

Capital Market Days 2020

ContiTech: Material Science Enabling The Way Beyond Rubber

Ticker: CON ADR-Ticker: CTTAY http://www.continental-ir.com

Dr. Jens Hoegermeier, Head of Advanced Technology Development, ContiTech December 11, 2020

Today's ContiTech Is Already Moving Beyond Rubber

YEARS of material expertise at the heart of our development. And the story continues beyond rubber...

1871

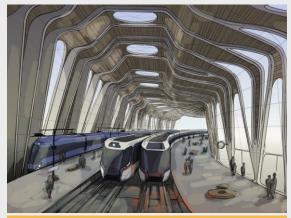
100% Rubber

150



We are material experts and provider of complex systems

The World Is Changing: Industry Megatrends Why We Are Developing Beyond Rubber



Infrastructure changes

Trainlines and transportation
Alternative energies



Automation

Automated harvesting
Automated production





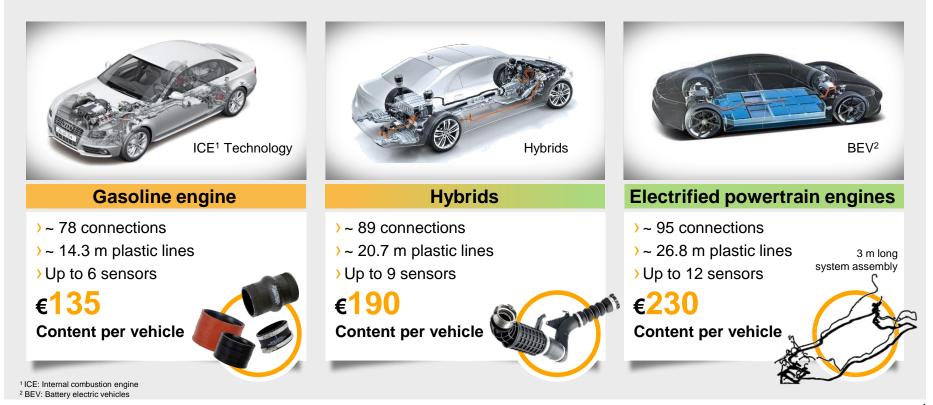
Industry solutions

> Predictive maintenance
> Connectivity
> Internet of Things in production

Capital Market Days 2020 - Material Science

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The World Is Changing: Automotive Megatrends Why We Are Developing Beyond Rubber



ContiTech Innovation Fields

Material Science Beyond Rubber



Thermoplastics Enabler to Solve Customer Challenges

Customer challenges

BEV¹ range (battery temperature) Remote area breakdowns

Digital integration Internet of Things in interior production

Automated tooling recognition

Demand for information

Metal structures in cars (weight)

Enabler

- > Engineered thermoplastics
- > Rubber/thermoplastics hybrid materials
- > Composites (fibers etc. in rubber/thermoplastics matrix)

¹ BEV: Battery electric vehicles ² RFID: Radio frequency identification

Solutions

Active thermal battery management

Smart tooling (RFID² etc.)

Predictive maintenance

Functionality interior

sensor integration

Composites to replace metal for weight reduction

Engineered thermoplastics

Composites: Rubber/thermoplastics and fibers etc.

Rubber/thermoplastic hybrid materials

Thermoplastics Enabler to Solve Customer Challenges

Battery management system ID.3 enabled by thermoplastics technology



¹ Content in electric vehicle versus in a same sized internal combustion engine vehicle

Sustainable Materials Research for a Greener Tomorrow

Customer challenges

A sustainable future

Recycling Renewable

Renewable Waste materials reduction

Solutions

Use of renewable materials	5 projects
Integration of recycled materials	4 projects
Waste reduction	5 projects



Enabler

- > Renewable materials compounding
- > Sustainable supply chain (focus on natural rubber)
- > Conflict mineral elimination

First consumer product: Garden hose from renewable rubber based on sugar cane

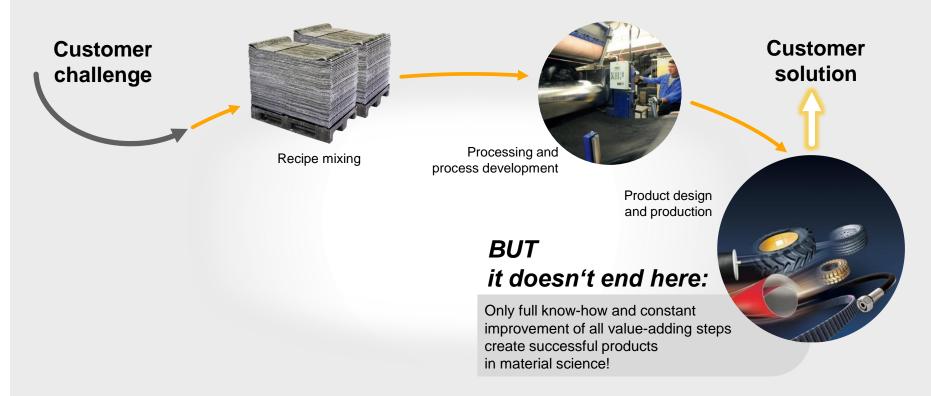
Material Science: Chemistry Meets Processing

Closed loop development!

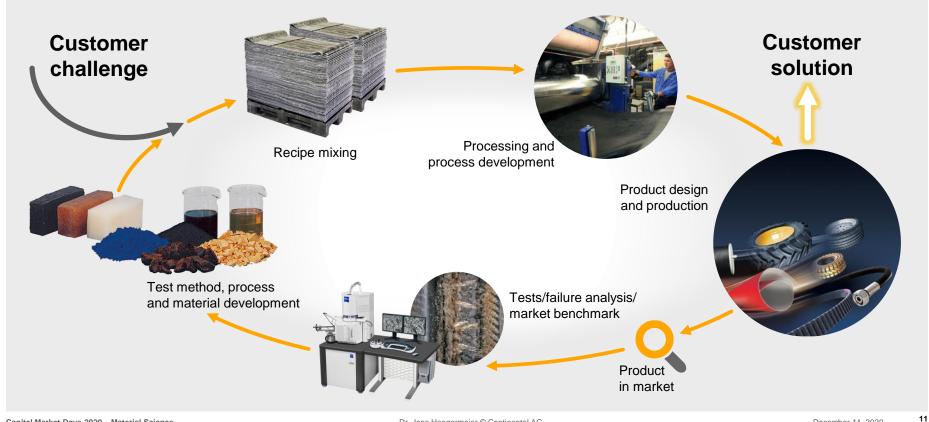
- > Compounding and processing know-how
- > Optimal quality throughout full value chain
- > Continuous improvement by advanced analytics



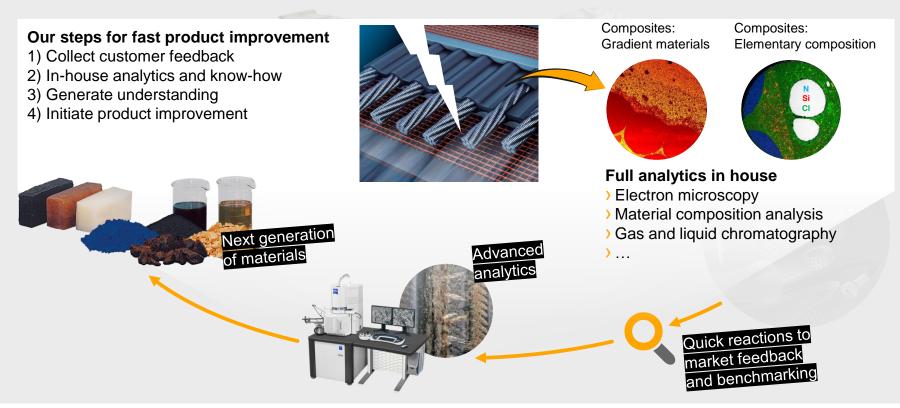
Material Science: Chemistry Meets Processing



Material Science: Chemistry Meets Processing



Competences Beyond Chemistry: Analytics



Why We Are Strong in Material Science Summary







Strong base

Material Science is part of our DNA – for 149 years and counting!

Customer focus

Material science beyond rubber enables customer focused solutions

Agile inventor

Our closed loop development and unique analytics allow us to create new solutions

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