

Solid development despite headwinds

Roadshow Presentation

Innovation and sustainability driving growth

covestro

Covestro key investment highlights



Above GDP volume growth

driven by innovation and sustainability trends, also embodied by non-financial targets



Leading and defendable global industry positions

as innovation and cost leader



More than half of sales generated by resilient businesses

as global leader in highly attractive niches



Positioned for profitable growth

through debottlenecking and world-scale investments as well as new €350m efficiency program



Attractive growth fuels solid cash generation

with use of cash focused on shareholder value

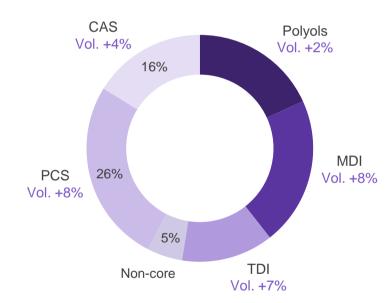
Global leader in high-tech material solutions

Covestro at a glance



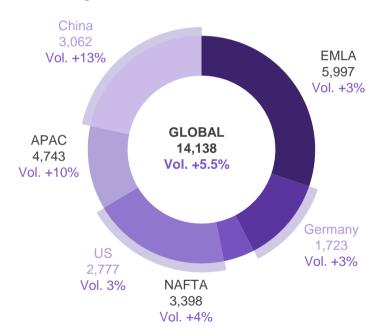
Sales split by segments

% of 2017 Group sales Core volume growth, CAGR 2015-2017



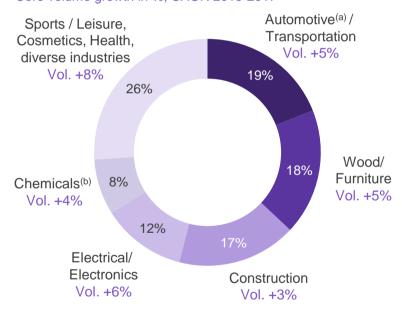
Sales split by regions

2017 Group sales in € million Core volume growth in %, CAGR 2015-2017



Sales split by end-markets

% of 2017 Group sales Core volume growth in %, CAGR 2015-2017



~5 million tons
PUR and PCS nameplate capacity

Employees: ~16,000 FTEs

Headquarters in Leverkusen, Germany

From €3.4bn EBITDA to €1.8bn FOCF

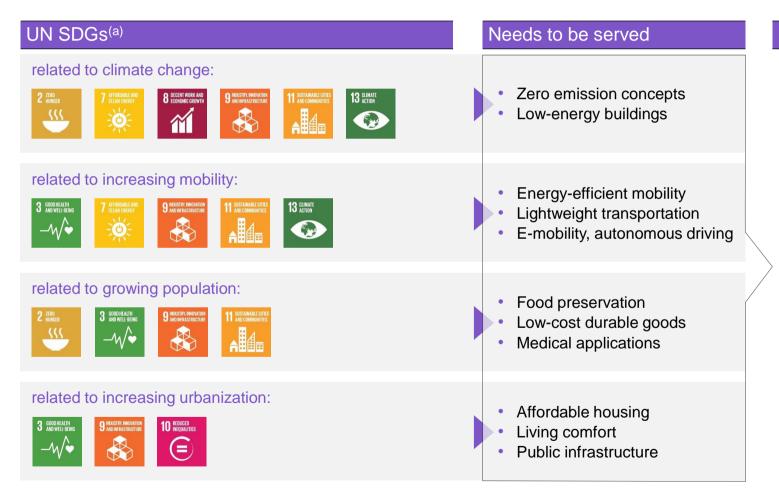
High cash conversion

Notes:

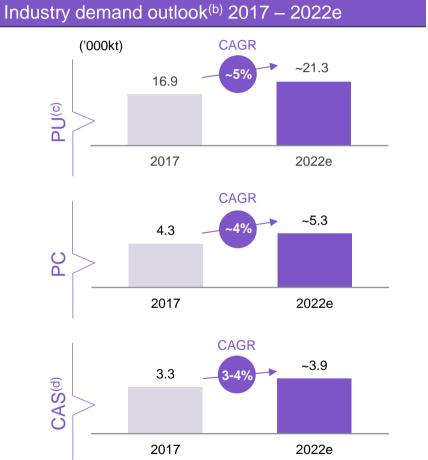
Higher global GDP expectation leads to higher industry growth



Structural growth drivers



Notes:



Non-financial ambition supports growth strategy

Covestro non-financial targets 2025





Our R&D project portfolio is aligned with UN Sustainable Development Goals





100% of suppliers compliant with our sustainability requirements





Reduce specific greenhouse gas emissions by 50% by 2025





Ten million people in underserved markets benefit from our business solutions





Getting the most out of carbon



Product innovation as long-term growth driver



Addressing ever-changing customer needs for new material solutions

Need	Overall market	Relevant market	2015-2017	Covestro solutions	
More durable and eco- nomical wind power plants	Energy consumption CAGR: ~3%	Offshore wind energy CAGR: ~19%	Covestro CAGR: 29%	Novel materials for wind power plants: PU resins for rotor blades, PU-based coatings, elastomers for sea cables	
Energy- and cost-efficient buildings	Construction CAGR: ~2%	Polyurethane insulation CAGR: ~5%	Covestro CAGR: 3%	Raw materials for PU foam (rigid and in spray form) enabling highly efficient insulation	
Reduction of high energy consumption of lighting	Luminaire CAGR: ~3%	Luminaire LED CAGR: ~12%	Covestro CAGR: 122%	Polycarbonates in LED lenses, light guides, heat sinks	
Eco-friendly produced furniture	Coating ind. furniture CAGR: ~3%	Water-based ind. furniture CAGR: ~5%	Covestro CAGR: 10%	New bio-based hardener for water-based wood coatings	
Sustainable and functional fashion	Textile coating CAGR: ~6%	Relevant textile coating CAGR: ~11%	Covestro CAGR: 7%	Waterborne, solvent-free materials for functionalized textiles in diverse applications	
More and better cooling devices	Refrigerators CAGR: ~3%	Refrigeration insulation foam CAGR: ~8%	Covestro CAGR: 12%	Raw materials for particularly effective insulating foams: 40% smaller pores allow up to 10% better insulation	
Reduced weight and increased comfort	Global car production CAGR: ~3%	Relevant car applications CAGR: ~5%	Covestro CAGR: 7%	Attractive alternatives to conventional materials: polymers to replace glass and metal	

Global leader across its entire portfolio

Production capacities and world-wide industry positions







TDI

Others

24%

Hanwha o

Others

48%

HUNTSMAN

Polyether polyols



#1 in Polycarbonates

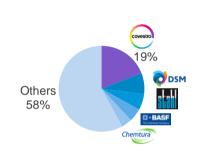
PC

#1 in Coatings, Adhesives, Specialties





Polyurethane dispersions



Top 5: 90%

-BASF

MDI

2022e: Top 5 share expected to remain stable at 90%

Top 5: 76%

2022e: Top 5 share 2022e: Further expected to remain stable at 76%

> Note: Source:

30%

-BASF

Top 5: 52%

13%

consolidation expected. especially in China

Top 5: 81%

2022e: Top 5 expected to account for ~70%

Top 5: 90%

2022e: Industry structure expected to remain stable

Top 5: 42%

2022e: Industry structure expected to remain stable

Covestro^(a)

Global #3

1,460kt

6 sites

Global #1

750kt

3 sites

Global #2

1,330kt

9 sites

Global #1

1,480kt

5 sites

Entry requirements

- Economies of scope
- Formulation and application know-how
- Close customer relationships and long-term **R&D** collaborations
- Operation of global business platform

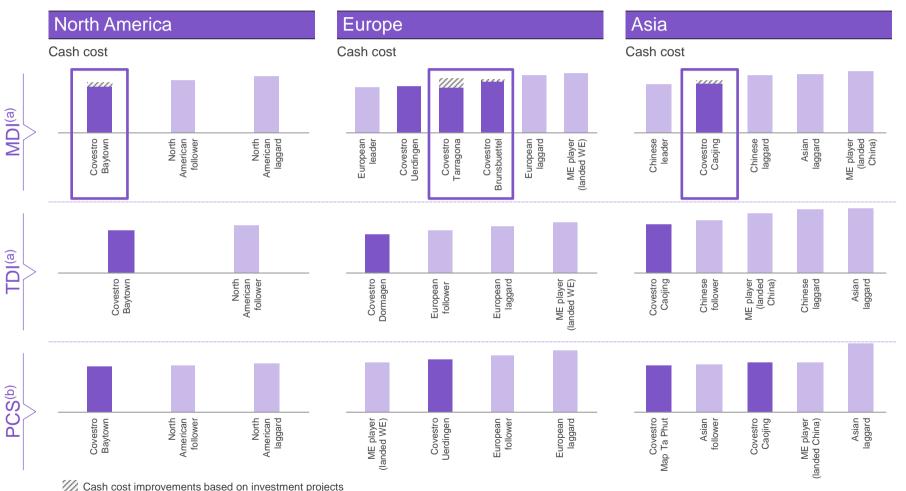
Q3 2018 | IR Roadshow Presentation

(a) Based on total nameplate capacity at year end 2017 relative to competitors Covestro estimates

Leading cost positions across business segments and regions

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Cash cost positions



Notes:

Highlights

- Covestro is one of the low-cost producers in MDI
- Capex for ongoing MDI expansion projects reflected by significant cash cost improvements
- MDI industry with relatively flat cost curves reflected by cash cost advantage of ~20% between the best and the average of least competitive 5 plants
- Covestro is the global cost leader in TDI and PCS
- Covestro cash cost advantage of ~50% in TDI and ~30% in PCS compared to the average of least competitive 5 plants

IR Roadshow Presentation

Q3 2018 |

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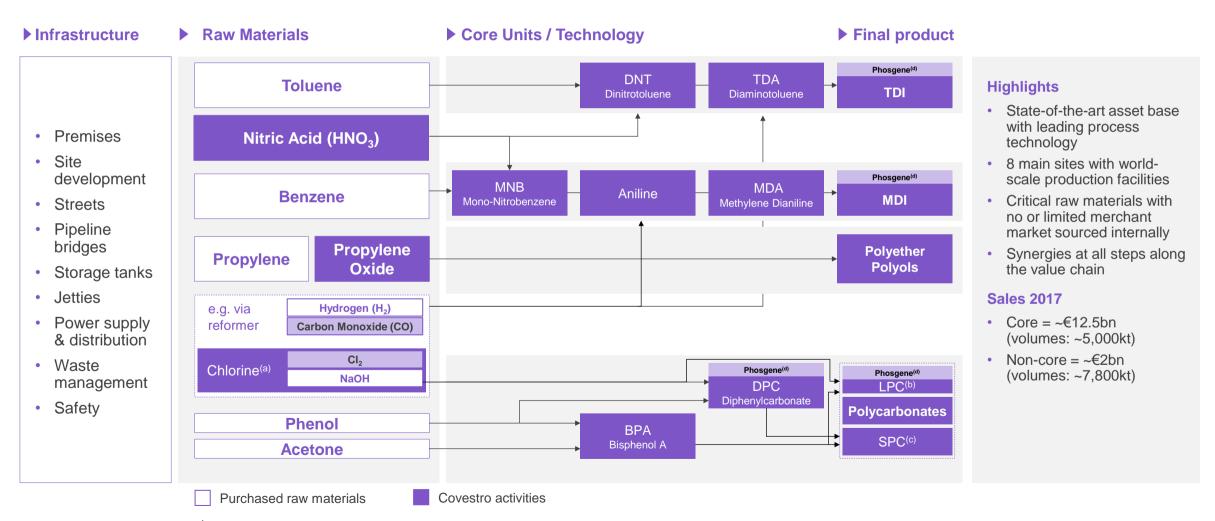
⁽a) Cost of production based on total raw material costs less co-product credits, variable and fixed conversion costs at 100% utilization based on nameplate capacity for FY 2017

⁽b) FY2017 Cash cost ex gate, 82% utilization rate for all plants based on nameplate capacity; integrated players are shown without any margins for BPA. phenol, acetone, etc.

Synergies in scale, process technology and chemical know-how



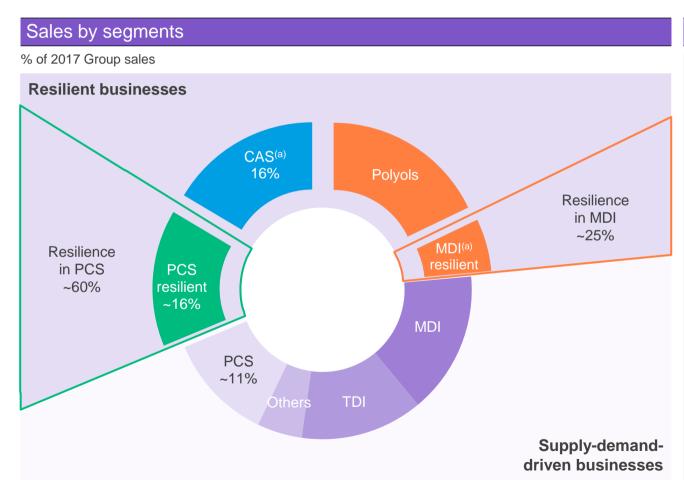
One chemical backbone across all segments



Notes:

Over 50% of sales generated with resilient businesses

Product portfolio overview



- CAS business is resilient in sales and earnings due to characteristics of niche ingredient chemicals
- Resilient portion of PCS business is driven by high-end industry applications e.g. automotive, electrical, healthcare
- Polyols business is resilient in sales and earnings as demonstrated over the last decade
- Resilient portion of MDI business consists of special grades for downstream products that require formulation know-how and customer interaction along the value chain

Stable margins driven by differentiated product portfolio

CAS at a glance





Products based primarily on 6 monomers



Customers in 10+ high-end industries



Core volume CAGR in 2015-2017



Sales 2017^(a)



FOCF 2017^(a)





Ingredients for surface coatings



Ingredients for adhesives and sealants



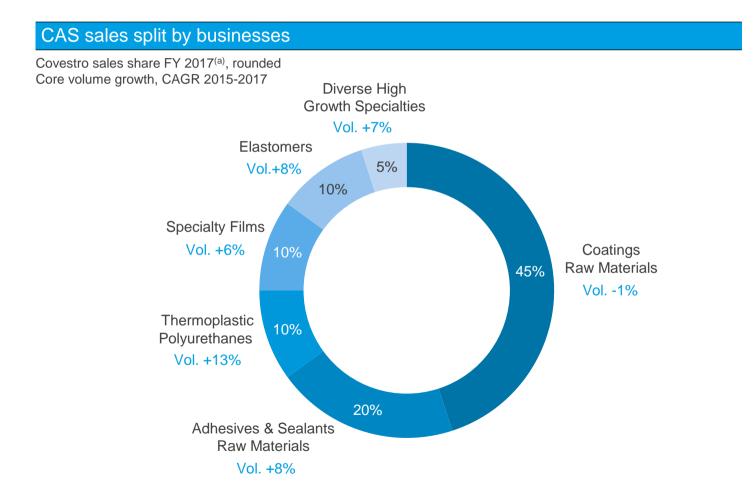




CAS demonstrated solid underlying growth of ~4% p.a.



High Growth Specialties businesses



- Adjusted core volume growth of 3.7% CAGR in 2015-2017^(a)
- Growth driven by all businesses except coatings raw materials
- High Growth Specialties businesses generate ~35% of sales: Thermoplastic Polyurethanes (TPU), Specialty Films and Elastomers
- Coatings raw materials businesses burdened by weak end markets like marine, oil and gas as well as refinishing

Strategic focus on increasing resilience

PCS at a glance





PC grades for broadest offering



Producer and inventor of PC globally^(a)



Core volume CAGR in 2015-2017



Sales 2017



FOCF 2017













Mobility e.g. exterior

Electronics e.g. robot housing

Consumer electronics e.g. adapter

Electrical
e.g. LED street
lamp

Mobility e.g. charging station

Healthcare e.g. drug delivery

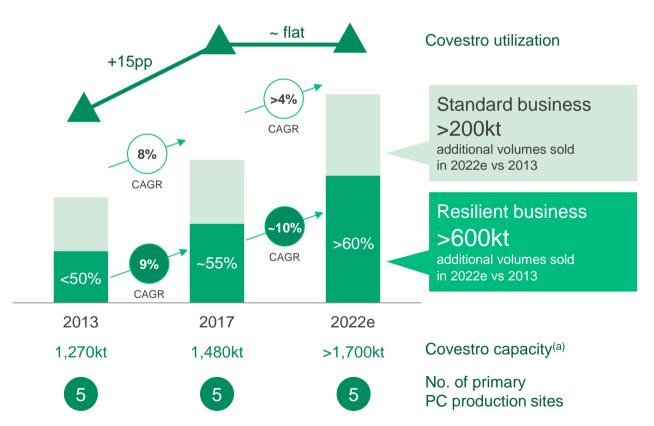
Growing share of resilient business to 65% long term

PCS product portfolio



Development of resilient portion of PCS volumes

Covestro sales volumes in kt



Covestro highlights

Product portfolio improvement

- Goal to increase resilient portion of PC volumes to 65% long term
- Capacity growth and increasing share of resilient business result in significantly higher volumes in differentiated, high-requirement applications
- Structural improvement of average contribution margin

Higher asset utilization

- Volume leverage through significant improvement of capacity utilization by ~15 percentage points
- Significantly higher output from unchanged number of primary production sites

Almost half of sales in resilient businesses

PUR at a glance





Polyols grades for differentiation



Producer and inventor of PU globally^(a)



Core volume CAGR in 2015-2017



Sales 2017^(b)



FOCF 2017^(b)













Cold chain e.g. refrigerator

Construction e.g. metal panel

Cost leadership
e.g. process
technology

Comforte.g. furniture
upholstery

Automotive e.g. instrument panel

Sustainability e.g. CO₂-based polyether polyols

Polyether polyols demonstrate inherently stable margins



PUR resilient business

Spread development 2005 - 2017 Spreads from around 800US\$/t to 1,000US\$/t 2006 2007 2008 2009 2010 2012 2013 2014 2015 2017 Global polyols price^(a) Global propylene price^(a)

Notes:

- Resilient industry margins over the last decade reflective of overall Covestro polyether polyols profitability
- Single capacity addition with little influence on supply and demand dynamics
- Spreads not materially impacted by high volatility of propylene prices, particularly during the financial crisis
- Propylene oxide supply and demand dynamics create local pricing opportunities in the short term

Resilient portion of MDI business accounts for ~25% of sales

PUR resilient business

Resilient MDI applications^(a)

Resilient share of MDI volumes has ~20% higher gross margin (2006-2017 average)

Joint sales of polyols and MDI e.g. CASE(b), automotive, construction, appliance

Specialty or downstream products e.g. selected MDI grades (prepolymers, blends, monomeric)

Formulations as market access requirement e.g. automotive, appliances

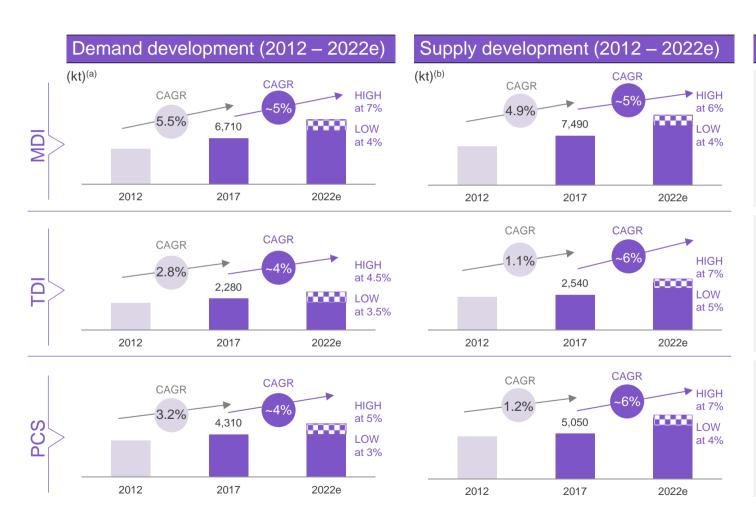
Strong interaction with customers along value chain joint projects for e.g. window frames, wind mills

Large-scale innovation

- Focus on three large-scale innovation hubs in Pittsburgh, Leverkusen and Shanghai
 - Formulation know-how and tailor-made systems
 - Full scope of application development
 - Cost-efficient business structures
- Centralized systems hubs in Europe and North America benefit from economies of scale and cost-efficient feed from world-scale MDI and polyether polyols assets
- Systems business in Middle East and APAC handled by local system houses

Above GDP growth supports solid industry margin outlook

Historical industry development and outlook



Industry highlights

- Budgeted demand growth of ~5% may be conservative given strong demand trends
- Structurally sound demand for the foreseeable future, driven by solid GDP growth and substitution trend
- Major additions expected until 2022e: BASF, Covestro, Dow/Sadara, SLIC, Wanhua
- Industry expected to move to a balanced situation and margins expected to normalize by end of 2018e
- Major additions expected until 2022e: BASF, Dow/Sadara. Wanhua
- Possible industry consolidation in APAC
- Electric mobility and autonomous driving could accelerate demand growth above base case
- Capacity additions of new entrants announced for end of forecasting period with high uncertainties
- Major additions expected until 2022e: Covestro, Heng Yuan, Lotte, Luxi, Zhetie Dafeng, SABIC-Sinopec, Wanhua, ZPC

(b) Based on historical and announced future nameplate capacities Covestro estimates

Industry constantly witnesses delays and cancellations

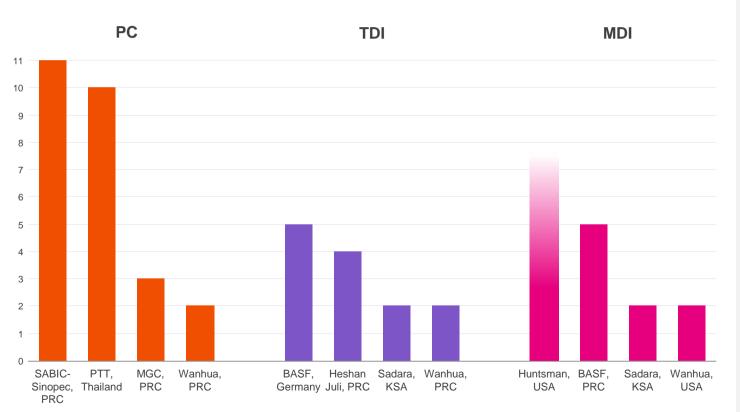
Covestro estimates

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Examples of supply delays

Delays between initially announced start-up date and actual production start

in number of years

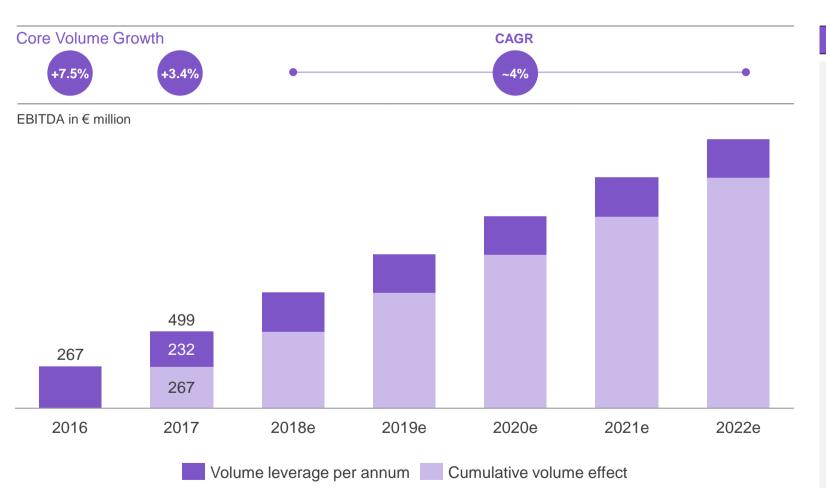


- Long lead time for investments of up to a decade in PC, TDI and MDI makes delays the norm
- No off-the-shelf but individual plant designs prolong planning and construction process
- Highly sophisticated chemical processes requires long ramp-up times
- Long investment cycles increase chance of cancelations

Cumulative EBITDA volume leverage of >€1bn in next 5 years



Core volume growth contribution to EBITDA

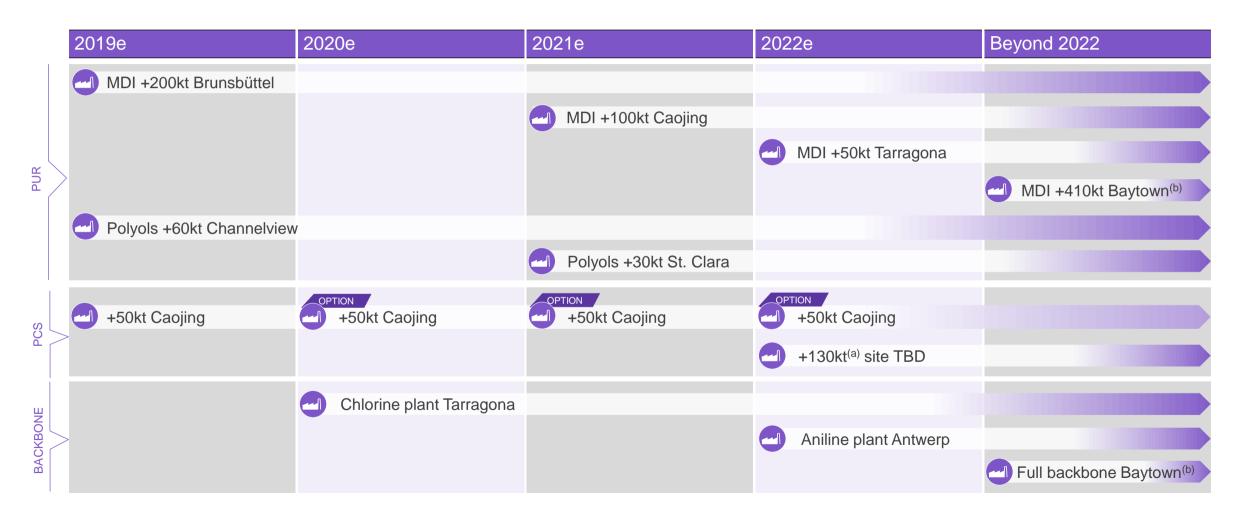


- ~4% average core volume growth expected in next 5 years
- Expected €200-300m EBITDA contribution per year until 2022e, based on a normalized volume leverage
- In sum, more than €1bn of additional EBITDA expected in the next 5 years to stem from volume leverage only

Growth through debottlenecking projects and world-scale plant



Covestro planned capacity additions



Positioning for growth with new capacity additions

Investment highlights of long-term MDI capex program



- Attractive MDI industry with above GDP growth requires new world-scale capacities
- Satisfy global demand and accompany industry growth with MDI projects in Brunsbüttel, Caojing, Tarragona, Antwerp and Baytown
- Increase Covestro global MDI nameplate capacity of 1,470kt by 2018e to 2,230kt by 2024e
- Extend leadership positions in the industry to become global #2 and US #1 by 2024e^(a)
- Improve cash cost position worldwide for long-term competitiveness by investing in full chemical chain including precursors and operating world-scale units on existing sites
- Deliver attractive returns with mid-term debottlenecking and worldscale investment into long-running assets

Highlights of new US world-scale plant

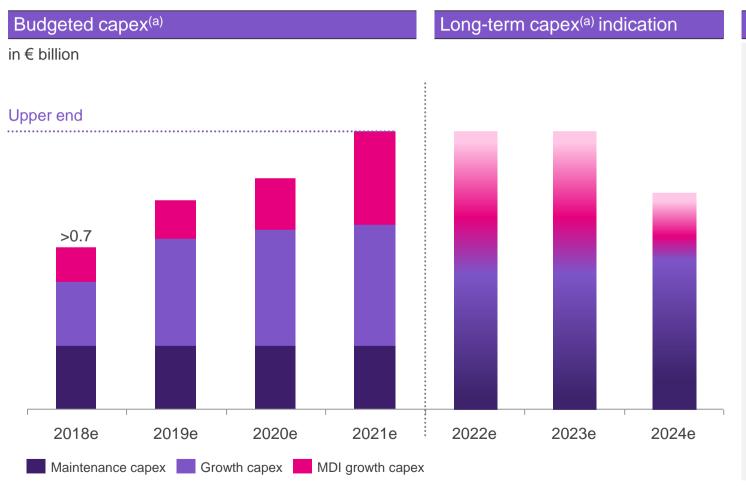
- Investment of around €1.5bn in new, highly efficient world-scale 500kt MDI plant on existing site
- Investment includes complete chemical backbone
- New plant to expand US capacity from currently 330kt p.a. to 740kt p.a. by 2024e
- Replacement of 90kt sub-scale plant, in operation since 1974, to extend leading cash cost position in NAFTA



Investment into organic growth to deliver attractive returns



Covestro Group capex^(a) development 2018e–2024e



Highlights

Phasing of capex for MDI and precursors

- 2018e-2022e: ~€0.2bn for chlorine plant and debottlenecking in Tarragona
- 2019e-2022e: ~€0.3bn for aniline plant in Antwerp
- 2021e-2024e: ~€1.5bn for fully integrated MDI train in Baytown

Growth capex for PCS, Polyols and TDI

Accompany industry growth by adding new capacities

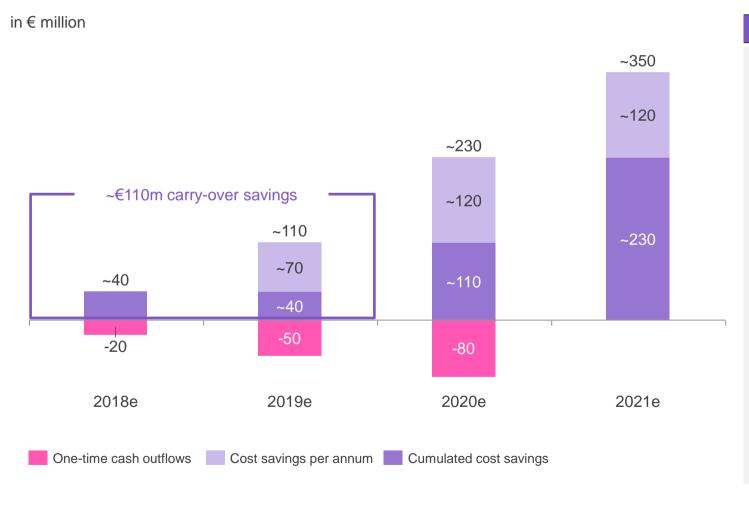
Maintenance capex at ~€250 – 300m p.a.

Based on risk assessment

Continued efficiency focus: "Perspective" complements "PEP"



Expected cumulated savings and one-time cash outflows



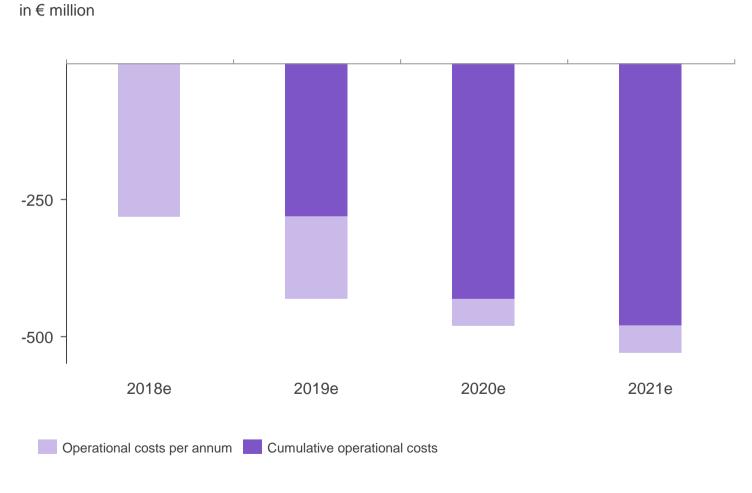
Note:

- Cumulated savings of around €350m planned until end of 2021e
- Implemented "PEP" program expected to deliver carry-over savings of ~€110m by 2019e
- New "Perspective" program expected to deliver additional savings of ~€240m by 2021e
- Reduction of ~900 FTEs globally, to be carried out by way of socially acceptable solutions

Counterbalancing capex-driven cost increases



Cumulative additional operational costs, net of savings from efficiency programs

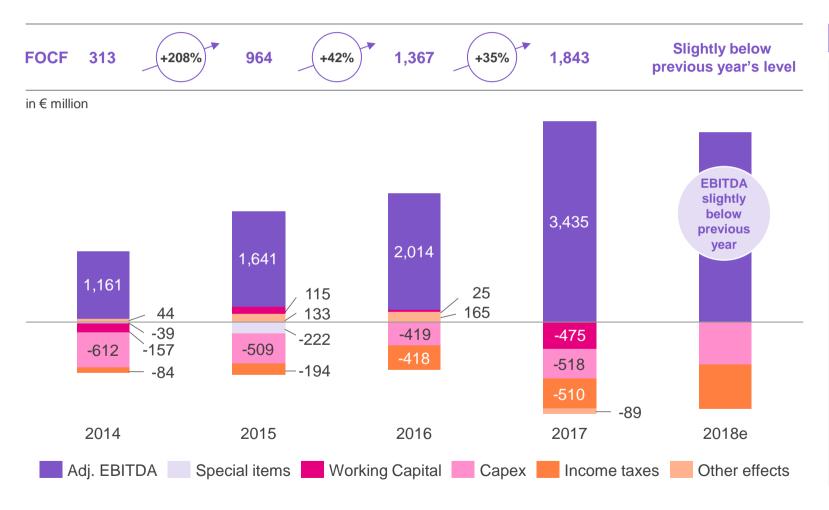


- Long-term growth strategy triggers higher operational costs mainly in production and technology (e.g. engineering expertise)
- Additionally, inflation-related costs have to be counterbalanced (e.g. salary increases)
- Savings from "Perspective" to limit annual additional operational cost increases
- Illustration of net effect shown in "Other items" of the Covestro EBITDA bridge, excluding one-time items

Updated FOCF target for FY 2018

Development of FOCF components





- Sustainably high EBITDA to FOCF conversion rate
- Working capital to sales ratio in the target range of 15-17%, with limited expected impact on FY 2018e
- Capex above €700m up Y/Y in order to secure production reliability
- Cash tax rate expected slightly below estimated P&L tax rate of 25-27% for FY 2018e

Decisions based on best value for shareholders

Use of free cash



Dividend policy



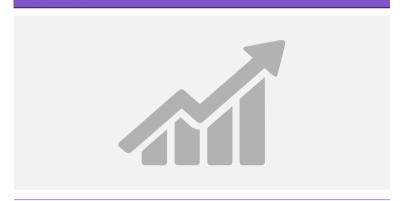
- Progressive dividend policy: increase or keep at least stable
- FY 2017 dividend of €2.20 per share, 63% above prior year
- Total payout amount of €436m in Q2 2018 for FY 2017

Return to shareholders



- Share buyback for up to €1.5bn^(a) in execution, with completion targeted by mid 2019
- Since Q4 2017, ~14m shares bought back for a total amount of €1.1bn(b)
- Policy to return excess cash either as share buyback or special dividend

Portfolio



- Disciplined and focused approach
- Acquisitions with focus on high margin and differentiated business areas
- Ongoing portfolio optimization including evaluation of potential disposals

Note:



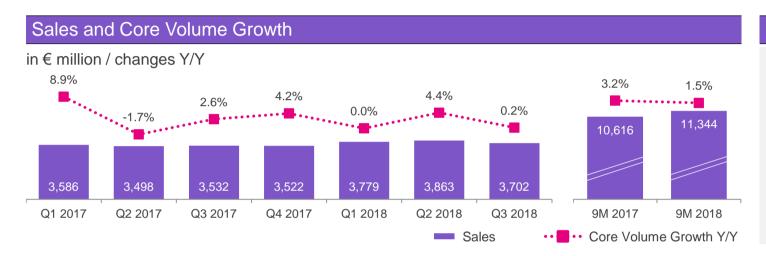
Financial Highlights

Q3 2018

Covestro – solid results despite headwinds

Group results – Q3 2018 Highlights





Highlights

- Stable core volumes in Q3 2018 due to constrained product availability
- Sales in Q3 2018 increased by +4.8% Y/Y driven by price (+3.1%) and volume (+3.0%)

EBITDA and Margin in € million / margin in percent 25.6% 24.1% 28.1% 25.0% 25.5% 24.2% 24.4% 23.6% 23.2% 2,907 2,556 846 879 1.063 859 848 862 985 Q4 2017 Q1 2017 Q2 2017 Q3 2017 Q1 2018 Q2 2018 Q3 2018 9M 2017 9M 2018 EBITDA Margin EBITDA

- Stable EBITDA in Q3 2018 despite negative pricing delta in PUR
- EBITDA margin on continuously high level, excluding one-time items and TDI fly-up contribution at c.19% vs. c.21% in Q3 2017

Polyurethanes – normalizing earnings

PUR segment results – Q3 2018 Highlights





Highlights

- Decline in core volumes by -2.0% Y/Y, driven by constrained product availability in Polyols and MDI
- Slight sales decrease by -1.2% Y/Y driven by price (-0.5%) and FX impact (-0.8%)
- Stable sales volume (+0.1%) Y/Y

EBITDA and Margin

in € million / margin in percent



- EBITDA decreased by -21.5% Y/Y due to negative pricing delta and outage-related expenses
- Underlying EBITDA margin excluding TDI fly-up contribution at c.16% vs. c.22% in Q3 2017

Polycarbonates – driven by price, volume and product mix



PCS segment results – Q3 2018 Highlights



Highlights

- Solid core volume growth of +2.6% Y/Y driven by APAC and EMLA
- Sales increased by +11.3% Y/Y driven by price (+9.6%) and volume (+5.1%)
- Negative portfolio (-2.8%) and FX (-0.6%) impact Y/Y

EBITDA and Margin

in € million / margin in percent



- EBITDA increased by +49.3% Y/Y due to positive pricing delta and volume leverage
- One-time item of €36m: book gain from disposal of US sheets business
- Underlying EBITDA margin excluding one-time items expanded to c.27% vs. c.23% in Q3 2017

Coatings, Adhesives, Specialties – strong growth

CAS segment results – Q3 2018 Highlights





Highlights

- Strong core volume growth of +7.2% Y/Y with all regions contributing
- Sales increased by +8.8% Y/Y driven by volume (+9.7%) and price (-0.5%)
- Negative FX (-0.4%) impact Y/Y

EBITDA and Margin

in € million / margin in percent



Note:

- Slight EBITDA increase of +0.8% Y/Y mainly due to positive volume leverage
- EBITDA margin decline to 20.8% due to cost increases

Strong volume leverage, small negative pricing delta

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Q3 2018 – EBITDA bridge



Highlights

Strong positive volume leverage

- Broad-based in all three segments
- EBITDA volume leverage^(a) at 63%

Slightly declining cash margin

- Selling prices decreased more than raw material prices in PUR
- Positive pricing delta in PCS

Other items

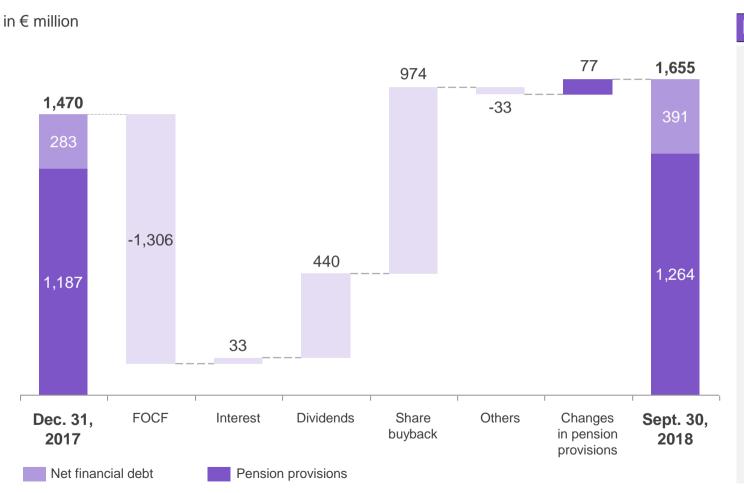
- One-time item of €36m: book gain from disposal of US polycarbonates sheets business
- Higher maintenance and logistics costs as well as outage-related expenses

Note:

More than €1.4bn cash returned to shareholders

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September 30th 2018 – Total net debt



Note:

- Total net debt to EBITDA ratio^(a) unchanged at 0.4x end of Q3 2018 vs. end of 2017
- Slight increase of net financial debt by €108m mainly due to share buyback and dividend payout
- €1.5bn share buyback program: ~14m shares bought back for a total amount of €1.1bn by end of Q3 2018
- Pension provisions increased by €77m mainly due to negative return on plan assets
- Equity ratio further improved to 51%

Updated FY 2018 guidance

Increasingly challenging economic conditions



	FY 2017	Updated guidance FY 2018	
Core Volume Growth	+3.4%	Low-single-digit percentage increase Y/Y (Previously: Low- to mid-single-digit percentage increase Y/Y)	
FOCF	€1,843m	Slightly below previous year's level (Previously: >€2bn)	
ROCE	33.4%	Slightly below previous year's level (Previously: Around previous year's level)	
Additional financial expectations	FY 2017	Updated guidance FY 2018	
EBITDA FY	€3,435m	Slightly below previous year's level (Previously: Above previous year's level)	
D&A	€627m	€620-640m	
Financial result	€-150m	€-100 to -120m	
P&L (effective) tax rate	24.1%	25–27%	
Capex	€518m	Above €700m (Previously: €650-700m)	

Upcoming IR events



Find more information on investor.covestro.com

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• January 14-15, 2019

January 21, 2019

• February 5, 2019

November 28, 2018
 Exane BNP Paribas, SRI Forum, Paris

November 29, 2018
 Société Générale, The Premium Review, Paris

December 4, 2018 Credit Suisse, Chemicals and Agriculture Conference, London

December 4, 2018 Berenberg, European Conference, London

December 5, 2018 Bank of America Merril Lynch, Global Agriculture and Chemicals Conference, London

Commerzbank, German Investment Seminar, New York

Kepler Cheuvreux, German Corporate Conference, Frankfurt

HSBC, ESG Conference, Frankfurt

Reporting dates

• February 25, 2019 Annual Report 2018

April 29, 2019
 Q1 2019 Interim Statement

July 24, 2019
 Half-Year Financial Report 2019

Highlights

April 12, 2019 Annual General Meeting, Bonn



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