

# Delivering on promises

**Roadshow Presentation** 

# Covestro key investment highlights

Global leader in high-tech material solutions



- Leading and defendable global industry positions based on focused portfolio
- Favorable industry dynamics
  with robust above GDP growth prospects in a diverse range of end-markets
- Positioned to deliver volume growth through well-invested, large-scale asset base with competitive cost position
- Portfolio including high-value CAS business with attractive and historically resilient margin profile
- Attractive cash flow growth outlook underpinned by disciplined cost management

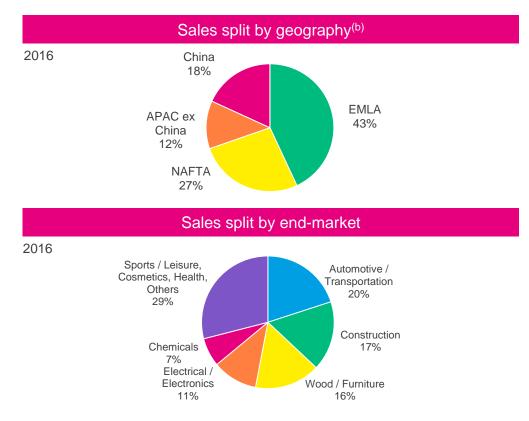
Headed by experienced management with full commitment to value creation

# Covestro at a glance



Inventor and leader in high-tech material solutions driven by global trends

- Leading global polymer producer in polyurethanes and its derivatives as well as polycarbonates
- Proven track record of process and product innovation, customer proximity as well as market-driven solutions
- State-of-the-art asset base with leading process technology and total production capacity of 4,950kt<sup>(a)</sup> distributed across 8 world-scale production facilities in three main regions
- Backward-integration into chlorine, propylene oxide and other feedstock, aimed at sourcing critical raw materials internally with no or limited merchant market sales
- Headquartered in Leverkusen, Germany, with 15,600 employees<sup>(c)</sup> globally





# Covestro business units

# Three industry-leading, structurally attractive business units



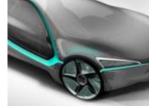
<b>Business Units</b>	Polyurethanes (PUR)	Polycar	
Global Position <sup>(a)</sup>	Global #1 (3,470kt)  MDI: #3 (1,420kt)  TDI: #1 (720kt)  Polyether polyols: #2 (1,330kt)	Global #1 (1,480kt) • EMEA: #2 (540kt) • NAFTA: #2 (230) • APAC: #1 (710kt)	
Sales 2016	€5.9bn or 50% of Covestro	€3.3bn or 28% of C	
Adj. EBITDA Margin 2016	14.9%	21.3%	
Key Applications	Rigid foam:  Building insulation  Cold chain  Automotive parts Flexible foam:  Furniture  Bedding/mattresses	Automotive parts     IT and electrical     Construction (wii     Consumer produapplications	

### rbonates (PCS)

- Okt)

### Covestro

- al equipment, electronics
- vindows, roof structure)
- ducts, medical and other





### Coatings, Adhesives, Specialties (CAS)

### Global #1:

- Aliphatic isocyanate derivatives
- Aromatic isocyanate derivatives
- Polyurethane dispersions

### €2.0bn or 17% of Covestro

### 24.5%

- Surface coatings
- Adhesives and sealants
- Elastomers
- Specialty films

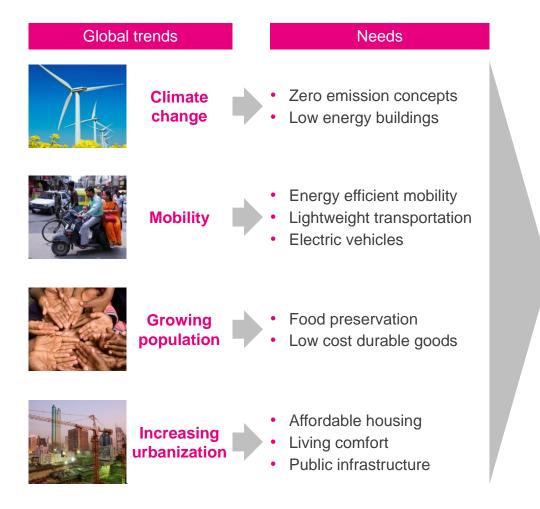


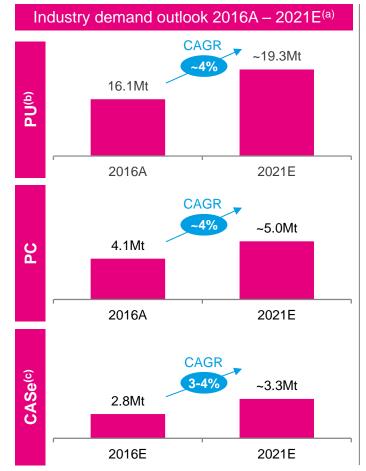


# Exposure to fundamental macro trends

# Above GDP industry growth supported by global trends







### Covestro solutions

- Building insulation
- Insulation along the cold chain
- Foam mattresses and comfort solutions
- Weight-saving car parts
- Lightweight materials for transportation
- Roofing and glazing for buildings
- Blends and composites for electronics / IT and consumer goods
- High performance surfaces and coatings
- High-tech films
- Solvent-free coatings and adhesives

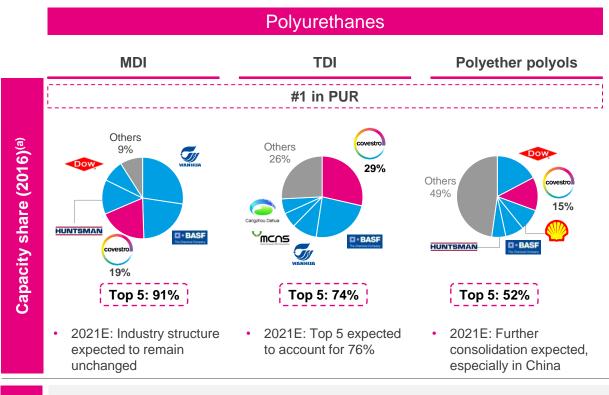
<sup>(</sup>b) Comprises MDI, TDI and polyether polyols

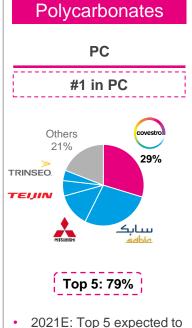
<sup>(</sup>c) Shows PU raw materials industry demand in coatings, adhesives and sealants

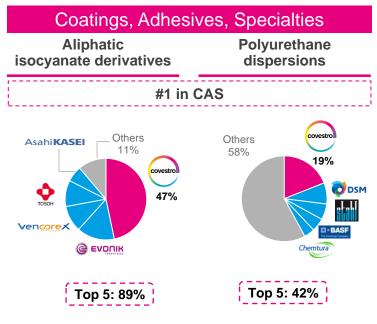
# Global industry positions

# Covestro is a leader across its entire portfolio









- 2021E: Top 5 expected to 2021E: In account for ~70%
- Top 5 players might differ

• 2021E: Industry structure expected to remain stable

# Entry equirements

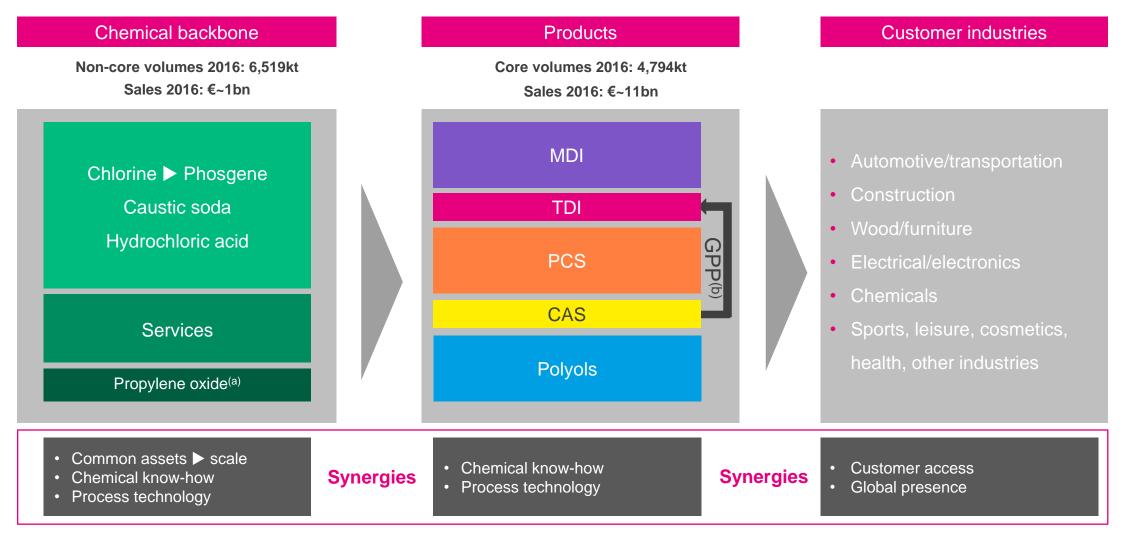
- · Sizable investment requirement
- Intense pressure to advance process technology
- Global asset base to enable customer proximity
- Persistent demand for product and process innovation
- Efficient feedstock integration required

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

# A common chemical backbone across all segments



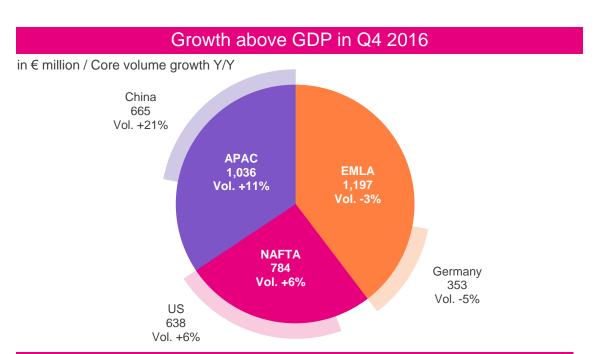
Significant synergies in scale, process technology and chemical know-how



# Q4 2016 and FY 2016 – Sales per Region

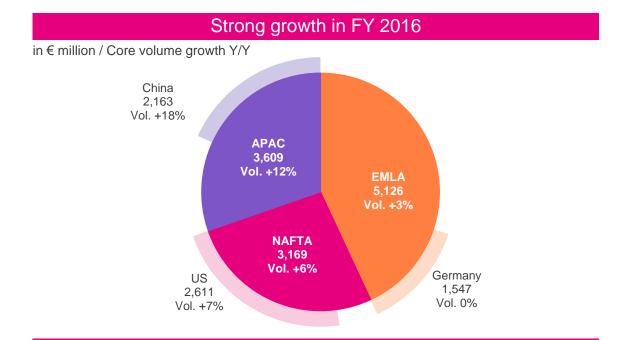
# Strong rebound in China, significant growth in the US







- Solid core volume growth of 4.8% Y/Y despite force majeure
- APAC and China supported by low comparison basis
- Germany and Europe most impacted by force majeure
- US and NAFTA growth well above GDP



FY 2016 Highlights

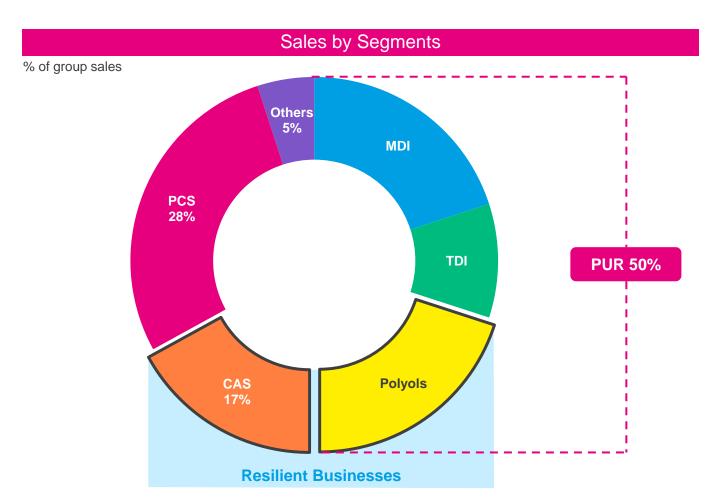
### 1 (7.50/)/0/

- Strong core volume growth of 7.5% Y/Y
- China remains a high growth market with 18% Y/Y
- Significant core volume growth in the US with 7% Y/Y
- Solid growth in EMLA despite drawback in Q4 2016

# FY 2016 - Cyclical business on structural upward trend



Significant proportion of sales generated with resilient businesses



### **Industry Expectations**

# MDI - Oversupply gradually absorbed

 Mid-term demand growth of 4-5% p.a. above supply additions 2-3% p.a. (a)

# TDI – Higher volatility

 Supply-demand development less favorable midterm in case all announced capacities come on stream<sup>(a)</sup>

## **PCS – Improving mix**

- Relatively stable industry margin<sup>(b)</sup> due to balanced supply-demand development<sup>(a)</sup>
- Covestro to benefit from strong growth in higher value-added applications

# Resilient businesses – Steady high FOCF

CAS & Polyols: structurally low volatility

# CAS at a glance



Focus on stable high margins in CAS business with defendable competitive advantages

### Global leading supplier of high performance materials to the Coatings / Adhesives / Specialties industries 4.300 +2,300+ 6+ Customers(b) **Products** Monomers #1 20.1% €2.0bn Producer of aliphatic **EBIT** margin isocyanates(a) Sales 2016 2016 CAS products have all the characteristics of niche coating / ingredients chemicals EBIT contribution of segments(c) in € million / Average 2014-2016 High value-add materials Priced on the basis of performance, high level of margin resilience Competition with other players based on performance, distinct entry requirements **PUR** 27% CAS Small proportion of cost to end-customer 42% · Low volumes and large number of niche-customized products sold Products tailored to customer needs lead to significant switching efforts PCS 31% Product innovation and R&D critical to success

<sup>(</sup>b) Includes direct customers only

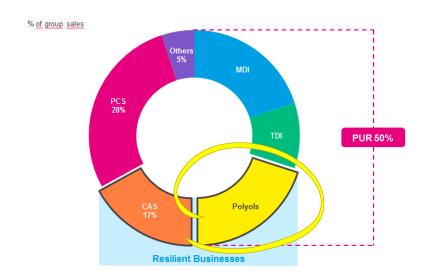
<sup>(</sup>c) Excluding contribution of "Other segments / Consolidation"

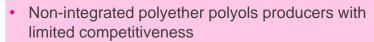
# Polyols industry spreads



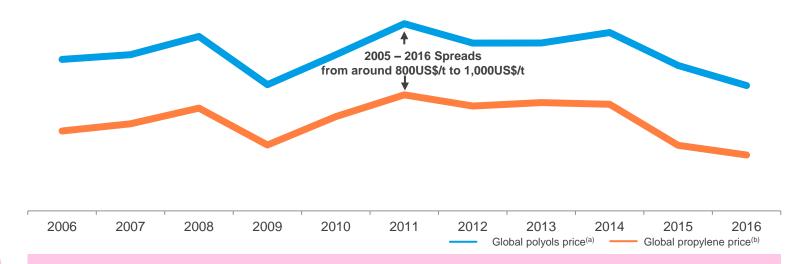


### Resilience of polyether polyols business also confirmed in 2016





- Single capacity addition with little influence on supply/demand dynamics
- Specific entry requirements for new players, e.g. CapEx and technology



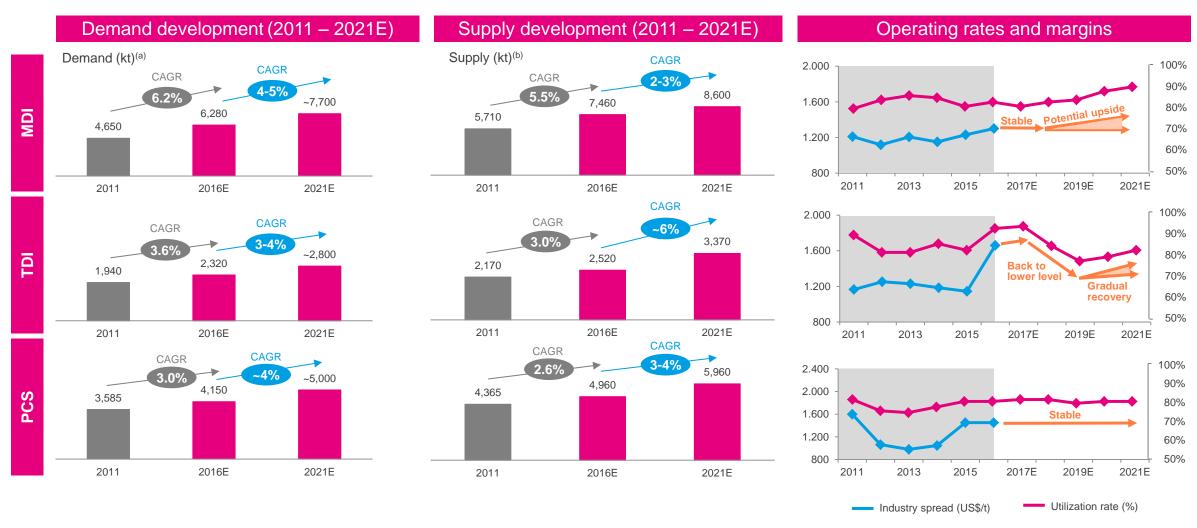
- Resilient industry margins over the last decade reflective of overall Covestro polyether polyols profitability
- Spreads not materially impacted by high volatility of propylene prices, particularly during the financial crisis
- Propylene oxide supply/demand dynamics create local pricing opportunities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

Covestro internal estimates

# Industry historical development and outlook



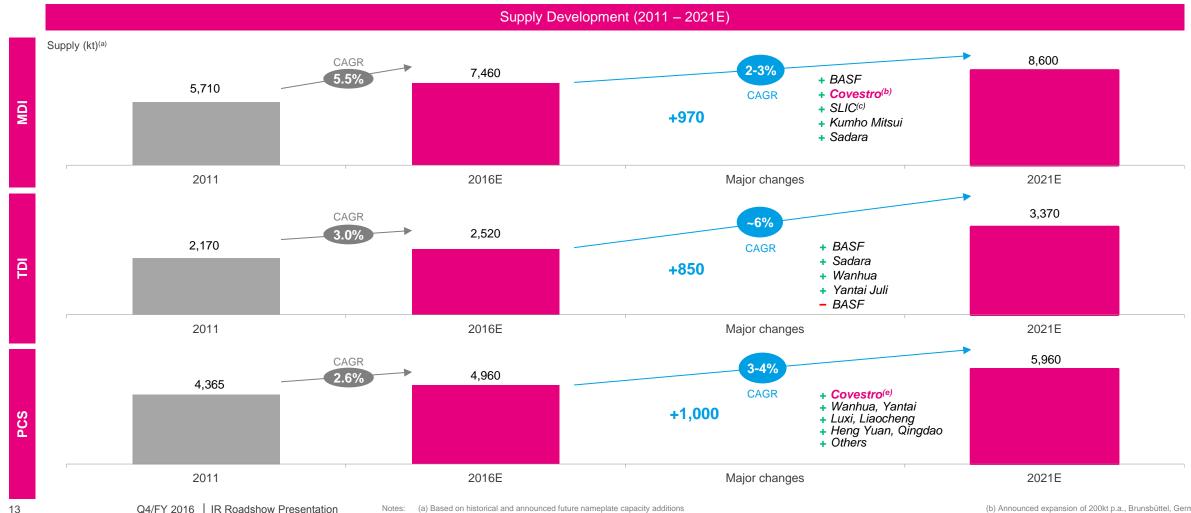
Above GDP growth driving industry capacity utilization and supporting higher margins



# Industry supply development

# Favorable industry supply outlook

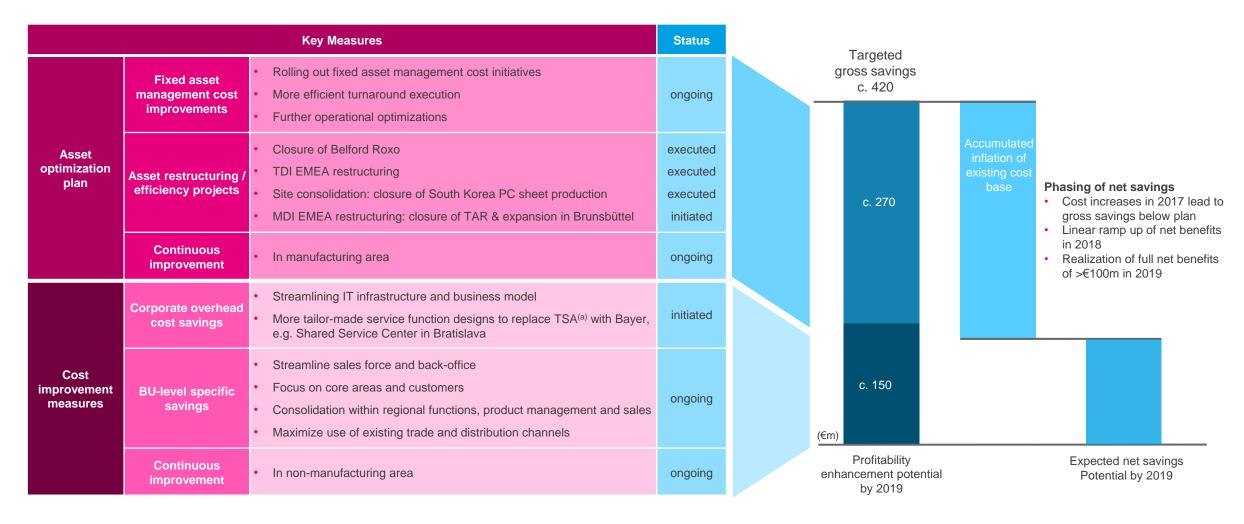




# Structured profitability enhancement program on track

# Net saving expected to start ramping up in 2018

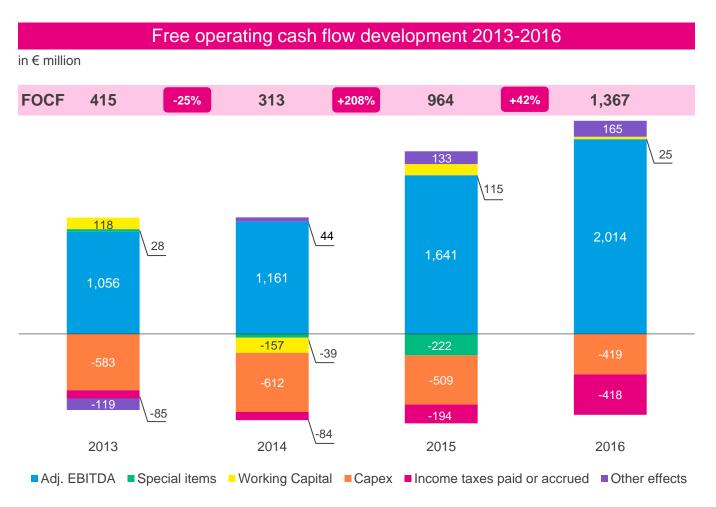




# High EBITDA to FOCF conversion rate

# Record FOCF





# Highlights

- The FOCF to EBITDA conversion rate increased to 68% compared to 59% in 2015 due to the absence of cash-out for special items
- Working capital to sales ratio almost unchanged at 15.6% vs. 15.4% in 2015, in the targeted range of 15-17%
- Capex of €419m significantly down Y/Y partly due to delayed invoicing; Capex below D&A of €683m; D&A/sales above long-term average given the young asset base and the conservative life time applied
- High cash-tax rate of 37% vs. effective tax rate of 29% due to prepayments

# Use of cash reflects strong cash generation



# covestro

- CapEx (budget) below D&A in 2015-2019E
- Goal to further reduce net debt
- Long-term preparation of next growth investments underway

# Dividend policy



- Focus on increasing or at least stable dividends
- For year 2016, dividend of €1.35 proposed



**Portfolio** 

- Disciplined & focused approach
- Bolt-on acquisition to boost R&D and business development
- Focus on high margin, differentiated business areas and continuous portfolio optimization

# Covestro strategy



Leverage industry leadership to capture growth in our industries and improve our asset and cost base

- Capture market growth
  over the next years with existing world-scale assets
- Optimize asset footprint through site consolidation, restructuring and efficiency projects
- Improve cost position by 2019, align overall costs with best-in-class chemical industry benchmarks
- Protect and build profitable competitive positions through focused R&D
- Embed sustainability
  in every element of the strategy



# Financial Highlights Q4 & FY 2016

# FY 2016 Key Highlights

# Delivering on promises





Continued dynamic core volume growth (7.5% Y/Y)

Strong adj. EBITDA increase (23% Y/Y) to €2,014m

**Record FOCF of €1,367m (42% Y/Y)** 

Full delivery on FY 2016 guidance

**Dividend proposal of €1.35** 

# 2016 Guidance fully achieved



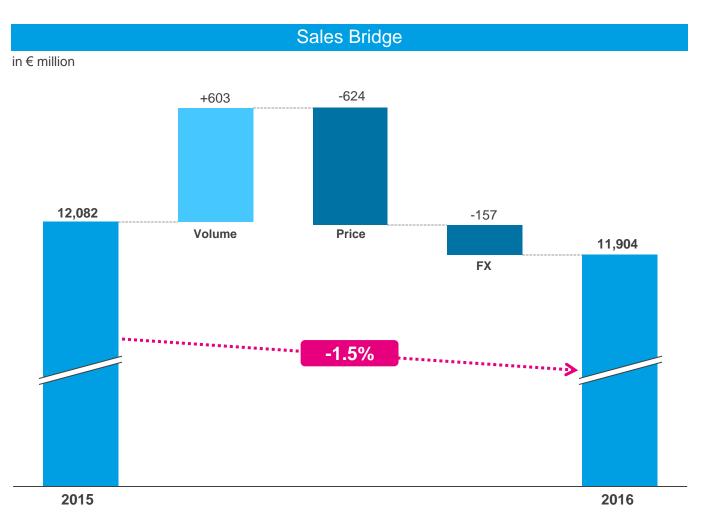
	Initial guidance FY 2016	New guidance FY 2016*	FY 2016	Achievement
Core Volume Growth	Mid-single-digit increase Y/Y	Mid- to high-single-digit increase Y/Y	+7.5%	
FOCF	At a high level, above the average of recent years	Above last year's level (€964m)	€1,367m	
ROCE	Premium on the cost of capital (>6.9%)	Significantly above last year's level (9.5%)	14.2%	<b>⊘</b>

# All financial targets achieved

# FY 2016 – Sales Bridge

# Dynamic volume growth





### Highlights

## **Dynamic volume development**

- Core volume growth (in kt) of 7.5% Y/Y
- Sales volumes (in €) expansion of 5.0% Y/Y
- Core volume growth above sales volume expansion due to declining non-core volumes and product mix effects

# Price decline driven by lower raw material prices

 Lower selling prices negatively impacted sales by 5.2% Y/Y

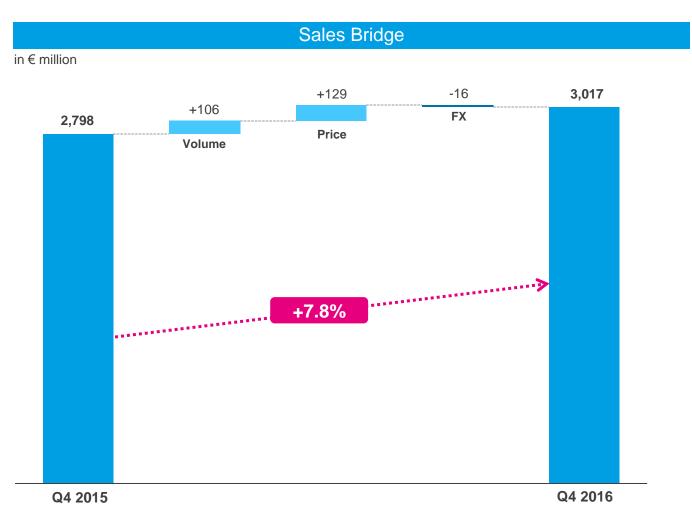
# **Negative FX effects**

 FX effects burdened sales by 1.3% Y/Y mainly due to weaker CNY and MXN

# Q4 2016 – Sales Bridge

# Dynamic volume & back to inflation





### Highlights

## **Dynamic volume development**

- Core volume growth (in kt) of 4.8% Y/Y
- Sales volumes (in €) expansion of 3.8% Y/Y
- Core volume growth above sales volume expansion due to declining non-core volumes and product mix effects

# Price increase driven by tighter industry conditions

 Higher selling prices positively impacted sales by 4.6% Y/Y

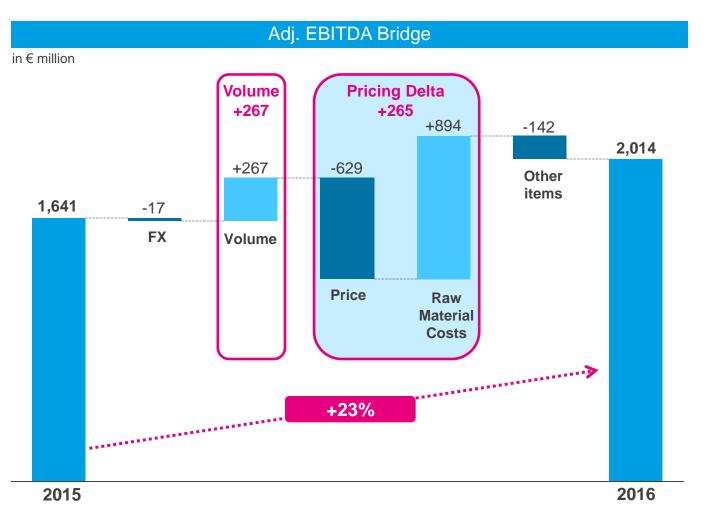
# **Negative FX effects**

 FX effects burdened sales by 0.6% Y/Y mainly due to weaker MXN

# FY 2016 – Adj. EBITDA Bridge







### Highlights

## Positive volume leverage

Driven by all segments

### Improved cash margin

- Positive pricing delta driven by all segments
- Accelerating in Q4 2016

### **Limited FX effects**

Mainly translational impact

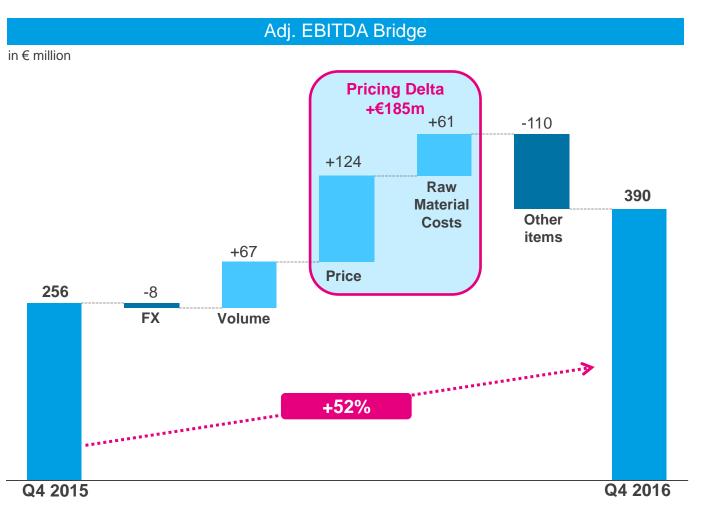
# Other items driven by FM & STI

 Higher costs from force majeure (FM) and bonus provisions (STI: short-term incentive)

# Q4 2016 – Adj. EBITDA Bridge

# Limited volume leverage, but strong pricing delta





### Highlights

### Positive volume leverage

- Mainly driven by PCS & CAS
- PUR negatively impacted by force majeure

# Improving cash margin

 Positive pricing delta mainly driven by MDI & TDI

### **Limited FX effects**

Mainly translational impact

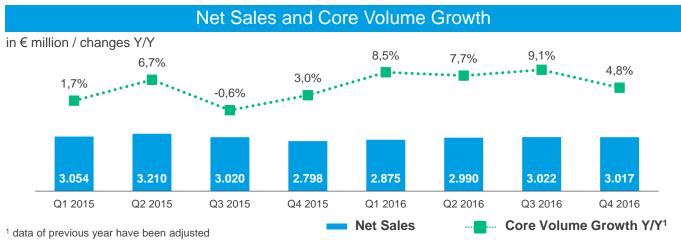
# Other items higher than usual

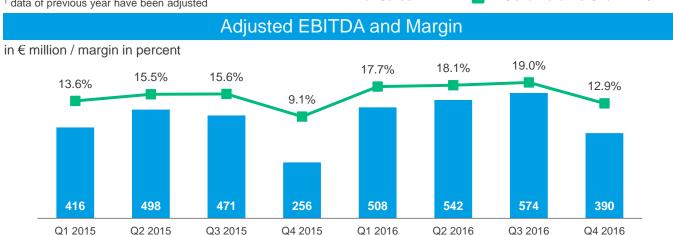
Partly force majeure related costs

# Q4 & FY 2016 – Group Results

# Continued margin expansion







Adj. EBITDA

Adj. EBITDA Margin

### Highlights

- In 2016, continued strong core volume growth (in kt) of 7.5%
- In Q4, solid core volume growth of 4.8% Y/Y driven by PCS, despite force majeure in PUR
- 2016 sales effects Y/Y: volumes +5.0%, prices -5.2%, FX -1.3%

### **Highlights**

- In 2016, adj. EBITDA margin improved significantly to 16.9% (vs. 13.6% in 2015)
- Adj. EBITDA increased each quarter Y/Y during 2016: +22% in Q1, +9% in Q2, +22% in Q3 and +52% in Q4
- In Q4, adj. EBITDA margin significantly improved by 3.8pp Y/Y to 12.9%, although impacted by the usual seasonality

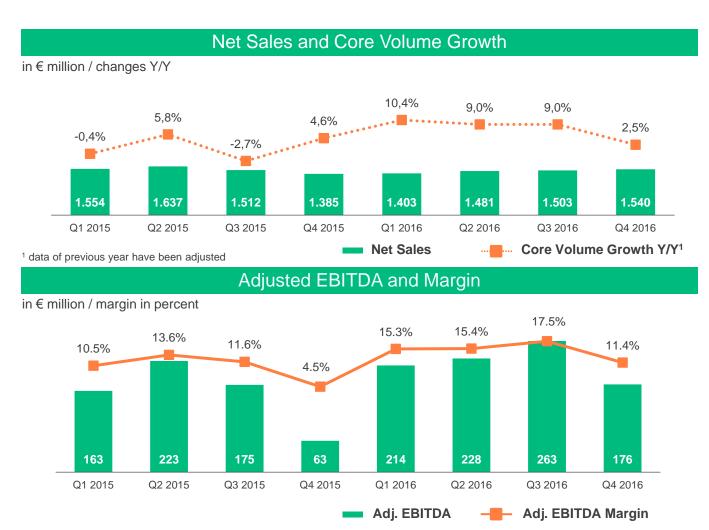
13.6%

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# Q4 & FY 2016 – Results of PUR Segment

# Polyurethanes – Solid development





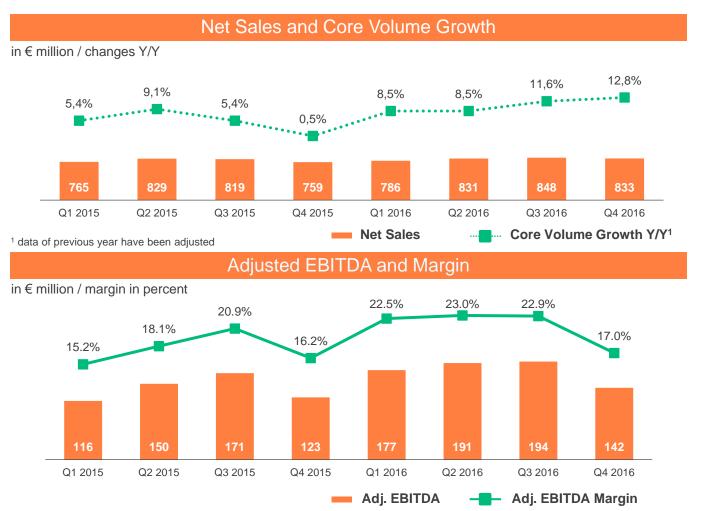
### Highlights FY 2016

- Strong core volume growth of 7.7% Y/Y, driven by all segments, notably MDI
- Global industry growth accelerated (preliminary estimates: MDI 7-8%; TDI 3-4%; polyols 5-6%), industry utilization significantly increased
- Share gains in MDI & TDI despite European force majeure but constrained growth in polyols
- Adj. EBITDA increased by 41% Y/Y with a margin of 14.9% vs. 10.2% in 2015
- Pricing delta improved during the year, with acceleration in Q4 2016
- Strong volume leverage, especially in the first nine months

# Q4 & FY 2016 – Results of PCS Segment

# Polycarbonates – Steady high margin business





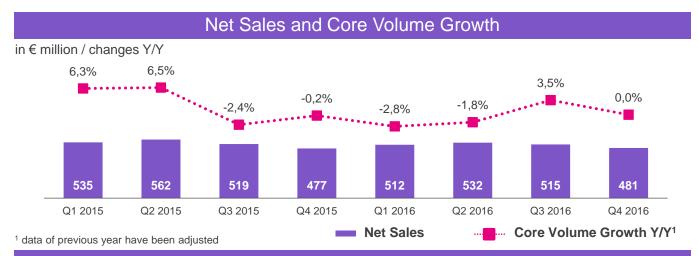
### Highlights FY 2016

- Core volumes increased double-digit by 10.3%
- Global industry growth accelerated (preliminary estimates 3-4%), industry utilization further improved
- Third consecutive year of significant share gains
- Capacity increase of 200kt to 1,480kt, #1 producer with a capacity share of 29%\*
- Product mix improvements with gains in highend markets vs. reduction in e.g. optical media
- Adj. EBITDA increased by 26% Y/Y with a margin of 21.3% vs. 17.7% in 2015
- Margin increase mainly driven by positive volume leverage despite start-up costs

# Q4 & FY 2016 – Results of CAS Segment

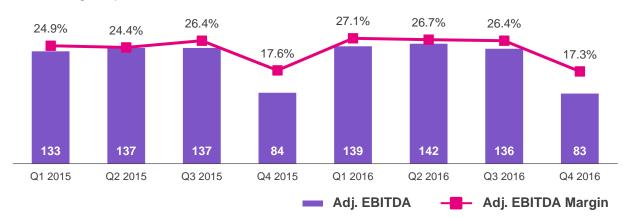
# Coatings, Adhesives, Specialties – Solid results







in € million / margin in percent



### Highlights FY 2016

- Slightly declined core volumes of -0.3% Y/Y due to phase out of a trading product; adj. core volume growth of 4.5% Y/Y
- Global industry growth below long-term trend of ~4% (based on preliminary estimates) mainly due to weak industrial coatings sectors (e.g. decline in protective coatings for oil & gas)
- Adj. EBITDA increased by 2% Y/Y with a slightly increased margin of 24.5% vs. 23.5% in 2015
- Positive product mix effects counterbalanced missing earnings from trading product

# Income Statement FY 2016

# Profit and loss statement



Key P&L items	2014	2015	2016	2016/2015 Y/Y	Share 2016
n € milion					
Net Sales	11,761	12,082	11,904	-1.5%	100%
Cost of goods sold	(9,609)	(9,438)	(8,611)	-8.8%	72.3%
Gross profit	2,152	2,644	3,293	24.5%	27.7%
% margin	18.3%	21.9%	27.7%	5.8pp	-
Selling expenses	(1,097)	(1,257)	(1,323)	5.3%	11.1%
Research & development expenses	(212)	(257)	(259)	0.8%	2.2%
General & administrative expenses	(343)	(480)	(451)	-6.0%	3.8%
Other operating income / (expense)	17	30	71	137%	0.6%
EBIT	517	680	1,331	95.7%	11.2%
% margin	4.4%	5.6%	11.2%	5.6pp	-
Affiliated companies	(15)	(9)	(20)	122.2%	0.2%
Interest expenses (net)	(74)	(85)	(48)	-43.5%	0.4%
Others	(47)	(81)	(128)	60.0%	1.1%
EBT	381	505	1,135	124.8%	9.5%
Income taxes	(104)	(153)	(329)	115.0%	2.8%
Minorities	(5)	(9)	(11)	22.2%	0.1%
Net income	272	343	795	131.8%	6.7%
% margin	2.3%	2.8%	6.7%	3.9pp	-
Earnings per share (in €)*	1.34	1.69	3.93	131.8%	-

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# No special items in 2016

- Y/Y comparison is difficult due to extraordinary costs booked in 2015 (e.g. €197m in cost of goods sold and €131m in G&A expenses)
- Covestro will focus in the future on reported EBITDA and EBIT

# Adj. SG&A increase driven by STI

 Significantly higher bonus provisions due to strong operational performance

# Other operating income & other financials

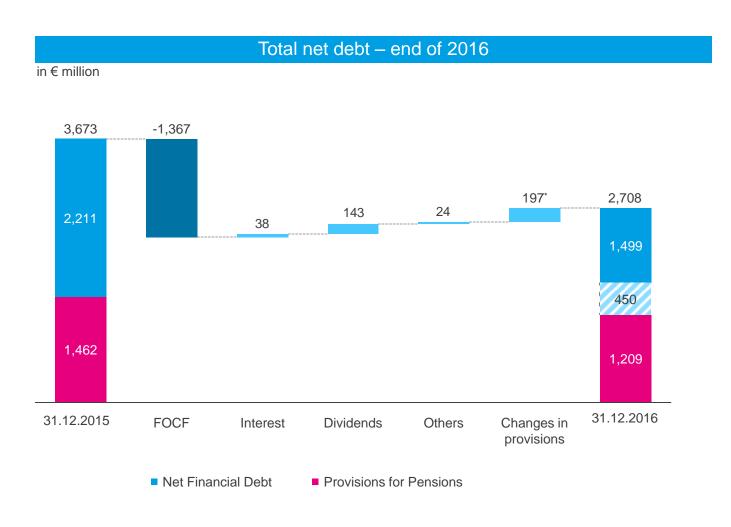
 Benefited from insurance payment of €30m & burdened by financial hedging losses of €30m

# EPS increased by 132% Y/Y

# 2016 – Total Net Debt

# Total net debt reduced by almost €1bn





### Highlights

## Net debt target achieved

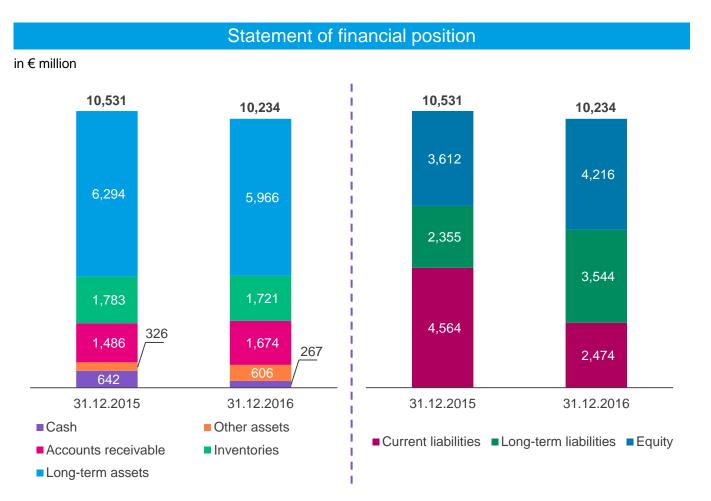
- Total net debt (net financial debt plus pension provision) to EBITDA ratio of 1.3x end of 2016 vs. 2.2x end of 2015
- Target of 1.5x achieved earlier than previously assumed
- Pension provisions increased before CTA funding by €197m due to lower interest rate of 2.30% vs. 2.85% in 2015
- CTA funding reduced pension provisions by €450m in Q4 2016

<sup>\*</sup> Excluding contribution to plan assets (transfer of government bonds) of €450m

# Balance sheet FY 2016

# Strong balance sheet and solid equity ratio





### Highlights

- Working capital stable Y/Y at €1,859m with WC/Sales ratio of 15.6% vs. 15.4% in 2015
- Total financial liabilities reduced to €1.9bn
   vs. €2.9bn in 2015
- Long-term debt maturity established with the issuance of three bonds (each €500m maturing 2018, 2021 and 2024)
- Solid equity ratio, increased to 41% vs. 34% in 2015

# Guidance 2017

# Continue to deliver



	FY 2016	Guidance FY 2017*		
Core Volume Growth	+7.5%	Low- to mid-single-digit percentage increase Y/Y		
FOCF	€1,367m	Slightly above the average of the last three years		
ROCE	14.2%	Slightly above the 2016 level		
Additional financial expectations	FY 2016	Guidance FY 2017		
EBITDA 2017 FY	€2,014m	At or above the 2016 level		
EBITDA 2017 Q1	Q1: €508m	Significantly above Q1 2016		
D&A	€683m	~€650-700m		
Special items in EBITDA	€0m	€0m		
Financial results	€-196m	€-170 to -190m		
Tax rate	29.0%	≤30%		
Capex	€419m	~€550m		

### Q4/FY 2016 | IR Roadshow Presentation

Exchange rate of USD/EUR ~1.10

Macroeconomic environment similar as in 2016

# **Upcoming IR Events**



Find more information on investor.covestro.com

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April 25, 2017
 Q1 2017 Interim Report

July 25, 2017
 Q2 2017 Interim Report

October 24, 2017 Q3 2017 Interim Report

# **Annual General Meeting**

May 3, 2017
 Annual Stockholders' Meeting, Bonn

### **Broker conferences**

March 8, 2017
 Citi's West Coast Symposium, San Francisco

March 28, 2017
 Barclays Materials ROC Stars Conference, New York

March 30, 2017
 Mainfirst Corporate Conference, Copenhagen

March 30-31, 2017
 Raymond James Chemical Industry Leaders Conference, London

# **Capital Markets Day**

June 29, 2017 Covestro Capital Markets Day, London



# Disclaimer

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The company assumes no liability whatsoever to update these forward-looking statements or to adjust them to future events or developments.