BMW SUSTAINABILITY

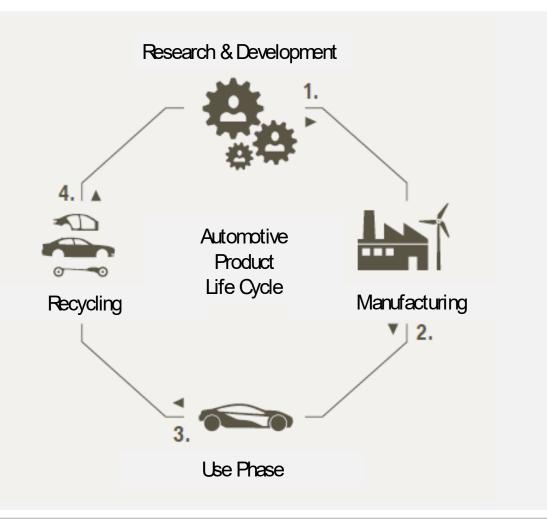
RECYCLING AND TIRES

Wes Westbrooks Senior Waste Specialist BMW Manufacturing Co. LLC Plant Spartanburg December 4, 2019





OVERVIEW



Sustainable Mobility

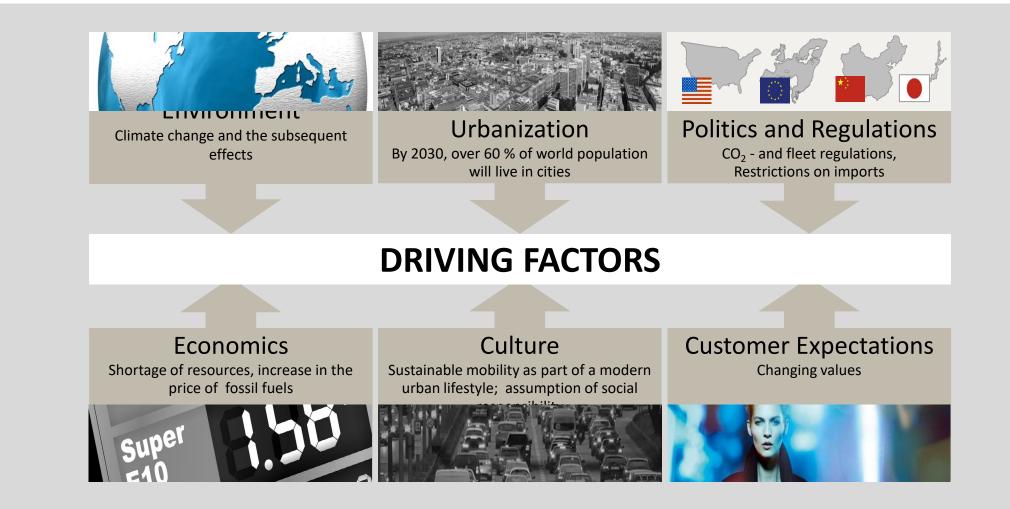
Plant Spartanburg

Life Cycle Assessment

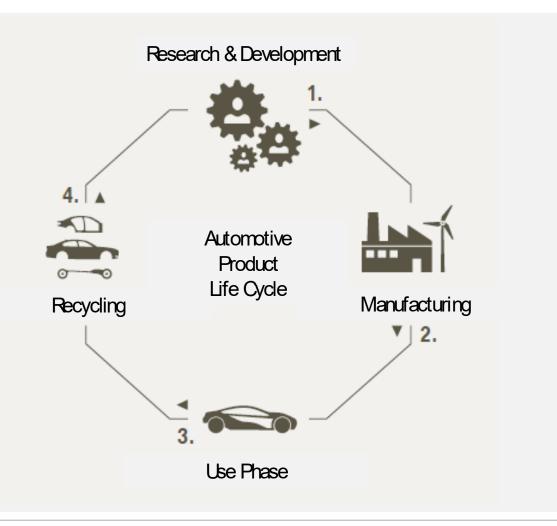
Waste and Recycling Management BMW

Group

GLOBAL TRENDS DRIVING THE FUTURE OF SUSTAINABLE MOBILITY.



OVERVIEW



Sustainable Mobility

Plant Spartanburg

Life Cycle Assessment

Waste and Recycling Management BMW

Group

From the beginning to the Present







1.2 MILLION SQUARE FEET

600 JOBS ONSITE



FIRST BMW PRODUCED IN NORTH AMERICA (BMW 318i)



7 MILLION SQUARE FEET



11,000 JOBS ONSITE



1400 VEHICLES/DAY

WE ARE THE LEADING MANUFACTURER OF PREMIUM AUTOMOBILES. BUILDING QUALITY FOR THE WORLD.



RESOURCE EFFICIENCY. THE BMW GROUP'S CLEAN PRODUCTION PHILOSOPHY.

Certified Environmental Management Systems (ISO 14001/EMAS) at all Sites Worldwide

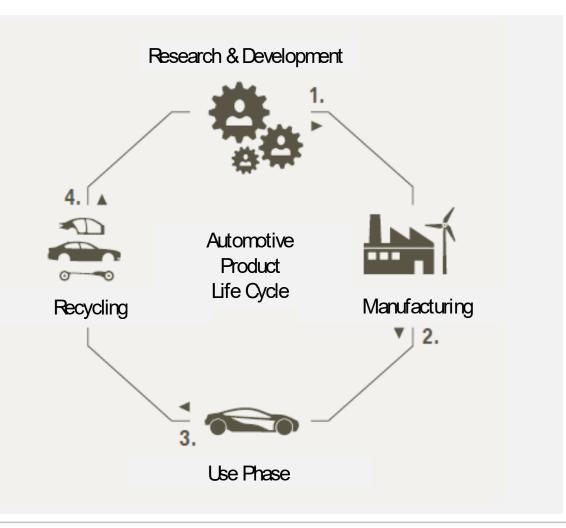


Targeted management of environmental performance:

-Target: 45% reduction in emissions/resource usage from 2006-2020

• Average improvement in resource efficiency 2006 - 2019: 41%

OVERVIEW



Sustainable Mobility

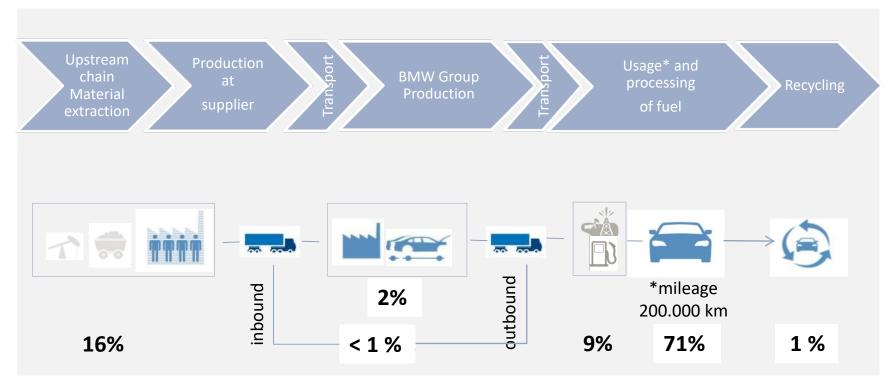
Production Network BMW Group

Life Cycle Assessment

Waste and Recycling Management BMW

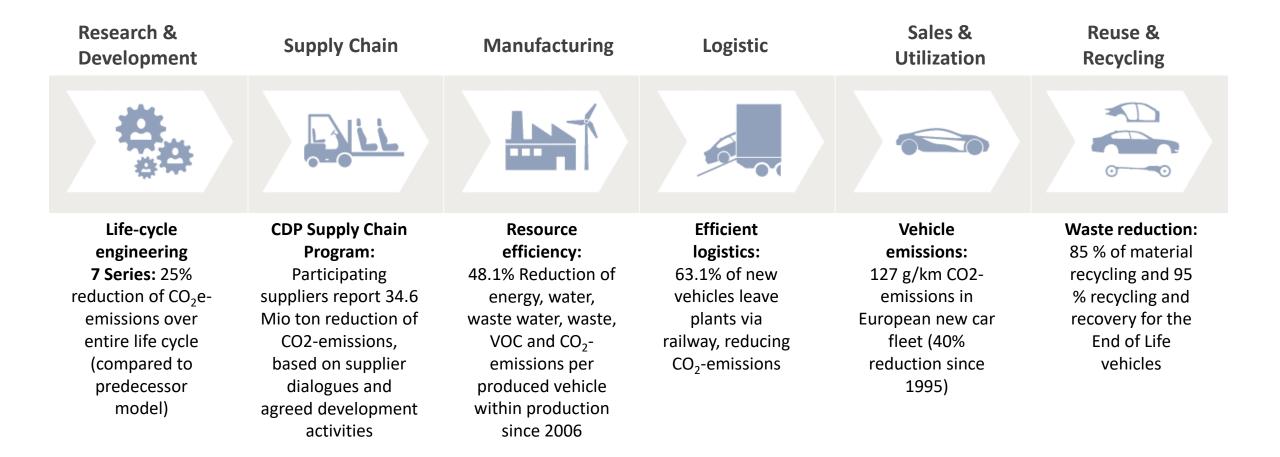
Group

BMW GROUP LIFE CYCLE ASSESSMENT

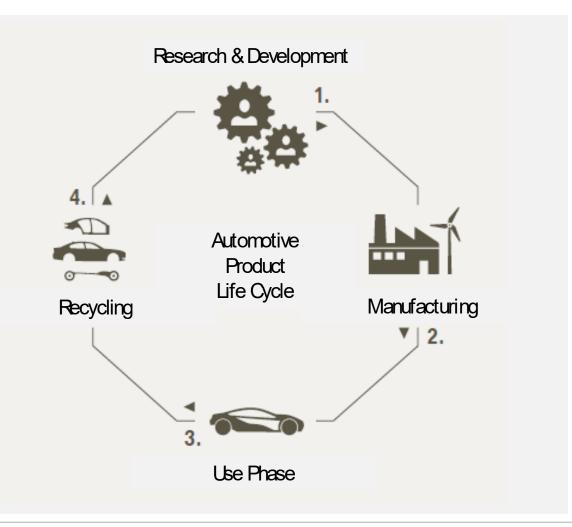


Example Global warming potential (CO₂-equivalent) BMW 3 series

BMW GROUP SUSTAINABILITY ACROSS THE VALUE CHAIN.



OVERVIEW.



Sustainable Mobility

Production Network BMW Group

Life Cycle Assessment

Waste and Recycling: Plant Spartanburg

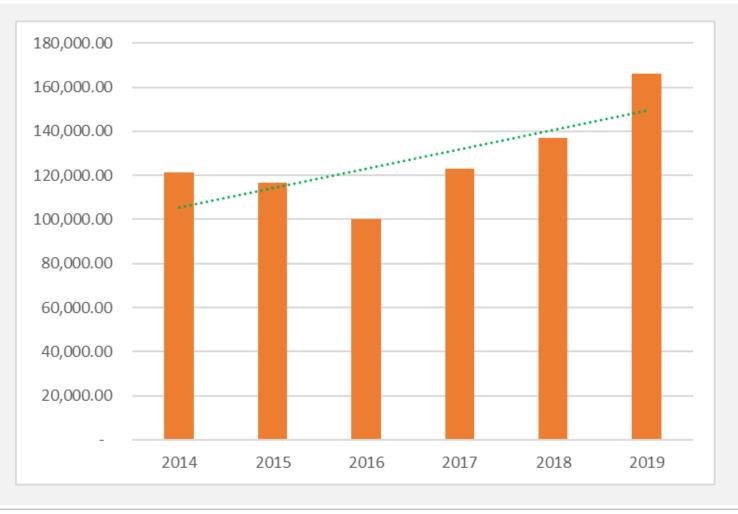
PLANT SPARTANBURG RECYCLING TREND







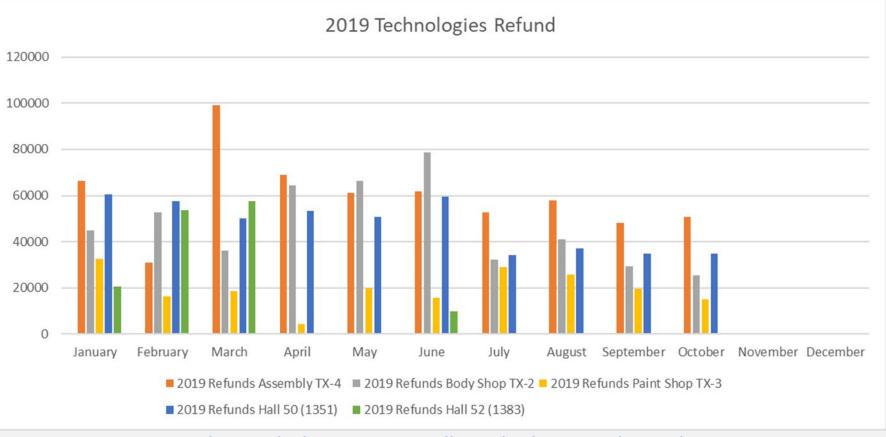




Recycling measured in Metric tons for reporting to Munich

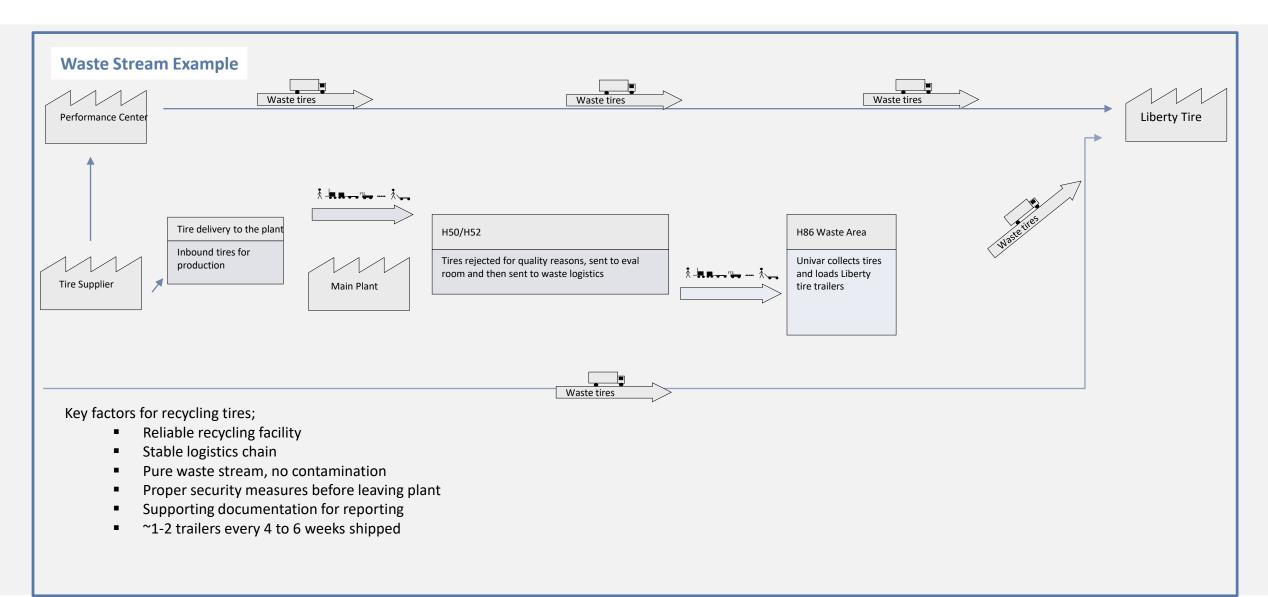
PLANT SPARTANBURG RECYCLING PAYS

<image>



Recycling includes, paper, cardboard, plastic and metal

PLANT SPARTANBURG TIRE RECYCLING



CURRENT USE OF RECYCLED MATERIAL; "CIRCULAR ECONOMY"



Advantages:

- Saving raw materials
- Lower Material Costs
- Meeting stakeholder as well as customer expectations
- Maintaining Environmental Sustainability goals

THANK YOU FOR YOUR ATTENTION

Wes Westbrooks Senior Waste Specialist BMW Manufacturing Co. LLC Plant Spartanburg December 4, 2019



