

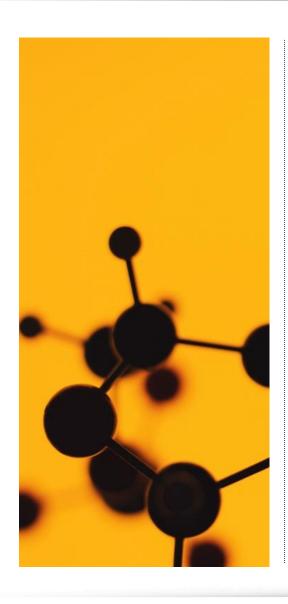
1st Chemical Day February 15, 2016

Wacker Chemie AG @ Consortium für elektrochemische Industrie

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Chemical Day 2016



Dr. Hartel / Mr Willems: Welcome to WACKER

Mr Willems: WACKER SILICONES

Dr. Hartel: WACKER POLYMERS

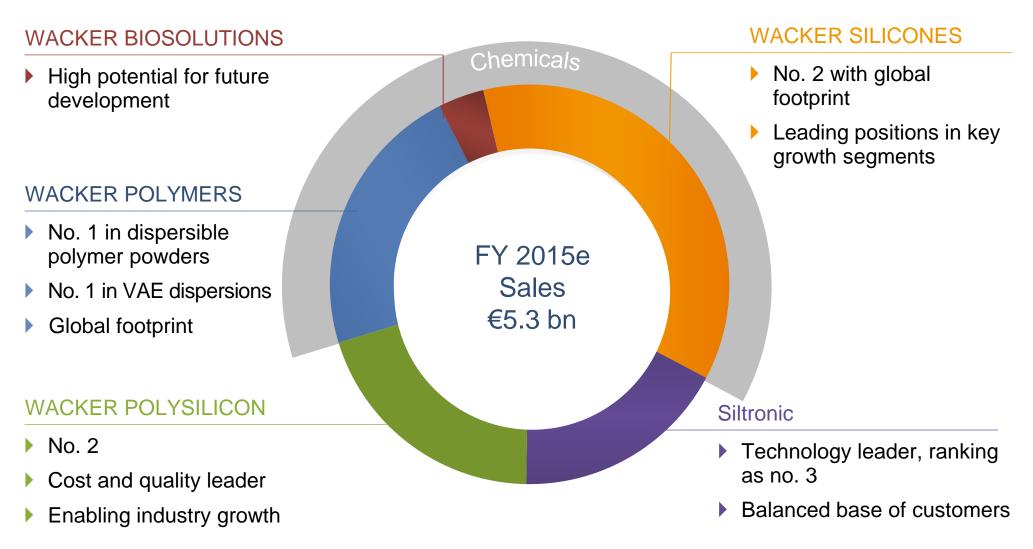
Dr. Hartel / Mr Willems: The Common Ground - Chemicals



Chemical Day 2016 - Welcome to WACKER

Dr. Christian Hartel, Member of the Executive Board, Wacker Chemie AG Auguste Willems, Member of the Executive Board, Wacker Chemie AG

Chemicals With High Contribution to Sales in WACKER's Portfolio

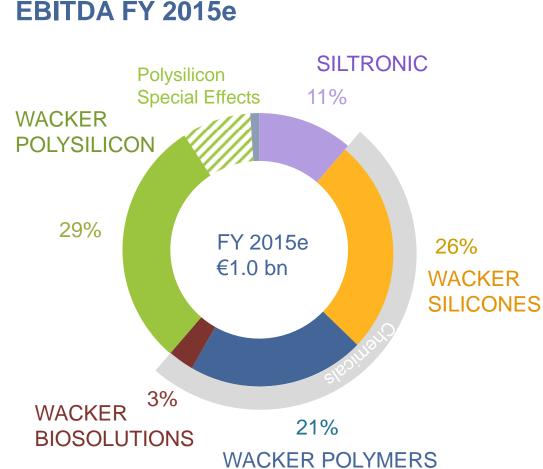


Note: Percentages based on external sales per segment



Chemicals with Strong Growth and Contribution to EBITDA

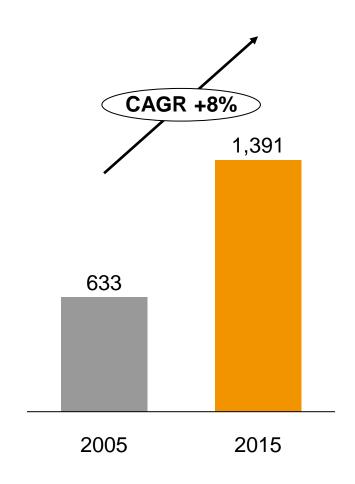




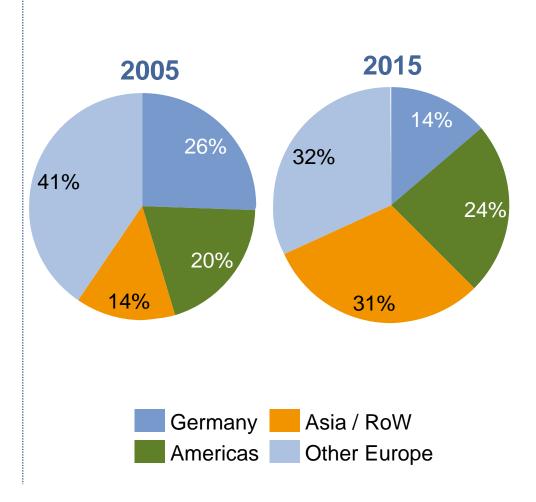


Chemicals: Shipments Grew 8% CAGR since 2005

Chemicals Shipments (kt)

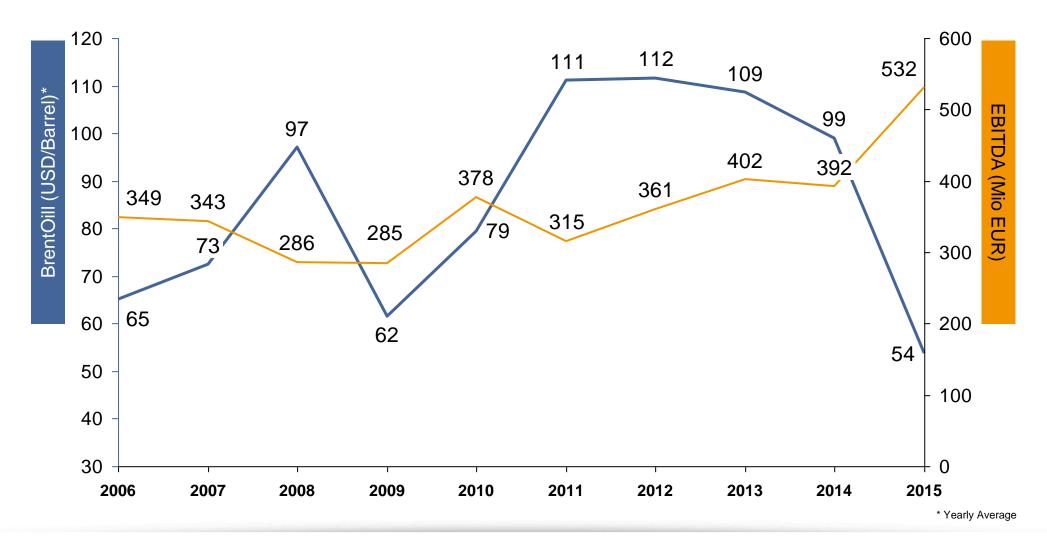


Regional Split

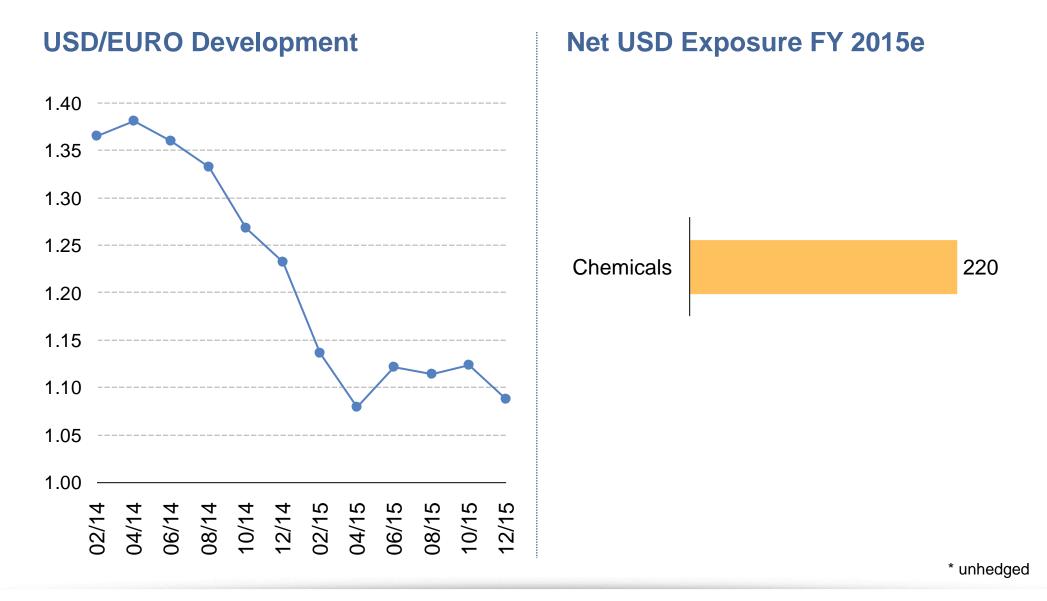


Chemicals EBITDA not Correlated to Crude Oil: R²=0,033

Chemicals EBITDA (mn €) & Brent Oil (USD/Barrel) 2006-2015

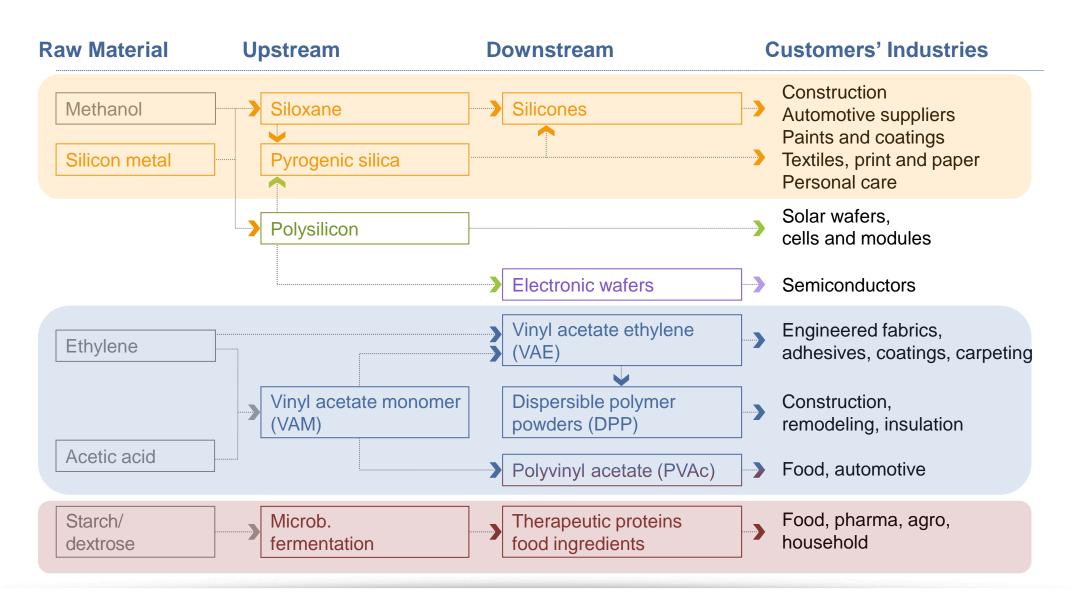


1 Cent Change in USD/€ Exchange Rate had an Impact of €5.3m* on FY-EBITDA 2015 – thereof ~ €2m Effect on Chemicals

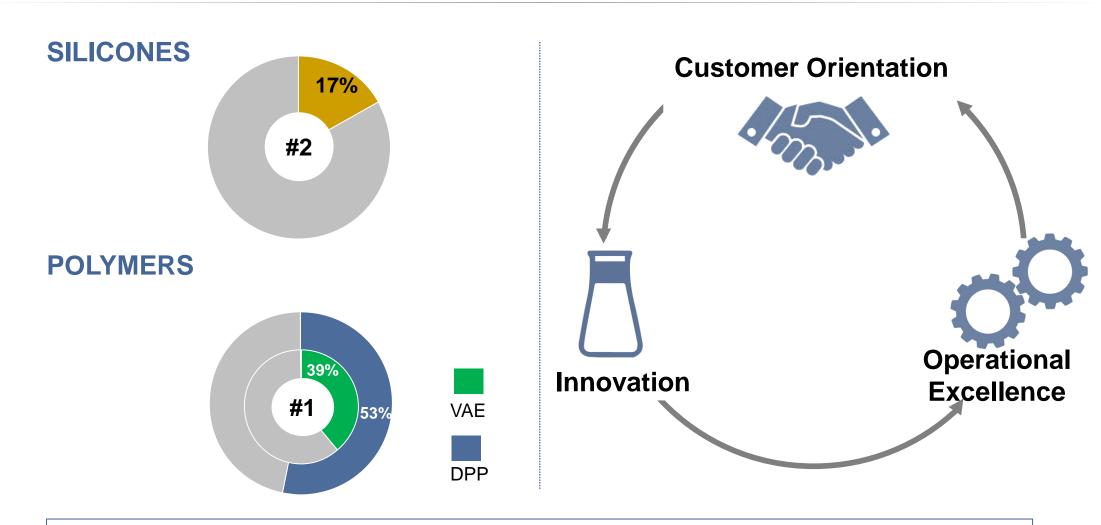




WACKER: Highly-Integrated Operations Based on Five Key Raw Materials



WACKER with Strong Market Positions in Chemicals Divisions Through Excellence in Operations, Innovation & Sales



WACKER – CREATING TOMORROW'S SOLUTIONS TODAY

Customer Orientation: WACKER Serves >8,000 Customers Directly with Technical Solutions





Technical Centers



WACKER ACADEMY

Technical Center

 22 Technical Centers worldwide to service customers and develop products & applications

WACKER ACADEMY

▶ 13 WACKER ACADEMY sites provide training and product knowhow tailored to our customers' needs

Innovation:

Generating Growth in Chemicals: >10% New Product* Revenue

Strengthen of existing Business

Secure and Extend Market Position

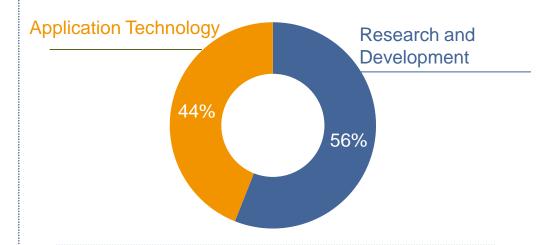
Optimization of Processes

Leader in Technology and Cost

New Developments and Markets

Development of new Segments and Markets

Expenditures in Chemical Divisions



Innovation Facts Chemicals 2015

R&D and ADTS** Ratio: 4.4% of sales

R&D employees: ~650

Portfolio: >150 projects

New product rate >10%

* New products are not older than 5 years **Application Development Technical Services



Operational Excellence: Continuous Improvements through WACKER Operating System WOS

Continuous Expansion of WOS



▶ Global roll out



Improvement of tools & methods



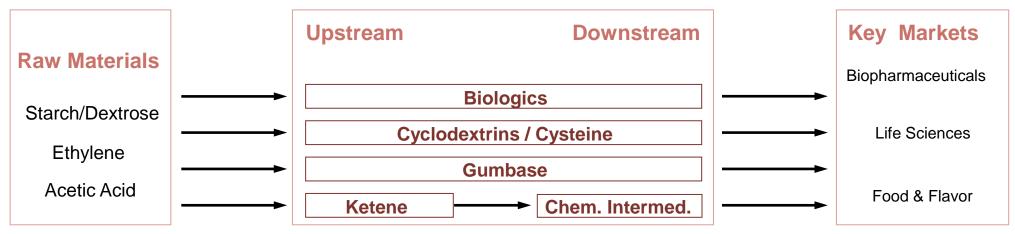
Increasing number of topics

Systematic Approach in WOS

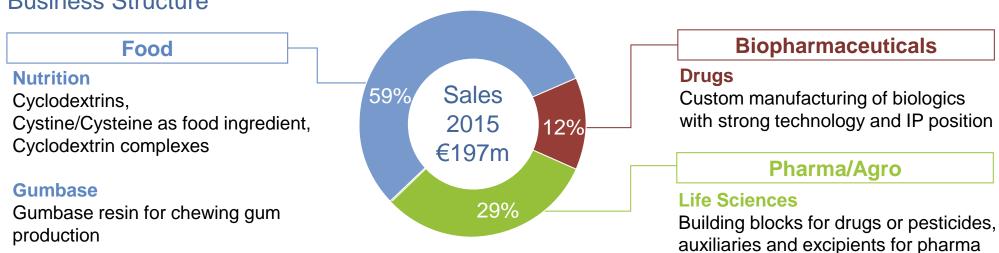


BIOSOLUTIONS - Focusing on Non-Cyclical Markets

Supply Chain

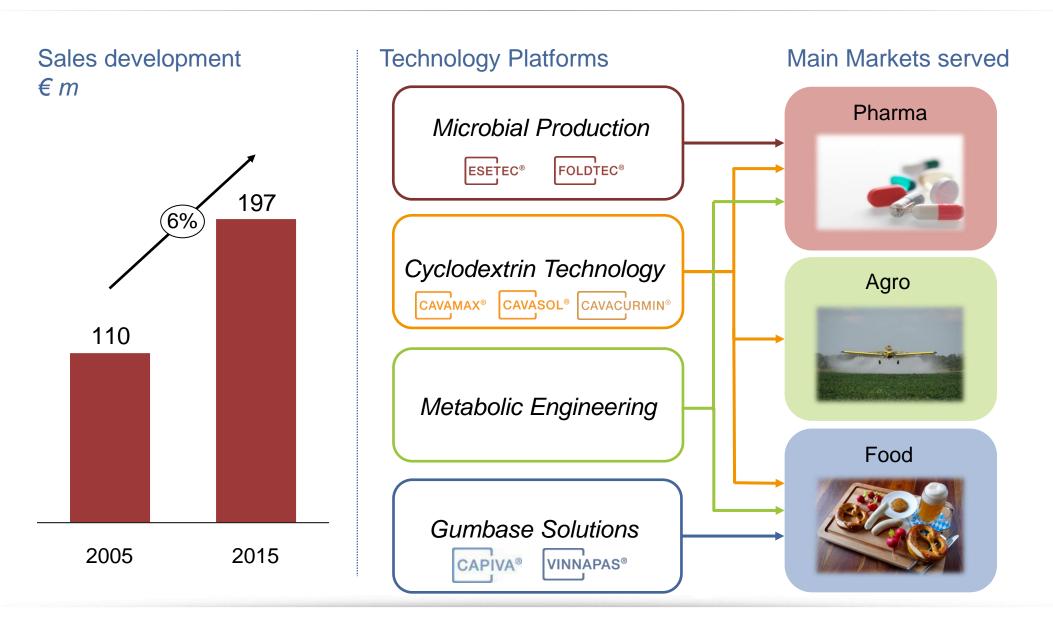


Business Structure

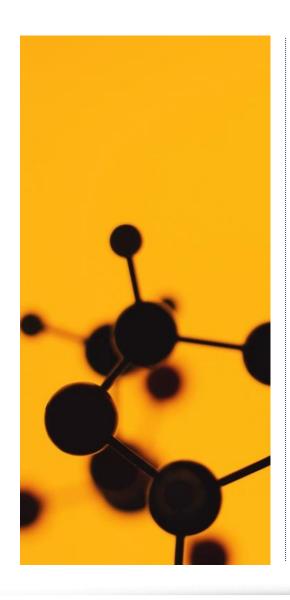




BIOSOLUTIONS – Our Technology Platforms Offer Solutions to our Customers in some of the most Promising Markets



Chemical Day 2016



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Chemical Day 2016 – WACKER SILICONES February 15, 2016

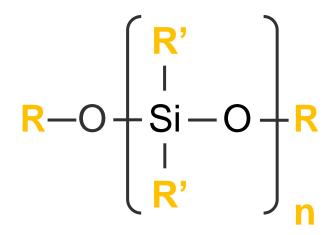
Auguste Willems, Member of the Executive Board, Wacker Chemie AG

The Chemical Structure of Silicones offers Multiple Options to Design Material Properties

Most significant benefits are:

- Excellent chemical resistance
- ▶ Thermal stability ~200° C and above
- Physiological compatibility
- Stable properties over wide T-range
- Versatile to modifications
 - from linear to branched network structures
 - different chain lengths n
 - different substituents R
 - ability to incorporate different fillers

Silicones



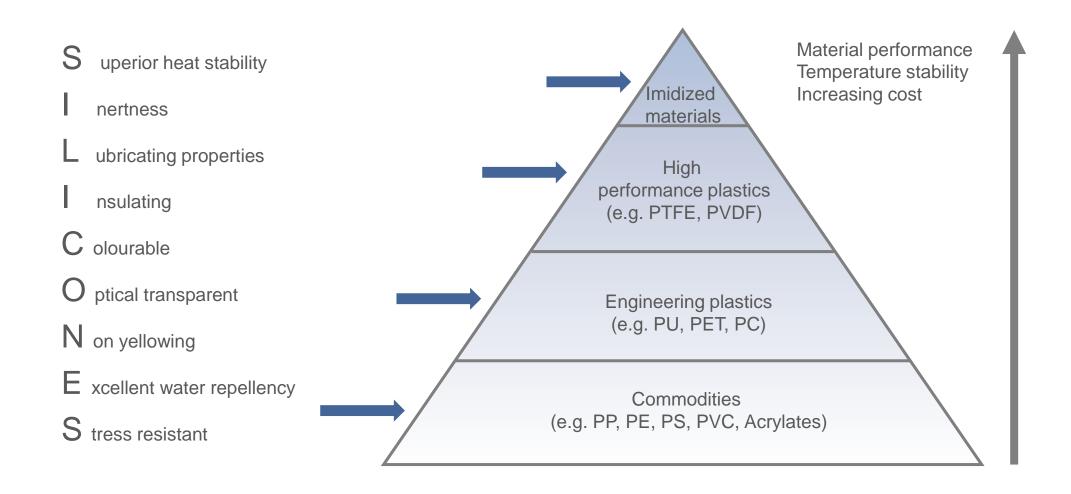
Siloxane-Polymer¹

▶ Silicones are the Chameleon within Plastics

¹PDMS (Polydimethylsiloxane) with R' = CH₃ (Methyl)



Large Substitution Potential with Increasing Requirements on Plastics



CAGR 2008-2014 by volume: Plastics¹ ~4%, Silicones² ~5%

¹Plastics Europe, Consultic

²PDMS production volume reference, Market studies, Annual reports, Industry estimates



Customization - Combining a Unique Set of Properties

Hydrophobic

Formable

Adhesive

Electrically conducting





















Hydrophilic

Form stable

Release

Insulating

Broad spectrum of adjustable properties

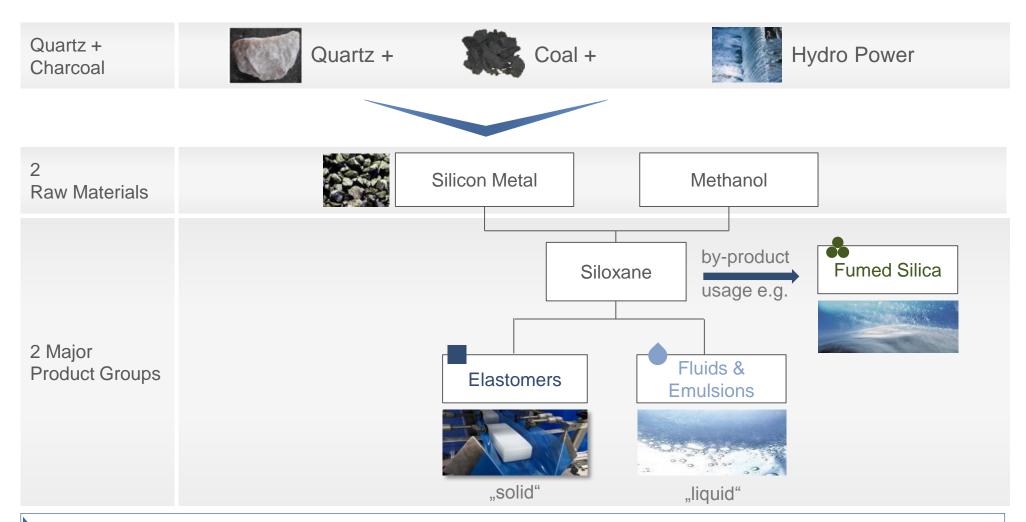
Intrinsic properties

- ▶ Thermal stability
- UV-resistant
- Inert,
- ► Chemical resistant amongst others



Silicones are high performance products, suitable for multiple applications

From Silicon Metal to Multiple Markets

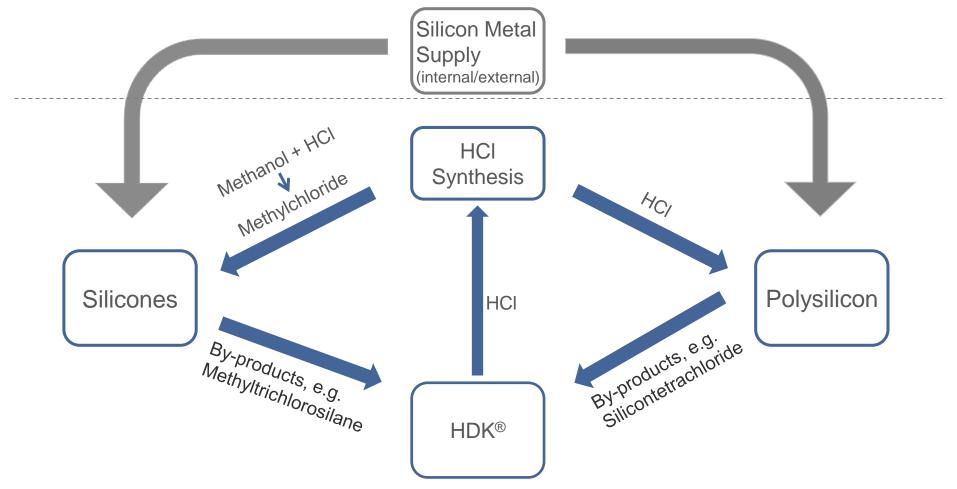


>3,000 products in multiple applications and >15,000 direct and indirect customers



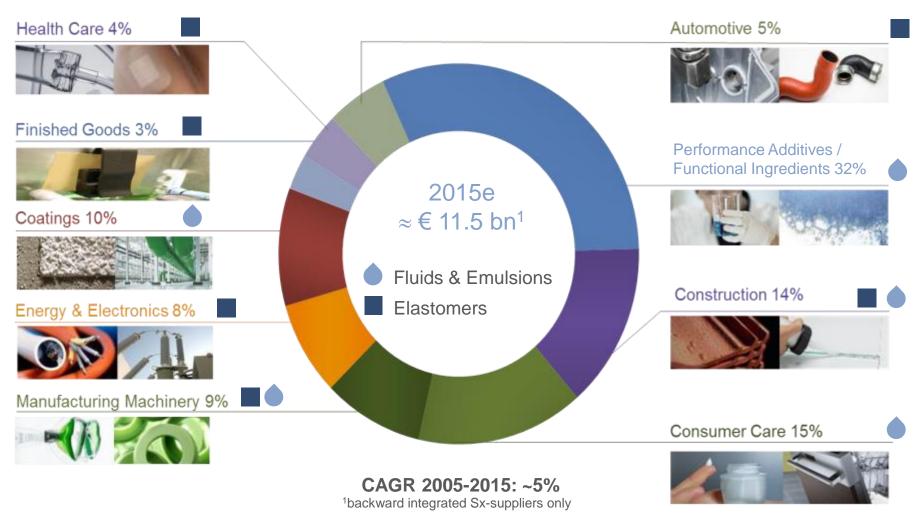
WACKER's Unique Strength - Highly Efficient Verbund Production of Siloxane, Poly and HDK*Combined with Inhouse Silicon Supply

Scheme for the WACKER Production "Verbund"



*HDK = Hochdisperse Kieselsäure (Fumed Silica)

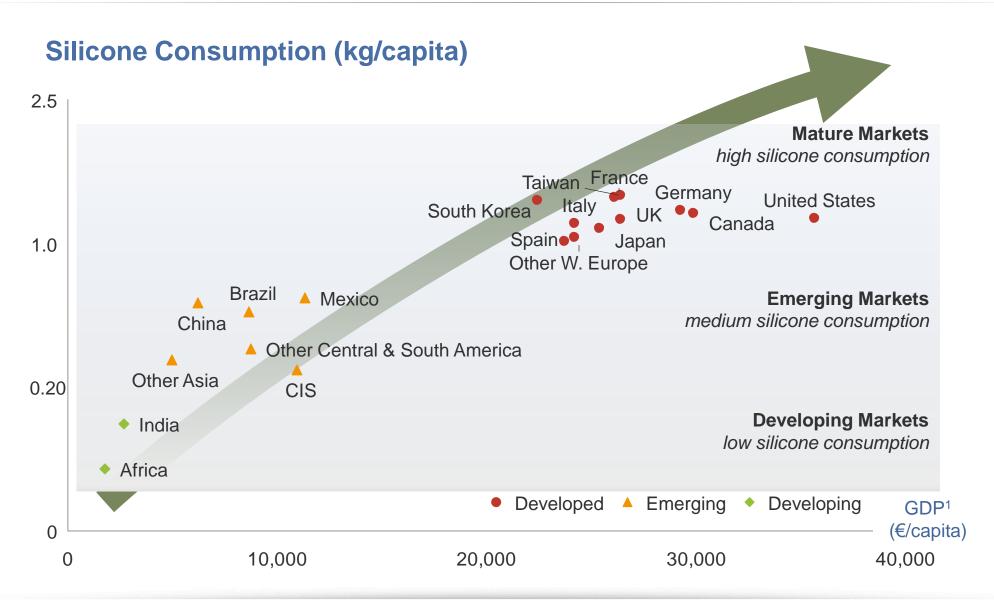
Silicone Market Diversified across Industries and Applications



Source: Market studies, Annual reports, WACKER estimates



~85% of the Global Population will Catch up with their Silicone Consumption





Increasing Demand for Silicones in All Markets

Mobility



- Airbag coating
- Vibration control
- ▶ Turbo charger hoses
- Automotive lighting
- ▶ Protection of electronic control units (e.g. ABS¹, ESP², ACC³)

Digitization



- Optical bonding
- ▶ LED Backlighting
- Sealing
- ▶ Electromechanical shielding
- ► Thermal management

Medical

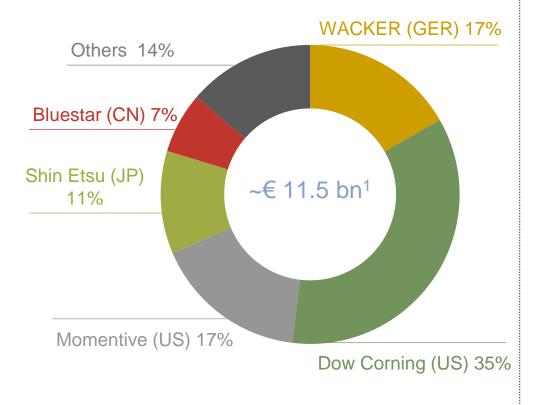


- ▶ Medical parts, e.g. Catheters
- Baby care
- Wound dressings
- Orthopedics
- Prothetics

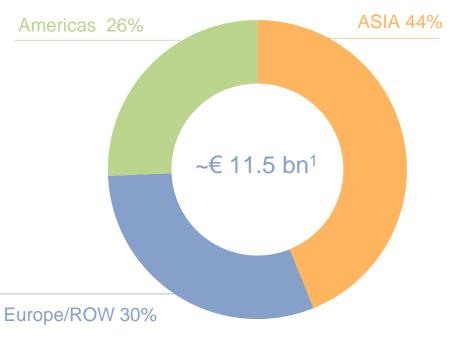
¹Antilock Braking System ²Electronic Stability Program ³Adaptive Cruise Control

WACKER as Global Player holds #2 Market Position Globally

Market by Competitor 2015e in %



Market by Region 2015e in %



¹Silane/Siloxane backward integrated suppliers only; WACKER data incl. HDK



Multinational Competitors with Different Set-up

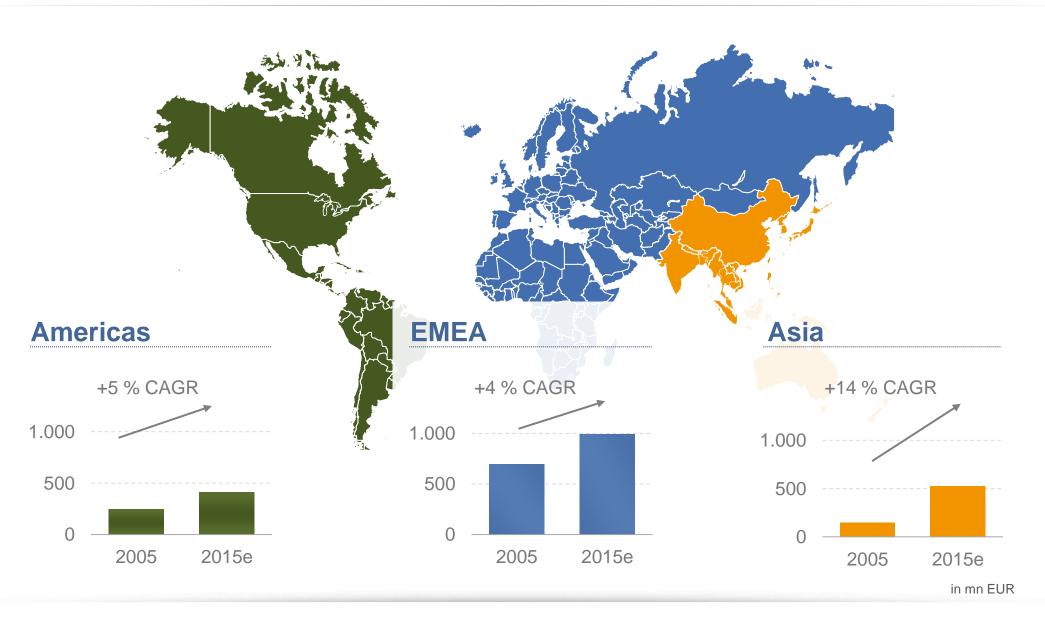
Overview on Competitor's Own Capabilities

	WACKER	Dow Corning	Momentive	ShinEtsu	Bluestar	Evonik
Silicon Metal					1	
Silanes					✓	
Siloxane production	Europe Asia	North America Europe Asia	North America Europe Asia	Asia	Europe Asia	
Fumed Silica Technology / Production	Europe Asia					North America Europe Asia
"Silicium Verbund-Site"						

¹Siloxane / Poly / HDK production incl. coupled material- and energy flows



Over the Last Decade WACKER SILICONES has grown at 6%



Strong Global Footprint with Local Presence

Technical Center & WACKER ACADEMY





22 Technical Centers worldwide to service customers and develop products & applications



13 WACKER ACADEMY sites provide training and product know-how tailored to our customers' needs.

13 Production sites – Economies of Scale Upstream sites in Europe and Asia



Siloxane capacities

Burghausen >120 kt Nünchritz >130 kt Zhangjiagang-JV1 >200 kt



- Silicon Metal production at Holla in Norway (50 kt)
- ▶ 3 world scale upstream sites
- Global footprint of flexible downstream production units

🌣 Tech. Center 🏶 Tech. Center + ACADEMY 🌞 Integrated Production Site 🏶 Production Site

¹WACKER: 25% Share



SILICONES Targets 6% Profitable Growth

Strategic Focus

1 Value creation

Our Roadmap

Push our specialty business by investing in downstream production and service close to our customers

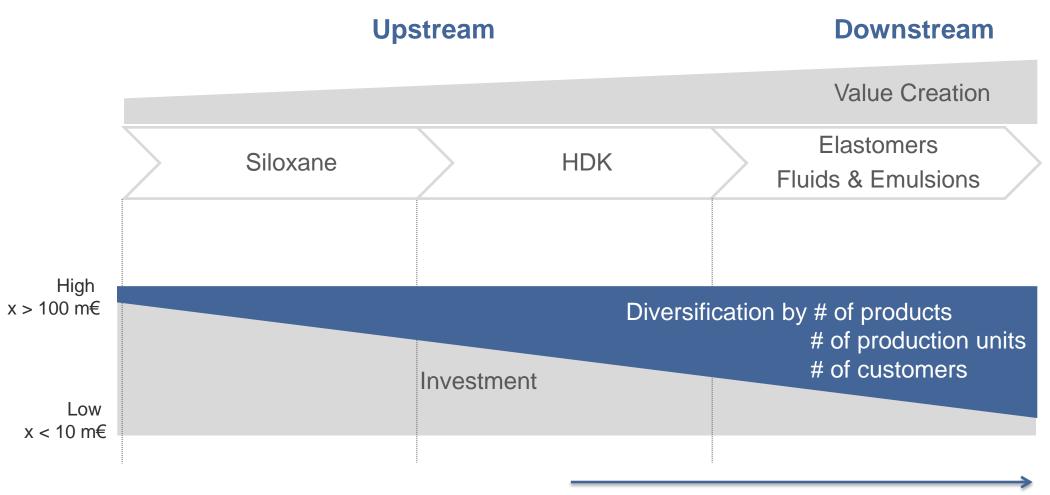
2 Innovation

 Investigate opportunities for organic replacement and open up new markets for Silicones

3 Cost

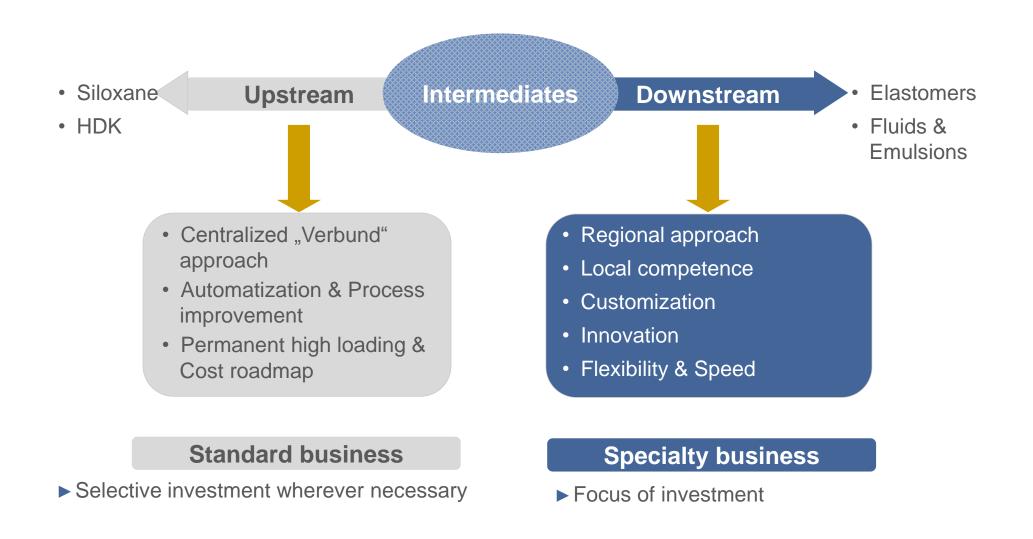
 Continuous cost improvement through operational excellence

Reduce Capital Intensity of Growth with Focus on Downstream Specialties



Flexible production units close to markets with low specific invest

Master the Ambiguity – Up- and Downstream Challenges Are Different, Likewise the Key Elements for Success



Specialty Focus Creates Value Standards Needed for Economies of Scale and New Market Entry

Standards

- Exchangeable
- Price elastic
- Low requirement for technical service

- **Specialties** Specified properties
 - Value based pricing
 - Technical service is a key success factor

Standards

Customized solutions



Silicone Sealant in DIY applications



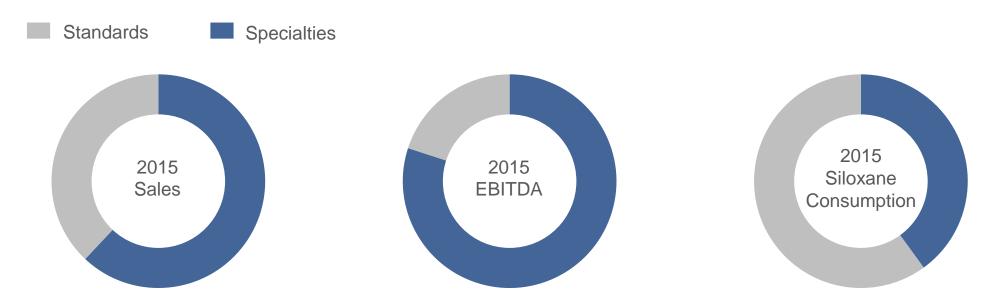
Silicone Adhesive in Automotive applications

*Electronic Control Unit



High Leverage on EBITDA by Shifting Portfolio to Specialties

Share Specialties / Standards in Sales (€), EBITDA (€), Siloxane Consumption (tons)



In 2015 Specialties....

- Generated 1.5 times higher sales compared to Standards
- ▶ EBITDA contribution was ~4 times higher compared to Standards
- ▶ Siloxane consumption was 36% of 2015 capacity (= 43% of 2012 Siloxane capacity)

Specialties Meet Increasing Performance Requirements

Basic solution



- ▶ Desired effects from Silicone fluids in hair care applications are
 - hair shine
 - soft silkness
 - wet- and dry-combing

WACKER Standard products: Silicone Dimethylfluids



Special solution



- ▶ Silicone emulsions with functional groups (e.g. amino) improve especially
 - dry- and/or wet-combing
 - soft silkness
 - durability of effects
 - ease of formulation
- Customized formulations provide benefits and support customer retention

WACKER Specialty products: Belsil® ADM, Belsil® DADM

Our Innovation Capabilities Support Our Specialty Strategy

Product Innovation

Over the last five years >10% of our annual sales came from new products

Substitution Drivers

Process efficiency & unique material properties



WACKER SilGel®

as alternative to acrylate films for optical bonding due to processing advantages

New Markets

Unique set of material properties is opening up new markets



ELASTOSIL® Film

Silicone film acting as dielectric electroactive polymer (EAP) thus allowing innovative smart sensor designs

Innovation in Automotive Requires Innovation in Silicones

Multibeam LED





LUMISIL® LR

 Silicones allowing new designs for luminaires like light guides for optimized illumination

Electric mobility – High voltage cables





ELASTOSIL® R, R plus and LR

- Requirements for alternative drive systems (hybrid/electric vehicles) require Silicone Elastomers
- very good longterm heat resistance
- low temperature flexibility
- excellent electrical insulation
- excellent adhesion of silicone connector to silicone cable and metal parts to ensure reliable sealing performance

SILICONES EBITDA Influenced by Various Parameters

Ranked Cost Structure of SILICONES

- Raw Materials
- Labor
- Logistics
- Depreciation

Our Strategy

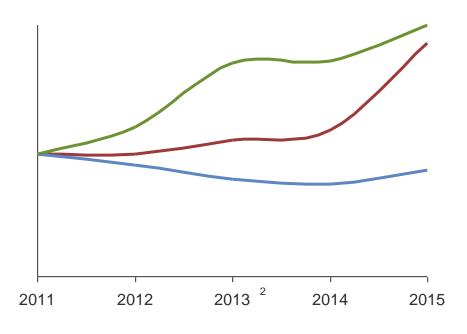
- Value based pricing
- Portfolio shift to specialties
- High capacity loading
- Operational Excellence (WOS)
- Drive regionalization

EBITDA / Raw Material Price Development¹ Siloxane Output (2011 = Index 100)

EBITDA Margin (in%)

Raw material price development (Si-Metal, Methanol)

WACKER Global Siloxane output



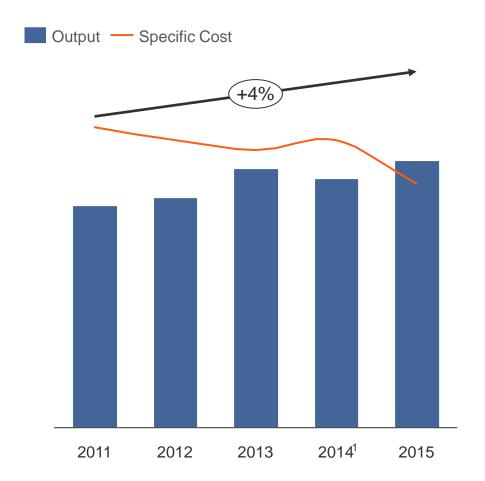
Raw Material Pricing: ICIS, IHS, BLOOMBERG

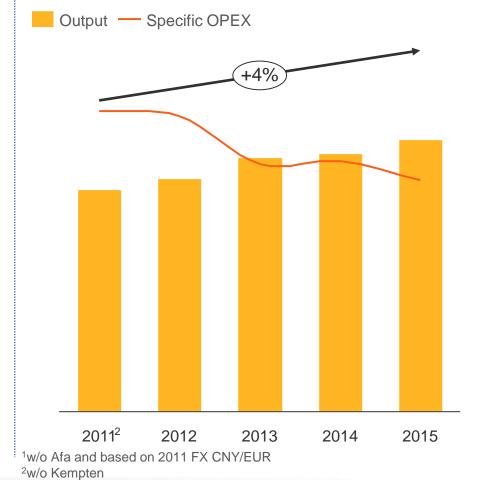
¹Weighted mixed price depending on recipe content in Polydimethylsiloxane ²EBITDA adj. excl. special effects



Operational Excellence is Key Leverage Existing Capacities and Maximize Output

Siloxane Output & Specific Cost Development HDK® Output & Specific OPEX Development Burghausen & Nünchritz (Index 2011 = 100%) Germany & China (Index 2011 = 100%)



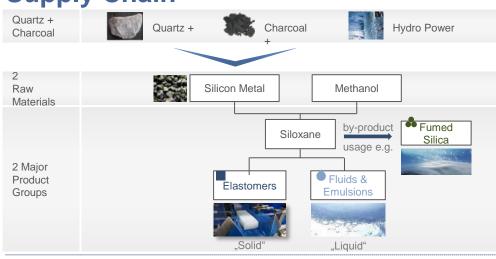






WACKER SILICONES An Integrated Global Player in a Leading Market Position

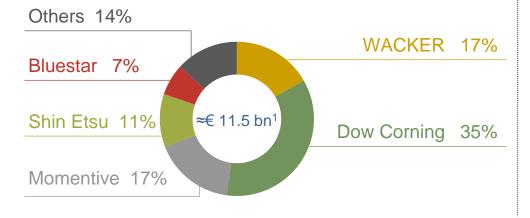
Supply Chain



Strong Global Footprint



Competitive Landscape 2015



¹Silane/Siloxane backward integrated suppliers only; WACKER data incl. HDK

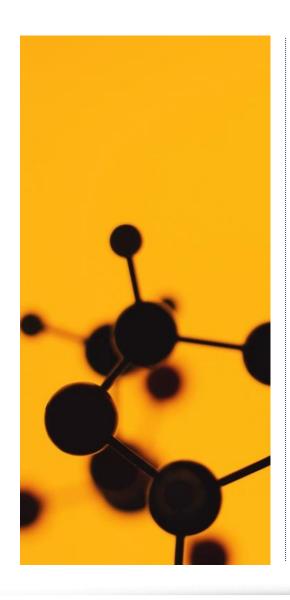
Market Characteristics

- Reduced cyclical vulnerability through broad market penetration and wide customer base
- Historic growth rates above worldwide GDP¹
- High entry barriers (capital and technology)
- Key drivers spur sustainable market growth
- Innovation broaden scope of applications

¹GDP = Gross domestic product



Chemical Day 2016



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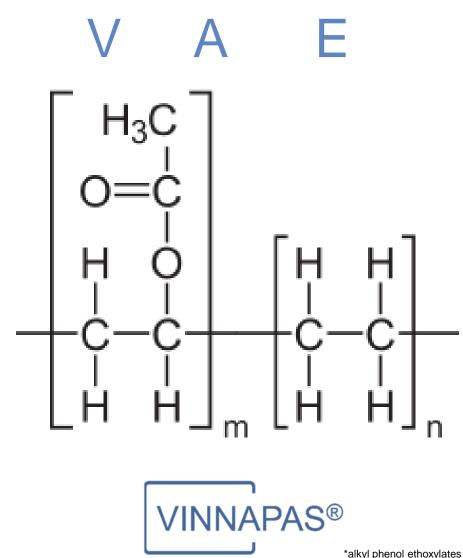
Chemical Day 2016 – WACKER POLYMERS February 15, 2016

Dr. Christian Hartel, Member of the Executive Board, Wacker Chemie AG

Vinyl Acetate-Ethylene (VAE) as Main Basis for Polymers' **Dispersions and Dispersible Polymer Powders**

The most significant benefits are:

- Perfect adhesion and cohesion
- Ethylene as internal plasticizer
- Produced without added Formaldehyde and APEOs*
- Waterborne
- **▶** Ecologically Sound Performance



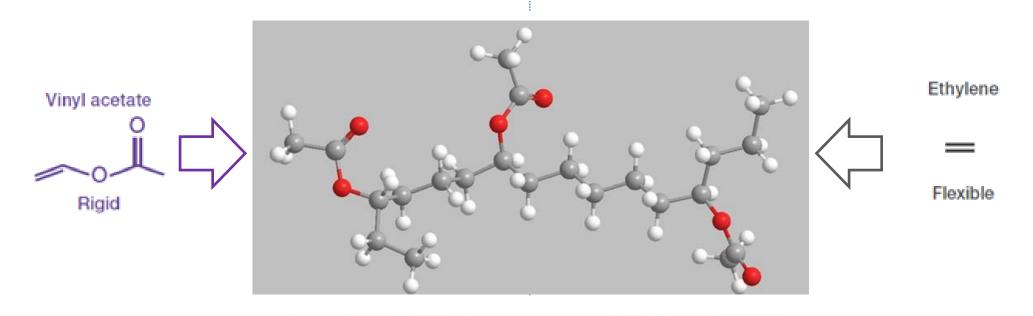
Good Copolymerization of Vinyl Acetate and Ethylene Leads to Tailor Made Products with a Broad Range of Applications

Properties due to Vinyl Acetate units

- Polar
- Hard feel
- Rigid
- **▶** Elasticity

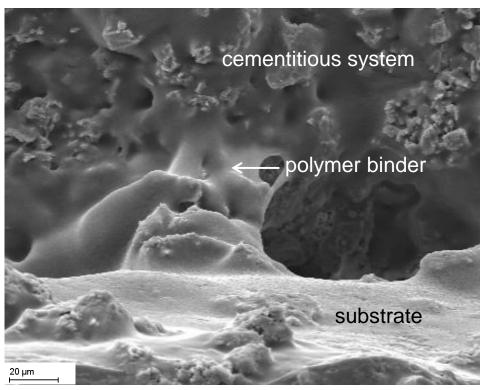
Properties due to Ethylene units

- Nonpolar, hydrophobic
- Soft feel
- High flexibility
- **▶** High chemical resistance



Polymer Binder in Cementitious Systems with Key Advantages

Polymer in cementitious systems

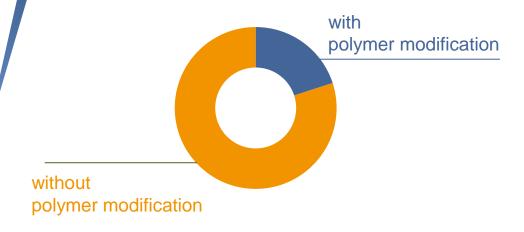


Source: WACKER, Scanning Electron Microscope

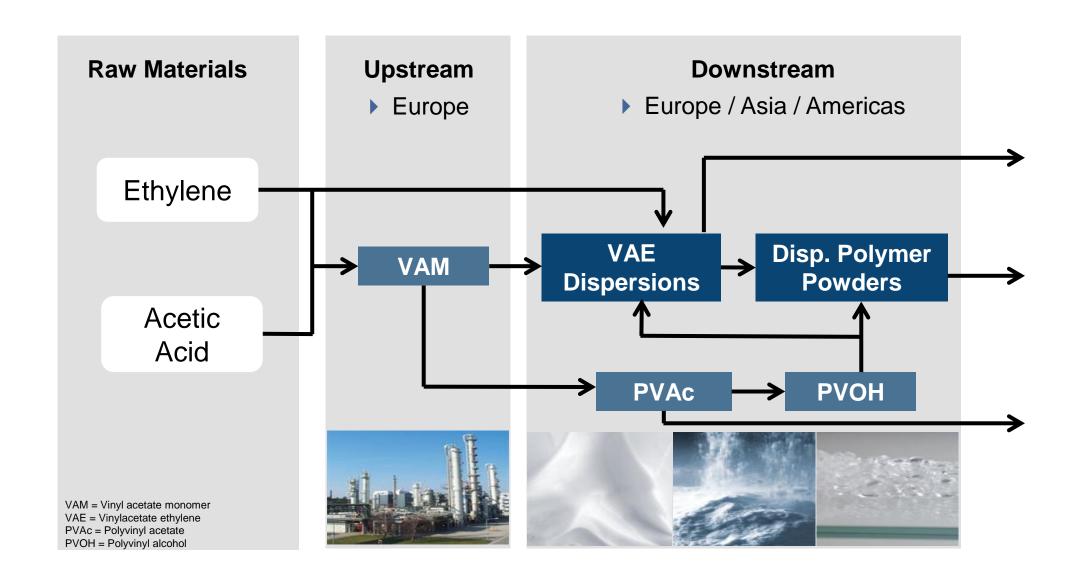
Key advantages:

- Adhesion on critical substrates
- Advanced workability and machine application
- Improve flexibility and toughness

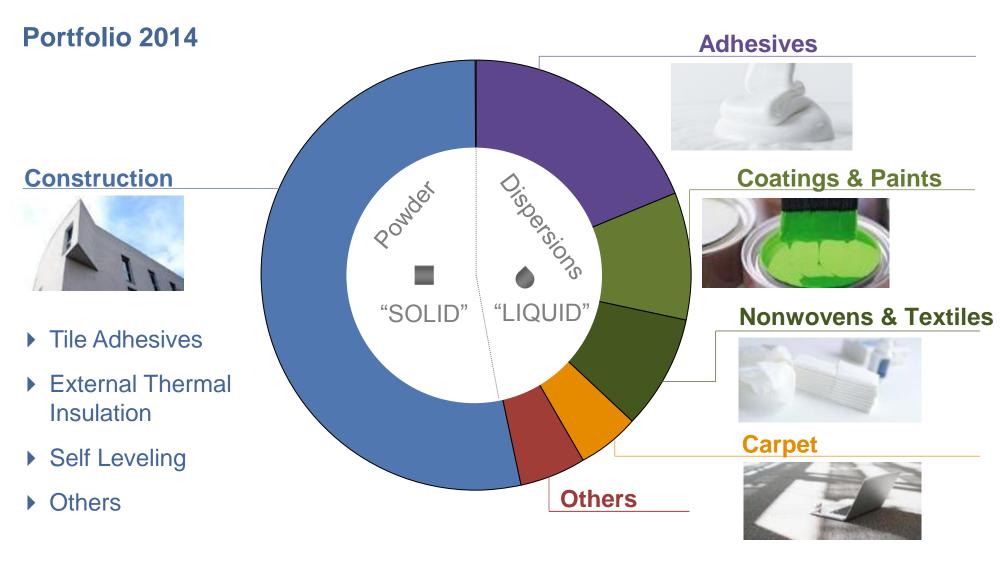
Global dry mix mortars



WACKER POLYMERS: Unique with Integrated Production Sites in Europe, Americas and Asia



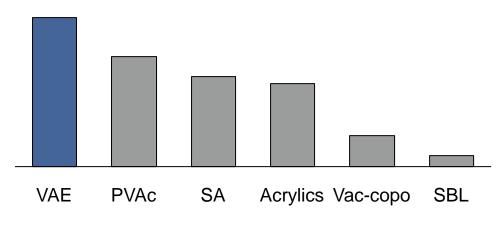
POLYMERS with Diverse Markets and Broad Customer Base



Source: WACKER analysis

VAE With Strong Growth Through Significant Advantages

Polymer Latex Market Growth Rates 2009-2014



- Adhesion to different substrates
- Less combustible
- Broad range of heat resistance
- Easy applicability & workability
- Flexibility
- Reliability, clean machinability
- No plasticizers or additional solvents
- Low VOC* and low odor

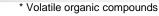






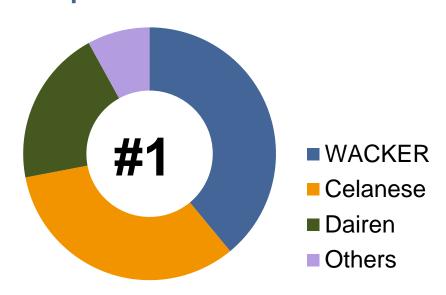




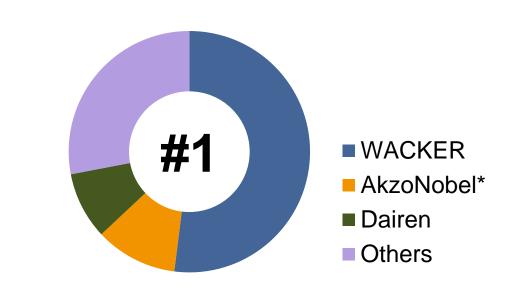


WACKER Global Market Leader in VAE Dispersions and Powder

VAE Merchant Dispersions Marketby Competitor 2014



Dispersible Polymer Powders Market by Competitor 2014



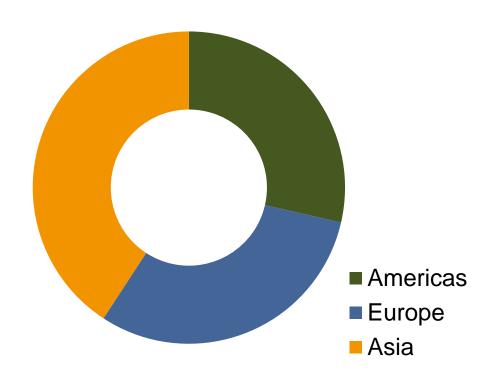
	PORTFOLIO			RELEVANT MARKET IN REGION		
	VAM	VAE	DPP	ASIA	EMEA	AMERICAS
WACKER	X	X	X	X	X	X
Celanese	X	X		X	X	X
AkzoNobel			X	X	X	X
Dairen	x	x	x	x		



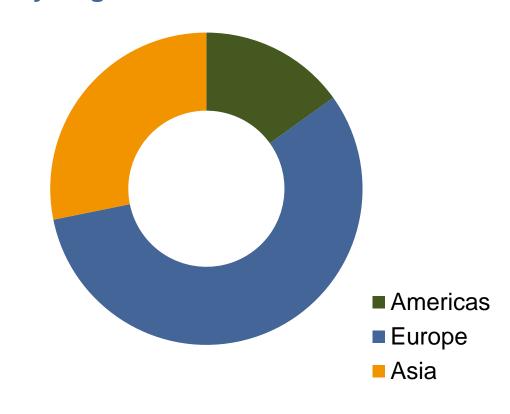


Sales of VAE Dispersions and Powder by Region

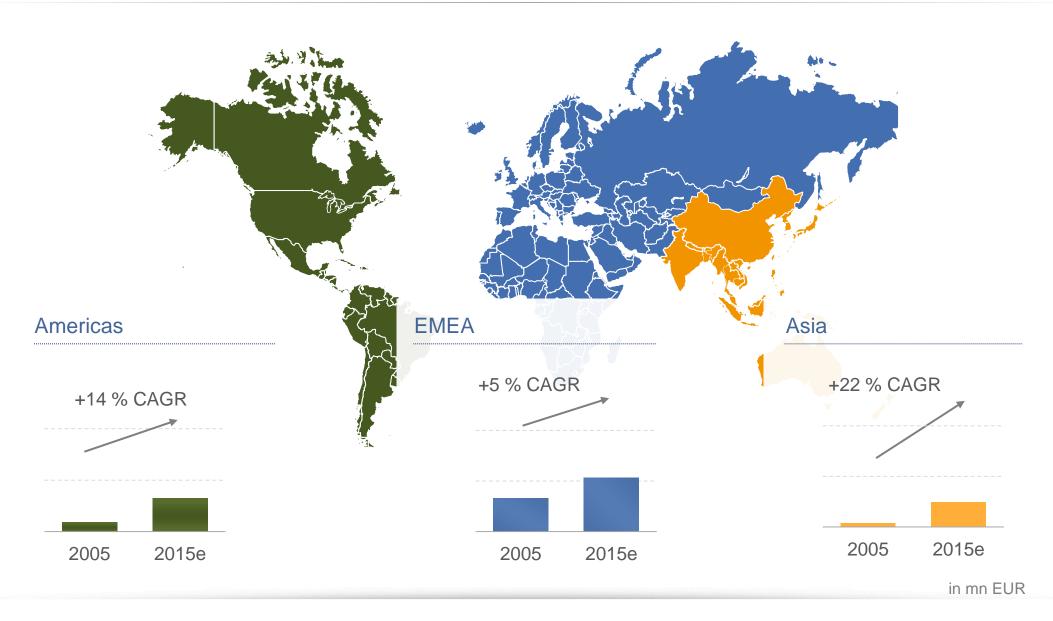
VAE Merchant Dispersions Marketby Region 2014



Dispersible Polymer Powders Market by Region 2014



POLYMERS is Growing in All Regions with High Rates





WACKER POLYMERS with Continuously Expanding Footprint

Latest Capacity Expansions 2015 2015 Led to 1 mn tons of VAE Special monomers Polymer powder +3.8 kto +50 kto Germany Germany Cologne Burghausen **Calvert City** Ulsan Nanjing 2015 2014 2013 VAE dispersions 2013 Polymer powder VAE dispersion +85 kto VAE dispersion +40 kto +30 kto +60 kto USA China South Korea China

▶ POLYMERS' production site are located strategically close to raw materials



Strategy has been Aligned to Focus on Long-Term Growth

Strategic Focus to outgrow core markets

Strategic Focus Our Actions

Expansion

- Presence in all key markets via Technical Centers & WACKER ACADAMY
- New reactors in Asia/Americas and dryer in Europe

Substitution

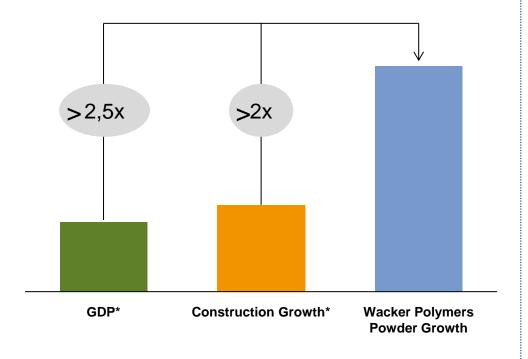
- ► Transformation of traditional construction systems
- Replacement of non-VAE technologies

Innovation

- New application development beyond existing core segments
- Operational Excellence by Process Development

Growth of Dispersible Polymer Powder with a Multiple of GDP

Average Annually Growth Rate 2010 -2015



WACKER's Growth in Powder

Mature Markets

- Trend towards bigger and thinner tiles
- WACKER with strong technical support and customized solutions

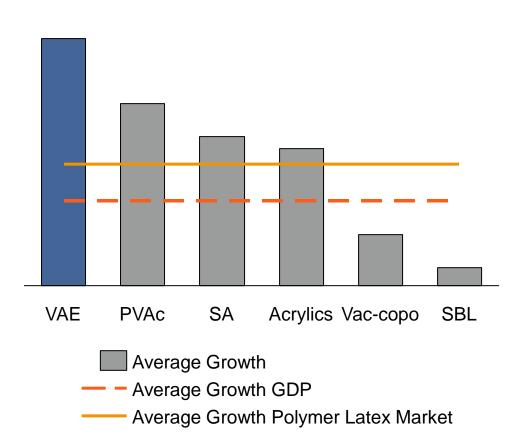
Emerging Markets

- Increasing quality standards and labor cost
- High efficiency through application speed and material savings

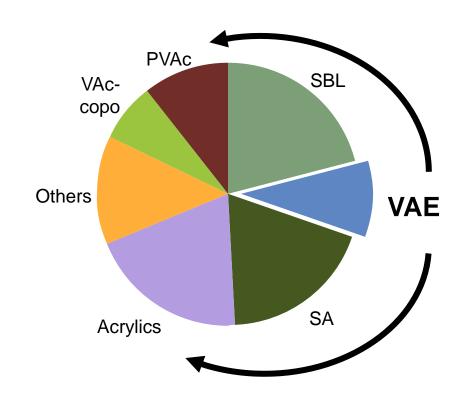
▶ High Percentage of Growth in Powder Achieved by Substitution

Substitution with A High Contribution for Growth in Dispersions

Polymer Latex Market Growth Rates 2009 – 2014*



Synthetic Polymer Latex Market Volume



* Sources: Kline Studies 2015



Delivering VAE Application Know-how Directly to our Customers

WACKER ACADEMY

- Mix between theory and practice
- Fixed location
- Located close to technical center

since 2007 \longrightarrow

WACKER on Wheels

- Truck going directly to locations
- Demonstration of product advantages live
- Since 2014 in Asia



MyLab

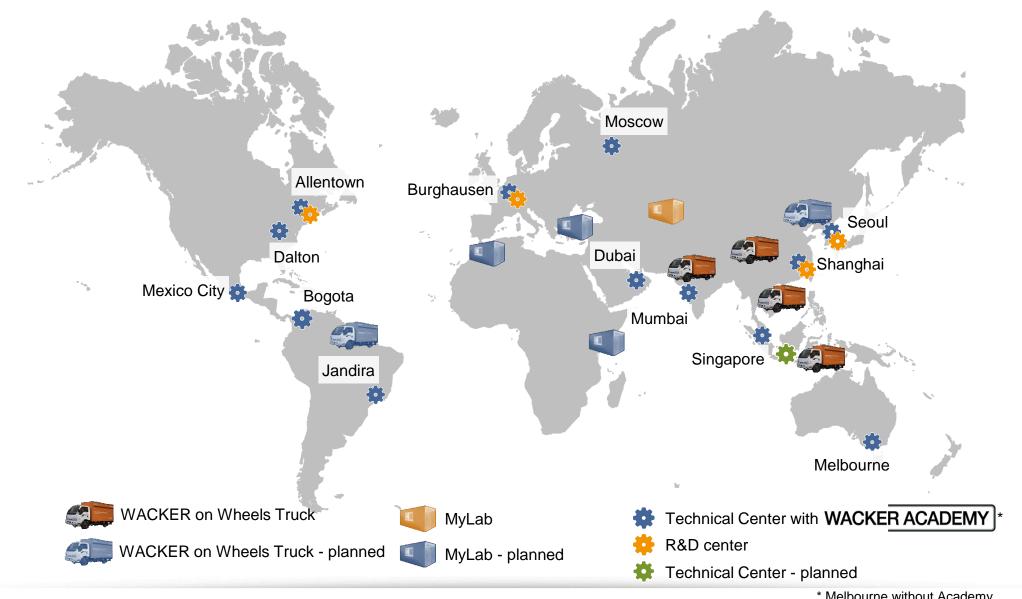
- Movable Container
- Mix between Technical Center and WACKER on Wheels
- Smart and easy to implement



2015 —

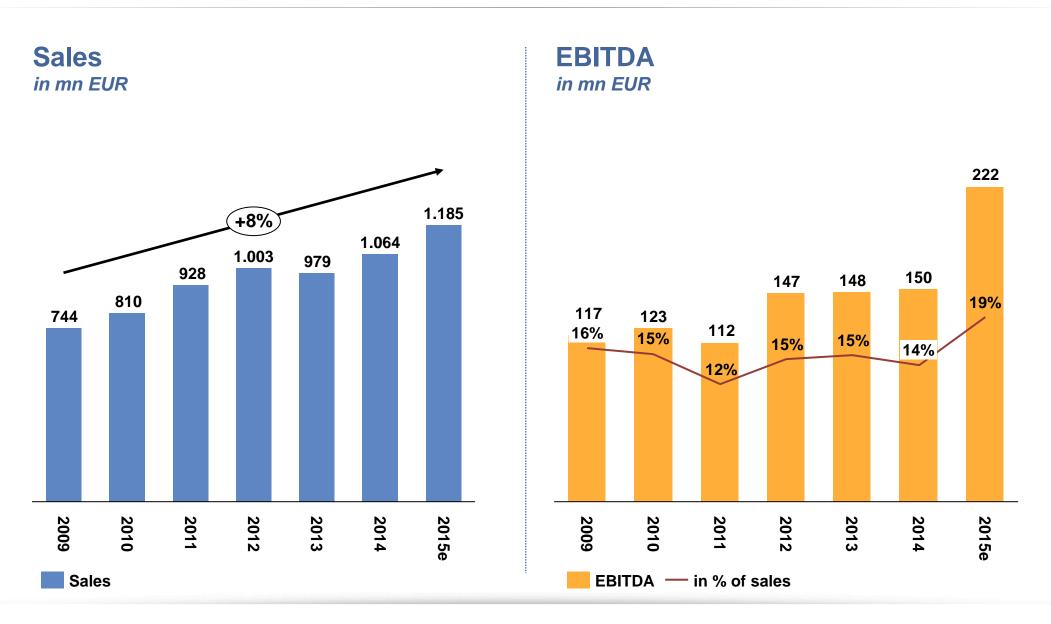
Regional solutions to support local needs and developments

POLYMERS Increases Speed to Market with Unique Approaches





POLYMERS with a Consistent Growth over the last Years





Raw Material Prices with Impact on EBITDA - Different Pricing Mechanism Apply for VAE

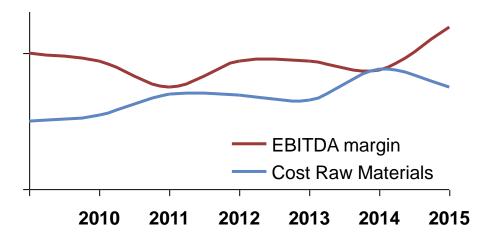
Ranked Cost Structure of POLYMERS

- Raw Materials
- Labor
- Logistics
- Depreciation

Strategy

- Value based pricing
- High capacity loading
- Product Mix
- Operational Excellence (WOS)

Raw Material Prices and EBITDA Margin



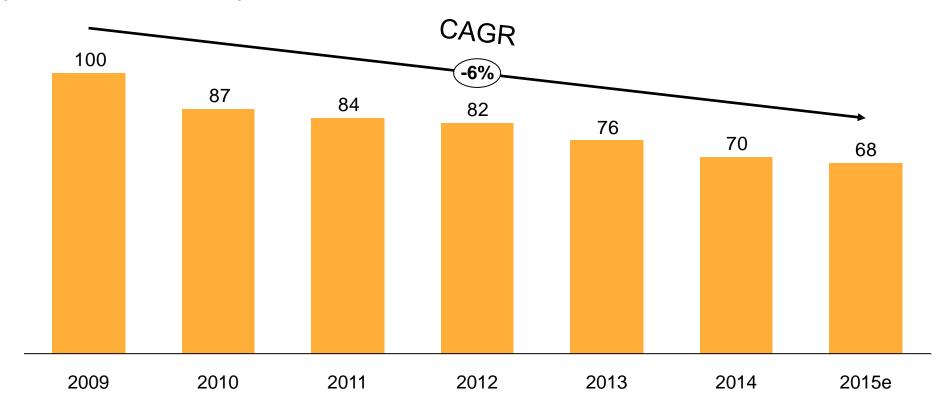
Sources: ICIS, IHS, TECNON, BLOOMBERG

Pricing



Operational Excellence Through the WACKER Operating System Led to Significant Reduction in Operational Costs

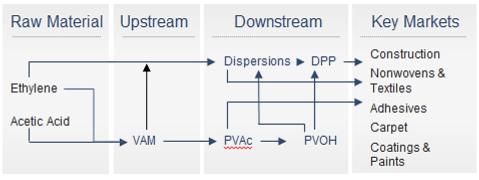
Specific Production Cost POLYMERS (w/o Raw Materials)



▶ Continuous Improvement of Specific Production Costs

WACKER POLYMERS: Global Leader in High Growth Markets

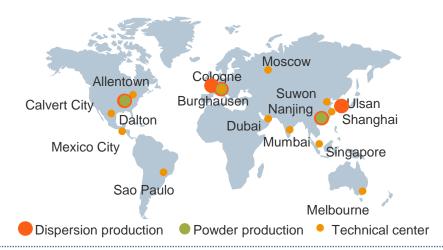
Supply Chain



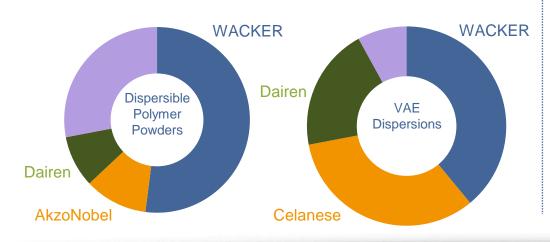
VAE = Vinyl acetate ethylene, VAM = Vinyl acetate monomer, PVAc = Polyvinyl acetate, PVOH = Polyvinyl alcohol

DPP = Dispersible Polymer Powders

Global Setup



Global VAE and DPP Market 2014

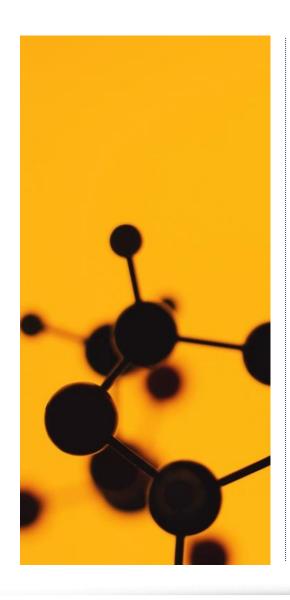


Market Characteristics

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



Chemical Day 2016



Dr. Hartel / Mr Willems: Welcome to WACKER

Mr Willems: WACKER SILICONES

Dr. Hartel: WACKER POLYMERS

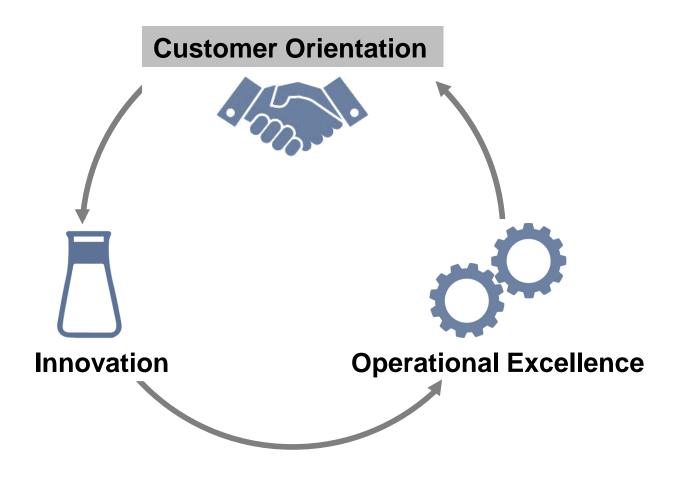
Dr. Hartel / Mr Willems: The Common Ground - Chemicals



The Common Ground: Key Infrastructure for Growth Customer Orientation, Innovation, Operational Excellence

Dr. Christian Hartel, Member of the Executive Board, Wacker Chemie AG Auguste Willems, Member of the Executive Board, Wacker Chemie AG

Systematic Approaches to our Customers - Globally



Customer Orientation: The Foundation of Our Success

>16,000

infinite

>3,500

all







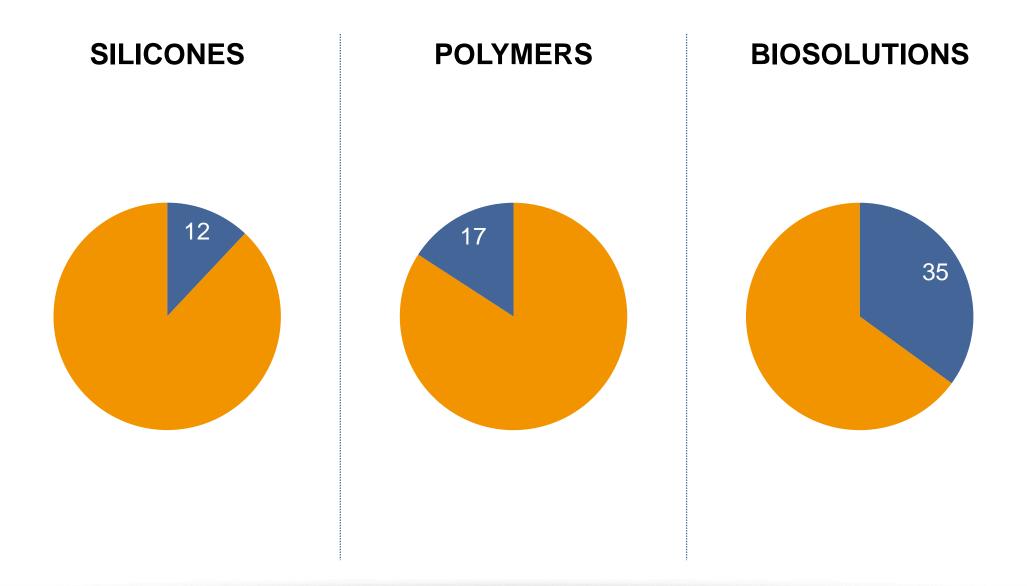


of Customers Industries

of

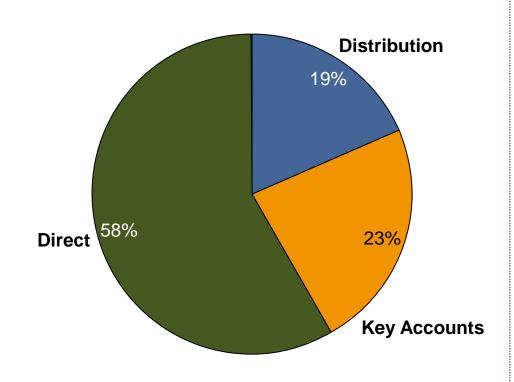
of Products # of Regions

Customer Concentration in Chemicals: Top 5 Share in % of Sales



Addressing Customers Effectively: WACKER Chemical Sales by Channel

Sales Channels



Direct Sales

Sales Representative with Marketing and Technical Service

Distribution

- Selected regional partners
- Market Development Support

Key Accounts

- Holistic approach across all disciplines
- Executive sponsoring
- Matching customer set-up

Global Chemical Sales by Customer Classification



Customer Focus @ WACKER: A Team Approach Combining Customer Intimacy with Cost to Serve

Direct Sales

Sales

High Customer Proximity

Approx. ~50 sales offices worldwide

Marketing

Large Expertise

- Market development
- Strategy
- Market knowledge

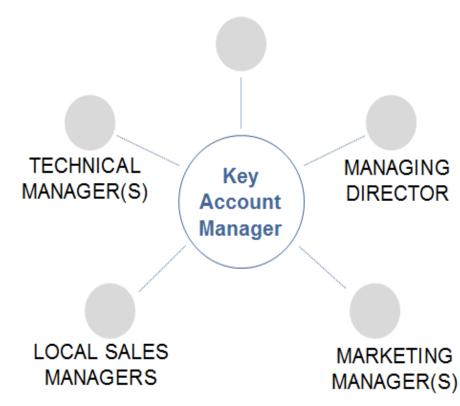
Technical Service

Know-How

- Technical Service
- On-Site application support

Key Accounts





Customer Proximity Creates Customer Retention



Best Innovation Contributor
Beauty Care
2014
Henkel



Preferred Supplier Award 2014
Bosch Group



Best Supplier Partner 2014 Unilever

Technical Centers Provide Enhanced Customer Support with Local R&D Capability

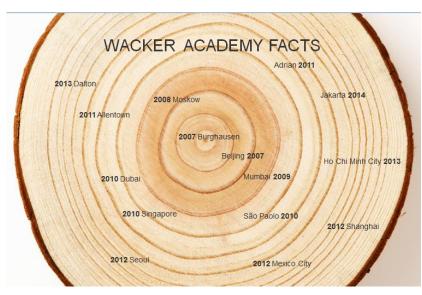


Technical Centers Service Offering

- Market-driven product innovation
- Facilitate tailored solutions for the local market
- Short response times, speed-up of innovation and proximity to customers
- Liaise with leading academia
- Interface to global competency network
- Support local production
- Intellectual property management

Deeper knowledge of and quicker response to local market needs

WACKER ACADEMY – Providing a Regional Infrastructure to Support Customers





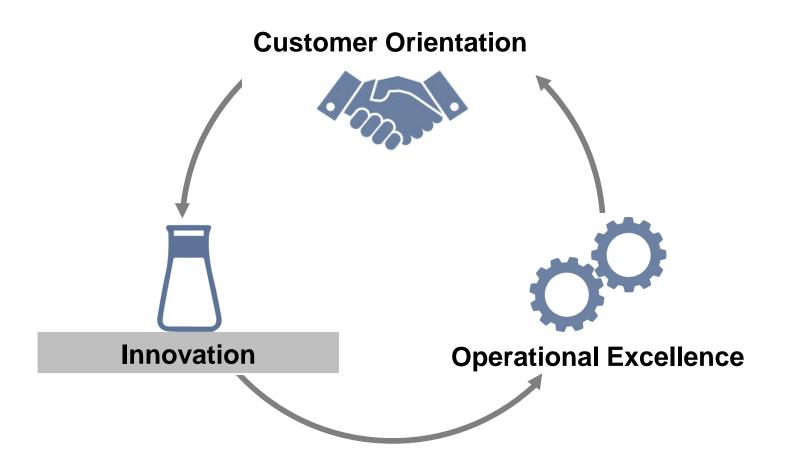
WACKER ACADEMY

- Customer & Distributor teach-in
- Mix between theory and practice –
 Meeting room plus lab
- Close link to technical center

Key Strategies

- Improve existing products
- Drive innovation in close cooperation with customers
- Leverage global network effects between academies

Innovating for Growth

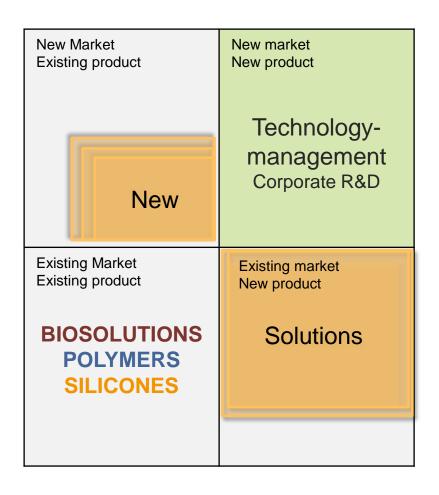


Innovation: We make it happen close to the Customer

Innovation Centers in Core Markets



A Multi-Layer Approach: Combining Divisional Innovation, New Solutions and Technology Management



Divisional Innovation

- Modify existing products
- Develop new applications

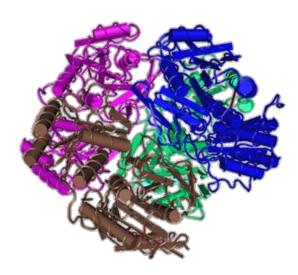
New Solutions

- Leverage existing technologies for innovation outside established business portfolios
- Cross-organizational project development

Technology Management

- Technology and product development in new business areas
- ▶ Little overlap with divisions

New/Existing Innovation: New Production Process for L-Asparaginase – Key to Treating Lymphocytic Leukemia



3D-model of L-Asparaginase

- Spectrila®, a medication made by WACKER's customer medac for treatment of acute lymphocytic leukemia
- L-Asparaginase as the active pharmaceutical ingredient of Spectrila®
- L-Asparaginase is part of WHO's "List of Essential Medicines"

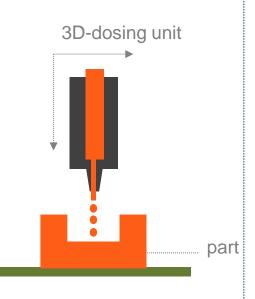
- WACKER developed the whole manufacturing process from scratch
- New process using WACKER's proprietary technologies
- Based on this process WACKER will supply medac with L-Asparaginase from its GMP-facilities from 2016

Mode of Action

- Leukemic cells highly dependent on
 L-Asparagine feed from outside the cell
- Asparaginase converts L-Asparagine, depriving leukemic cells of asparagine leading to death of leukemia cells

New/New Innovation: Ready-to-Use 3D Solution





Prerequisite

- CAD product design
- ▶ 3D printer

Advantage

- Short development cycles (hours to days)
- Low costs for prototyping and small series (no economy of scale)
- Novel product design
- Additive molding (3D printing) of silicone parts will soon be established as an easy-to-use, flexible and cost-effective solution complementing traditional molding technologies like injection molding

New/New Innovation: Silicon Film as Electro-Active Polymer with attractive Applications





Alexander Wacker Innovation Award 2015



- Application areas are medical technology, energy generation, automation and robotics as actuators / sensors
- Production of uniform silicon films with up to 20 µm film thickness

Existing/ New Innovation: Self-Draining Concrete

ETONIS 150, ETONIS 260



Draining Concrete

- Infiltration capable (e.g. road tarmac)
- Noise reduction (e.g. railroad tracks)
- Production in existing concrete mixing plants

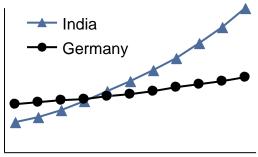
Composition

- Water
- Road chips
- Sand
- Cement
- Plastic fibre

New/Existing Innovation: Transforming Skimcoats in India



Dispersion powder (in kt)



15 16 17 18 19 20 21 22 23 24 25

Skimcoat Applications

- Skimcoat quickly became our core business in India
- Vinnapas® 5010 N / 8034 H as hydrophobic binder for white cement based putty and skimcoat

Innovation & Transformation

- White cement based skim coating
 - Provides a base layer for paints, potential to grow to the size of the overall Skimcoat Market
 - Replaces acrylate-based systems with excellent covering properties at an optimal cost

Growth

Expect India to outgrow German market for dispersion powders already in 2019

A Unique Value Proposition: Combining POLYMERS and SILICONE Capabilities

Epoxy Polymer /Polyurethane Replacement Industrial Flooring



- Environmentally friendly
- Ease of use
- Low number of components



- Better adhesion and tougher surface
- Lower system complexity

New Solutions

Surface treatment for mineralic substrates

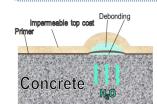


- Epoxy/polyurethane Replacement
- Combine fine particle polymers with hydrophobicity

Epoxy Polymer replacement Water Vapor Barrier

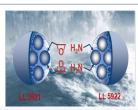
Epoxy Polymer replacement

Primer for industrial floors



- Polymers with high VC or C2 content
- Lower system complexity

ET 593 Reactive Polymer Powders



- Improved chemical resistance for cementitious mortars
- Test runs with customer underway

Corporate R&D Fields in Chemicals

Chemistry 1



- Functional silicones, membranes and porous coatings
- Silicate insulation materials
- New crosslinking methods

Chemistry 2

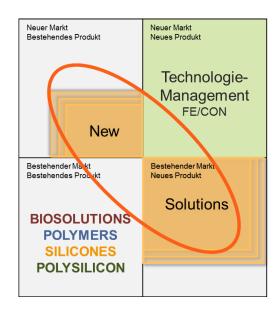


 Development of active materials for Li-ion batteries (functional polymers, particles and composites)

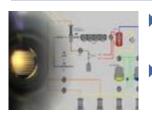
Function



- Active materials for energy storage
- Performance testing



Application



- Innovative materials based on HDK®
- New technologies

Biotechnology



- Protein production
- Metabolic engineering
- Industrial biotechnology

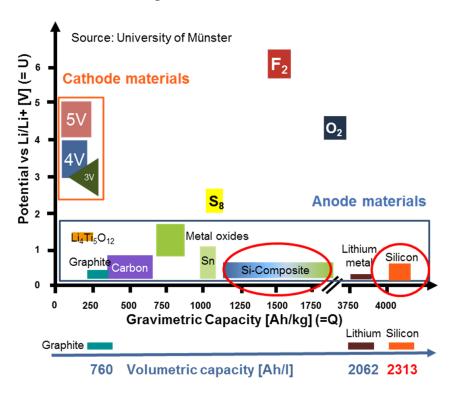
Services



- Analytics and method development
- Toxicology

Corporate R&D: Si-Anodes for Lithium-Ion Batteries

The landscape of LIB materials*



WACKER development target

Product package to enable increase in energy density of the cell by 20-40% including

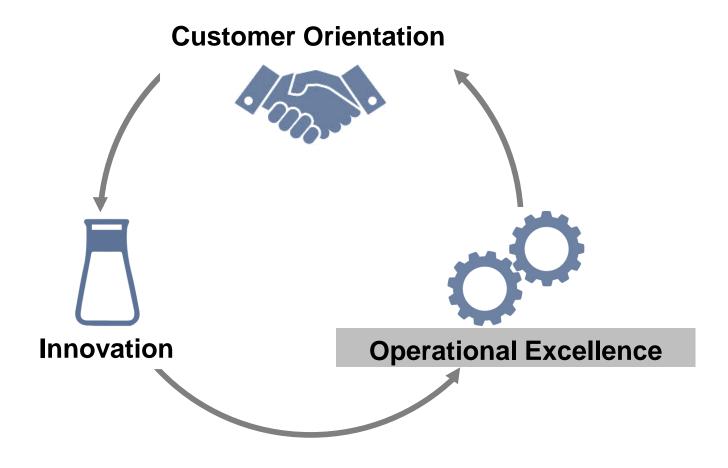
 stable Si containing anode active material with ~ 1000 mAh/g (up to 1500 mAh/cm³)

optionally supported by

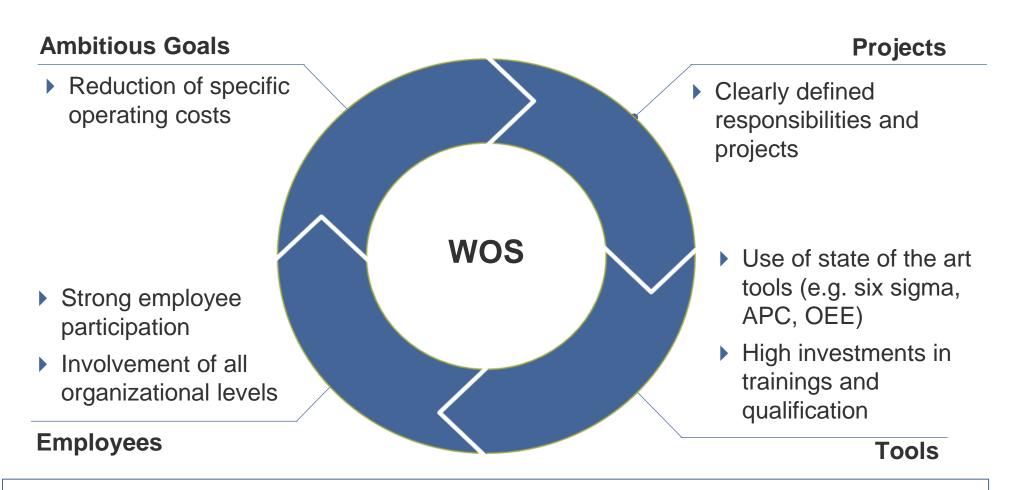
- optimized binder
- adjusted electrolyte

▶ S.H. Kang^{**}: "Si-anodes are an inevitable to meet the high energy density demand of Lithium-Ion Batteries"

Driving Value Creation in Operational Excellence



The WACKER Operating System - "WOS": Continuous Focus on Productivity



▶ WOS - WACKER Operating System Targeting continuous improvement along the whole value chain

Elements of Continous Improvement



WOS Academy



- Training of methods (Six Sigma, LEAN), about 80 employees p.a.
- Support belt projects; projects with more than 2 Mio. € benefit p.a.

From knowledge to application

Methods and Tools



- General tool to log production losses, implemented in more than 50 plant's worldwide
- ▶ OEE-Cockpit for production plants, implemented in more than 40 plant's worldwide
- WOS Database for measure tracking of more than 500 projects p.a.

Data logging and analyzing

Projects



- Support plants and corporate services
- Application of methods and tools for improvement
- Create measures for improvement

Improve productivity

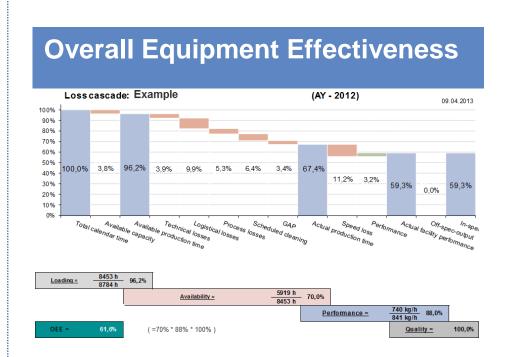
Basis for Continuous Improvement : Uniform, Integrated Data Logging Tool for Production Plants

Integrated system for identification of production losses

- Automatic data logging of failure
- Categorize losses
- Data analysation
- Use statistical process control

System implemented in majority of all production plants worldwide

OEE-Cockpit for production plants



Process Development with Essential Contribution for Operational Excellence

Pilot plant

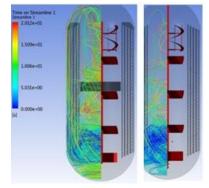
Develop scale up rules and improve technologies





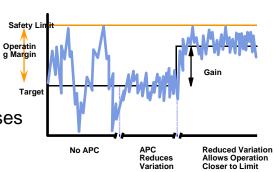
CFD

Optimised design of processes and equipment



APC

Pushing the plant beyond the limits, avoid dynamic losses



Objectives

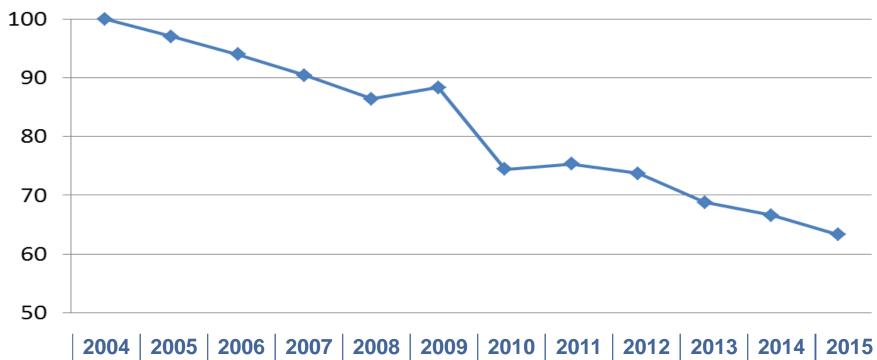
- Avoid capital costs
- Maximize throughput
- Minimize productions costs

Competencies/Methods

- Engineering Excellence in core processes
- Expertise in design and scale up
- Pilot plants
- Process Simulation tools:
 - Flow Sheet Simulations (e.g. Aspen)
 - Rigorous Modelling (e.g. Polymerization)
 - CFD Computational Fluid Dynamics
 - Wacker Process Explorer (Visualize losses)
 - APC Advanced Process Control

Supply Chains with Significant Improvement over 10+ Years

Continuous reduction of specific OPEX (average of relevant plants)





Reduce spec. OPEX 30 % in 3 years

WACKER German Plants

WOS 2.0

Reduce spec. OPEX 10 % p.a.

WACKER Group Plants, **Corporate Services**

WOS 3.0

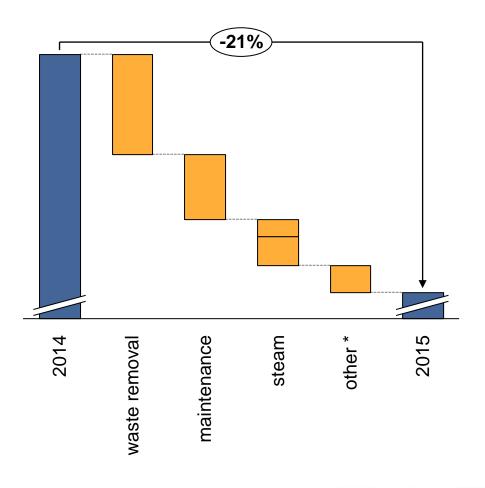
Individual plant targets

WACKER Group Plants, **Corporate Services**



Example SILICONES 1/2: Optimizing Silane Distillation in Nünchritz

Specific Costs 2014 vs. 2015 [€/t]



Target

- Increase yield -> continuous process development
- Optimize heat recovery
- Minimize waste streams

Result

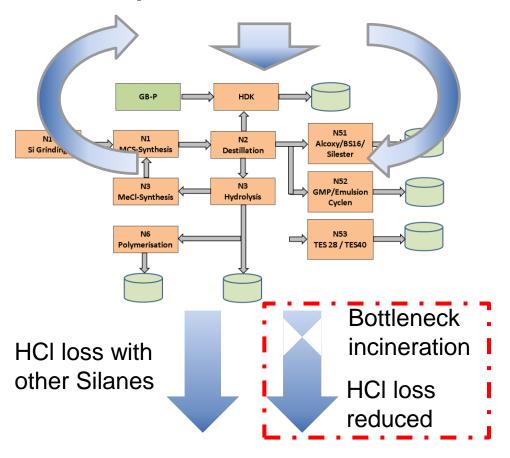
Decrease specific costs by 21% yoy

* other= sum of values of other cost typs



Example SILICONES 2/2: Leveraging the Verbund for Debottlenecking in Siloxane

Siloxane production & HCI circuit



Target

- Reduce chlorine loss in production system
- Improve yields in MCS* production
- Optimize material flow between SILICONES and POLYSILICON

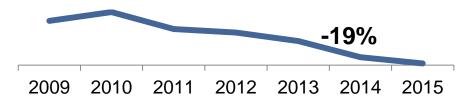
Results

- New production records for MCS in Nünchritz
- Reduced costs
- ▶ Reduced chlorine loss by over 2/3

Example POLYMERS 1/2: Reducing Energy Needs in Dispersible Powders



Consolidated Energy kWh/to (indexed)



Target

- Reduce specific energy needs per ton of dispersible powder in VAE spray dryers
- Re-use stranded energy outputs in the Verbund system

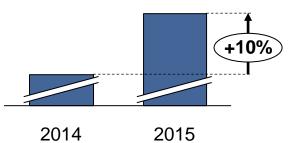
Result

- Lower energy costs
- Leveraging Verbund
- Capacity gain

Example POLYMERS 2/2: Improving Capacity of Existing Dispersion Reactors



Capacity (t/a)



Target

 Increase output of existing reactors without significant capex

Projects

- Improve continuous polymerization
- Optimize cooling
- New vacuum pump
- Recipe opimization

Result

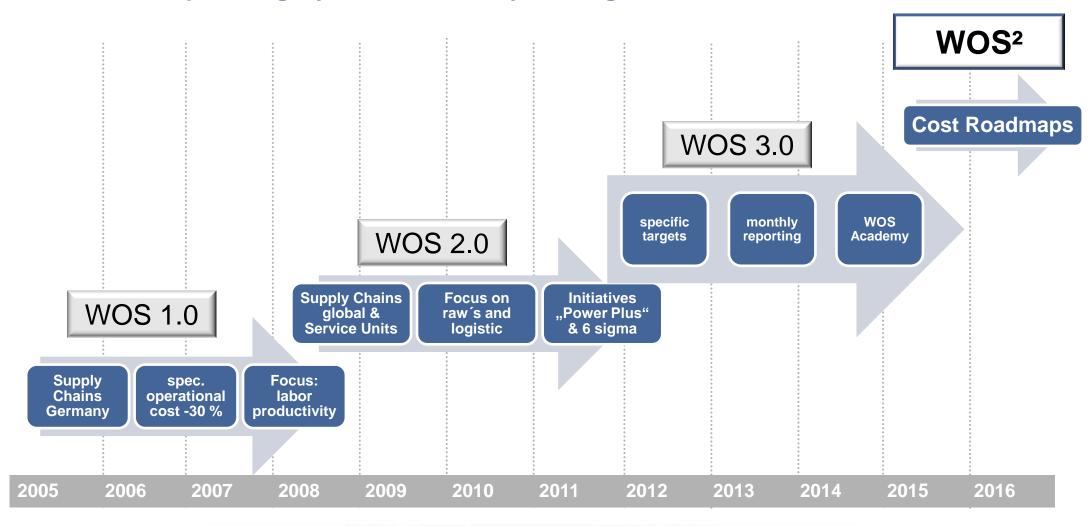
- More Capacity
- Lower specific costs

Benefits of Operational Excellence within Chemicals

Functional areas Areas of focus **Productivity Savings** (in €m) Improved sourcing 55 SOURCING Reduction of variable costs 40 35 35 Yield optimization **PRODUCTION** Personnel productivity 25 Global supply chain optimization **LOGISTICS** Reduction of internal logistics 2011 2012 2013 2014 2015 Realized productivity savings over five years: 190 €m

WOS – Evolutionary Development since 2005

WACKER Operating System – Steadily raising the bar



WOS ² - Aggressive Cost Roadmaps: Transferring A Winning Approach to Chemicals

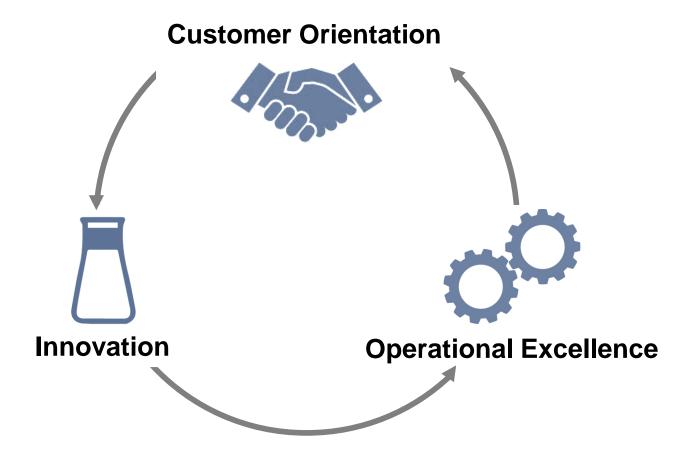
Chemicals

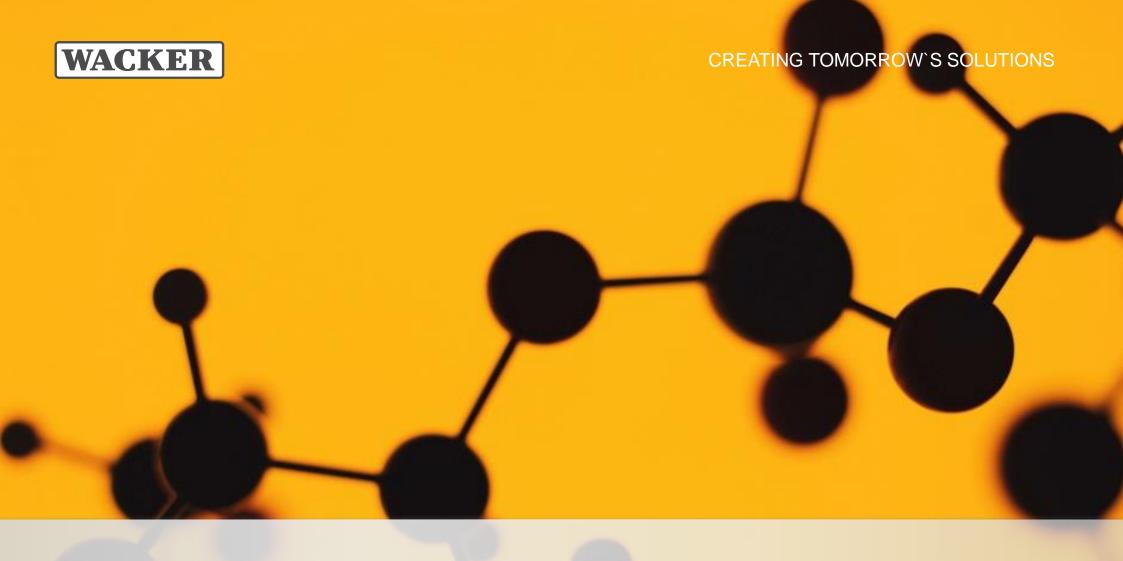
- WOS WACKER Operating System: targeting continuous cost decrease in specific operating costs
- ▶ Raw material and energy cost: optimized yields, loss reduction, raw material and energy recovery, process optimization
- ▶ Labor: reduce set-up times and non-value-added activities
- ▶ Logistics: lean processes, optimized packaging
- ▶ Technical spending: optimize inspection cycles, spare part storage
- ▶ Asset utilization: debottlenecking

▶ Leveraging successful cost roadmap approach to Chemicals

Measures

WOS Fosters a Continuous Improvement Culture





Chemical Day 2016 February 15, 2016

WACKER: Issuer, Contact and Additional Information

Issuer and Contact

- WACKER CHEMIE AG Hanns-Seidel-Platz 4 D-81737 Munich
- Investor Relations contacts

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judith.distelrath@wacker.com

Financial Calendar

03/17/16 - FY Results 2015

04/28/16 - Q1 Results 2016

05/20/16 - Annual Shareholders' Meeting

07/28/16 - Q2 Results 2016

10/10/16 - Capital Market Day

10/27/16 - Q3 Results 2016

Additional Information

ISIN: DE000WCH8881

WKN: WCH888

Deutsche Börse: WCH

Ticker Bloomberg: CHM/WCH:GR

Ticker Reuters: CHE/WCHG.DE

Listing: Frankfurt Stock

Exchange

Prime Standard





