

WACKER

CREATING TOMORROW'S SOLUTIONS



WACKER CHEMIE AG
2016 Capital Market Day – WACKER BIOSOLUTIONS

Burghausen, Oct 11, 2016
Gerhard Schmid

WACKER BIOSOLUTIONS

The Life Science Division

Business Structure

Food

Nutrition



Gumbase



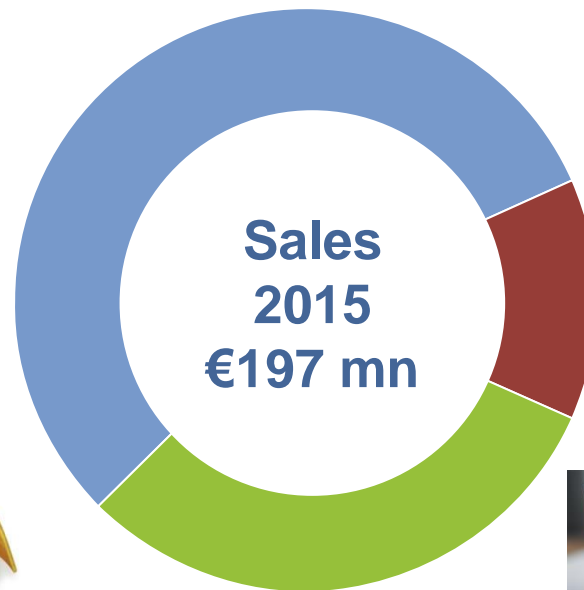
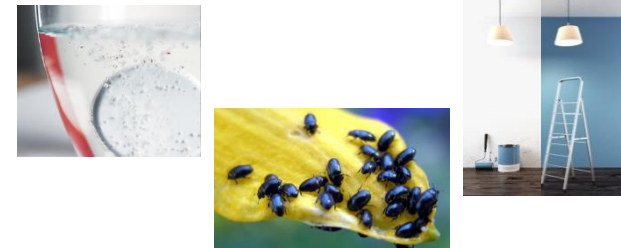
Biopharmaceuticals

Drug Substances



Pharma/Agro

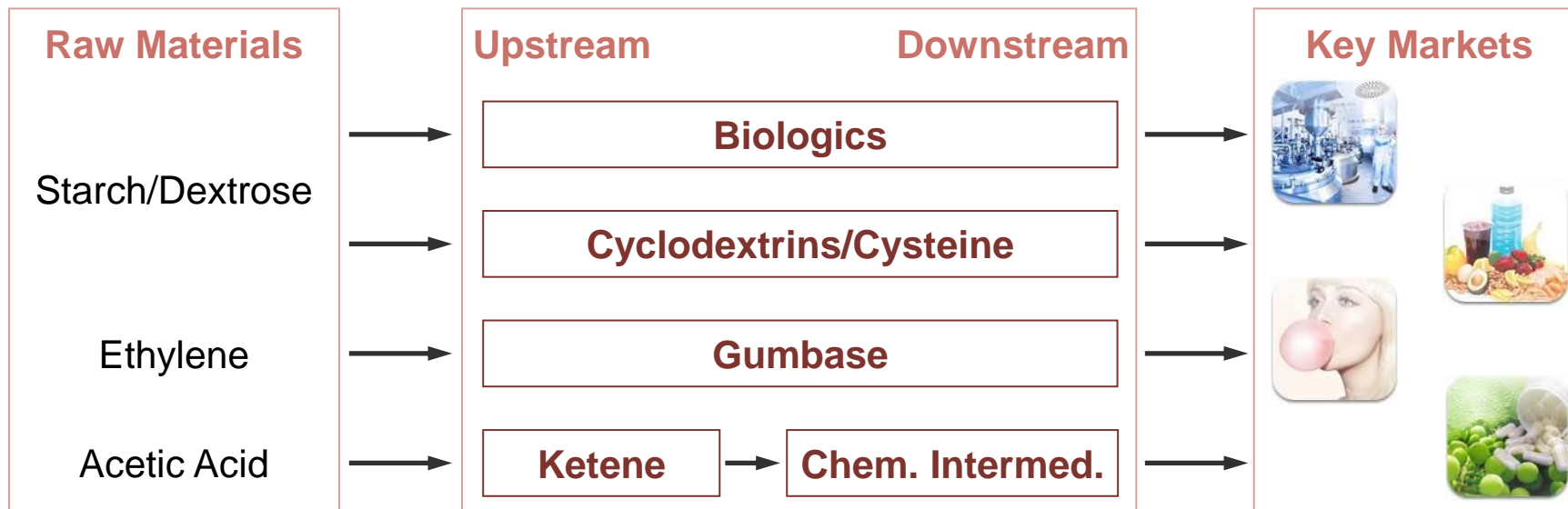
Life Sciences



WACKER BIOSOLUTIONS

The Life Science Division

Supply Chain

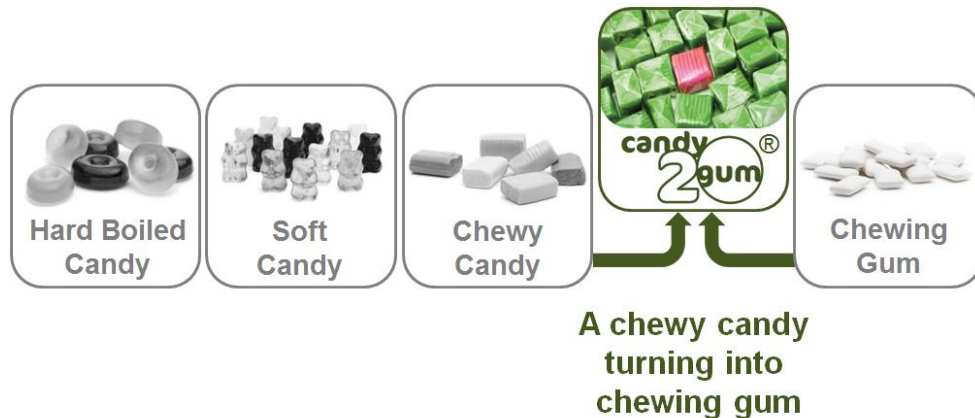


WACKER BIOSOLUTIONS

CANDY2GUM® – A Chewy Candy Chewing Gum

CANDY2GUM®: ENABLING A NEW CONFECTIONERY CATEGORY BASED ON WACKER POLYMERS

A New Consumer Product

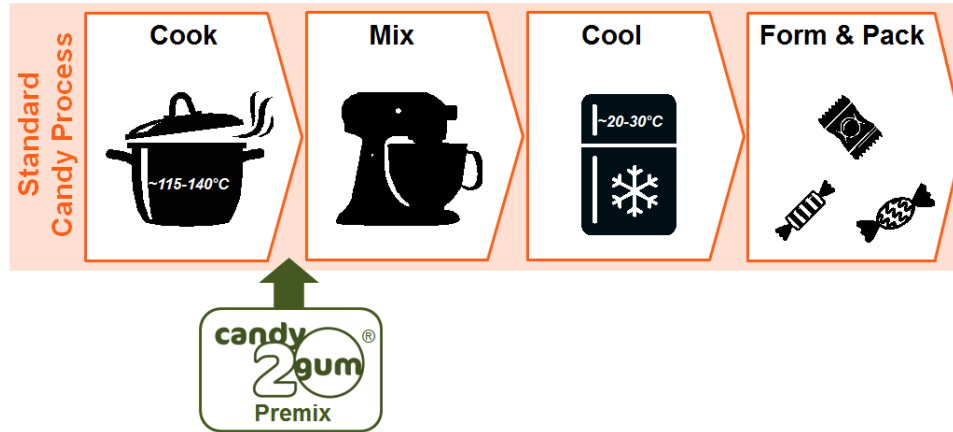


- ▶ “New chew” – chewy candy turning into chewing gum
- ▶ WACKER offers a ready-to-use premix to confectionery producers

WACKER BIOSOLUTIONS

CANDY2GUM® – A Chewy Candy Chewing Gum

A SIMPLE MANUFACTURING PROCESS



- ▶ Simple cooking process
- ▶ Compatible with existing candy processes, ingredients and equipment
- ▶ Already approved in North America, EMEA and many APAC countries, e.g. China

A VARIETY OF NEW POSSIBILITIES



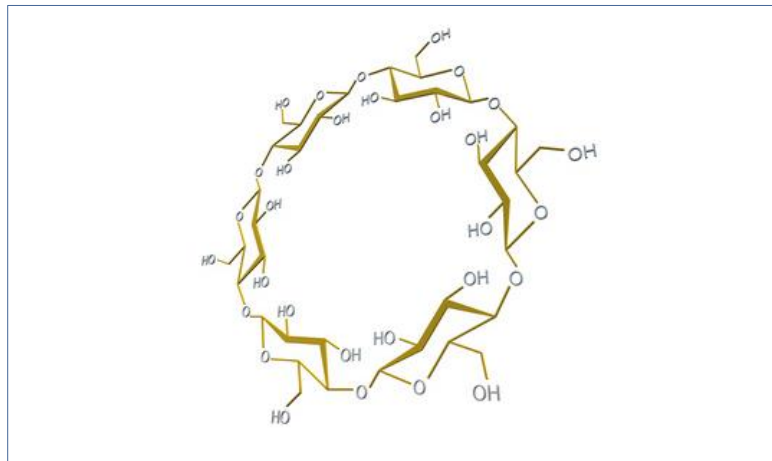
- ▶ Compatible with sugar and sugar-free systems
- ▶ Use of water-based and natural ingredients that cannot be used in conventional chewing gum
- ▶ Indulgent treats based on, e.g. caramel or chocolate

WACKER BIOSOLUTIONS

Innovative Food Solutions

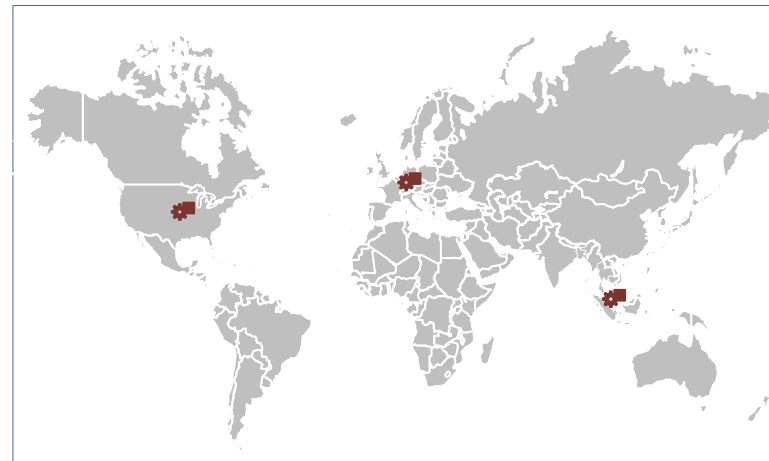
Alphadextrin – A Versatile Fiber

NOVEL FOOD INGREDIENTS



Alphadextrin: A versatile soluble fiber with texturizing and emulsifying properties, manufactured from renewable vegetable starch.

REGIONAL TECH CENTERS



Food laboratories in Europe, USA and Asia and a distributor network for technical support ensure customer proximity and application development.

WACKER BIOSOLUTIONS

Innovative Food Solutions

EGG-FREE CAKES



- ▶ Vegan cake with vegetable oil and alphadextrin
- ▶ No E numbers
- ▶ Independent of volatile egg prices – stable costs for easier long-term budgeting

CLEAN LABEL ICE CREAM



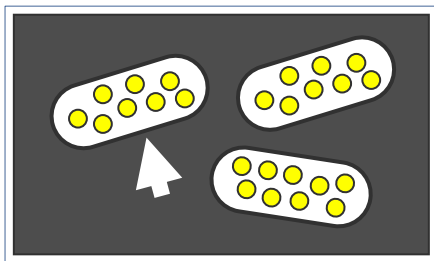
- ▶ Replacement of non vegetable emulsifiers with E number
- ▶ Higher overrun
- ▶ Better mouthfeel
- ▶ Reduction of total fat

WACKER BIOSOLUTIONS

ESETEC® – A Revolutionary Technology

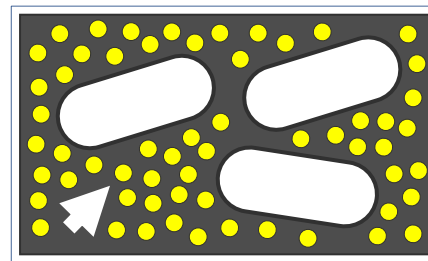
Efficient Production of Biopharmaceuticals

TRADITIONAL PROCESS



- ▶ E.coli
- ▶ Product accumulates inside the bacteria

ESETEC®



- ▶ E.coli secretion technology
- ▶ Product is transported outside the bacteria

STRONG CUSTOMER BASE – STRONG MARKET REPUTATION



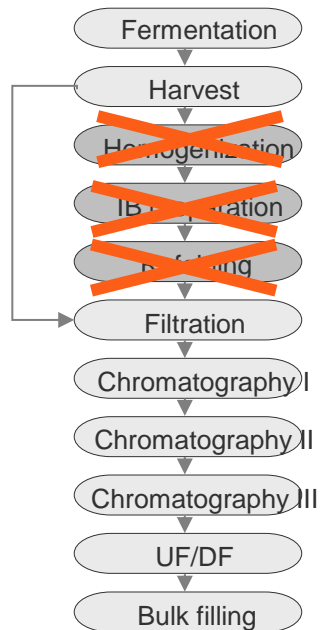
G. Wasserman, Sr. VP Development:
“ESETEC®... helps improve productivity and simplifies the purification process, which is critical as we work to bring important medicines to patients as quickly as possible.”

WACKER BIOSOLUTIONS

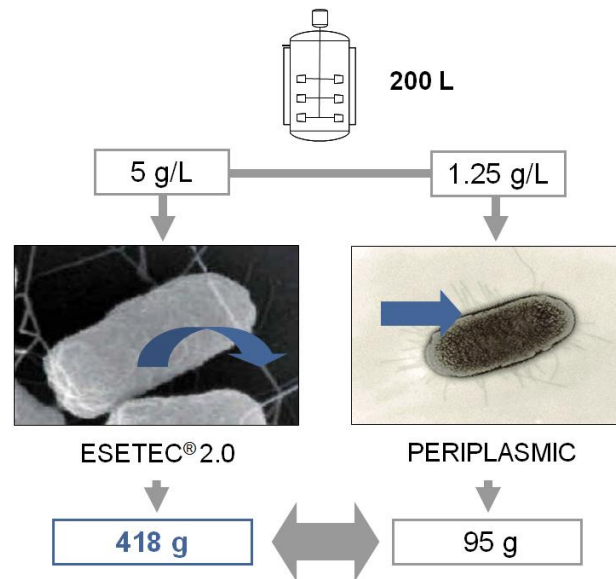
ESETEC® – A Revolutionary Technology

Efficient Production of Biopharmaceuticals

SIMPLIFIED PROCESS



SUPERIOR YIELDS



LOWER COGS

