANCIAL TARGETS

	2019 estimate	2020 – 2024	
Underlying EBITDA growth	-2% to -3%	Mid-single digit / year average	GROWTH MATERIALS CHEMICALS SOLUTIONS
FCF conversion ^[1]	Around 22%	Exceed 30% by 2024	More than ~ [€] 150M FCF ^[2] run rate
ROCE	Around 8%	Exceed 11% by 2024	More than ~€300M EBIT run rate
2020 outlook to be commu	inicated in February 2020 nic basis (at constant forex and scope)	 FCF Conversion: FCF to Solv Non Consolidated Interests) FCF to Solvay shareholders 	re netting of dividends paid to



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OUR CAPITAL DEPLOYMENT PRIORITIES

	Disciplined	approach to	Capex	and	R&I
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Reduce liabilities (net financial debt and pensions)

Portfolio opportunities



Maintain stable and growing dividend



Maintain investment grade rating





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



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Appendix Strategy Review

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AUTOMOTIVE

We make cars more efficient

~15% net sales

1

Lightweighting

Electrification

36

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

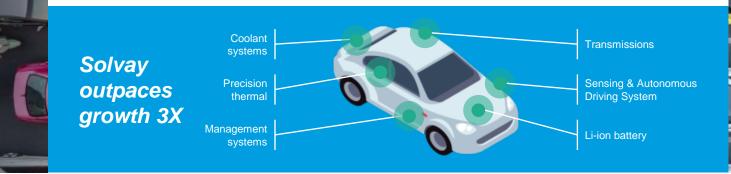
 Greater use of high-performance polymers to meet more critical applications

Deep customer relationships

- Strategic collaborations across OEMs
- · Alliance on next generation battery development

Leveraging core competencies

Knowledge to integrate design, materials and processes





Resource

efficiency

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

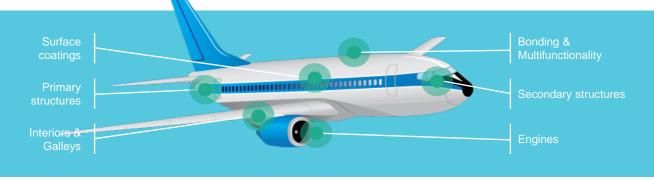
HOW WE WIN

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





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Resource

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





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Lightweighting

HEALTHCARE

We improve comfort for others

~5% net sales

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39

Eco-friend

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.





Hemodialysis membranes

Packaging









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 guality 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.







Chip testing pump

Vacuum pump sealing

O-ring & sealing

Cover films





Acoustic components

Wearable bands

Smart sensor packaging





40

Å IoT

Digitalization

HOME & PERSONAL CARE

Performant & convenient

~10% net sales

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Eco-friendly

solutions

41

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)

Resource

efficiency

42

~75% Cash conversion^[2]

 Δh

Expanding

healthcare

 Operational cash flow after Capex and WC before payment of taxes and liabilities
 <u>EBITD</u>A – Capex) / EBITDA

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

Worldwide soda ash demand [3]

excluding China (in Mt)

1990 1994 1998 2002 2006 2010 2014 2018 2022 2026 2030

[3] Solvay internal estimate, based on external data (IHS, CFRA)

1.3%

CAGR

(2010-

2018)

>2%

CAGR

(2018 - 2030)

• Lithium extraction to fuel (EV) batteries

0.5%

CAGR

(1990-2010)



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



(flue gas tratment, mining, ...





PEROXIDES

Resilient demand & strong cash conversion

6% net sales

>25% Cash flow growth^[1] (average 2016-2019) ~**85**% Cash conversion^[2]

 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

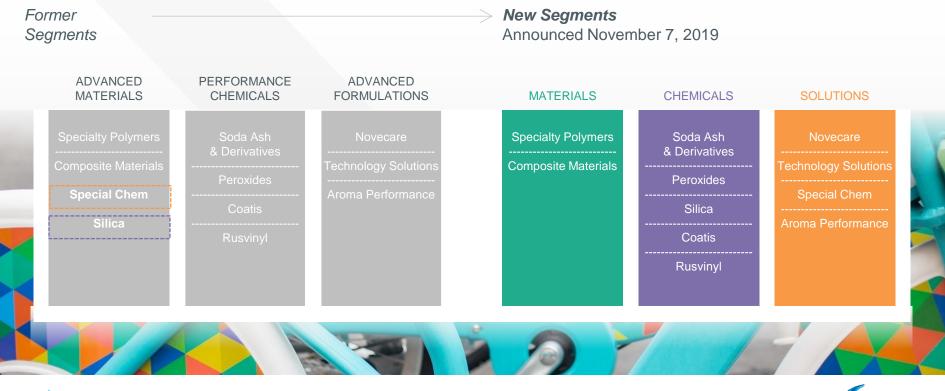


[4] PO use in the following applications: Consumer goods, Industrial & chemicals, Construction and Automotive & Aerospace



OUR NEWLY REALIGNED BUSINESS SEGMENTS

Allow a differentiated management approach





9 Months 2019 Results & Strategy Review

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



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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



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SOURCES FOR MEGATRENDS

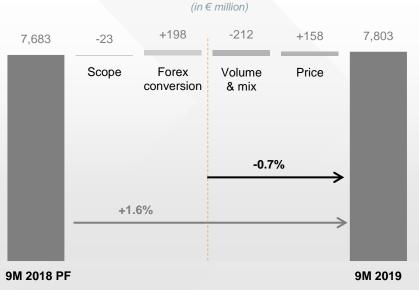
- ~50% of global car production in EV or hybrid in 2030 (Source: Roland Berger)
- Global battery demand growth at 20%+ CAGR over the 2018-2030 period (Source: World Material Forum, Global Battery Alliance)
- · Composites in aerospace to grow 2x in next 10 years (Source: Bain BSR Composites)
- Composites 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)



Appendix Q3 & 9M results

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NET SALES DOWN -0.7% ORGANICALLY IN 9M HIGHER PRICES COULDN'T OFFSET LOWER VOLUMES



Net sales

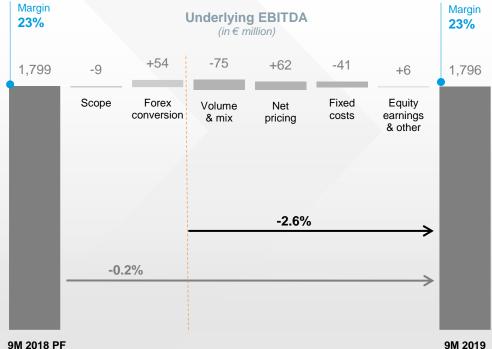
- → Volumes down -2.8%
 - Further to the automotive, electronics and oil & gas markets deterioration
- → Prices up +2.1%
 - Benefiting from transactional forex effects
 - Supported by prices in Soda Ash and Peroxides

→ Forex supportive

Stronger US dollar mainly



UNDERLYING EBITDA DOWN -2.6% ORGANICALLY AT 9M NET PRICING COULDN'T OFFSETS VOLUME DECREASE



- → Volume impact of -4.2%
- → Net pricing impact +3.4%
 - Benefiting from transactional forex effects
 - Price increases helped compensating for higher raw material and energy and destocking effects
- → Fixed cost impact of -2.3%
 - Investments to support growth
 - Stable fixed costs in Q3 thanks to efficiency measures
- → Net effect from one-time events of -0.6%

PERFORMANCE CHEMICALS GROWTH PARTLY COMPENSATES DECLINE IN ADVANCED SEGMENTS

organic growth **-8%**

Advanced Materials

- Aerospace volumes grew firmly in the double digits while Automotive sales down
- Electronics sales down on lack of investments in the semiconductor fabs and softness of smart devices
- Excellence measures only partially offset higher variable costs (Fluorspar)
- Fixed costs up to support future growth

9M 2019 EBITDA €1,796 million 30%

organic growth

49%

organic growth **-10%**

Advanced Formulations

- Higher prices at Aroma Performance
- Oil & gas business down on lower demand and customer pressure on costs
- Lower mining volumes despite slightly higher prices
- Net pricing positive

Performance Chemicals

- Higher pricing & healthy demand
- Pricing up in soda ash and peroxides
- Coatis sales down

21%

- Prices more than offset higher raw material and energy costs
- Strong contribution Rusvinyl

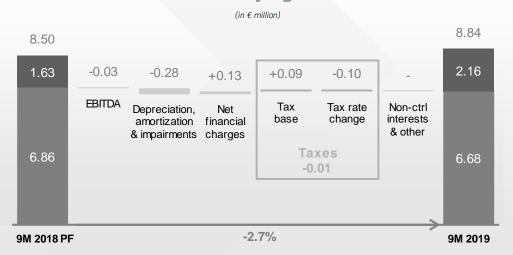
Corporate & Business Services included in EBITDA and excluded from the pie chart as the contribution is negative



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9M EPS SUPPORTED BY HIGHER CONTRIBUTION FROM DISCONTINUED OPERATIONS



Underlying EPS

→ Underlying EPS from continuing operations down -2.7% in 9M

- Stable EBITDA
- Lower net financial charges
- Higher depreciation & amortization

→ Total underlying EPS up 4%

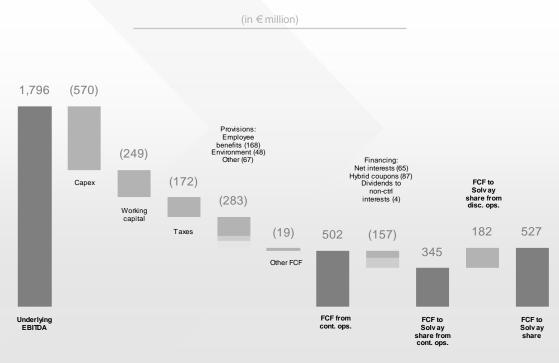
- Strong contribution form discontinued operations
- One-time sale of carbon credits for ~€30 million



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FREE CASH FLOW GENERATION IMPROVED

9M CASH GENERATION



- → FCF to Solvay shareholders from continuing operations in 9M at €345 million
 - Strong Q3 delivery with €313 million
 - Focus on strict working capital management.
 - Capex discipline maintained
- → Total FCF to Solvay shareholders in 9M at €527 million, with €182 million from discontinued operations



UNDERLYING LEVERAGE RATIO MAINTAINED AT 2.1X

UNDERLYING NET FINANCIAL DEBT (in € million) Leverage Leverage 2.1x 2.1x (5,570)(5,538)527 (81) (12)(79)(387)Changes In/outflow Hybrid Remeasu in scope from M&A rements bonds & other FCF to Dividends (1,800) (forex) Hybrid Solvay to Solvay sharesharebonds (2,500) holders holders **Operational** deleveraging 140 IFRS debt (3,770) (3.038)

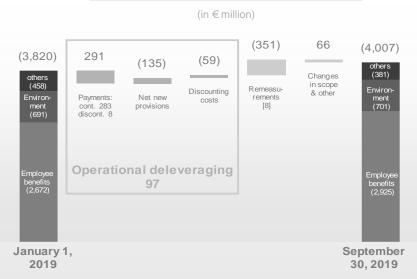
January 1, 2019

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September 30, 2019

- → Underlying net financial debt slightly up at year-to-date on stronger US\$ and €(81) M&A outflows
- → Operational deleveraging of €140m
- → Underlying leverage ratio stable at 2.1x





- → Negative impact from remeasurements due to decrease of discount rates, partly offset by the return of plan assets
- → Operational deleveraging of €97 million, mostly on employee benefits, for €70 million



EFFICIENT CAPITAL STRUCTURE DELEVERAGING CONTINUES

Underlying financial debt^[1] evolution in € billion



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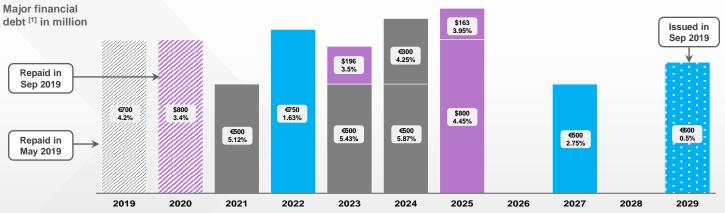
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[1] Underlying debt includes perpetual hybrid bonds (considered as equity under IFRS)

] Net debt / underlying EBITDA of last 12 months

] Impact from IFRS16 implementation

BALANCED MATURITIES ALLOWING FLEXIBILITY DELEVERAGING AND REDUCED OF COST OF DEBT



Period	December 31, 2018			September 30, 2019			Variation over the period		
	Face value	Avg maturity	Avg cost	Face value	Avg maturity	Avg cost	Face value	Avg maturity	Avg cost
EUR bonds	1,250	6.0	2.08%	1,850	6.8	1.56%	↑ +600	↑ +0.8	↓ -0.5
EUR perpetual hybrid bonds ^[2]	2,500	3.3	4.97%	1,800 ^[4]	4.0	5.27%	↓ -700	↑ +0.7	↑ +0.3
USD bonds	1,714 ^[3]	4.6	3.88%	1,063 ^[3]	5.7	4.22%	↓ -651	↑ +1.1	↑ +0.3
Total major debt	5,464	4.3	3.97%	4,713	5.4	3.58%	↓ -751	↑ +1.1	↓ -0.4
	in € million	in years	in %	in € million	in years	in %	in € million	in years	in % points



November 7, 2019

[2] At first call date
 [3] US\$1,160 million, after early repayment of US\$800 million on Sep 30, 2019

[4] Solvay exercised the first call option on the €700 million hybrid bond on May 12, 2019

Major debt only, excluding cost of currency swaps, including a new issuance of €600 million on Sep 6, 2019



2019 P&L CONSIDERATIONS



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UNDERLYING EBITDA

EBITDA expected at -2% to -3% organically compared to €2,330 million pro forma in 2018

- Except for discontinued operations, business scope effects are expected to be small in 2019
- One-time gains in 2018 consisted mainly of €23 million synergies on Cytec postretirement benefits, booked in Q2 2018 (mostly in Advanced Materials)

FCF TO SOLVAY SHAREHOLDERS

€∭

To be at around €490 million from continuing operations

- Total FCF generation will drive minimum €300 million net financial debt deleveraging
- Capex discipline maintained, close to depreciation
- Cash-out for provisions are expected temporarily higher than the €400 million run rate, with higher restructuring cash-out as the simplification plan unfolds. Provisions cash-out includes continued deleveraging of pension liabilities
- Tax cash-out expected to increase, linked to phasing
- Cash financial expenses expected largely flat
- Working capital needs will depend on demand conditions at year end 2019, compared to a softer market conditions at year end 2018



Mostly exposed to the U.S. dollar, with the main sensitivities per US\$/€0.10 change:

- EBITDA sensitivity of ~€(120) million based on average 2018 rate in 2018 of US\$/€1.18
 - ~2/3 on conversion
 - ~1/3 on transaction, the latter being mostly hedged.
- Net debt sensitivity of ~€120 million based on the end 2018 rate of US\$/€1.15



IFRS 16 AFFECTS EBITDA, P&L & DEBT COMPARABLES

• IFRS 16 implementation

- → Capitalizes leases, previously considered as operating leases
- → Taking effect for 2019 accounts
- → Solvay is opting for a modified retrospective implementation of 2018, instead of a full restatement
- Previous year figures to be presented pro forma
 - → EBITDA, depreciation, financial charges, capex and net financial debt increase
 - → Profit for the period decreases slightly
 - → Free cash flow to Solvay shareholders remains unchanged

2018 key figures (in € m)	published	IFRS 16	pro forma
EBITDA	2,230	+100	2,330
Advanced Materials	1,197	+28	1,225
Advanced Formulations	521	+12	533
Performance Chemicals	729	+32	761
Corporate & Business Services	(218)	+29	(189)
EBITDA margin	22%		23%
Depreciation, amortization & impairments	(684)	-92	(777)
Net financial charges	(326)	-16	(342)
Profit for the period before taxes	1,220	-8	1,212
Income taxes	(305)	+2	(303)
Profit for the period from continuing operations	915	-6	909
Basic earnings per share (in €)	10.57		10.51
Capex from continuing operations	(711)	-83	(794)
Free cash flow from continuing operations	830	+16	846
Free cash flow to Solvay shareholders from continuing operations	566	-	566
Net working capital	1,550	+7	1,557
Net financial debt	(5,105)	-433	(5,538)
Leverage ratio	2.0		2.4
CFROI	6.9%		6.8%



IMPAIRMENT ON NOVECARE'S OIL AND GAS ASSETS

Novecare Oil & Gas

- Comprises the Chemlogics and Rhodia businesses
- Operates in the unconventional oil & gas industry in North America, primarily used in the hydrofracking process

Position impacted by two developments

- A marked decline in more sustainable and higher-value guar-based formulations as customers opted for lower cost solutions over Solvay's high-performing solutions
- Higher pricing pressure and loss of market share as competitors entered the space. The lower oil and natural gas prices put more pressure on the value chain.

Actions taken

- Management changes
- Adapting cost structures to new environment
- Recovery plans to operate in the more competitive landscape

Outcome of review

- Impairment of €822 million pre-tax and €656 million after-tax has been taken in the Advanced Formulations segment
 - €756 million for Goodwill
 - €66 million for Intangible assets



- 100



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