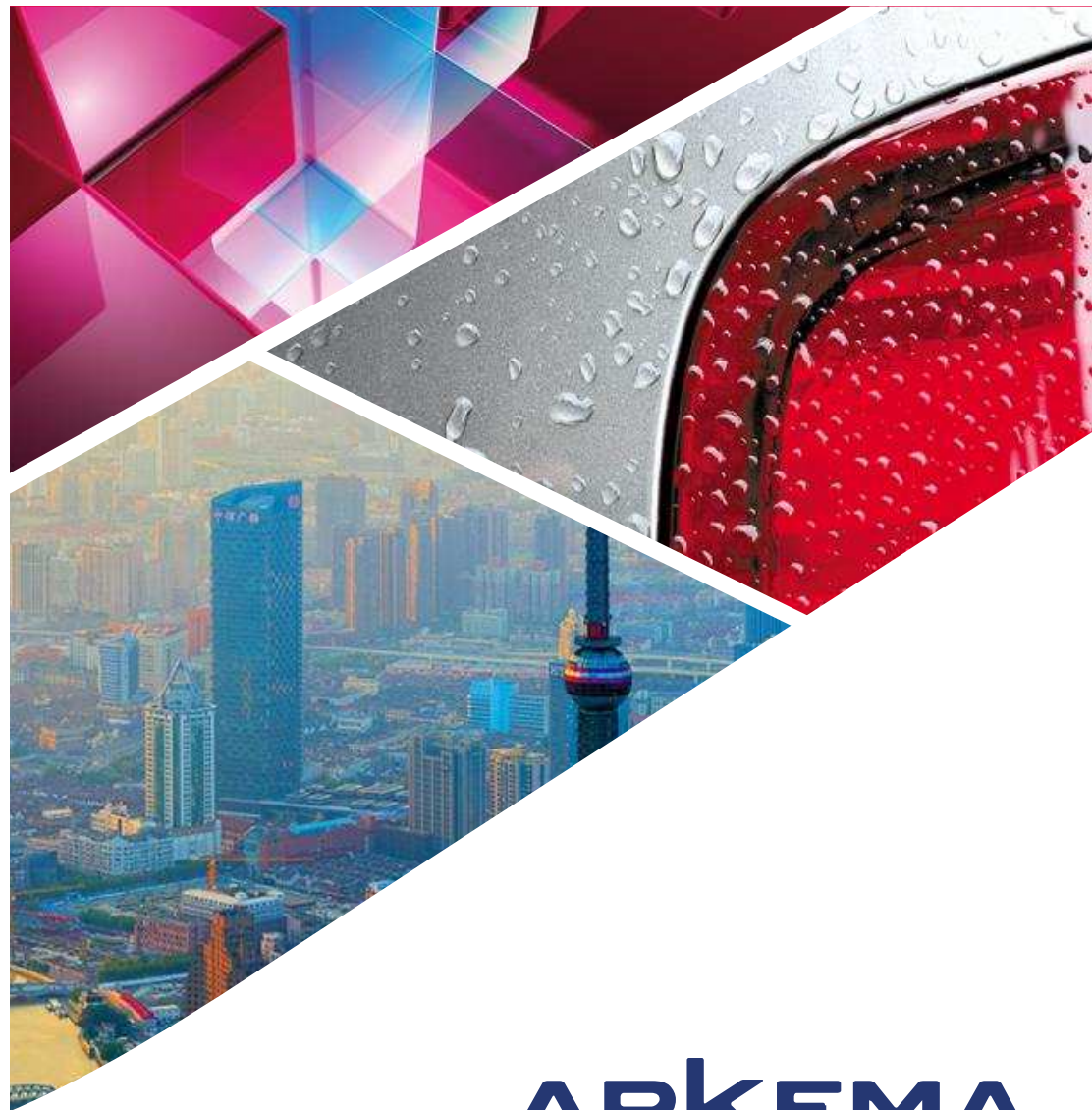


# FULL YEAR 2018 RESULTS AND OUTLOOK

FEBRUARY 2019



**ARKEMA**  
INNOVATIVE CHEMISTRY



# DELIVERING AN EXCELLENT FINANCIAL PERFORMANCE

**ARKEMA**  
INNOVATIVE CHEMISTRY

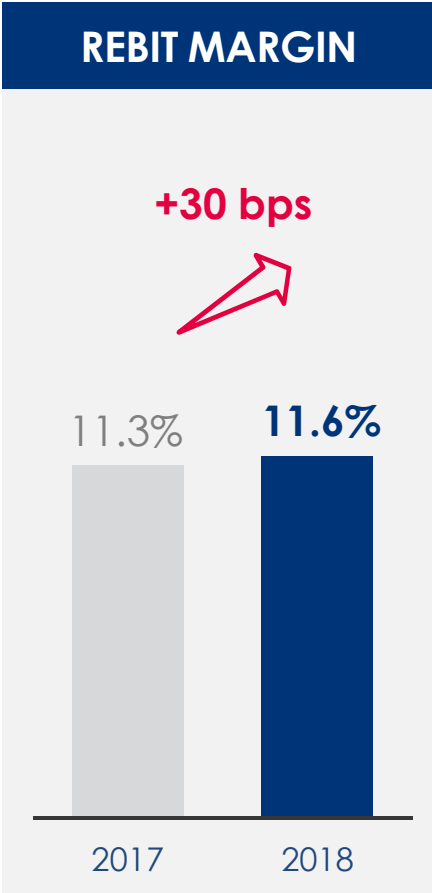
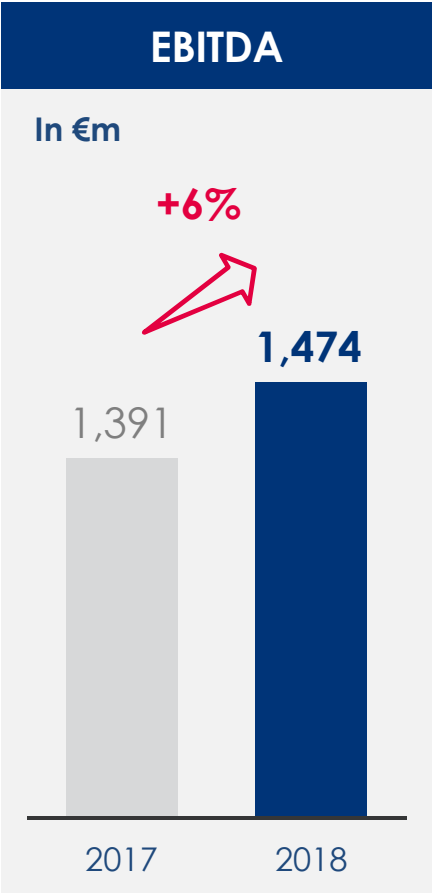
# SIGNIFICANT INCREASE AFTER AN ALREADY EXCELLENT 2017

**+6%**

**Sales**  
**€ 8.8 billion**

**+22.5%**

**Adjusted net income**  
**€ 725 million**



**0.7x EBITDA**

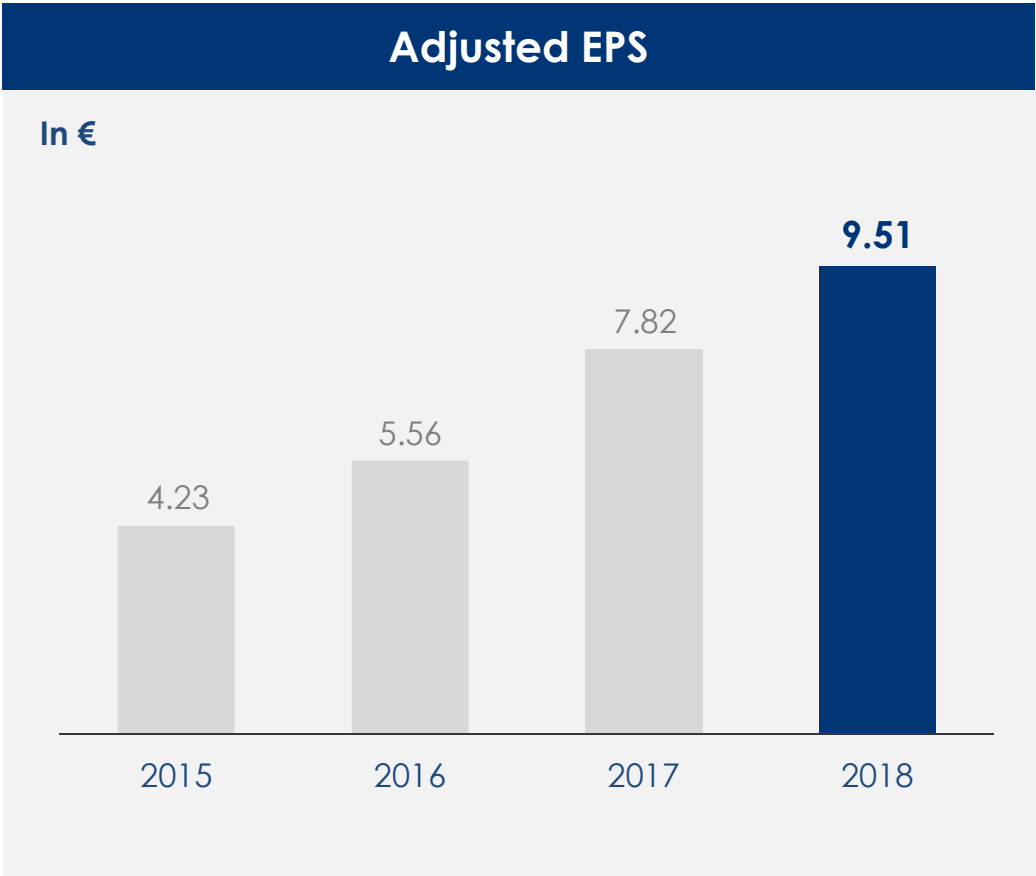
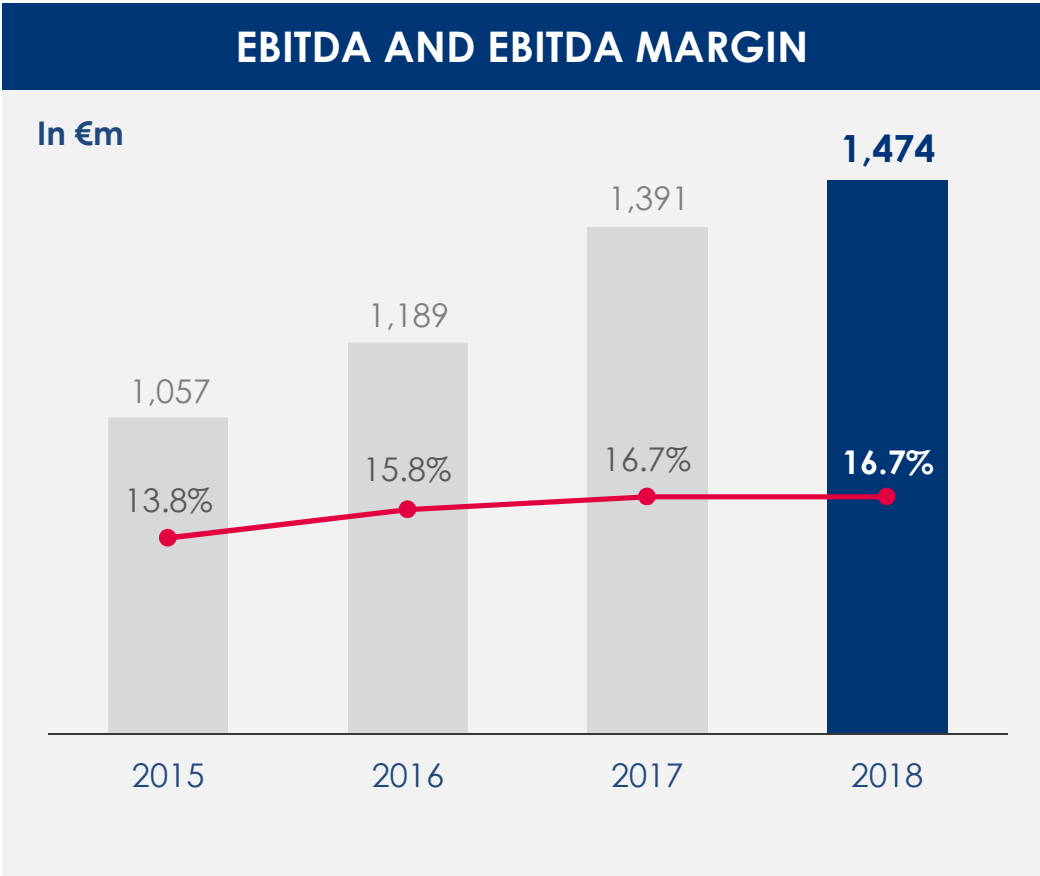
**Net debt**  
**€ 1 billion**

**+100 bps**

**ROACE\***  
**15.1%**

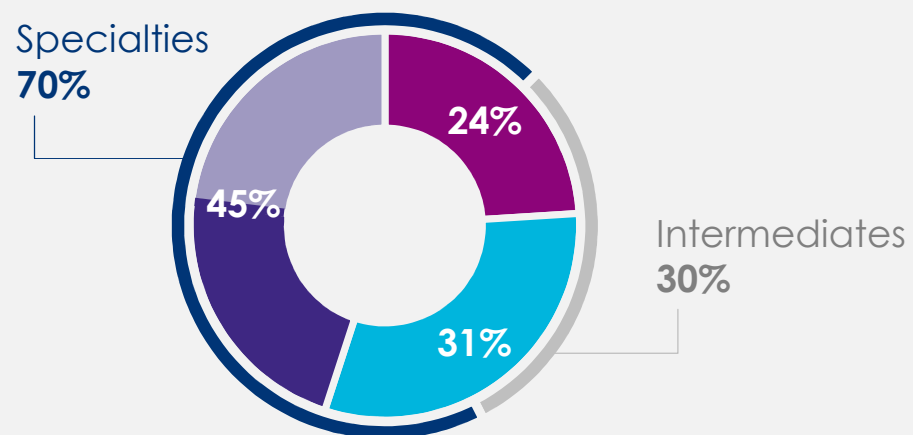
\* Return on average capital employed

# STEADY GROWTH IN DIFFERENT MACRO-ECONOMIC ENVIRONMENTS



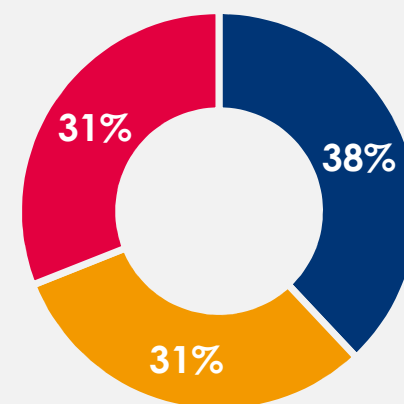
# TRANSFORMATION ON TRACK

## FY'18 SALES BY DIVISION



- High Performance Materials
- Adhesives 23%
- Advanced Materials 22%
- Industrial Specialties
- Coating Solutions

## FY'18 SALES BY REGION



- Europe
- North America
- Asia and RoW

## ADVANCED MATERIALS

### ROBUST GROWTH SUPPORTED BY INNOVATION AND GEOGRAPHIC EXPANSION

#### INVESTMENTS

PVDF expansions :  
+20% in the US  
+25% in China



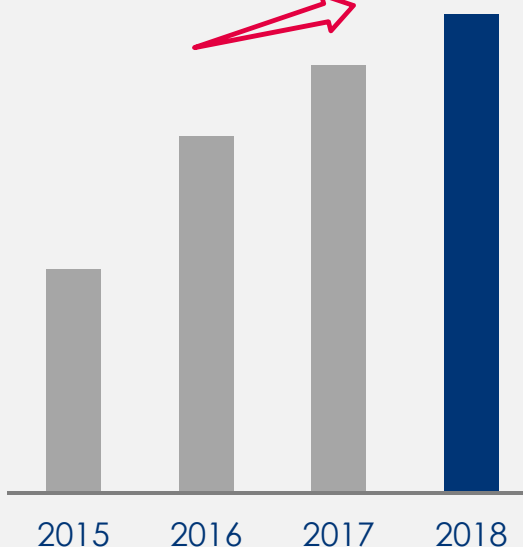
x2 specialty molecular sieves in France started end 2016



#### EBITDA

In €m

+7%  
CAGR



#### INNOVATION

Bio-based polyamides for **consumer goods**  
(sports, electronics)



Materials for **batteries**



> 5% VOLUME GROWTH IN 2018

# ADVANCED MATERIALS

## EXCITING NEW OPPORTUNITIES FROM INNOVATION



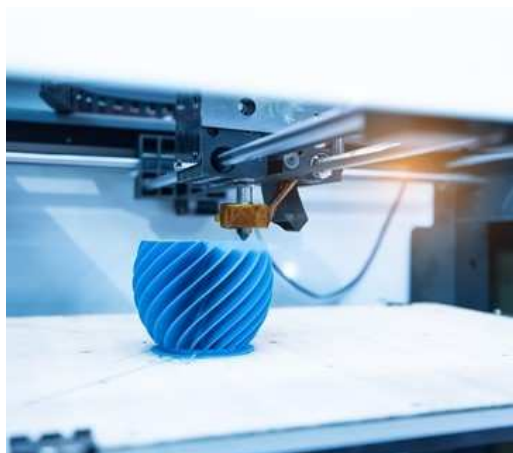
### Composites

**High performance resins for thermoplastic composites**

**Partnerships with:**

- Hexcel in aerospace
- Barrday in oil and gas

**Elium®** recyclable resin



### 3D printing

**Unique range of materials (PEKK, PA, UV curing resins) for all technologies**

**Dedicated commercial platform**

**Partnerships with key players** (end users, 3D printer manufacturers)

**New center of excellence in the US**



### Batteries

**3 main applications**

- Separator coatings
- Electrode binders
- Electrolytes

**New development in lithium-sulfur batteries with Oxis**

**Partnerships with customers in key end-markets** (electronics, EV)



### Water treatment

**Membranes for ultra-filtration**

**Coatings for water transportation pipelines**

**Partnerships with key industrial players in water treatment and water transportation**

# ADHESIVES

## EXECUTING OUR ROADMAP

### GROWTH

Bolt-on acquisitions

#### New products

Fix & Flash in DIY  
Kizen® and Reseal® for packaging



#### Start-up

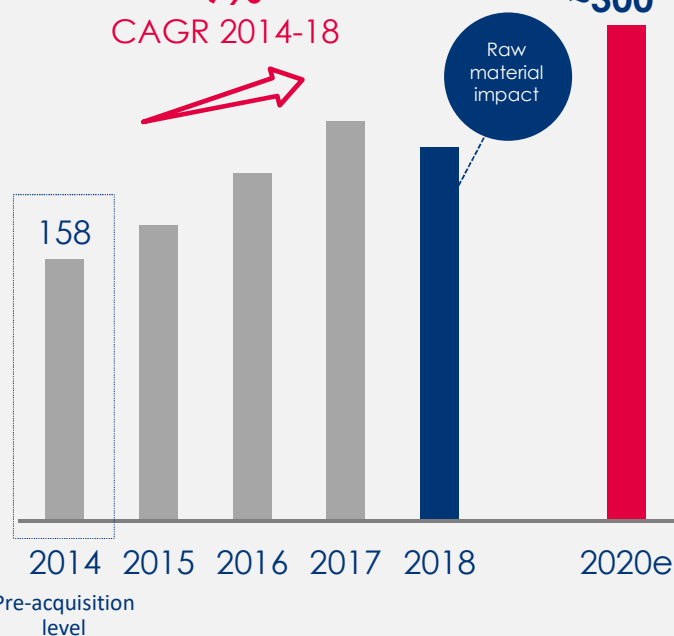
Industrial adhesives in India



### EBITDA

In €m

+9%  
CAGR 2014-18



### PRICING

Actions to raise selling prices accelerated in 2H'18

Benefits from gradual pass through of higher raw material costs in 2018

Further pricing actions in 2019

**ON TRACK TO DELIVER 2020 TARGET**



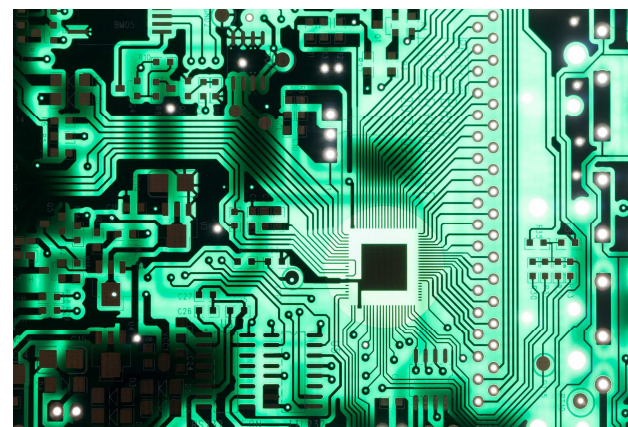
# ADHESIVES

## BOLT-ON ACQUISITIONS PAVING THE WAY FOR LEADERSHIP POSITIONS



### Den Braven in sealants

- Build a global leadership position in sealants
- 2/5 of synergies already implemented



### Flooring adhesives in the US

- Complementary acquisitions of XL Brands (2018) and CMP (2017)
- Successful integration with performance well in line with expectations



### Industrial adhesives

- Enter fast-growing engineering adhesives markets with Afinitica (cyanoacrylate)
- Expand in industrial adhesives in Japan: Nitta Gelatin's business and new production unit

# INDUSTRIAL SPECIALTIES

## REAPING THE BENEFITS FROM OUR STRONG POSITIONS

### Thiochemicals

#### ❖ Resilient demand above GDP

- Animal nutrition (+5% p.a.) on growing population
- Critical applications for customers
- Benefits from more stringent regulations for fuels

#### ❖ Invest to capture growth

- x2 capacities in Malaysia by 2020
- Up to 30% in linear mercaptans in the US by 2020



### PMMA

#### ❖ Growth supported by structural trends

- Lightweighting
- Circular economy with MMAtwo European project

#### ❖ Tight market conditions since 2016 with normalization starting in 4Q'18



### Fluorogases

#### ❖ 2018 above high level of 2017 reference

#### ❖ Benefits from regulations in current generations of gases

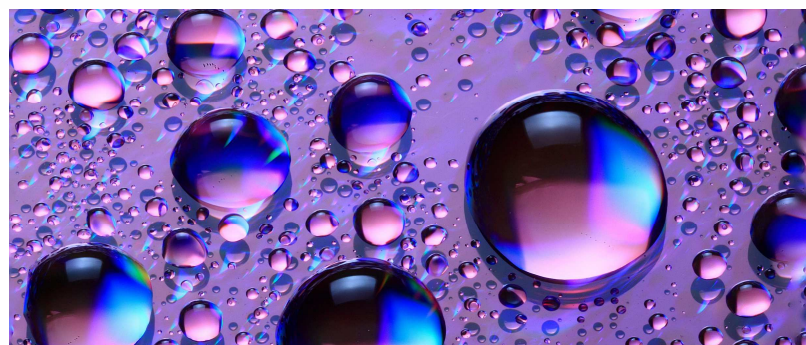
#### ❖ Capture opportunities in next generation HFOs over the longer term



# COATING SOLUTIONS LEVERAGING INTEGRATION

## Consolidating our leading position in Acrylics

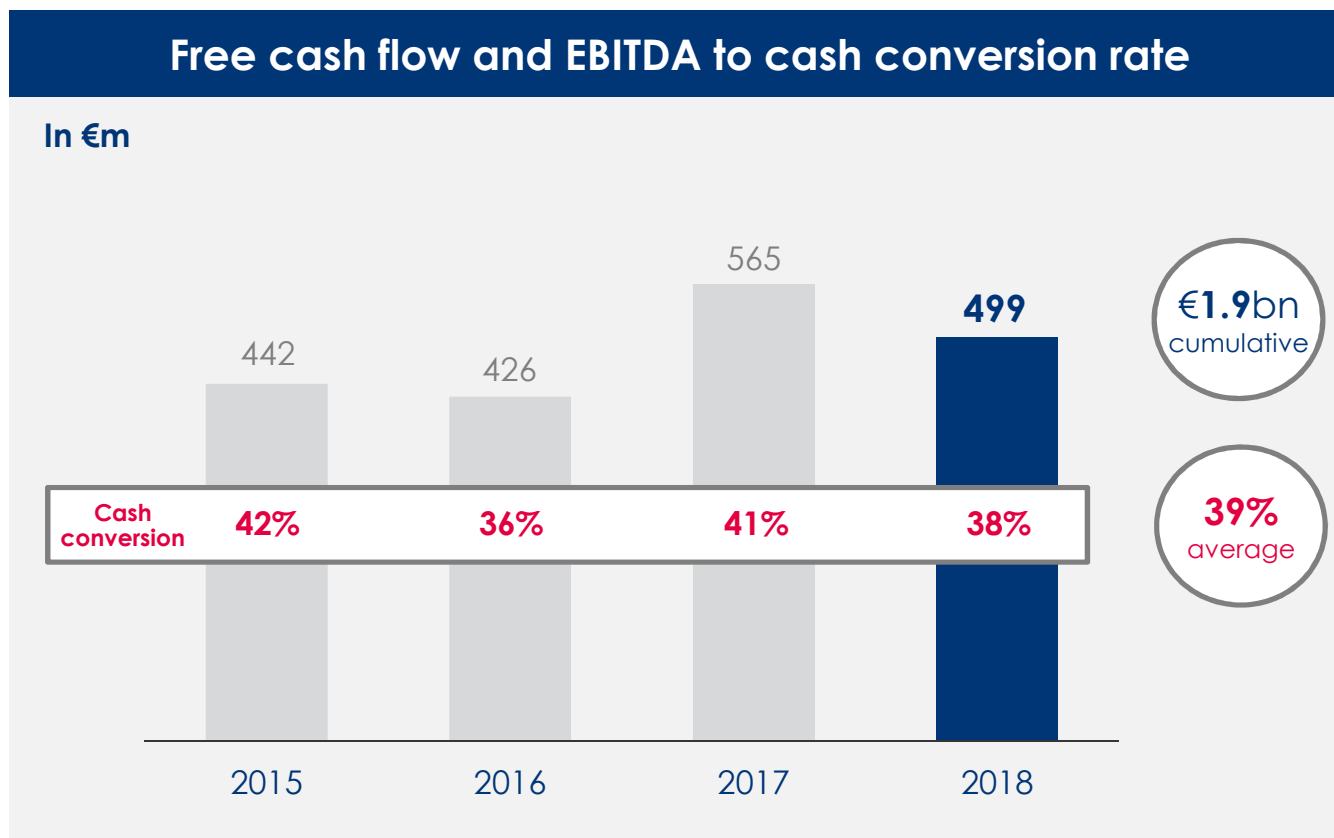
- ✦ #2 worldwide with competitive assets
- ✦ Robust volume growth in 2018 with gradual improvement of the cycle
- ✦ Supporting future growth with targeted investments
  - New 90 kt/yr reactor in Clear Lake (US) to start mid-2019
  - Pending acquisition of our partner's stake in Sunke to close in 2Q'19



## Acrylics downstream

- ✦ In 2018, strong emphasis on pricing initiatives to offset higher input costs
- ✦ Benefits from increasing demand for low-VOC products
- ✦ New coating resins unit in India started early 2019
- ✦ Long term objective to increase downstream integration
  - Organic growth
  - Bolt-on acquisitions

## BEST-IN-CLASS CASH GENERATION



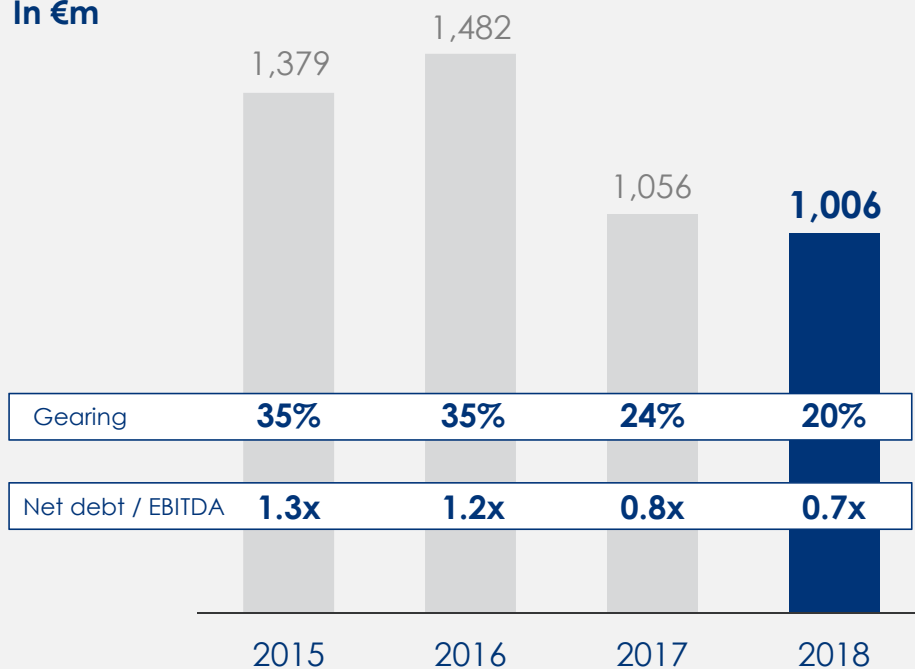
### 2018 HIGHLIGHTS

- ✦ **Excellent FCF generation on:**
  - Higher EBITDA
  - Lower taxes
  - Tight working capital management
- ✦ **Main cash uses:**
  - **€561m capex** including €500m recurring and €61m exceptional
  - **€213m bolt-on acquisitions** including XL Brands, Nitta Gelatin industrial adhesives and Afinitica
  - **€176m dividend**

# MAINTAINING A STRONG BALANCE SHEET

## NET DEBT excluding €700m hybrid bond






In €m



## BALANCE SHEET AT 31 DECEMBER 2018

- ✦ **13.4% working capital to annual sales ratio**
  - Close to the record low of 13.1% at end 2017
  - 14.5% at end 2016 excluding impact of Den Braven acquisition
- ✦ **€7bn capital employed and 15.1% ROACE**
- ✦ **€467m net provisions for pensions (€322m) and other employee benefits, stable YoY**
- ✦ **Upgraded credit ratings**
  - Standard & Poor's: BBB+ (stable outlook) upgraded from BBB
  - Moody's: Baa2 (positive outlook - upgraded from stable)

## DELIVERING ON 2018 FINANCIAL OBJECTIVES

	OBJECTIVES	ACHIEVED	
<b>EBITDA</b>	Mid-single digit growth (~5%)	<b>+6%</b>	
<b>Cash conversion rate</b>	35%	<b>38%</b>	
<b>Capital intensity</b> (recurring capex to sales)	5.5%	<b>5.7%</b>	
<b>Working capital</b> (as a % of sales)	14-15%	<b>13.4%</b>	
<b>Net debt to EBITDA*</b>	1.5x	<b>0.7x</b>	

\* Excluding hybrid bond

# OUR CORPORATE SOCIAL RESPONSIBILITY POLICY

## 3 CSR PILLARS

Deliver **sustainable solutions** driven by **innovation**



- Solutions addressing societal challenges
- Innovation at the heart of the activities
- Responsible product stewardship

Manage our activities as a **responsible chemist**



- Safety of people and processes
- Health
- Environmental footprint reduction

Cultivate an **open dialogue** and **close relations** with our **stakeholders**



- Ethics
- Human rights
- Employee development
- Responsible value chain
- Corporate citizenship

# INNOVATION PLATFORMS WELL ALIGNED WITH UN SUSTAINABLE DEVELOPMENT GOALS



❖ **154 patent applications related to UN SDGs in 2018, i.e. >60% of total patent applications**

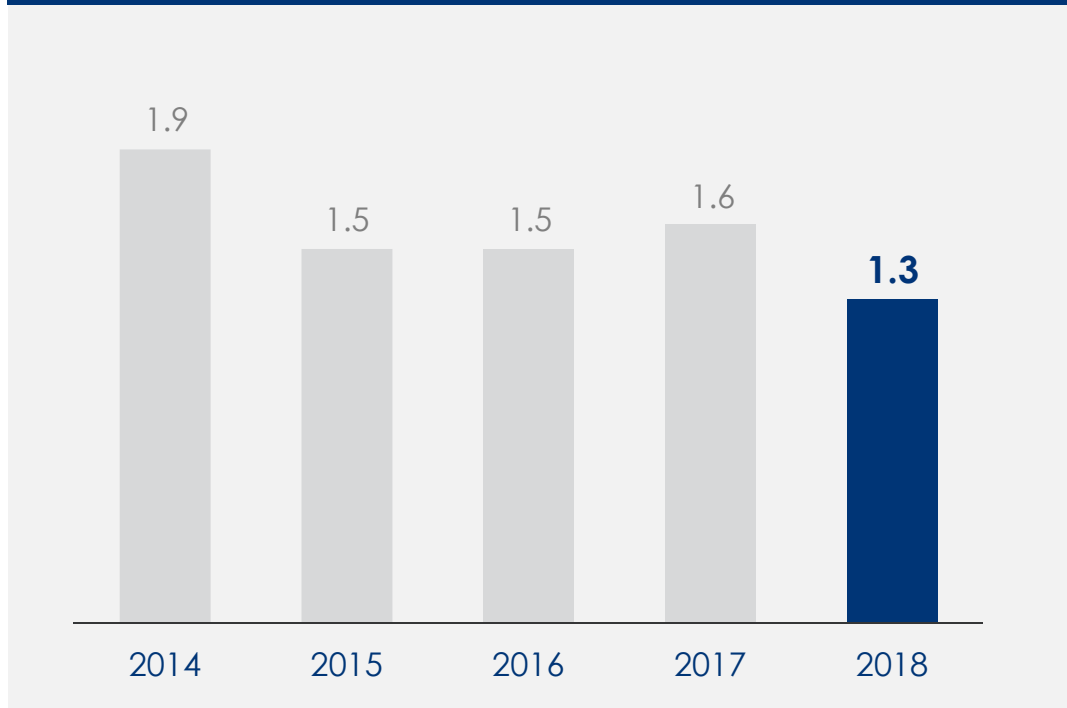
❖ **Portfolio sustainability assessment project**

- Systematic assessment of solutions portfolio in light of sustainability criteria
- Pilot program initiated in 2018, with gradual roll-out starting in 2019
- Definition of an indicator to measure contribution to the UN SDGs currently under review



# ACTING AS A RESPONSIBLE CHEMIST

## SAFETY (Total Recordable Injury rate)



**CONSISTENT WITH <1.2 TARGET IN 2025**

## ENVIRONMENT

	CLIMATE CHANGE	AIR
2025 target	-50% in greenhouse gas emissions	-33% in volatile organic compound emissions
2018	-54%	-38%
	WATER	ENERGY
2025 target	-40% in chemical oxygen demand	-15% in net energy purchases
2018	-41%	-12%

# OPEN DIALOGUE AND CLOSE RELATIONS WITH STAKEHOLDERS

## SUPPLIERS



- **Pragati initiative** in India: providing a framework for the sustainable production of castor beans
- **Together for Sustainability** initiative in the chemical industry chain (>1,400 suppliers assessed)

## PHILANTHROPY



- **Fund for Education:** financing employees' education-related projects
- Sponsoring the **“Young Audience Program”** at the Théâtre des Champs-Élysées in Paris

## EMPLOYEES

Senior executive positions to be held by women	21%	23% to 25%
Senior executive positions to be held by non-French nationals	39%	42% to 45%
	2018	2025 target

## LOCAL COMMUNITIES



- **Common Ground® initiative:** 1,064 initiatives carried out around the world in 2018, covering 84% of production plants



# FULL YEAR 2018 RESULTS

**ARKEMA**  
INNOVATIVE CHEMISTRY

## FY'18 RESULTS KEY TAKE-AWAYS

---

**€8,816m** sales

- ⚡ **5.9%** up YoY
- ⚡ **7.9%** up at constant scope and FX on higher prices and volumes

**€1,474m** EBITDA

- ⚡ **6.0%** up on excellent 2017 performance
- ⚡ Driven by both specialty and intermediate businesses
- ⚡ **All time high EBITDA** in a volatile economic environment

**16.7%** EBITDA margin

- ⚡ Stable at high levels in a context of higher raw material costs
- ⚡ In line with Group's mid-term target

**€725m** adjusted net income

- ⚡ **22.5%** up YoY on higher EBITDA and lower taxes
- ⚡ **€9.51** adjusted EPS (€7.82 in 2017)

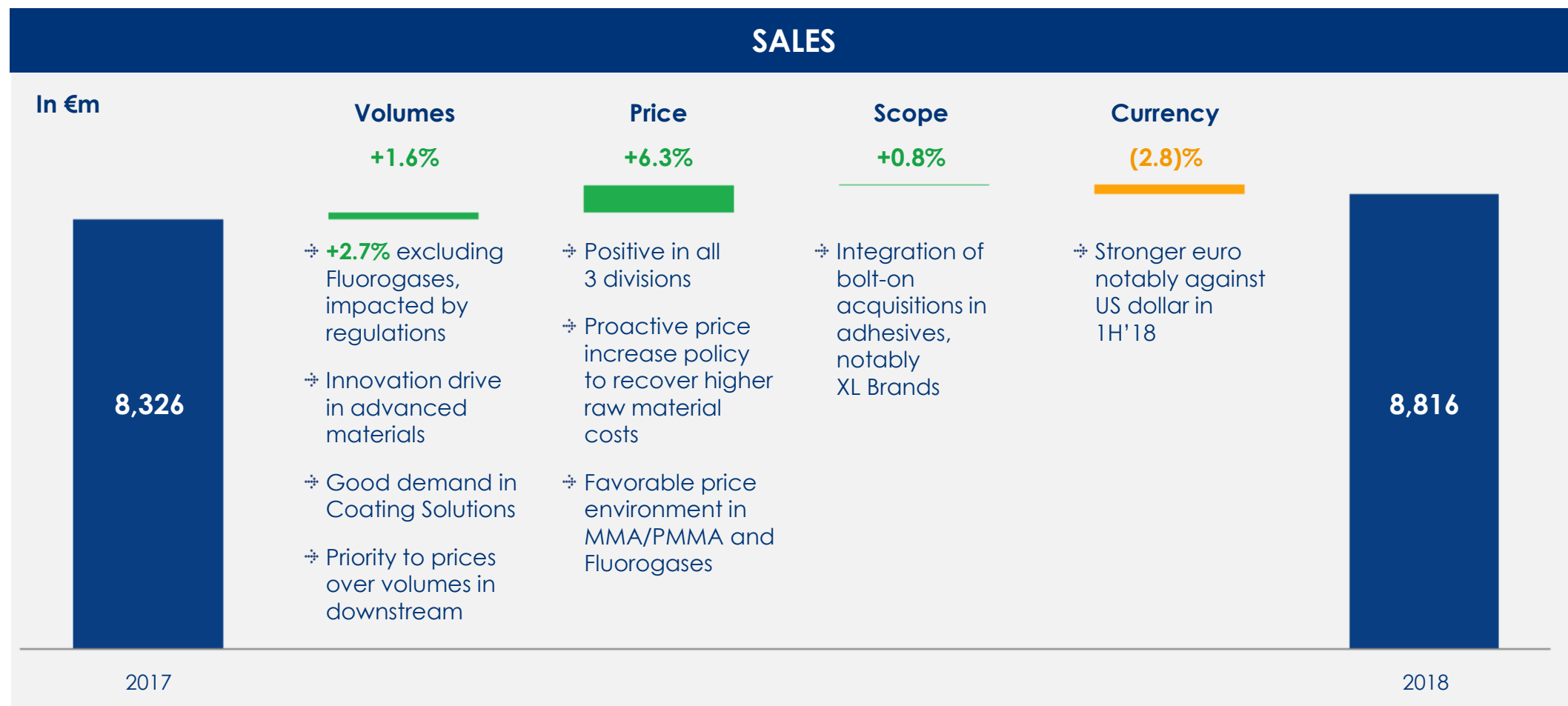
**€499m** free cash flow

- ⚡ Strong cash generation
- ⚡ Net debt down at **€1bn** (€1,056m at 31 December 2017)
- ⚡ **20%** gearing and **0.7x** 2018 EBITDA

## 2018 KEY FIGURES

In €m (except EPS)	2017	2018	CHANGE
<b>Sales</b>	8,326	<b>8,816</b>	+5.9%
<b>EBITDA</b>	1,391	<b>1,474</b>	+6.0%
<b>EBITDA margin</b>	16.7%	<b>16.7%</b>	
<b>Recurring operating income (REBIT)</b>	942	<b>1,026</b>	+8.9%
<b>REBIT margin</b>	11.3%	<b>11.6%</b>	
<b>Adjusted net income</b>	592	<b>725</b>	+22.5%
<b>Net income – Group share</b>	576	<b>707</b>	+22.7%
<b>Adjusted EPS (in euros)</b>	7.82	<b>9.51</b>	+21.6%

## 2018 SALES BRIDGE



## HIGH PERFORMANCE MATERIALS (45% OF GROUP SALES)

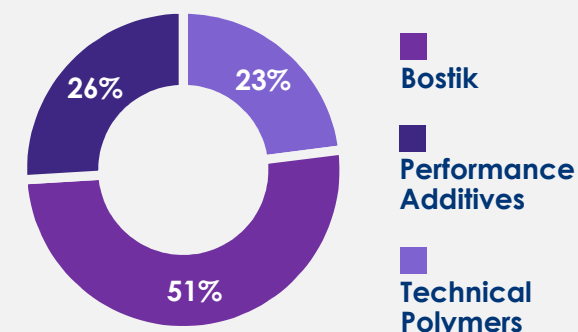
### 2018 KEY FIGURES

In €m	2017	2018	Change
Sales	3,830	3,970	+3.7%
EBITDA	632	640	+1.3%
EBITDA margin	16.5%	16.1%	
REBIT	474	481	+1.5%
REBIT margin	12.4%	12.1%	

### 2018 SALES DEVELOPMENT

Volumes	+2.7%
Prices	+2.0%
Currency	(2.9)%
Scope	+1.8%

### 2018 SALES BY BUSINESS LINE



### 2018 HIGHLIGHTS

#### +2.7% volumes on high 2017 performance

- Sustained demand in advanced materials for lighter materials, batteries, 3D printing and consumer goods and ramp-up of new industrial units
- Volume growth in adhesives held back by priority given to price increases

#### Prices up 2.0% reflecting the Group's continued actions to increase selling prices over the year, especially in adhesives

#### EBITDA slightly up YoY and EBITDA margin holding firm in a more unfavorable environment for raw materials and currencies

- Excellent contribution, notably in 1Q'18, from specialty molecular sieves given the particularly high density of projects finalized in 2018
- Adhesives performance temporarily impacted by higher raw material costs
- Benefits from recent acquisitions in adhesives, notably XL Brands

## INDUSTRIAL SPECIALTIES (31% OF GROUP SALES)

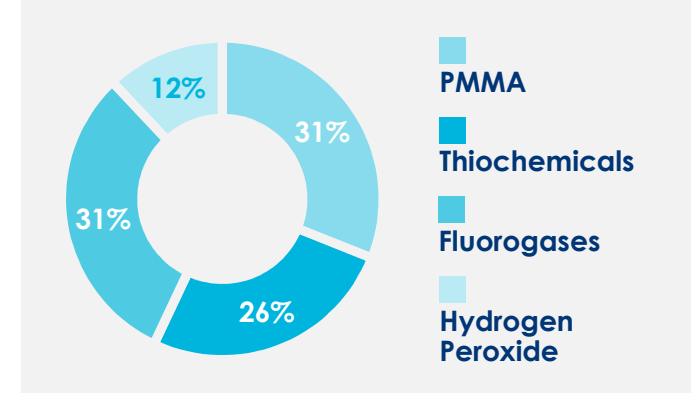
### 2018 KEY FIGURES

In €m	2017	2018	Change
Sales	2,545	2,699	+6.1%
EBITDA	585	675	+15.4%
EBITDA margin	23.0%	25.0%	
REBIT	411	497	+20.9%
REBIT margin	16.1%	18.4%	

### 2018 SALES DEVELOPMENT

Volumes	(3.4)%
Prices	+12.0%
Currency	(2.5)%
Scope	-

### 2018 SALES BY BUSINESS LINE



### 2018 HIGHLIGHTS

**+12.0% price effect, positive in each of the 4 Business Lines**

**(3.4)% volumes as a consequence of lower sales quotas in Europe and the United States in Fluorogases**

**All 4 Business Lines contributing to excellent EBITDA performance and 25.0% EBITDA margin**

- Tight market conditions overall in MMA/PMMA with some normalization in the last few months of the year
- Good performance of Thiochemicals and Hydrogen Peroxide, particularly in Asia
- Benefits from F-Gas regulation in Europe in Fluorogases, which achieved excellent results, above our expectations, surpassing the high levels of the 2017 reference year



## COATING SOLUTIONS (24% OF GROUP SALES)

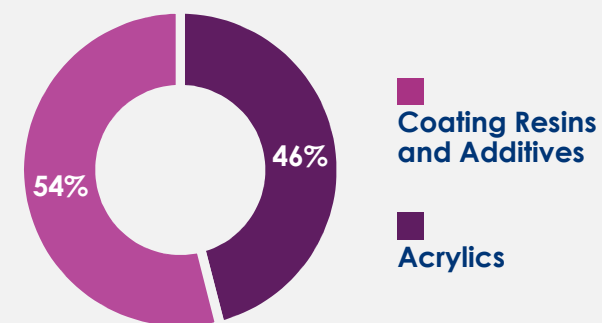
### 2018 KEY FIGURES

In €m	2017	2018	Change
Sales	1,924	2,120	+10.2%
EBITDA	244	243	(0.4)%
EBITDA margin	12.7%	11.5%	
REBIT	135	140	+3.7%
REBIT margin	7.0%	6.6%	

### 2018 SALES DEVELOPMENT

Volumes	+6.0%
Prices	+7.4%
Currency	(2.9)%
Scope	(0.4)%

### 2018 SALES BY BUSINESS LINE



### 2018 HIGHLIGHTS

**Prices up 7.4% YoY reflecting higher selling prices across the entire chain**

**Good volume momentum mainly in Asia and the United States with a +6.0% effect**

#### Stable EBITDA

- Gradual improvement of market conditions in acrylic monomers
- Good volumes in downstream acrylics but impact of higher raw material costs, notably acrylic acid and MMA

**11.5% EBITDA margin reflecting the dilutive impact of higher selling prices on this ratio**

## EXCELLENT CASH GENERATION

### RECONCILIATION OF EBITDA TO NET CASH FLOW

In €m	2017	2018
<b>EBITDA</b>	<b>1,391</b>	<b>1,474</b>
Current taxes	(208)	(180)
Cost of debt	(92)	(90)
Change in working capital and fixed assets payables <sup>(1)</sup>	(46)	(75)
Recurring capital expenditure	(420)*	(500)
Others (including non-recurring items)	(50)*	(69)
<b>Free cash flow excluding exceptional capex</b>	<b>575</b>	<b>560</b>
<b>EBITDA to cash conversion rate</b>	<b>41%</b>	<b>38%</b>
Exceptional capital expenditure	(10)	(61)
<b>FREE CASH FLOW</b>	<b>565</b>	<b>499</b>
Impact of portfolio management	(5)	(213)
<b>NET CASH FLOW</b>	<b>560</b>	<b>286</b>

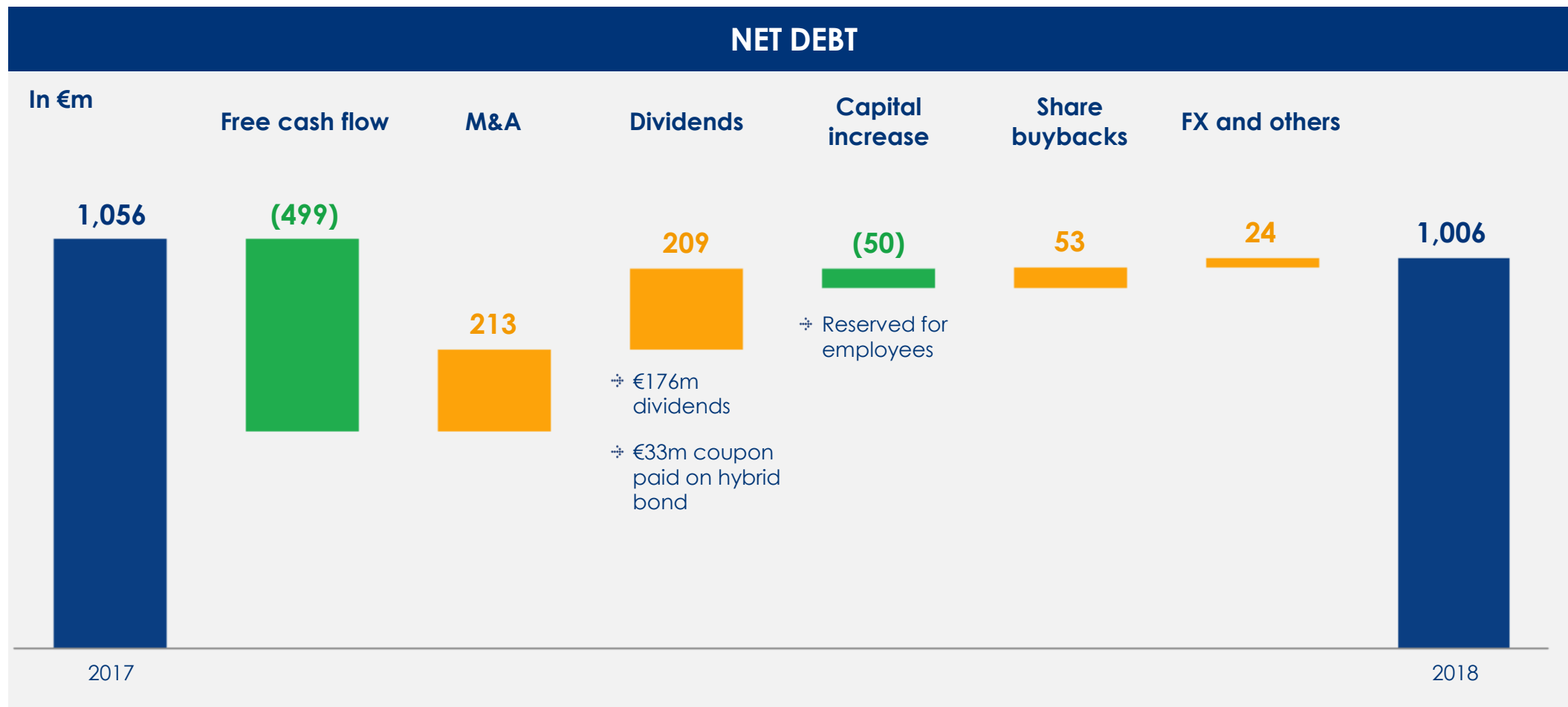
<sup>(1)</sup> Excluding non-recurring items and impact of portfolio management

\* Restated 2017 figures

### 2018 HIGHLIGHTS

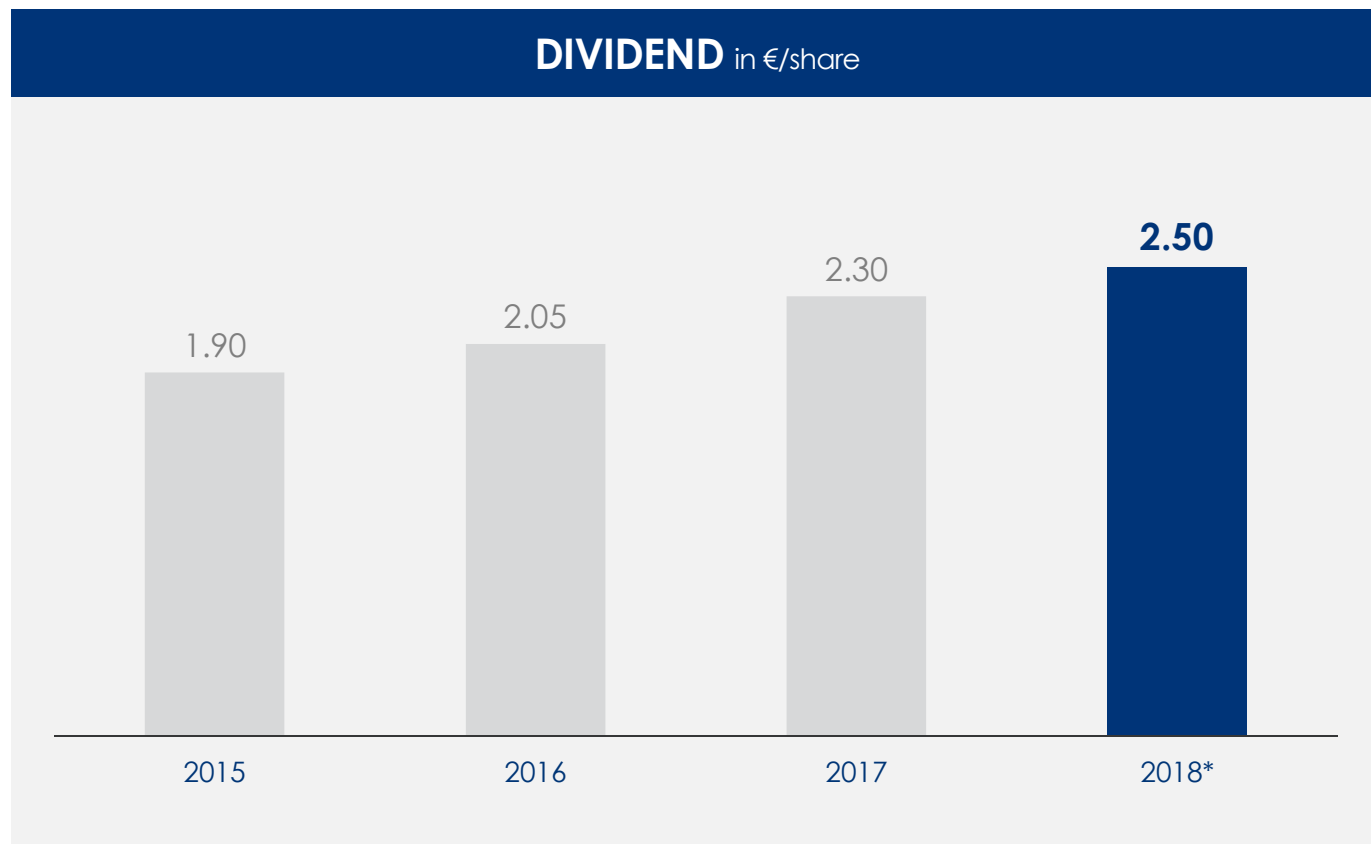
- ❖ **EBITDA to cash conversion rate above Group's 35% target**
- ❖ **Tax rate: 19% of REBIT** (excl. exceptional items)
  - US tax reform benefits and geographic mix of earnings
  - Down significantly on 2017 (26%)
  - 2019e tax rate: ~21% of REBIT
- ❖ **Tight management of working capital in a context of higher selling prices and raw material costs**
- ❖ **5.7% recurring capex to total sales**
  - In line with the Group's 5.5% guidance
- ❖ **€(213)m M&A corresponding to acquisitions in adhesives (mainly XL Brands)**

## 2018 NET DEBT BRIDGE



# DIVIDEND

## DIVIDEND in €/share



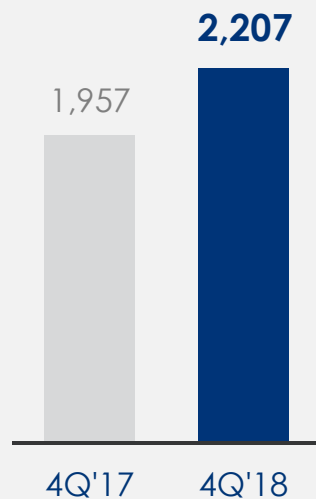
- ❖ ~9% proposed increase
- ❖ In line with dividend policy to pay a stable to growing dividend every year
- ❖ Reflects the very good results and the confidence of the Board in the Group's development prospects
- ❖ Dividend to be paid fully in cash from **29 May 2019**
  - Ex-dividend date: 27 May 2019

\* Dividend proposed at the shareholders' annual general meeting of 21 May 2019

## DELIVERING AN EXCELLENT PERFORMANCE IN 4Q'18

### SALES

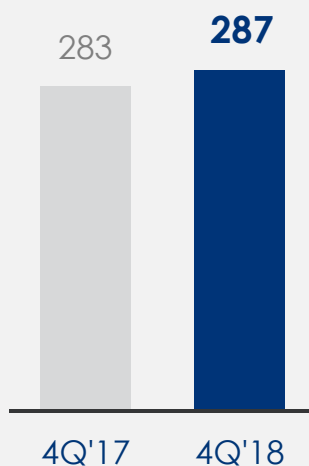
In €m



- ÷ **12.8%** up YoY
- ÷ **+11.2%** at constant scope and FX on +7.7% prices and +3.5% volumes

### EBITDA

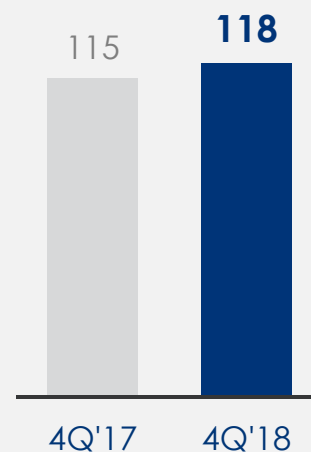
In €m



- ÷ **Up 1.4%** against 4Q'17 record performance
- ÷ In a volatile and mixed macro-economic environment

### ADJUSTED NET INCOME

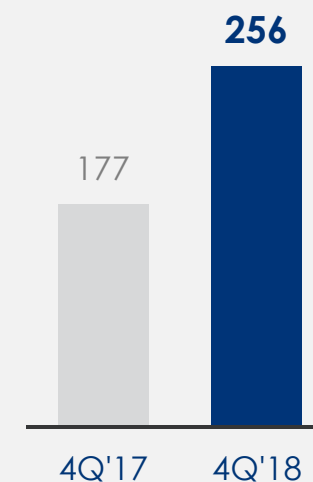
In €m



- ÷ **€1.53** adjusted EPS

### FREE CASH FLOW

In €m



- ÷ Excellent cash generation
- ÷ Tight management of working capital with a +€187m cash inflow (+€95m in 4Q'17)

## 4Q'18 PERFORMANCE BY DIVISION

### HIGH PERFORMANCE MATERIALS

in €m	4Q'17	4Q'18	Change
<b>Sales</b>	909	<b>978</b>	+7.6%
<b>EBITDA</b>	131	<b>125</b>	(4.6)%
<b>EBITDA margin</b>	14.4%	<b>12.8%</b>	

### SOLID PERFORMANCE

- Sales up 5.3% vs 4Q'17 at constant scope and FX
- +3.9% price effect on continued actions to increase selling prices selectively
- Volumes up 1.4% on high 4Q'17
- Performance temporarily impacted by the Group's inventories management in a context of highly volatile oil prices

### INDUSTRIAL SPECIALTIES

in €m	4Q'17	4Q'18	Change
<b>Sales</b>	606	<b>683</b>	+12.7%
<b>EBITDA</b>	120	<b>140</b>	+16.7%
<b>EBITDA margin</b>	19.8%	<b>20.5%</b>	

### A VERY STRONG QUARTER

- Sales up 12.0% vs 4Q'17 at constant scope and FX driven by a positive price effect in all Business Lines
- Better than expected contribution in Fluorogases
- Very solid performance of Thiochemicals and Hydrogen Peroxide
- Normalization as expected in MMA/PMMA, especially in Europe

### COATING SOLUTIONS

in €m	4Q'17	4Q'18	Change
<b>Sales</b>	437	<b>539</b>	23.3%
<b>EBITDA</b>	44	<b>44</b>	-
<b>EBITDA margin</b>	10.1%	<b>8.2%</b>	

### GOOD VOLUMES BUT HIGHER RAW MATERIAL COSTS

- Sales up 22.3% vs 4Q'17 at constant scope and FX
- Volumes up 13.2% mainly driven by Asia and North America
- +9.1% prices on continued pricing actions in the acrylics chain
- Benefits from higher volumes fully offset by the impact of higher input costs in downstream



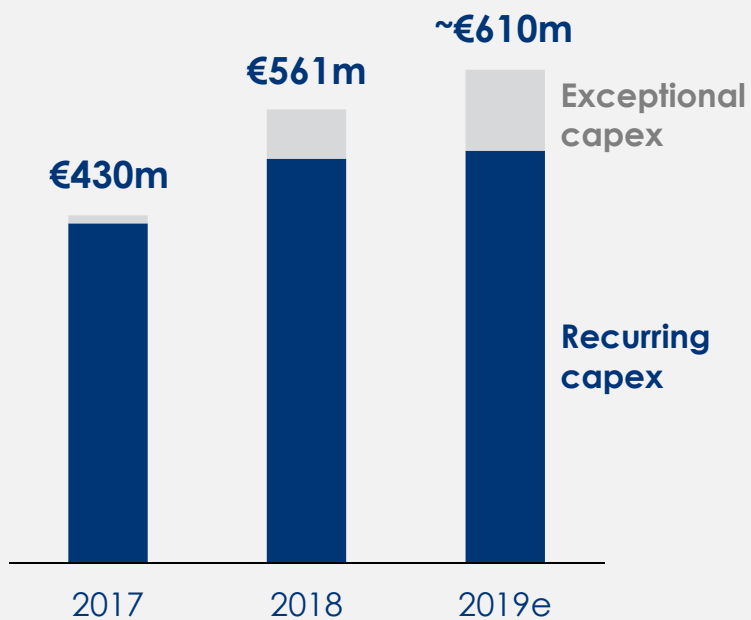
# OUR PRIORITIES GOING FORWARD

**ARKEMA**  
INNOVATIVE CHEMISTRY

# INVEST IN FUTURE GROWTH

## CAPEX PLAN

In €m



## STRONG CAPEX DISCIPLINE

- ✦ ~5.5% recurring capex as a % of Group sales
- ✦ ~€500m exceptional capex over 2018-2021



**x2 thiochemicals**  
capacities in Malaysia

**5% growth p.a.**

Start-up expected  
in 1H 2020



**Specialty polyamides**  
**expansion plan in Asia**  
(incl +50% global PA11)

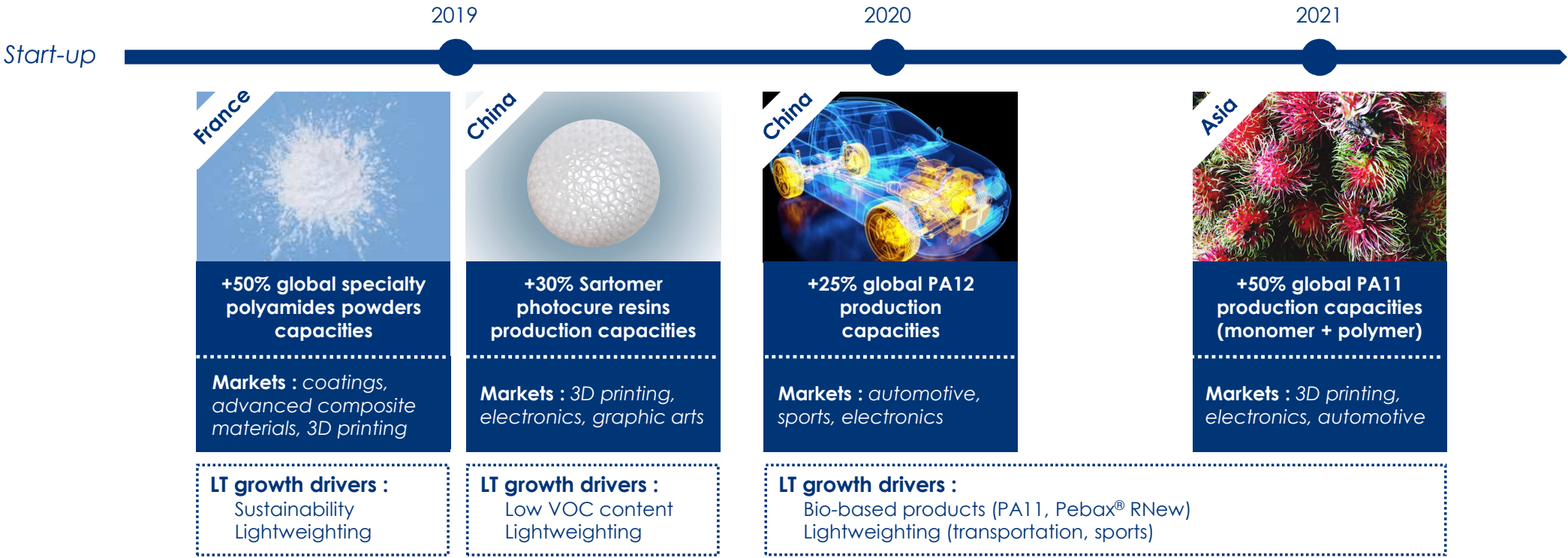
**5% growth p.a.**

Start-up expected  
end 2021

**EXCEPTIONAL CAPEX FOCUSED ON HIGH GROWTH LINES**



# AMBITIOUS INVESTMENT PLAN IN ADVANCED MATERIALS



**~5% VOLUME GROWTH IN ADVANCED MATERIALS BY 2023**

# DELIVER PROFITABLE GROWTH IN ADHESIVES



## Expand organically

- Accelerate geographic expansion (new unit in Japan, ...)
- Strong focus on innovation to increase our position in engineering adhesives



## Create value through M&A

- Roll out acquisition strategy in a fragmented market
- Accelerate implementation of synergies at Den Braven in line with €30m target
- Leverage recently acquired businesses (Afinetica, industrial adhesives in Japan)



## Strengthen operational excellence

- Simplify processes and streamline organization
- Optimize manufacturing footprint
- Leverage integrated worldwide IT systems

# 2019 PRIORITIES

## NEW UNITS



- ❖ Ramp up PEKK plant (US) and coating resins unit (India) started early 2019
- ❖ Start up capacity expansions in acrylics (US), photocure resins (China) and specialty PA powders (France)

## INNOVATION



- ❖ Leverage partnerships in composites
- ❖ Continued strong emphasis on EV, lightweighting, water treatment and 3D

## M&A



- ❖ Implementation of acquisition synergies in adhesives
- ❖ Completion of Sunke deal in Acrylics
- ❖ Ongoing thoughts in High Performance Materials

## OPERATIONAL EXCELLENCE



- ❖ Disciplined cost management
- ❖ Offset at least 50% of fixed cost inflation
- ❖ Tight management of working capital

## CSR



- ❖ Roll out portfolio sustainability assessment

## PRICING INITIATIVES



- ❖ Pursue actions to increase selling prices selectively and pass through higher raw material costs

## 2019 OUTLOOK

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- ❖ Volatile environment and some geopolitical tensions weighing somewhat on global demand
- ❖ Continued focus on internal momentum and implementation of long term strategy
- ❖ Arkema aims to demonstrate its resilience in this more complex environment and to consolidate its financial performance at high levels
- ❖ 1Q'19 EBITDA expected to be slightly below the very high comparison base of 1Q'18

**Arkema aims to achieve in 2019 an EBITDA comparable to the 2018 record level,  
with momentum improving throughout the year,  
driven notably by the growth of specialty businesses**

*2019 takes into account the new IFRS 16 standard.*

## DISCLAIMER

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The information disclosed in this document may contain forward-looking statements with respect to the financial condition, results of operations, business and strategy of Arkema. Such statements are based on management's current views and assumptions that could ultimately prove inaccurate and are subject to material risk factors such as among others, changes in raw material prices, currency fluctuations, implementation pace of cost-reduction projects and changes in general economic and business conditions. These risk factors are further developed in the reference document.

Arkema does not assume any liability to update such forward-looking statements whether as a result of any new information or any unexpected event or otherwise.

Further information on factors which could affect Arkema's financial results is provided in the documents filed with the French *Autorité des marchés financiers*.

Financial information since 2005 is extracted from the consolidated financial statements of Arkema. Quarterly financial information is not audited.

The business division information is presented in accordance with Arkema's internal reporting system used by the management.

The main performance indicators used by the Group are defined in the FY'18 press release. As part of the analysis of its results or to define its objectives, the Group uses in particular the following indicators:

**REBIT margin:** corresponds to the recurring operating income (REBIT) as a percentage of sales

**Free cash flow:** corresponds to cash flow from operations and investments excluding the impact of portfolio management

**EBITDA to cash conversion rate:** corresponds to the free cash flow excluding exceptional capital expenditure divided by EBITDA

**Return on average capital employed (ROACE):** corresponds to the REBIT divided by the average of capital employed at the end of years Y and Y-1.