

WACKER BIOSOLUTIONS -A Breeding Ground For Innovation And Growth

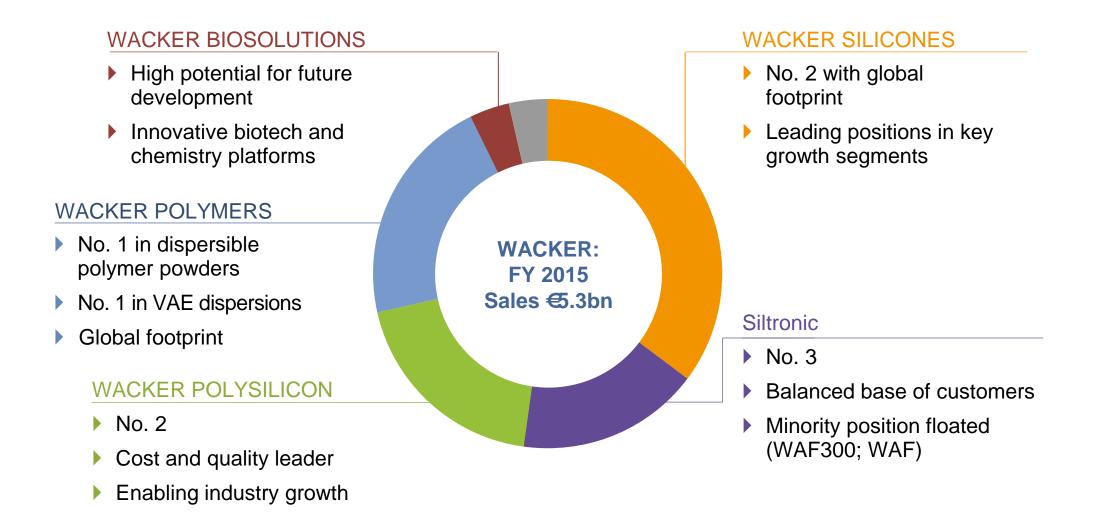
Dr. Thomas Maier, Managing Director WACKER Biotech GmbH Baader Investment Conference, 20th September 2016

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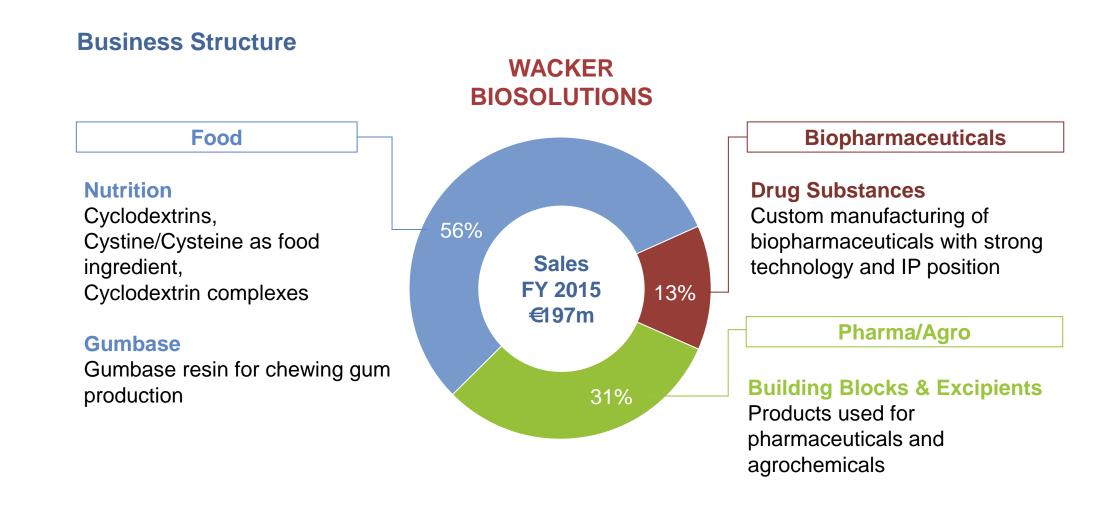
Our Business Portfolio – A Foundation For Growth



*Sales FY 2015, Others

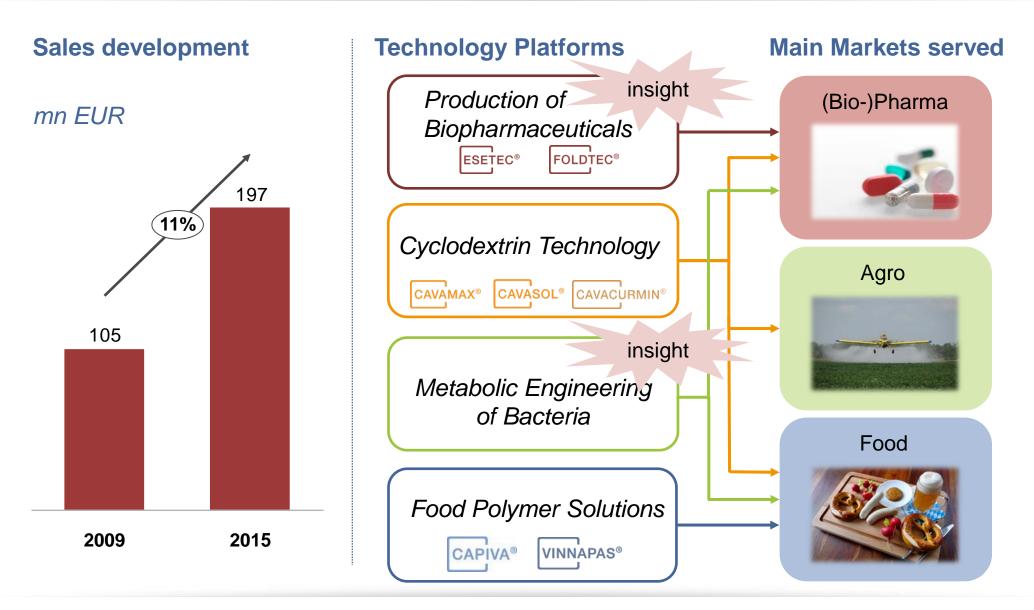
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WACKER BIOSOLUTIONS – The Life Science Division



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BIOSOLUTIONS – Double Digit Growth in Promising Markets is Driven by Our Innovative Technology Platforms





Biopharmaceuticals Are The Innovation Driver in The Pharmaceutical Industry

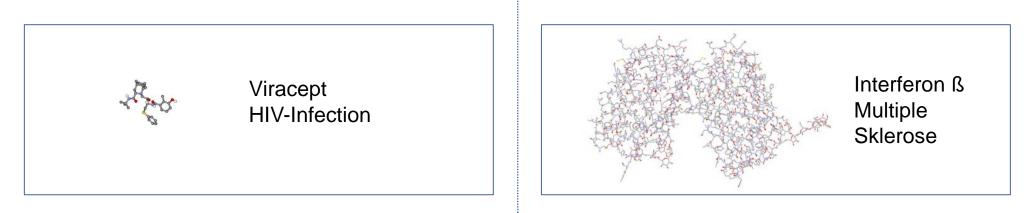
insight 1

Classical drug substances

- Manufactured by chemical syntheses
- Relatively **small** and simple molecules

Biopharmaceuticals

- Manufactured by biotechnological processes using bacteria, yeast or mammalian cells
- Highly complex, large proteins



- 10 out of the 20 top-selling drugs are biopharmaceuticals by end 2016
- 604 new biopharmaceutical drug candidates in the pipeline: more than doubled compared to 265 in 2005



With Strategic R&D And Acquisitions of Start-ups a Fast Growing Biopharmaceuticals Business Has Been Established

WACKER Biopharmaceuticals Production Platform

Established by R&D and Acquisitions



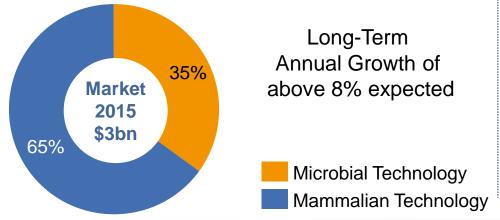
2005: Prothera GmbH

- 2014: Scil Proteins Production GmbH

Business Model of WACKER Biotech GmbH



Biopharmaceuticals Contract Manufacturing Market



- WACKER is the biggest dedicated microbial contract manufacturer in Europe
- Major Competitors include Lonza, Boehringer Ingelheim, Sandoz, FujiFilm Diosynth, Synco Biopartners

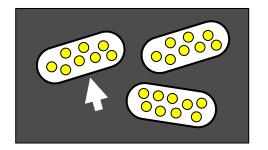


WACKER Introduced A Revolutionary Technology For The Production of Biopharmaceuticals



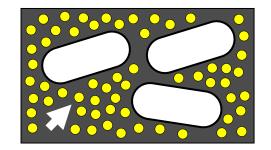
Traditional Process (microbial, E. coli)

Product accumulates inside the bacteria



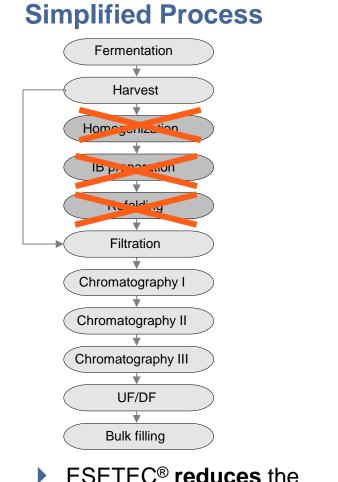
ESETEC[®] (*E.coli* secretion technology)

Product is transported outside the bacteria

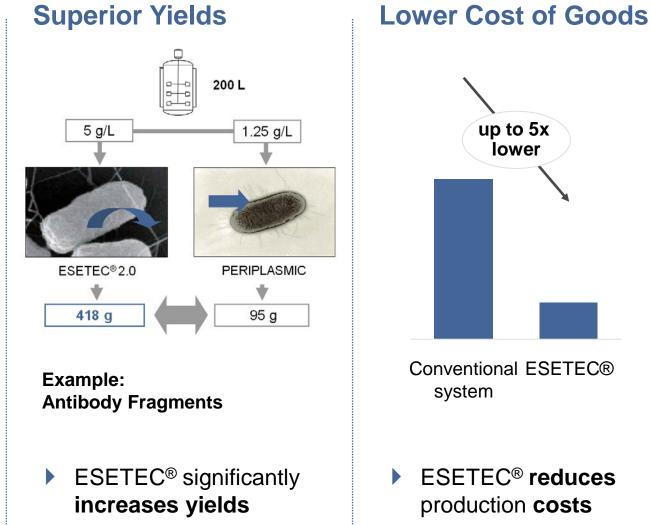




ESETEC[®] Enables Time- And Cost-Efficient Manufacturing of Biopharmaceuticals



number of process steps



Our Potential: Expand ESETEC[®] Use and Continue Growth with >20% CAGR



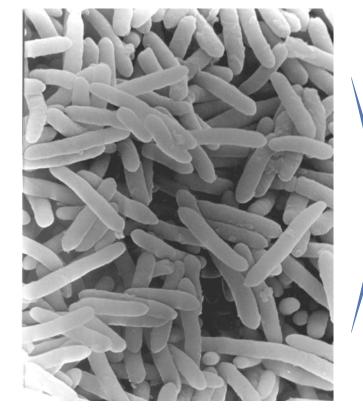
Metabolic Engineering Takes Advantage of The Synthetic Capabilities of Bacterial Cells

Insight 2

Raw materials

- Glucose
- Mineral salts

Bacterial Cells



High value products

- Amino acids
- Vitamins
- Fatty acids
- Isoprenoids
- Antibiotics
- Nucleotides
- Biopolymers
- Biofuels

Metabolic Engineering is the practice of optimizing <u>genetic</u> and regulatory processes within <u>cells</u> to increase the cells' production of a certain substance.



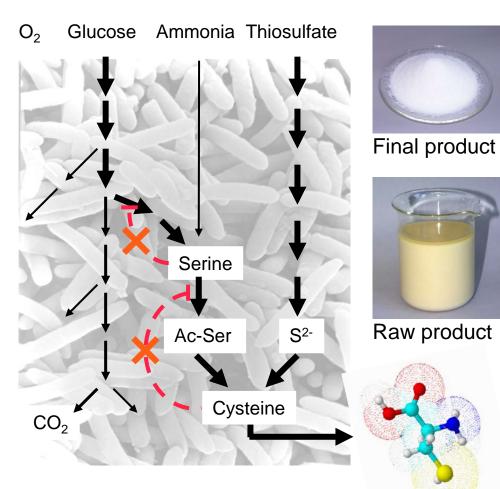
WACKER's Metabolic Engineering Technology Led to a New Vegetarian Quality Product of The Amino Acid Cysteine

Traditional Process

Extraction from human hair and animal feather = unwanted in food applications

WACKER Process = vegetarian

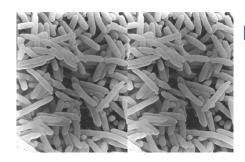
- Cysteine synthesis in bacteria comprises **17 steps**
- WACKER scientists identified and modified the "**bottleneck**" genes
- **20.000-fold increase** of cysteine production achieved
- Vegetarian, Kosher and Halal
- Compliant with all major food (HACCP) and pharmaceutical standards
- Raw material and energy efficient



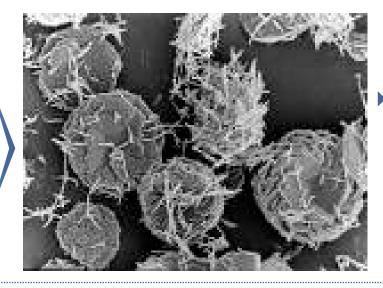


WACKER's Metabolic Engineering Technology Enabled Market Leadership For Cysteine

Our Metabolic Engineering Platform

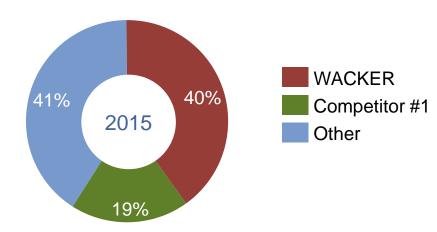


Bacteria before Metabolic Engineering



Bacteria after Metabolic Engineering sitting "proud" on their product

Cysteine Market Split by Revenue*



- We are the clear market leader in the Cysteine food market
- Cysteine-business is unlike other amino acids a specialty business
- We realize price premiums due to our superior quality

*Food only



Solid Growth For Vegetarian Cysteine in All Markets – New Ingredients Are Being Developed

Selected Applications for Cysteine as a Life Science Ingredient



Food additive



Supplement

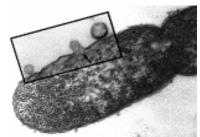


Food flavors



New Metabolic Engineering Developments are ongoing

- Our platform technology fits to customer need for "natural" ingredients
- Technology is being used to produce other high-value and "natural" ingredients
- We are aiming for a superior cost position in specialty markets of food and pharma
- A strong IP position secures our success

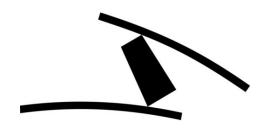


Our Potential: >€50m Additional Revenue by Developing New Ingredients for Life Science Markets



Our Commitment to Innovation Pays Off – A Decade of Successful Product Launches And Recognition as Innovator

	05-07	2008	2009	2010	2011	2012	2013	2014	2015
Pharma & Biopharma	••	•	••	••••			•	••	••
Food & Cosmetics	••	••		•		••••	••••	••	••
Agro & Industrial			•	••	•		•		
Total	4	3	3	7	1	4	6	4	4



– product launch



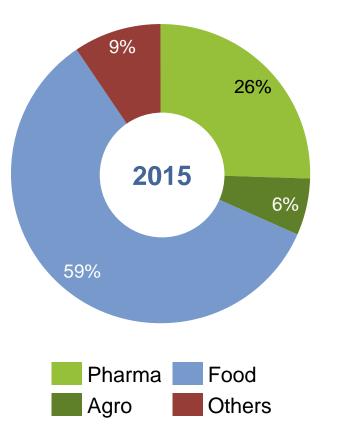
Business Innovation Award 2016

- Sponsored by the Federal Ministry of Economic Affairs
- WACKER among the top four corporate finalists selected by the scientific committee
- Honored for developing ESETEC[®]: cost-efficient technology for manufacturing cutting-edge biopharmaceuticals



BIOSOLUTIONS Growth Impetus Driven by Technology Platforms

WACKER BIOSOLUTIONS Revenue split by end market

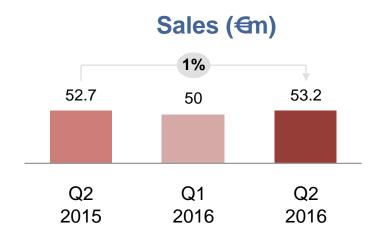


BIOSOLUTIONS – What's next?

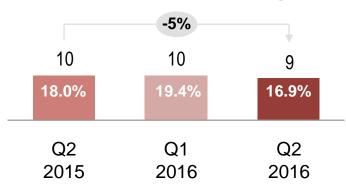
- BIOSOLUTIONS grows with solutions for the megatrend "ageing population"
- We expect continuation of our growth momentum in Pharma, Food, and Agro
- BIOSOLUTIONS has a low exposure to economic cycles and raw material cost
- Innovation remains key element of our business and our technology platforms will expand into new products, applications, and services to our customers

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BIOSOLUTIONS Strong Volumes in Biopharmaceuticals



EBITDA (€m) / margin



Highlights Q2

- Sales +1% yoy
- Higher volumes in biopharmaceuticals and nutrition overcompensate lower prices in gum segment

Outlook FY 2016

- Mid-single digit sales growth with EBITDA at the level of previous year
- Significant growth expected for biopharmaceuticals





WACKER BIOSOLUTIONS -A Breeding Ground For Innovation And Growth

Questions & Answers

WACKER: Issuer, Contact and Additional Information

Issuer and Contact

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Financial Calendar

10/11/16 – 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





Corporate Responsibility				Prime				
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