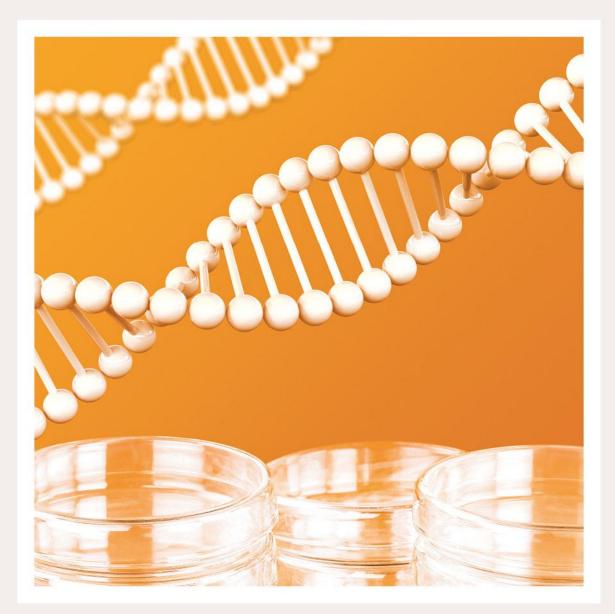


Factbook 2019



Ticker: WCHI www.wacker.com

#### **WACKER: At a Glance**

## Facts & Numbers

€783m

EBITDA in 2019

€4,928m

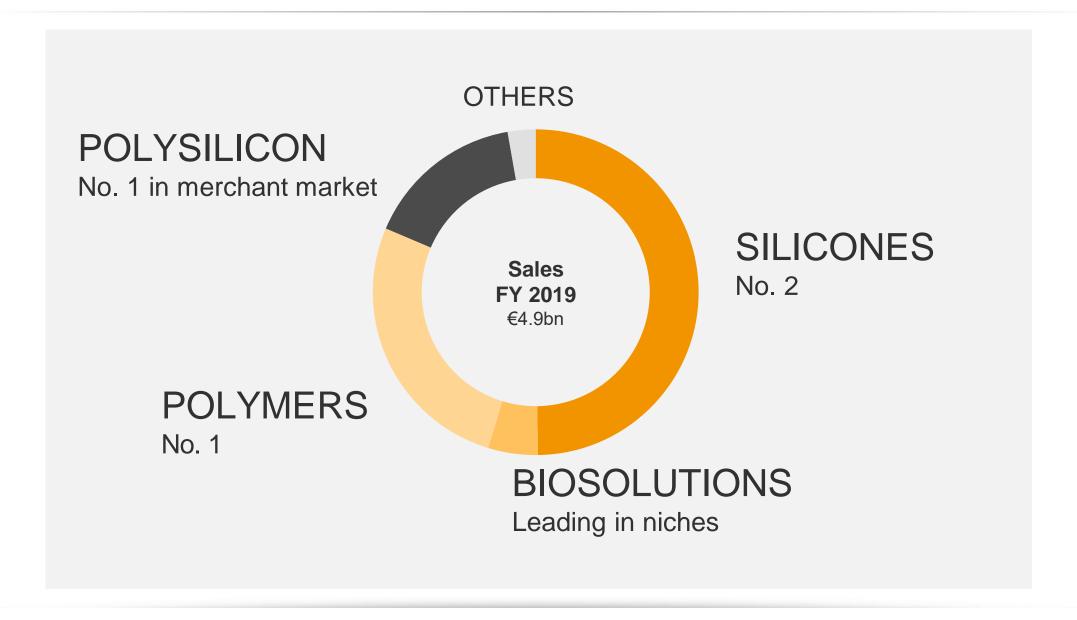
Sales in 2019

15.9% EBITDA margin in 2019

4 Business Segments



#### **WACKER:** An Overview





## Fact Book 2019: Agenda



At a glance\_p.4



Strategy\_p.9



SILICONES\_p.21



POLYMERS\_p.36



**BIOSOLUTIONS**\_p.48



POLYSILICON\_p.57



Sustainability\_p.64



Financials\_p.73





**WACKER AT A GLANCE** 

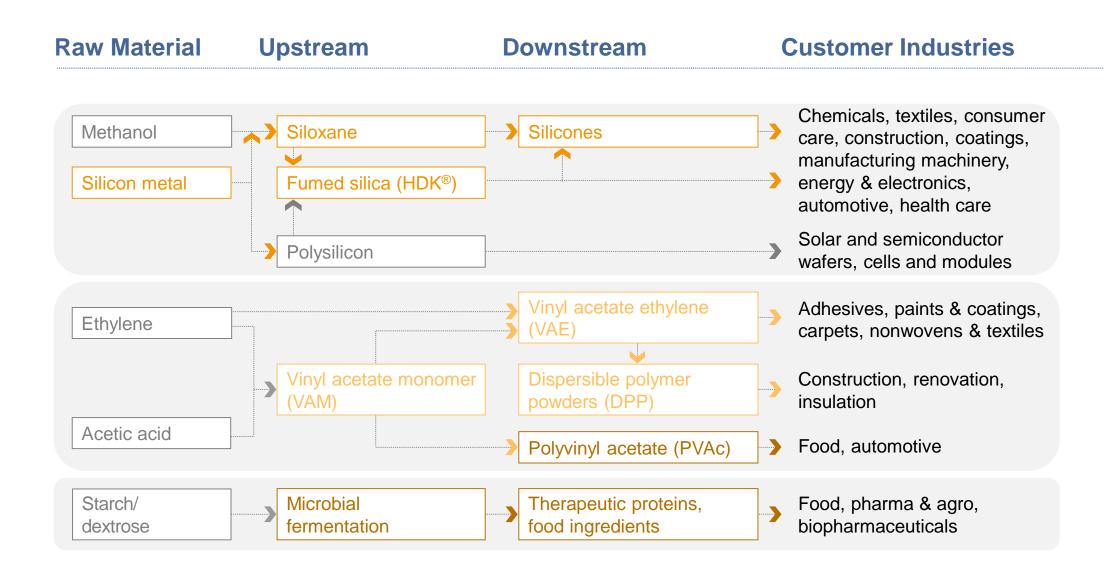
## **Over 100 Years of History**

| 1914   | 1921   | 1947   | 1953  | 1966  | 1978  | 1995   | 1998  |
|--|--|--|---|---|---|--|---|
| Foundation of<br>the "Dr.<br>Alexander<br>Wacker<br>Gesellschaft<br>für elektro-<br>chemische<br>Industrie KG" | Hoechst AG<br>becomes<br>shareholder<br>in Wacker<br>Chemie;<br>providing 50%<br>of the share<br>capital | Start of work<br>in the area of<br>silicones | First production of hyper-pure silicon for the semi- conductor industry | Production<br>start of VAC-<br>Ethylene-<br>Copolymer<br>Burghausen,<br>Germany | Foundation of<br>the Wacker<br>Siltronic<br>Corporation,<br>USA | Takeover of<br>wafer site in<br>Freiberg,<br>Germany | Takeover of<br>the silicone<br>site in<br>Nünchritz,<br>Germany;<br>JV with APCI:<br>APP/WPS <sup>1</sup> |
|  |  |  |   |   |   |  |   |
| 2006   | 2007   | 2010   | 2012  | 2015  | 2016  | 2017   | 2018  |

1) APP/WPS = Air Products Polymers/WACKER Polymer Systems



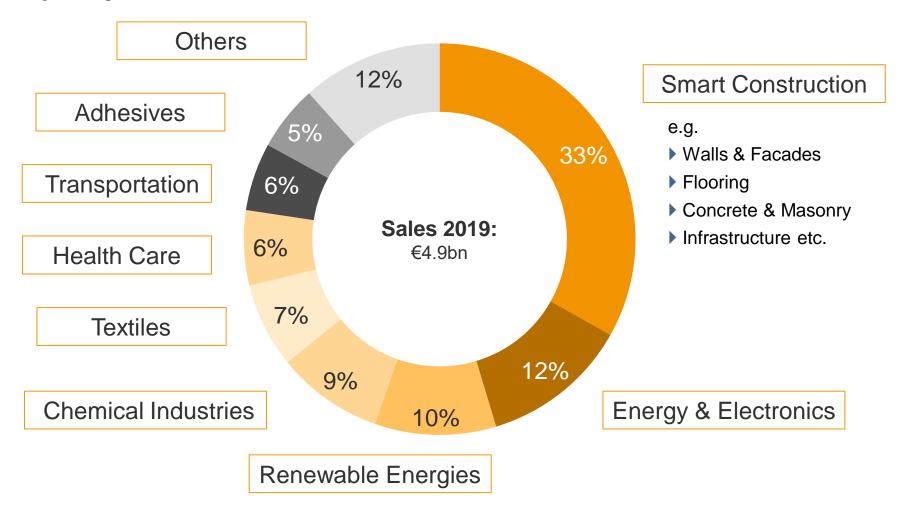
### **Highly-Integrated Operations Based on Five Key Raw Materials**



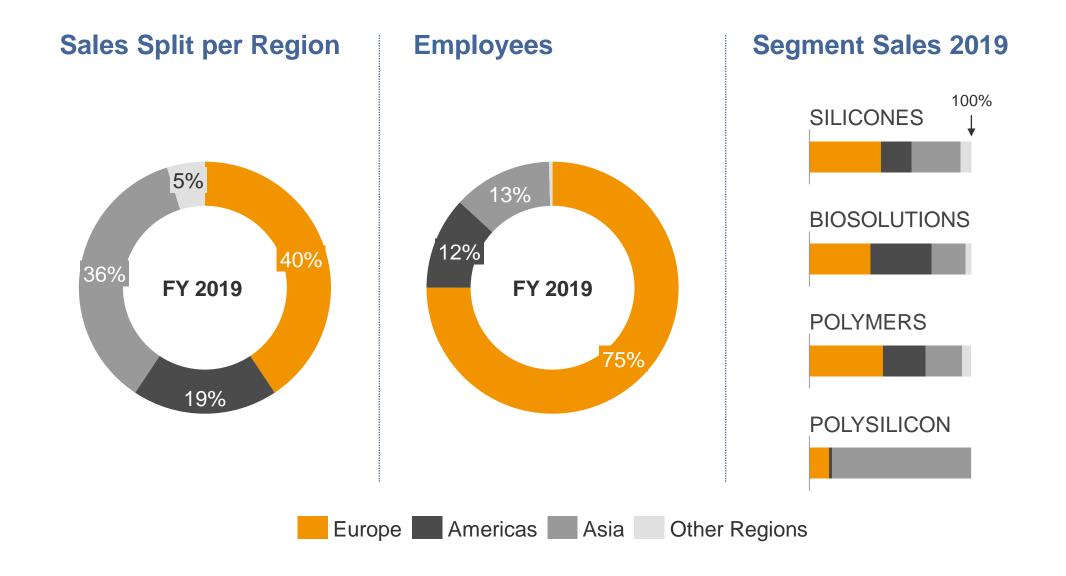


#### Well Diversified End Market Portfolio

#### **Sales Split by End-market**



## Regional Footprint: Globally Present and Close to Customers









**STRATEGY: Managing for Growth and Cash** 

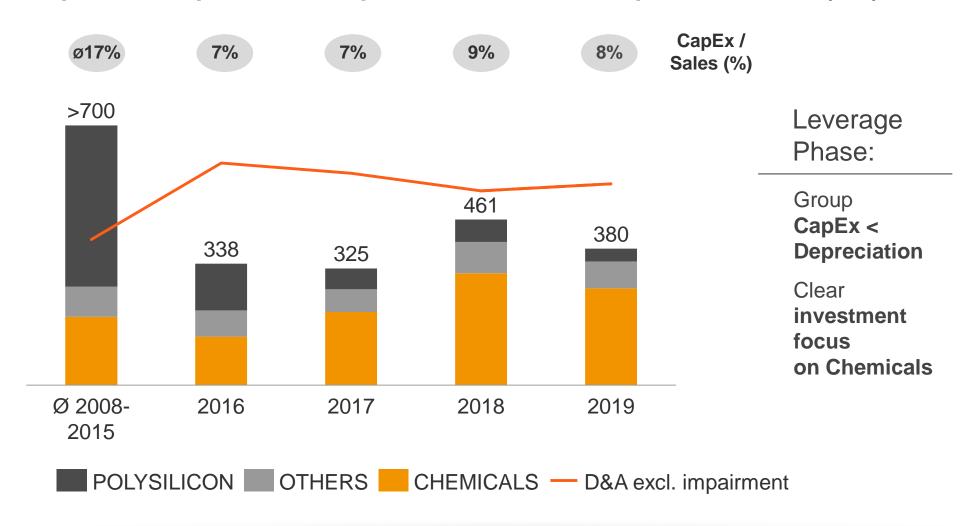
## Targets for the Next Years – Growth and Cash

- Extend Leverage Phase
- 2 Continue to Grow Above Chemical Production

- **3** Focus on Sustainability
- 4 Sustain Attractive Margins Throughout the Cycle
- 5 Generate Cash

# Target: Extend Leverage Phase with Investment Focus on Chemicals

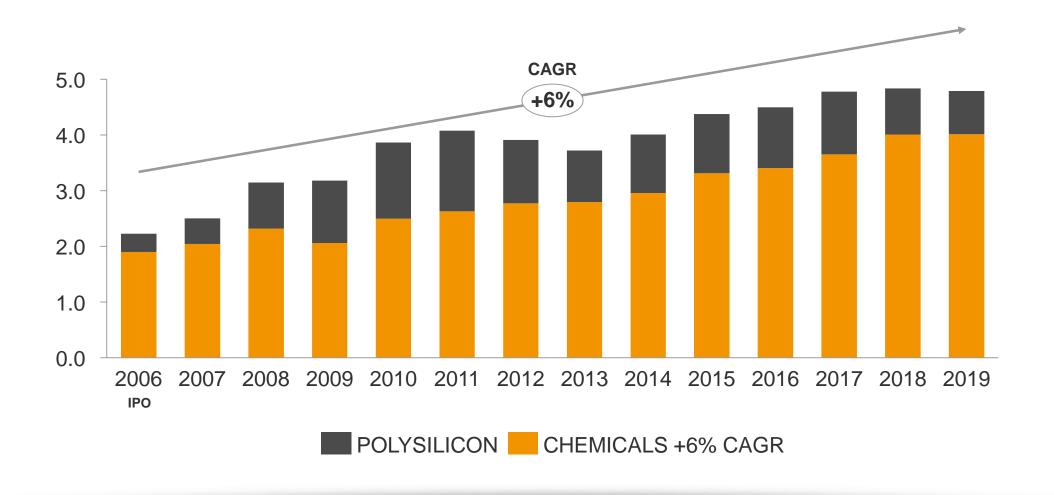
#### CapEx vs. Depreciation expense WACKER Group w/o Siltronic (€m)





# Target: Continue to Grow Above Chemical Production

#### **Development of Sales (€bn) – Chemicals divisions and POLYSILICON**





# Target: Focus on Sustainability

#### **Raw Materials**





Sustainable Sourcing

Product stewardship

#### **Production**



Energy efficiency



Integrated cycles - Recycling

#### **Products**



#### Sustainable Portfolio



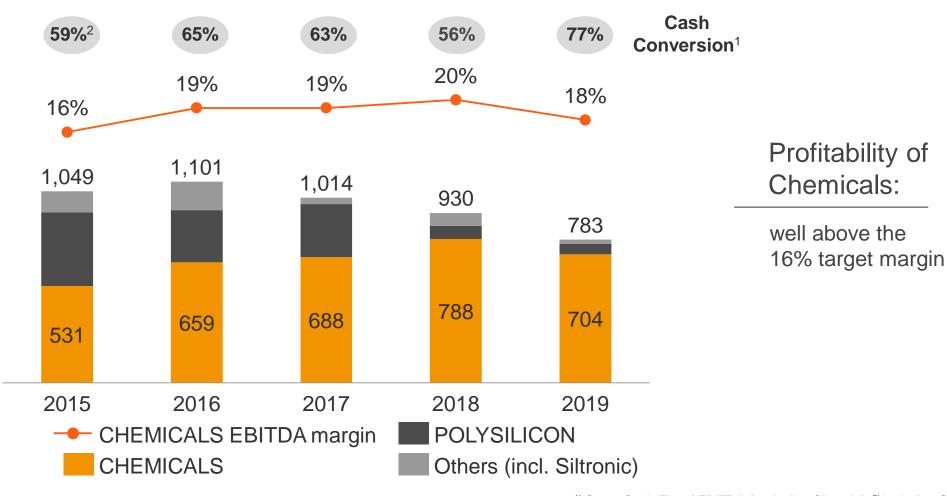
**Enable Sustainable Solutions** 



## 4

# **Target: Sustain Attractive Margins Throughout the Cycle**

#### **Development of Group Earnings (€m) (as reported)**

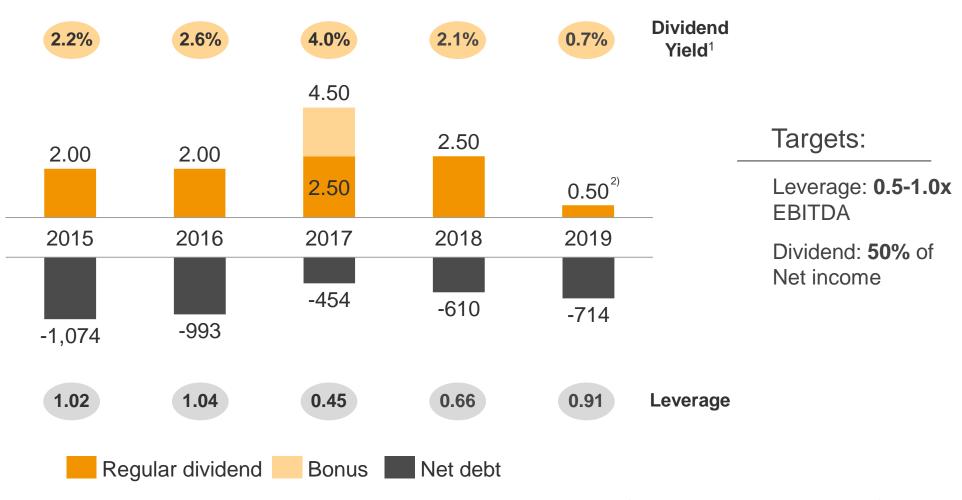


1) Gross Cash Flow / EBITDA (excluding Siltronic); 2) including Siltronic



## Target: Generate Cash

#### **Dividend (€) and Net Debt (€m)**



 $^{1)}\,\mathrm{based}$  on average weighted share price;  $^{2)}\,\mathrm{Dividend}\,\mathrm{proposal}$ 

#### **OPERATIONAL EXCELLENCE**

## Focus on Productivity and Relentless Optimization

#### **Reduce Specific Operating Costs**

- Plant utilization levels
- Specific energy consumption
- Raw-material yields
- Labor productivity & maintenance costs

#### **Evolution of Operating System**



#### **Strong Employee Participation**

- 900 employees trained in total at WOS¹ ACADEMY
- Productivity methods, such as Six Sigma and LEAN

#### **WOS Scorecard 2017**

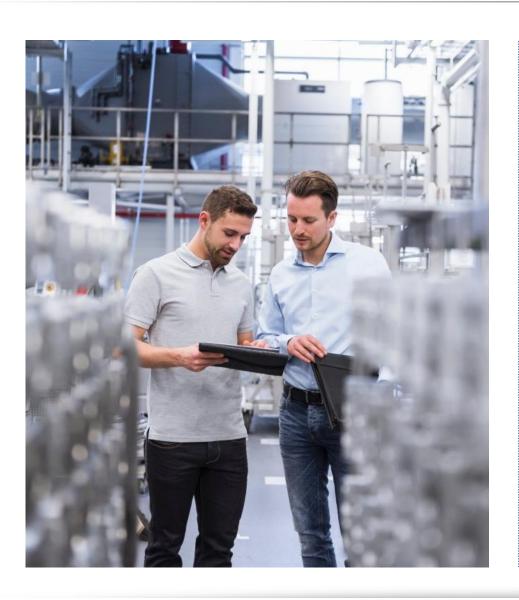
- ▶ 6% improvement in labor productivity
- ▶ 5% drop in specific maintenance costs
- ▶ 3% lower specific energy consumption
- ▶ €140m in business value contribution<sup>2</sup>

1) WOS = WACKER Operating System 2) 2-year reporting period 2017-18



#### **DIGITALIZATION**

## Further Improving Stability and Efficiency in Production



#### **Digital Operations**

#### **Prediction**

Estimate lifetime and maintenance

#### **Condition Monitoring**

Internal view of key equipment

#### **Avoid Surprises**

Anomalies are detected instantly

#### **Soft Sensors**

Process Optimization

#### INNOVATION

## Innovation is Key to WACKER's Business Strategy

#### **Innovation Figures**

3.3% of 2018 group sales spent in R&D

165
R&D Spend
in €m in 2018

730 Employees in R&D

3,900 Active patents

1,700
Pending patent applications

85-100 inventions annually applied for over the last 5 years

45
Scientific collaborations



#### **Tomorrow's Solutions**

New markets & products



#### **Biotech platforms**

New syntheses & molecules



#### **Process Development**

- Scale-up lab and modelling
- Process improvement



#### **Chemistry & Formulation**

Profound formulation knowledge

#### INNOVATION

## Our R&D Pipeline Covers a Diverse Range of Applications



#### **New Battery Solutions**

- Active anode materials for lithium-ion-batteries
- Silicone based thermal interface materials



#### **Adhesives**

- Medical skin adhesives
- Pressure sensitive adhesives for electronics
- Hybrid adhesives



#### **Electronics**

- Ready-to-use electroactive silicone laminates
- Silicones for automotive electronics



#### **Sustainable Products**

- Biocide-free powder paints
- Silicone fluids and polymer binders made from renewable raw materials



#### Construction

- Polymer-modified bitumen emulsions
- Reinforced concrete
- Waterproofing membranes



#### Food / Pharma

- Functional ingredients for food and pharma
- Innovative production systems for biologics

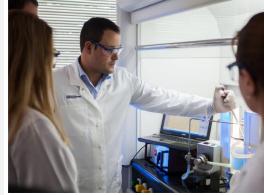


#### **CUSTOMER FOCUS**

#### WACKER ACADEMY – A Global Network for our Customers

15 **WACKER ACADEMIES** 

8,500 **Participants** worldwide



850 **Events Globally** 





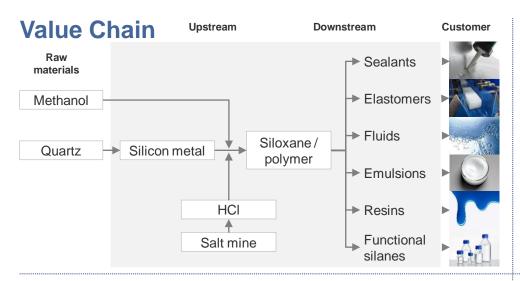
- Customer & Distributor teach-in
- Mix between theory and practice
- Meeting room plus lab
- Direct customer interaction





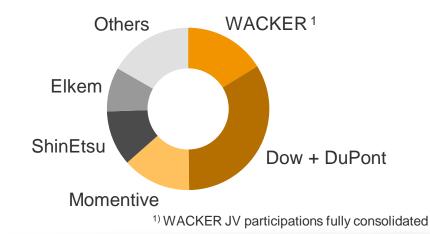
**WACKER SILICONES** 

### An Integrated Global Player with a Leading Market Position





#### **Competitive Landscape 2018**



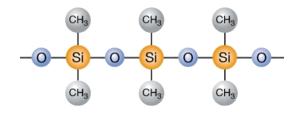
#### **Market Characteristics**

- Historic growth rates above worldwide GDP
- High entry barriers (capital and technology)
- Serving diversified end markets through broad market penetration and wide customer base
- Innovation broadens scope of applications



## Structural Variety as a Formula for Success

#### **Silicone Fundamentals**



Non organic silicon-oxygen (Si-O) backbone chain with organic side groups (CH<sub>3</sub>)

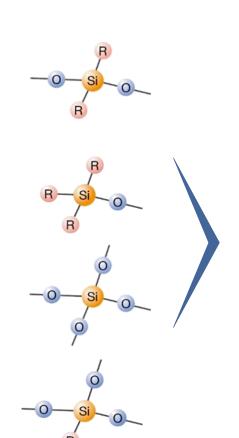
#### **Extremely Stable**

Si-O molecule with very **high bonding energy** 

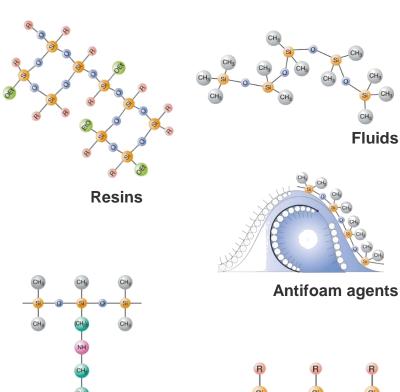
#### **Extremely Versatile**

Multiple ways to modify structure, side groups and chain length

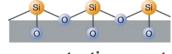
#### **Building Blocks**



#### **Silicone Examples**



**Textile finishes** 



**Masonry protection agents** 

## Silicone – A Material for Unlimited Applications

## **Broad Spectrum of Adjustable Properties**



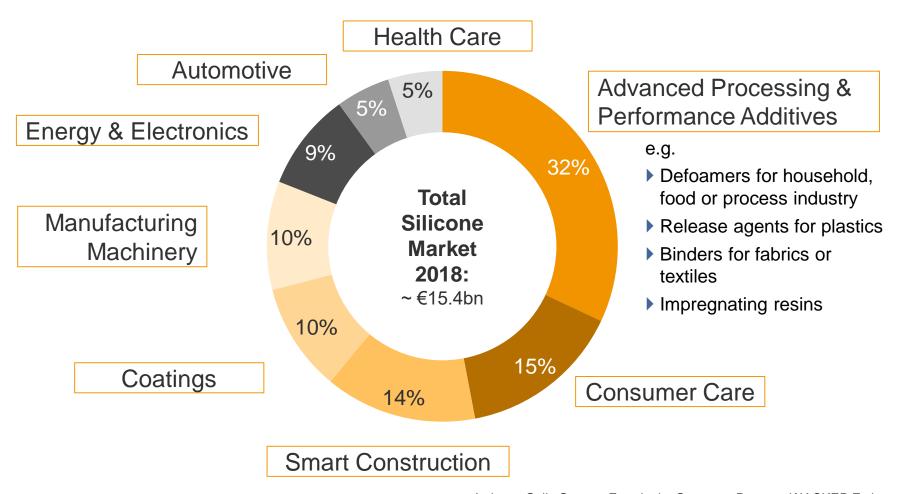
## **Customized Products with Unique Properties**





### Silicones Create Value in Many Industries

#### **Market Structure by Application**

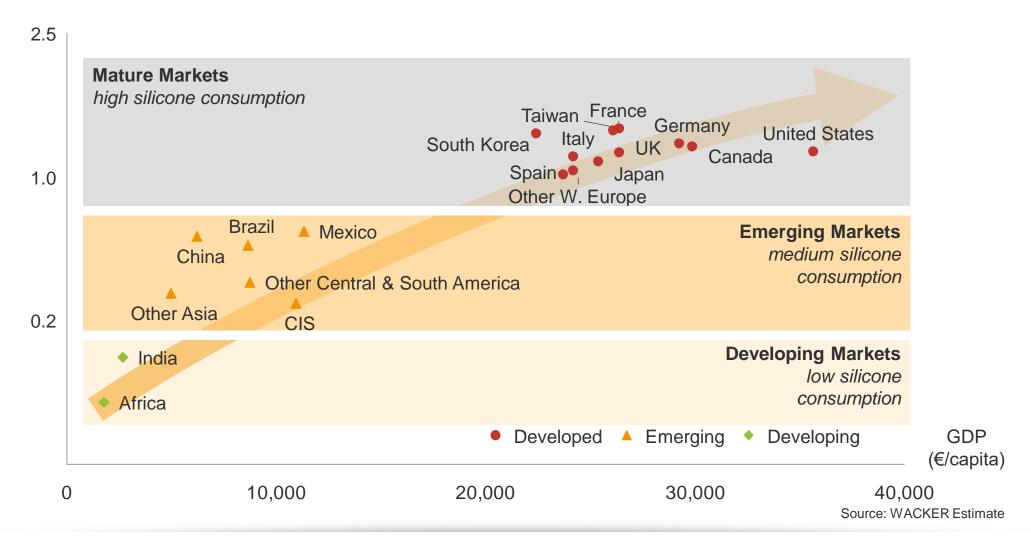


Industry Split; Source: Freedonia, Company Reports, WACKER Estimate



## Regional Growth Opportunities: Emerging Markets Catching Up

#### Silicone Consumption (kg/capita)





## **Increasing Demand for Silicones in Future Growth Markets**



Hair Care



Cosmetics



**Battery** 



E-Motor

**E-Mobility** 

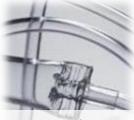


**Paints** 



Concrete

Urbanization

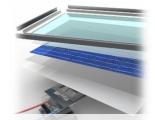


**Medical Care** 



**Wound Care** 





**Encapsulation** 



**Energy Transmission** 

Renewable Energy



**Electronics** 



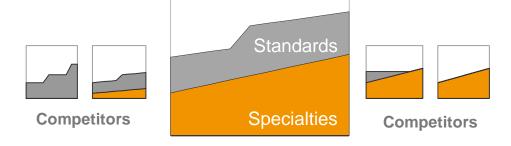
Sensors

Communication



## Full Portfolio Provider with Focus on Specialties

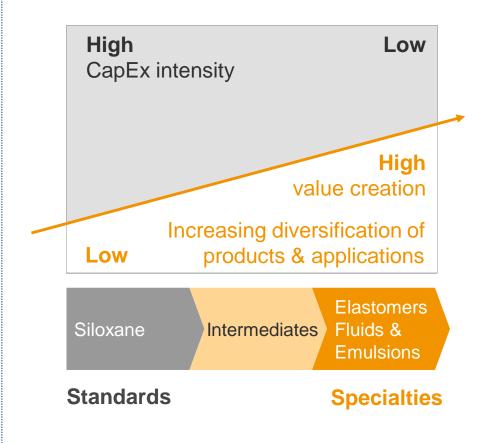
#### **Full Portfolio Provider**



#### WACKER SILICONES

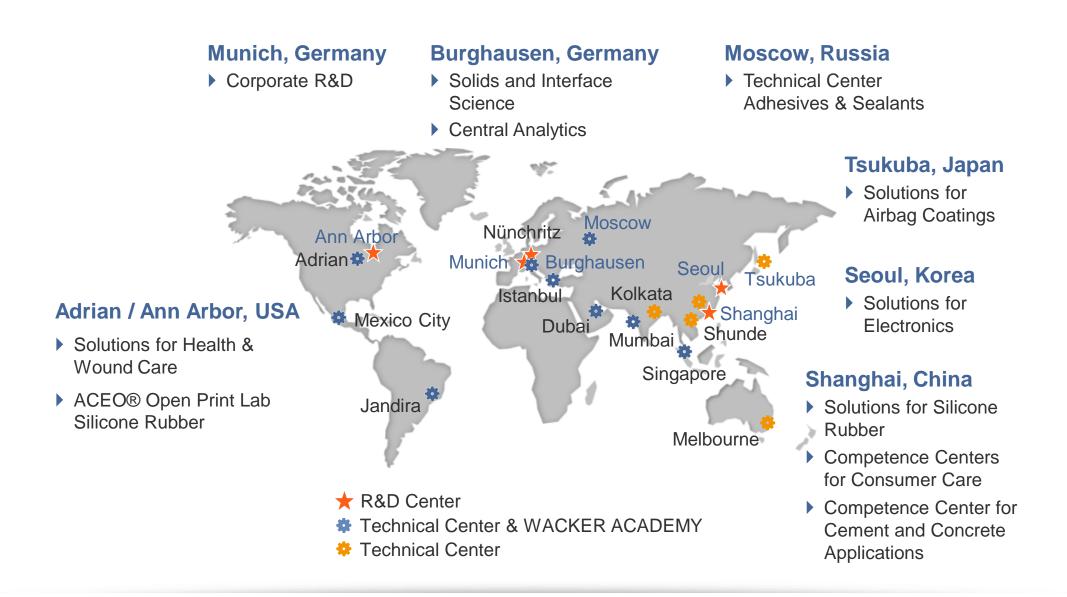
- Backward integrated
- Cost leadership
- Focus on innovation, customers and technical service

#### **Mix Shift Towards Specialties**





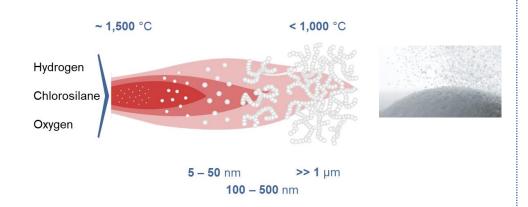
## A Global Competence Network – Close to our Customers



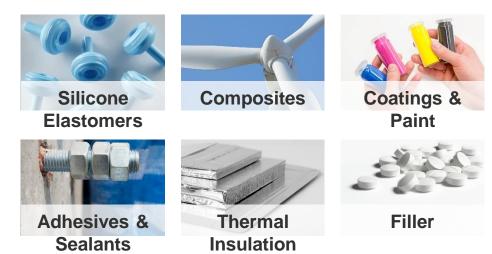
## Fumed Silica HDK® – A Valuable Specialty

#### **Properties**

- Unique effects: powder free flow, thermal insulation, rheology control, reinforcement and many more
- A highly versatile performance enhancer
- A safe and consistent substance, non-hazardous for humans and for the environment



#### **Applications**



## Beside industrial use, fumed silica applications include:

- Cosmetics & Personal care
- Pharmaceuticals (excipient)
- Food (direct food additive) & Feed



#### Fumed Silica HDK® Enables Innovative Insulation Solutions

#### WACKER Solution: Vacuum Insulation Panels (VIPs) filled with HDK®

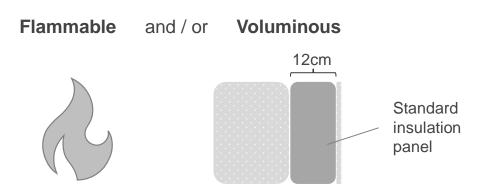




- Excellent insulator
- Improved fire safety
- Extremely robust
- Long-term stable
- Re-usable core
- Light weight

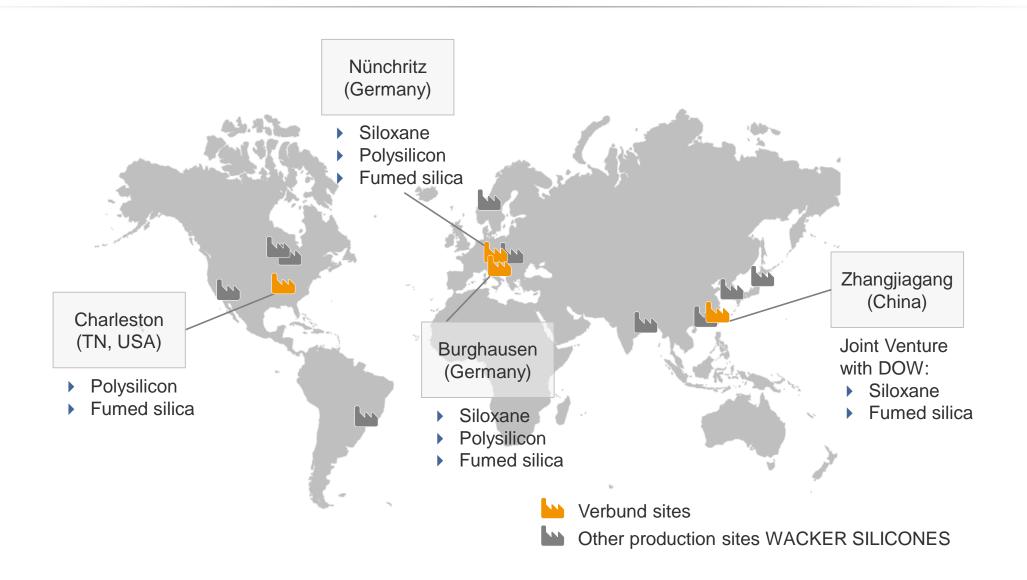
#### Traditional Insulation (e.g. PU, PS, Fiberglass, Mineral wool)





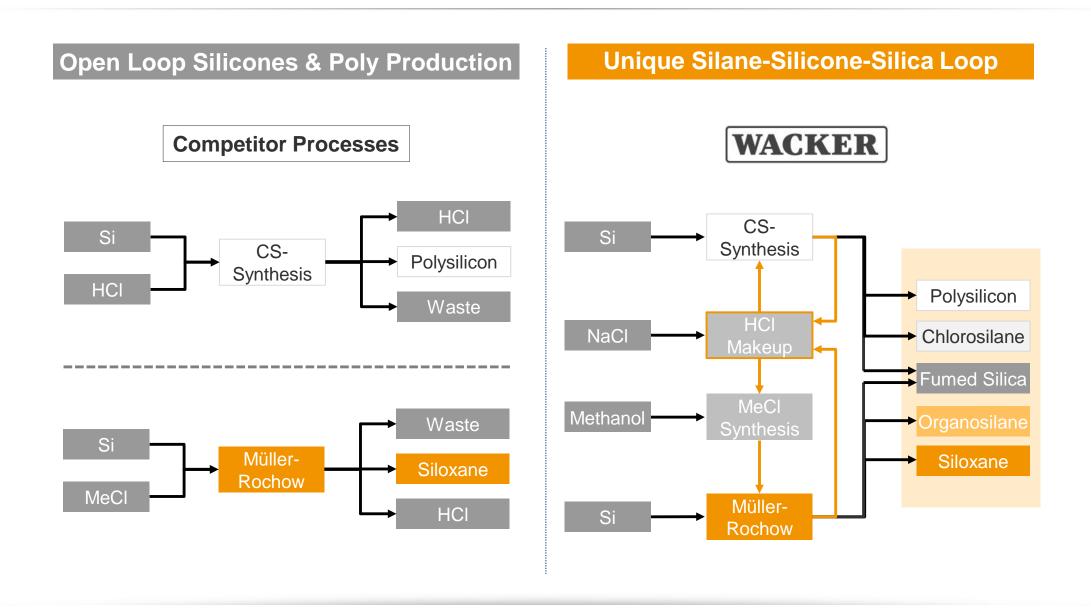


## "WACKER Silicon Verbund" Enables Competitive Cost Position





## WACKER with Highest Level of Integration in the Industry





## Strong Chemistry, Innovation Potential and Set Up



A World of Unlimited Potential



**Innovative Specialty Portfolio** 



**Unique Silicon Verbund** 

High performance products for future growth markets

Growth with focus on specialties

Full portfolio provider with benchmark costs



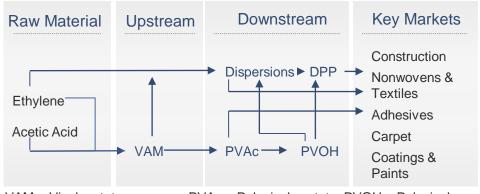




**WACKER POLYMERS** 

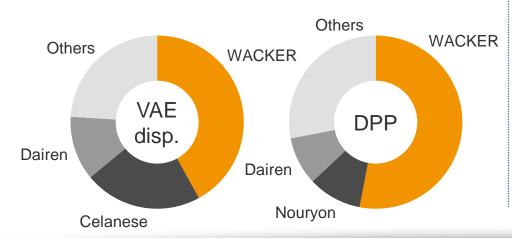
# Market Leader in VAE Dispersions and Powders

#### **Value Chain**

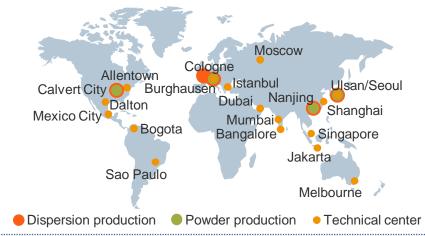


VAM = Vinylacetate monomer, PVAc = Polyvinyl acetate, PVOH = Polyvinyl alcohol

# **Competitive Landscape 2018**Global VAE<sup>1</sup> Dispersions and DPP<sup>2</sup> Market



### **Global Footprint**



#### **Market Characteristics**

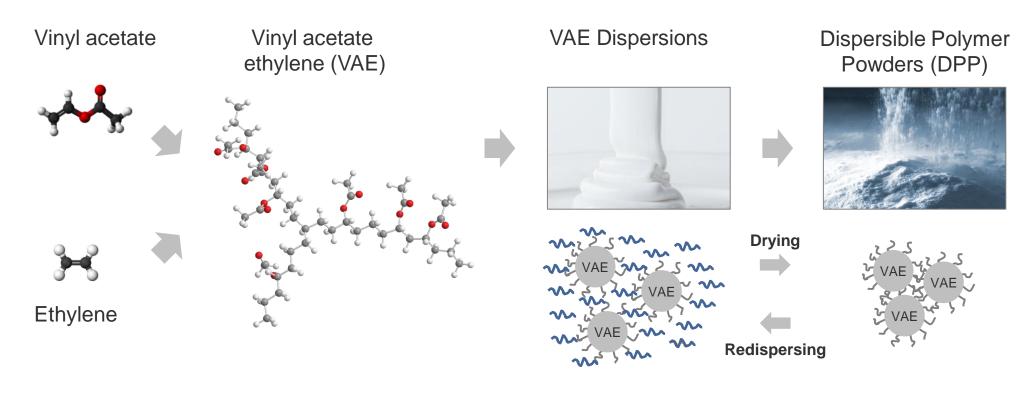
- Diverse market and customer base
- Historic growth above GDP
- Moderate capital entry barriers and high technology barriers in most segments
- Innovation and in-depth formulating expertise broaden scope of applications

<sup>1)</sup> VAE = Vinyl acetate ethylene <sup>2)</sup> DPP = Dispersible Polymer Powders



# From Monomers to Polymers – Enabling Tailor-Made Solutions

#### **VAE Fundamentals**



#### **Environmentally friendly solutions**

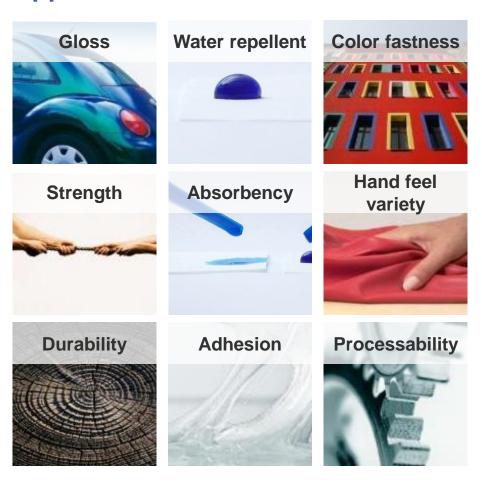
 with ethylene functioning as internal plasticizer, VAE dispersions are waterborne and free of additional solvents

#### **Versatile binders**

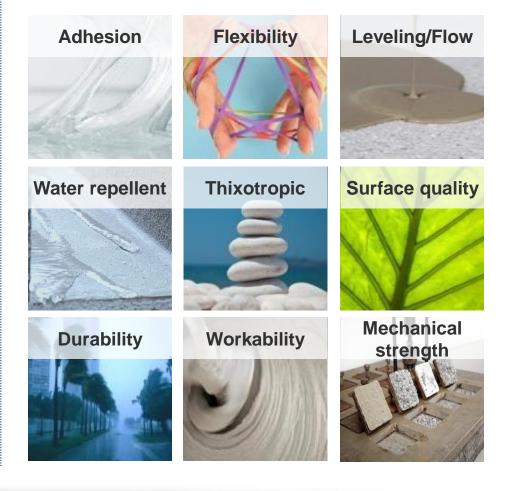
with multiple ways to modify (e.g. ethylene content, stabilizing system, etc.)

# VAE Binders with a Wide Range of Performance Attributes

# Features for Consumer & Industrial Applications

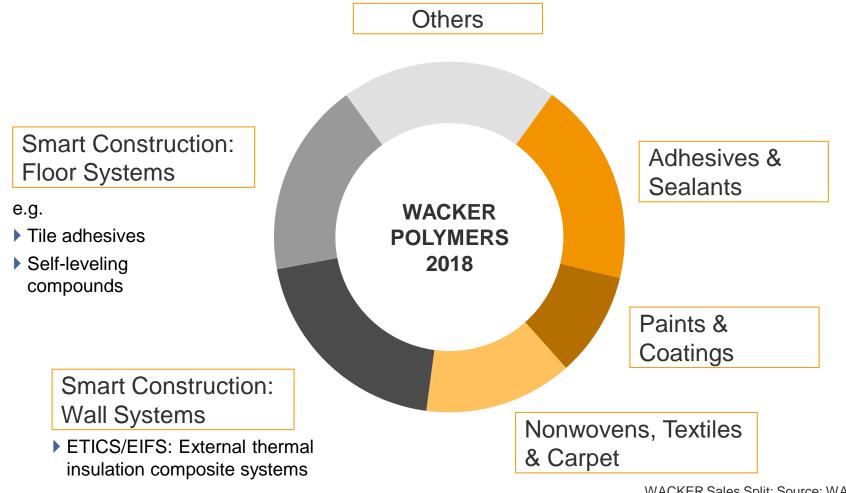


# **Features for Construction Applications**



# **Polymer Binders Creating Value in Many Industries**

# **Market Structure by Application**



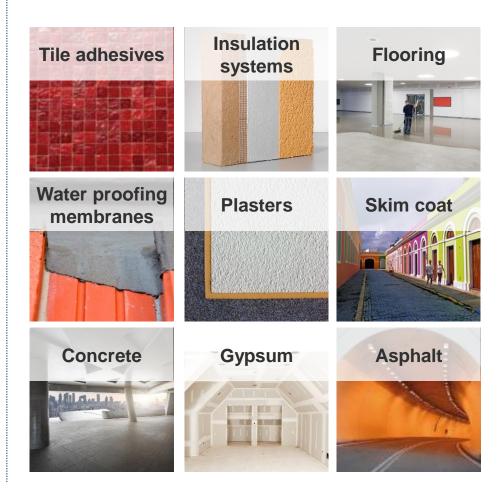
WACKER Sales Split; Source: WACKER Estimate

# **Excellent Performance in a Wide Variety of Applications**

# **Consumer & Industrial Polymers**

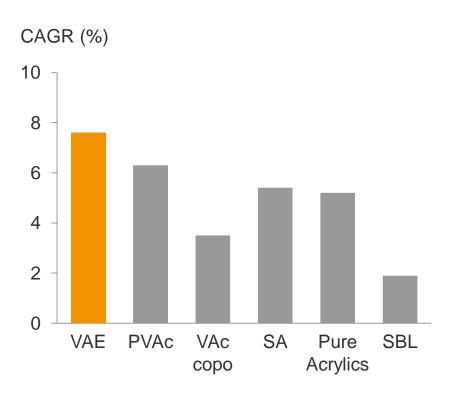


# **Construction Polymers**

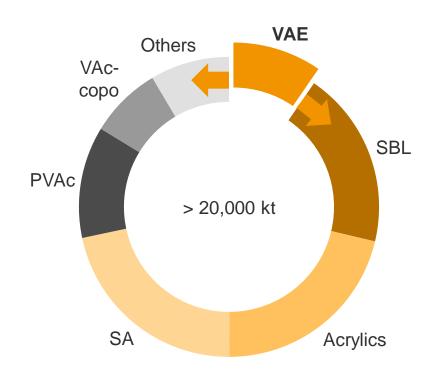


# **VAE Outgrew Other Polymers in Latex Market in the Last Years**

# Synthetic Polymer Latex Market<sup>1</sup> Volume Growth 2011-2016



# **Global Synthetic Polymer Latex Market 2016**



SA = Styrene Acrylics, VAc-copo = Viñyl Acetate Co-Polymers, PVAc = Polyvinyl Acetate, SBL = Styrene Butadiene Latex

1) Source: Kline 2017



# **Growing in Mature Markets and Transforming Emerging Markets**

#### **Enabler in Mature Markets**



# **Enabler in Emerging Markets**

Thick bed CTA<sup>1</sup> Thin bed CTA





1) CTA = Ceramic Tile Adhesives; Source: Transparency, WACKER Estimate



# Dispersible Polymer Powders for Biocide-Free Wall Paints

### **New Product Opportunity for Paint Industry**





Biocide-Free

Simply add water just prior to application – no need for adding biocides to avoid spoilage

Low Weight

Avoids plastic usage for paint buckets

Preparation on demand and at precise dosage

Ease of Storage
At challenging climate conditions

# **Success Based on Combination of Dispersions and Powders**

# **Leading VAE Producer**



# **VAE Dispersions and DPP Tandem**

|              | VAE disp. | DPP      | # of tech centers |  |  |
|--------------|-----------|----------|-------------------|--|--|
| Global       | +         |          | 16                |  |  |
| Americas     | <b>√</b>  | <b>√</b> | 5                 |  |  |
| Asia-Pacific | <b>√</b>  | <b>√</b> | 7                 |  |  |
| EMEA         | <b>√</b>  | <b>√</b> | 4                 |  |  |

 Only producer with production sites for VAE dispersions and DPP in Americas, Europe and Asia

# **Continuously Expanding Footprint**

#### **Latest Capacity Expansions** 2013 VAE dispersions South Korea 2019 Cologne Polymer powder Burghausen 2015 Ulsan South Korea VAE dispersions **Calvert City** 2015 **Nanjing** USA 2020 Polymer powder 2013 **VAE** dispersions Germany VAE dispersions South Korea China 2015 Special mono-2014 mers Germany Polymer powder China 2017 **VAE** dispersions 2018 Germany VAE dispersions China



# A Global Competence Network – Close to Our Customers

# **Global Footprint of Technical Centers**



Technical Center WACKER POLYMERS

# Growth via Customer Focus, Substitution and Innovation



**Customer Focus** 

Global presence with production and technical centers



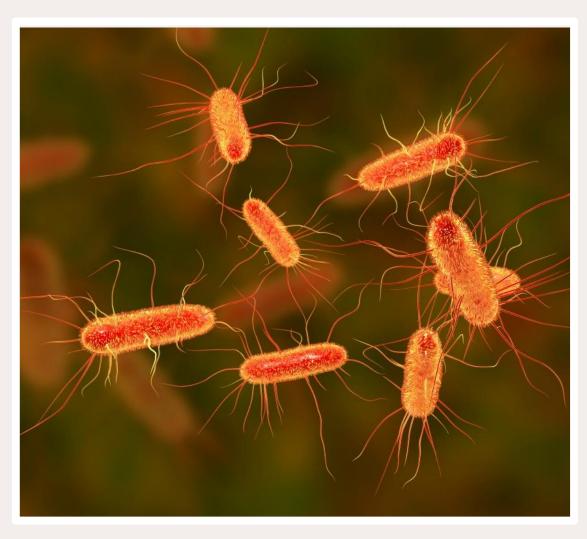
Value based substitution & transformation towards higher building standards



Sustainable binder solutions for target markets



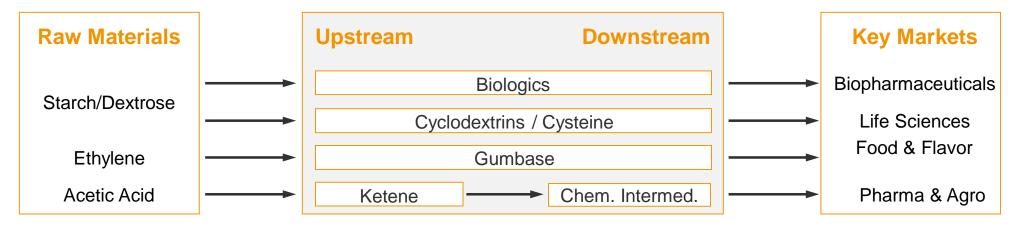




**WACKER BIOSOLUTIONS** 

# **Focusing on Fast-Growing Markets**

#### **Value Chain**



#### Sales Split **Biopharmaceuticals** Food **Nutrition/Bioprocessing Drugs** Custom manufacturing of biologics Cyclodextrins and CD-complexes, with strong technology, fill & finish Cysteine as food ingredient 2018 **Gumbase** Pharma & Agro Gumbase resin for chewing gum **Life Sciences** production Building blocks for drugs or pesticides, auxiliaries and excipients for pharma



# Biopharmaceuticals and Nutrition are Strategic Growth Areas

#### **Accelerated Growth**

#### **Biopharmaceuticals**



- Service business
- Process development
- Genetic modification, fermentation, purification, fill & finish

#### **Nutrition/Bioprocessing**



- Dietary Supplements
- Cysteine for bakery and flavors
- Cyclodextrins for food and household applications

# **Organic Growth**

#### Pharma & Agro



- Cyclodextrins for pharma, industrial and agro applications
- Cysteine for Pharma
- Acetyl acetone and fine chemicals

#### Gum



- ▶ PVAc¹ for gumbase
- Copolymers for innovative products

1) PVAc = Polyvinyl acetate



# **Establishing a Fast Growing Biopharmaceuticals Business**

# **Established by R&D and Acquisitions**







▶ 2005: ProThera (Jena)

Scil Proteins Production (Halle)

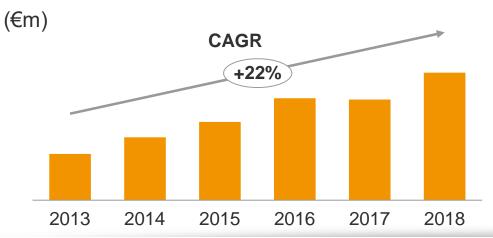
> 2018: SynCo Biopartners (Amsterdam)

### **Business Model**





# **Biopharmaceuticals Sales Growth**



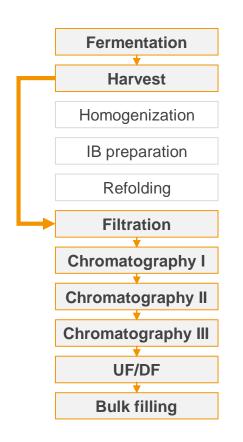
#### **Rationale**

- Strengthened position as microbial contract manufacturer globally
- SynCo transaction doubled WACKER Biotech's fermentation capacity for pharmaceutical actives
- Leverage our proprietary ESETEC® technology

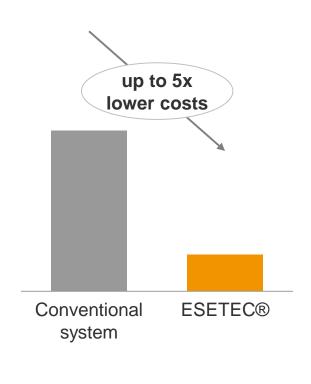


# Time and Cost-Efficient Manufacturing of Biopharmaceuticals

# ESETEC® (E.coli secretion technology)

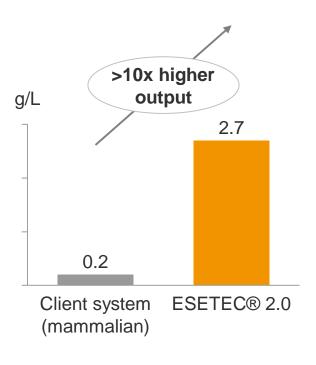


▶ ESETEC® reduces the number of process steps



▶ ESETEC® reduces production costs

#### **Example: Medimmune Project**



ESETEC® significantly increases yields



# Cyclodextrins & Cysteine: The Pillars of Our Nutrition Business

# **Cyclodextrin Applications**



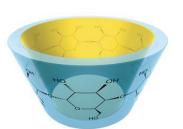
Emulsifier Whip-it



Taste masking



Curcumin Soluble fiber complex



Vegetarian sausages



Fat-binding fiber



Bakery

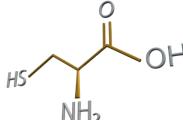
# **Cysteine Applications**



Dough Softening



Vegetarian Savory Flavor





**Probiotics** 



**Anti-Fruit Browning** 



# **Gumbase: Leveraging Our Leading Global Market Position**

#### VINNAPAS® Gumbase Resins

- Leading supplier of PVAc<sup>1</sup>
   to the chewing gum industry
   with over 60 years of experience
- ▶ Two world-scale sites in Germany and China with highest food quality standards



#### **Innovation**

CAPIVA® platform for next generation chewing gums:

### **CAPIVA® S:**

Simplified gum base formulation replacing elastomers and resins



#### CAPIVA® C:

New kind of gum made in a cooking process enabling new shaping technologies.



1) PVAc = Polyvinyl acetate

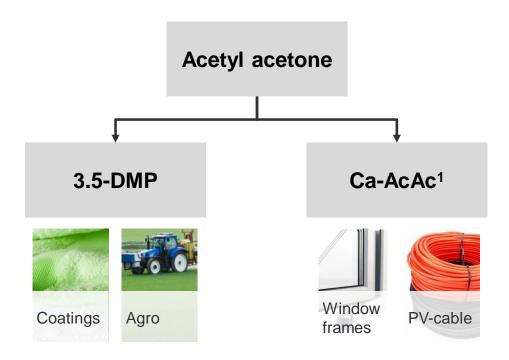


**Ketene Products** 

# Pharma & Agro: Profitable Business with Our Ketene Products

### **Acetic Acid** Ketene continuous high temperature process **Acetyl Acetone** Isopropenyl Acetate (IPA) (AcAc) Infra-Poly-Pharma Agro ethylene structure Auto-**Vitamins** Polymers Agro motive

# **Acetyl Acetone Downstream**



 Other Metal-AcAc salts for e.g., rubber curing (Co), print applications (Ti), PVC stabilization (Zn)

1) Ca-AcAc = Calcium Acetylacetonate



# **Well Positioned for Further Growth**



**Unique Technology Platforms** 



**Innovative Solutions Partner** 



**Strong Track Record** 

Develop fast growing biotechnology businesses

Leveraging our know-how, experience and assets

Continuous investments in innovation and growth



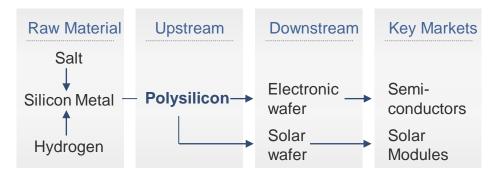




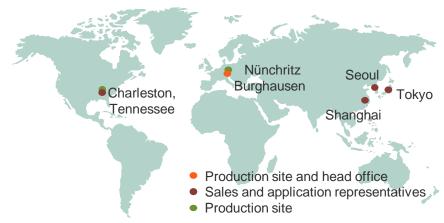
**WACKER POLYSILICON** 

# A Market Leader in Cost and Quality

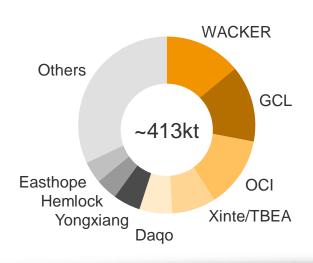
#### **Value Chain**



### **Global Footprint**



### **Competitive Landscape 2018**



#### **Market Characteristics**

- PV market growth driven by increasing competitiveness of solar as a source of power
- Excellent product quality is key to highest conversion efficiencies in solar
- Cost and quality are decisive for market success
- Intense competition further drives industry consolidation

Source: Industry announcements; WACKER estimate



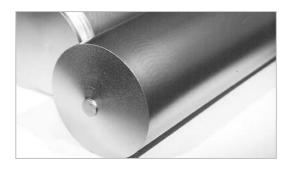
# Solutions for all Silicon-Crystal-Pulling- and Wafer-Technologies

# **Product Groups**

Polysilicon chunks



Polysilicon rods



# Various Chip Sizes for Optimized Crucible Filling and Recharging



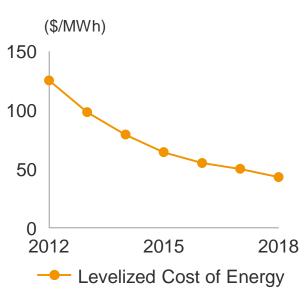






# High Quality Polysilicon Required for Mono Growth Trend

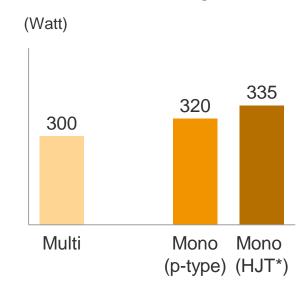




- Solar is lowest cost and most scalable form of energy production
- Market shifts from subsidy driven to competitive pricing

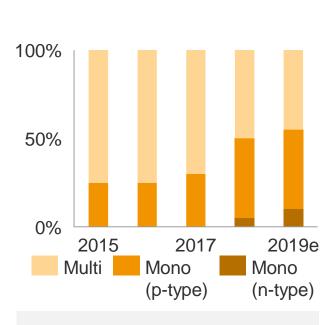
Source: LCOE Analysis, v.12, Lazard

# **Module Output**



- Mono (p-type PERC) modules have ~5% more power output
- New technologies (mono n-type HJT) improve output further

### **Market Share**



- Shift to highest efficiency modules continues
- WACKER material is a key enabler to our customer's processes

\* HJT = Heterojunction technology; Source: ITRPV Roadmap, 10<sup>th</sup> edition, Mar. 2019



# **WACKER Quality Reflected in Overproportional Mono Share**

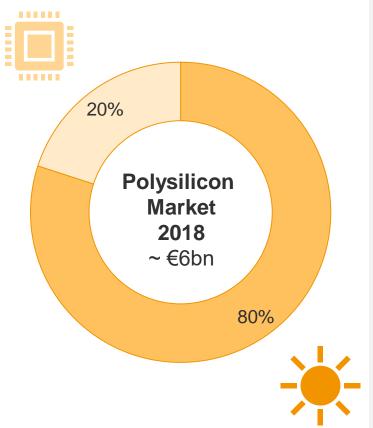
# **Market Structure by Application Segment**

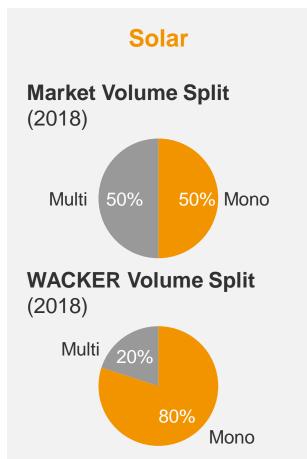


Volume Growth (CAGR 2015-2018)

~5%
Global Silicon Consumption in Semi Market

~25%
WACKER Shipments (in tons)



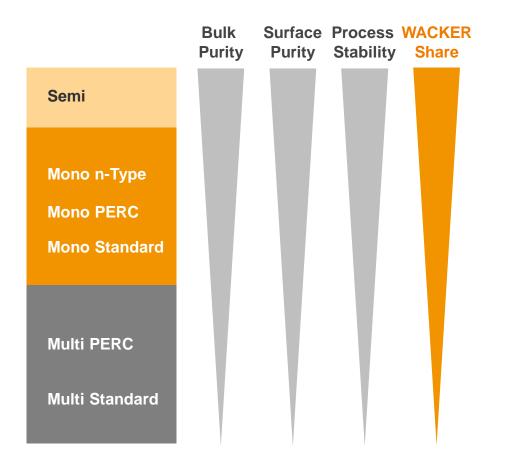


Source: WACKER Estimate; Semiconductor: Gartner

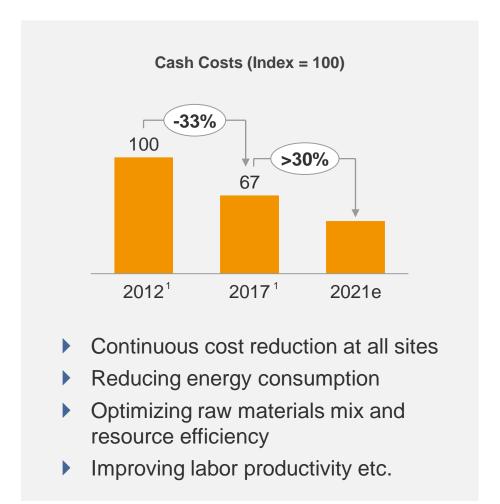


# **Maintaining Highest Quality while Reducing Costs**

# **Polysilicon Market Segmentation**



# **Aggressive Cost Reduction Targets**



1) without Tennessee



# **Generate Cash Flow from Strong Assets**



**Serving High-End Markets** 



**Aggressive Cost Roadmap** 



**Fully Invested** 

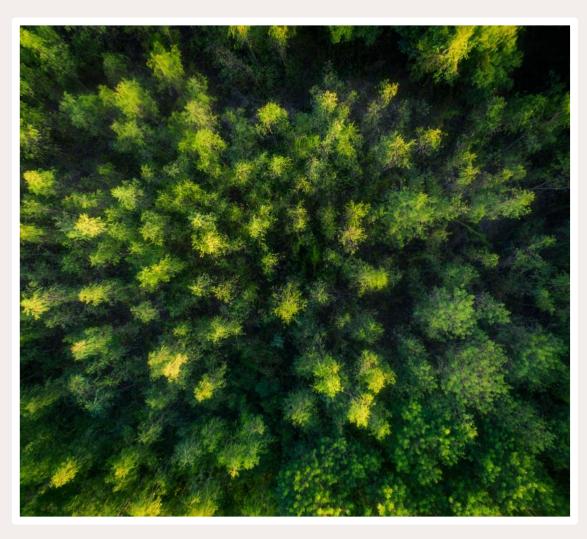
Focus on cost and quality

Cost leadership in high quality polysilicon

Leveraging our assets







**SUSTAINABILITY** 

# Our Contribution to the UN Sustainable Development Goals

 Global challenges that WACKER can help overcome







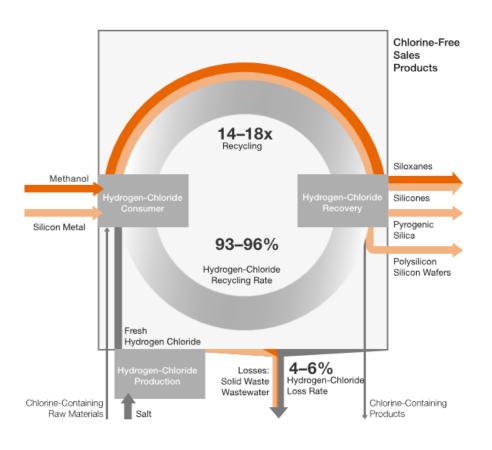


 Our guiding principle for innovations



# WACKER's Integrated Production Helps Avoid CO<sub>2</sub> Emissions

# **Hydrogen Chloride System**



### **Very High Recycling Rates**

 Integrated production at Burghausen prevents about 1 million metric tons of CO<sub>2</sub>eq<sup>1</sup> emissions annually

# **Closed Loops Reduce Waste**

 Byproducts and waste heat are fed back into production via highly complex material and energy loops

1) CO<sub>2</sub>eq=CO<sub>2</sub> equivalent



# **Our Environmental Management Strictly Controls Emissions**

#### **Fewer Dust Emissions**



- Silicon-metal production
- Process optimization
- Reduction of specific dust emissions by 50% since 2012

### **Fewer Water Pollutants**



- Wastewater treatment plant
- Emissions of organic pollutants to the Salzach river have decreased by 42% since 2010

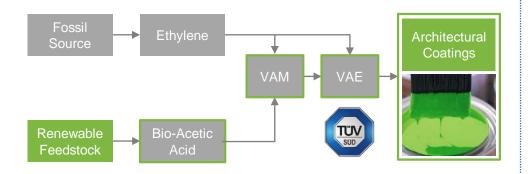
# Fewer CO<sub>2</sub> Emissions



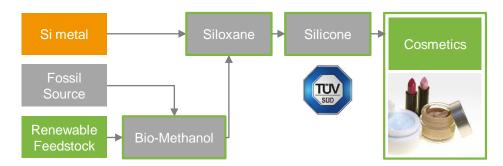
- ▶ Ethylene recovery plant
- CO<sub>2</sub> emissions reduced by 6,800 mt per year since 2015

# We Offer Coatings and Cosmetics Based on Renewable Raws

### **Polymers with Bio-Acetic Acid**



#### Silicones with Bio-Methanol



#### VINNECO® VAE

- Performance identical to non-biomass based
- No reformulation necessary
- Bio-acetic acid feedstock: cellulose, no competition to food
- Renewable content available at 60% and 100% based on solids

#### BELSIL® eco Silicone

- Same properties as fossil based products
- Drop-in-solution for customers
- Bio-methanol feedstock: grass, straw, sugar beets
- ▶ 100% fossil free cosmetic products

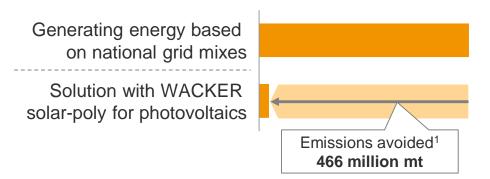
# Our Products Reduce Material Intensity and CO<sub>2</sub> Emissions

# **Polysilicon for Photovoltaics (PV):**

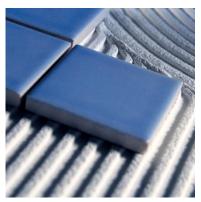


Avoided Emissions Compared to Coal

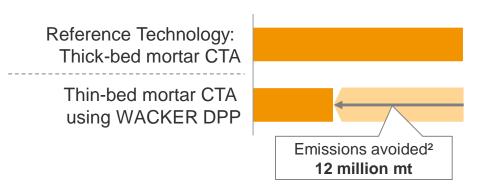
### **Emissions along the entire value chain**



# Binders for Ceramic Tile Adhesives (CTA): Emissions along the entire value chain



Reduced
Materials
compared to
Thick-Bed CTA



1) over a life span of 30 years with the amount of solar-poly sold in 2017 2) using the amount of Dispersible Polymer Powder (DPP) produced in 2017

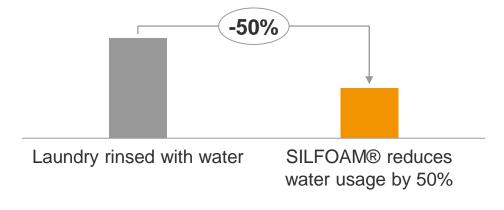


# Our Products Enable Sustainable Applications and Processes

### **Antifoam Compounds for Hand Wash**



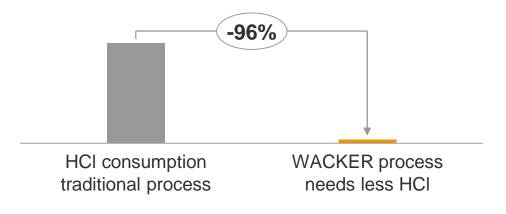
Reduction in Water Consumption



# **Sustainable Cysteine Production**



Reduction in Consumption of HCI<sup>1</sup>



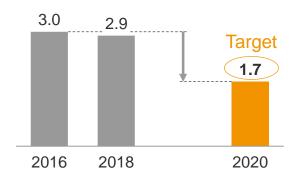
<sup>1)</sup> HCl = Hydrochloric acid; Source: WACKER Estimate



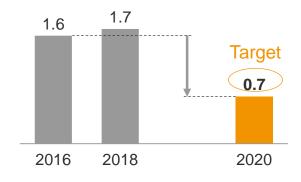
# **Continuously Working on Quantitative EHS and Energy Targets**

# **Safety**

Lost Time Injury Frequency



Process Safety Incident

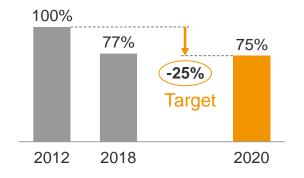


### **Environment**

Specific dust emissions

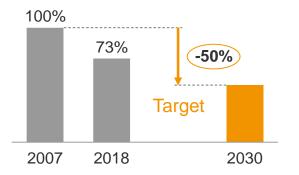


Spec. rel. VOC¹ / Spec. NO<sub>x</sub>

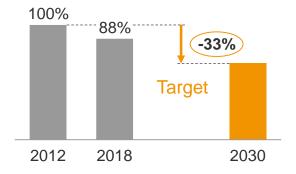


# **Energy & Climate**

Spec. energy consumption



▶ Spec. CO₂ emissions



EHS = Environment – Health – Safety; 1) VOC = Volatile Organic Compounds



# Recognition for Sustainability by Independent Organizations



- WACKER ranked as "Outperformer" by SUSTAINALYTICS in 2018
- "Very strong Environmental Management Systems"



- WACKER received a "PLATINUM" CSR rating by EcoVadis in 2020
- "The result in all evaluated areas is well above the industry average"



WACKER ranked with a "B" in CDP's 2019 climate change ratings



- WACKER ranked with an "A" by MSCI in 2018
- "Corporate governance practices are generally well aligned with shareholder interests"







**FINANCIALS** 

# **FINANCIALS**

# FY 2019 and Q4 2019 Results - P&L

| In €m                       | FY 2019          | FY 2018 | % YoY | Q4 2019 | Q4 2018 | % YoY |  |
|-----------------------------|------------------|---------|-------|---------|---------|-------|--|
| Sales                       | 4,928            | 4,979   | -1%   | 1,156   | 1,189   | -3%   |  |
| EBITDA                      | 783 <sup>1</sup> | 930     | -16%  | 158     | 174     | -9%   |  |
| EBITDA margin               | 15.9%            | 18.7%   | -     | 13.7%   | 14.6%   | -     |  |
| EBIT                        | -536             | 390     | n.a.  | -744    | 37      | n.a.  |  |
| EBIT margin                 | -10.9%           | 7.8%    | -     | -64.4%  | 3.1%    | -     |  |
| Net income for the period   | -630             | 260     | n.a.  | -748    | 29      | n.a.  |  |
| EPS in €                    | -12.94           | 4.95    | n.a.  | -15.13  | 0.53    | n.a.  |  |
| Capital expenditures        | 380              | 461     | -18%  | 89      | 172     | -48%  |  |
| Depreciation / amortization | 1,320            | 540     | >100% | 902     | 137     | >100% |  |
| Net cash flow               | 184              | 862     | >100% | 122     | 45      | >100% |  |

<sup>1)</sup> incl. insurance compensation of €112.5m from 2017 incident in Charleston <sup>2)</sup> restated due to changed definition



# **FINANCIALS**

# FY 2019 and Q4 2019 Results – Breakdown by Business

|               |       | FY 2019 | FY 2018          |       | FY 2018 | Q4 2             |  | 019   | Q4 2018 |       |        |
|---------------|-------|---------|------------------|-------|---------|------------------|--|-------|---------|-------|--------|
| In €m / %     | SALES | EBITDA  | EBITDA<br>MARGIN | SALES | EBITDA  | EBITDA<br>MARGIN |  | SALES | EBITDA  | SALES | EBITDA |
| Chemicals     | 4,011 | 704     | 17.5%            | 4,009 | 788     | 19.7%            |  | 931   | 162     | 962   | 146    |
| SILICONES     | 2,453 | 479     | 19.5%            | 2,500 | 617     | 24.7%            |  | 565   | 104     | 605   | 118    |
| POLYMERS      | 1,315 | 194     | 14.8%            | 1,282 | 148     | 11.5%            |  | 303   | 48      | 298   | 26     |
| BIOSOLUTIONS  | 243   | 31      | 12.8%            | 227   | 24      | 10.4%            |  | 63    | 11      | 58    | 2      |
| POLYSILICON   | 780   | 57      | 7.3%             | 824   | 72      | 8.8%             |  | 193   | 2       | 189   | -19    |
| Others        | 158   | 22      | 14.2%            | 171   | 71      | 41.4%            |  | 37    | -7      | 45    | 46     |
| Consolidation | -21   | 0       | -1.4%            | -24   | -1      | -                |  | -6    | 1       | -7    | 0      |
| WACKER Group  | 4,928 | 783     | 15.9%            | 4,979 | 930     | 18.7%            |  | 1,156 | 158     | 1,189 | 174    |



# **FINANCIALS**

# **Key Figures**

| In €m / %                      | 2019   | 2018  | 2017  | <b>2016</b> <sup>1</sup> | 2015  | 2014  |
|--------------------------------|--------|-------|-------|--------------------------|-------|-------|
| Sales                          | 4,928  | 4,979 | 4,924 | 4,634                    | 5,296 | 4,826 |
| EBITDA                         | 783    | 930   | 1,014 | 956                      | 1,049 | 1,042 |
| EBITDA margin                  | 15.9%  | 18.7% | 20.6% | 20.6%                    | 19.8% | 21.6% |
| EBIT                           | -536   | 390   | 424   | 338                      | 473   | 443   |
| EBIT margin                    | -10.9% | 7.8%  | 8.6%  | 7.3%                     | 8.9%  | 9.2%  |
| Net income for the period      | -630   | 260   | 885   | 189                      | 242   | 195   |
| - From continuing operations   | -630   | 260   | 250   | 178                      | 242   | 195   |
| - From discontinued operations | -      | -     | 635   | 11                       | -     | -     |
| Net cash flow                  | 184    | 86    | 358   | 361                      | 23    | 216   |
| Return on capital employed     | -11.3% | 5.9%  | 7.5%  | 5.6%                     | 8.1%  | 8.4%  |
| EPS in €                       | -12.94 | 4.95  | 17.45 | 3.61                     | 4.97  | 4.10  |
| Dividend per share             | 0.502  | 2.50  | 4.50  | 2.00                     | 2.00  | 1.50  |
| Dividend yield                 | 0.7%   | 2.1%  | 4.0%  | 2.6%                     | 2.2%  | 1.7%  |

<sup>1)</sup> Adjusted according to IFRS 5; <sup>2)</sup> Dividend proposal



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ANNUAL REPORT



SUSTAINABILITY REPORT



SQUARE APP

