University of Muenster Consulting

Anna Theile, Max Noever, Erich Daniel, Simon Jeurissen



Autonomous Driving

The German Automotive Industry – Is it already too late?

What is Disruption for us?



"Disruption is the change of an industry, often due to highly innovative technology advancements, that leads to the need for adapting established business models and levels the market playing field."

Our Rationale – Why Automotive?



In today's world, mobility trends impact almost everyone's life!

The Automotive industry is one of most important industries in the world!

We're German!

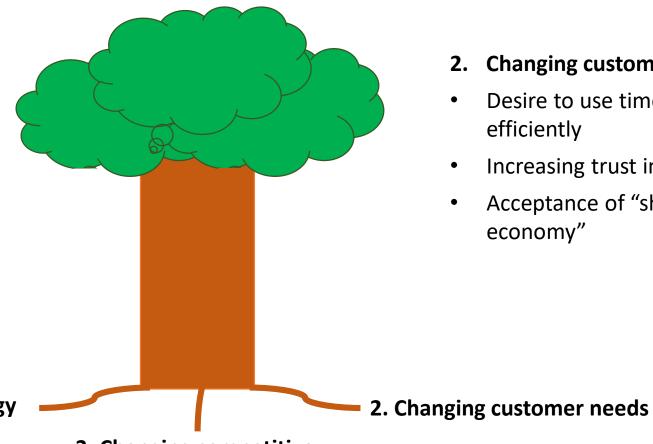
3

Root Causes – Why did the industry become disrupted?



Evolving technology

- Evolving of artificial intelligence
- Rise of the "Internet of Things" (IoT) and 5G



Changing customer needs

- Desire to use time more efficiently
- Increasing trust in technology
- Acceptance of "shared economy"

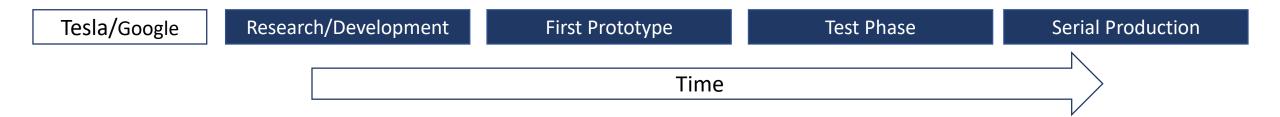
1. Evolving technology

3. Changing competitive landscape

- Inertia of dominant market players New market entrants

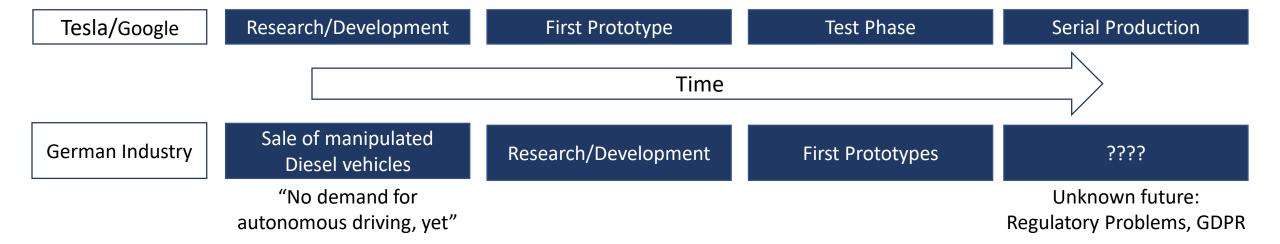
Analysis – Has the German Automotive Industry slept in?





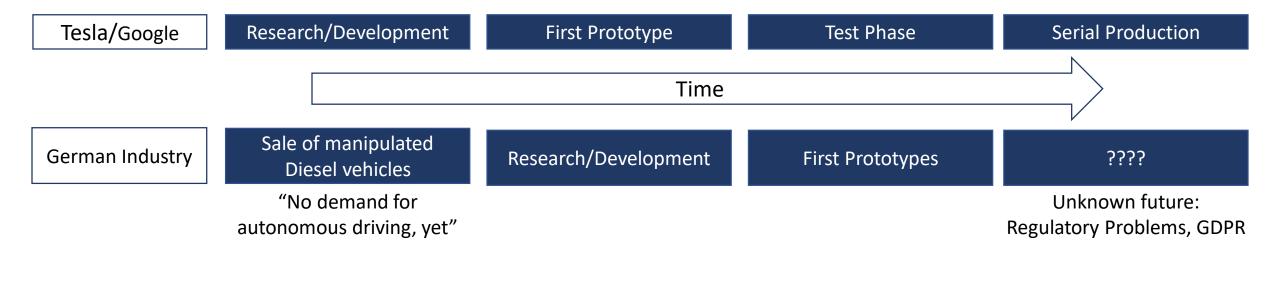
Analysis – Has the German Automotive Industry slept in?





Analysis – Has the German Automotive Industry slept in?





Regulatory Problems

GDPR

Non-compliance can results in fees of up to 4% of annual global revenue

Test phase under real conditions is politically prohibited

Data protection issues, legal responsibilities

Affects every EU-inhabitant

Alternatives – What Could Come Next?



What should have been done in the past?

What should be done now?

Collaborate

- Understand that software industry is too strong to compete with
- Convince software industry that German cars are technically still state of the art
- Software can only evolve if hardware gets better
- Collaborate with software industry
- Concentrate on development of hardware
- Use own infrastructure for serial production in cooperation with software industry
- Get rid of GDPR and/or ethnical problems

Compete

- Identify and understand your competitors
- Acknowledge your competitor's abilities
- Design and develop autonomously driving car for serial production
- Test prototype within real world conditions
- Develop massive IT-Department
- Negotiate about political support (tax reductions for customers)

Alternatives – What Could Come Next?



What should have been done in the past?

What should be done now?

Collaborate

- Understand that software industry is too strong to compete with
- Convince software industry that German cars are technically still state of the art
- Software can only evolve if hardware gets better
- Collaborate with software industry
- Concentrate on development of hardware
- Use own infrastructure for serial production in cooperation with software industry
- Get rid of GDPR and/or ethnical problems

Compete

- Identify and understand your competitors
- Acknowledge your competitor's abilities
- Design and develop autonomously driving car for serial production
- Test prototype within real world conditions
- Develop massive IT-Department
- Negotiate about political support (tax reductions for customers)



Autonomous Driving

The German Automotive Industry – Is it already too late?

Thank you