





Digitization of manufacturing technologies for production of the future

Dr. Martin Goede, Volkswagen AG

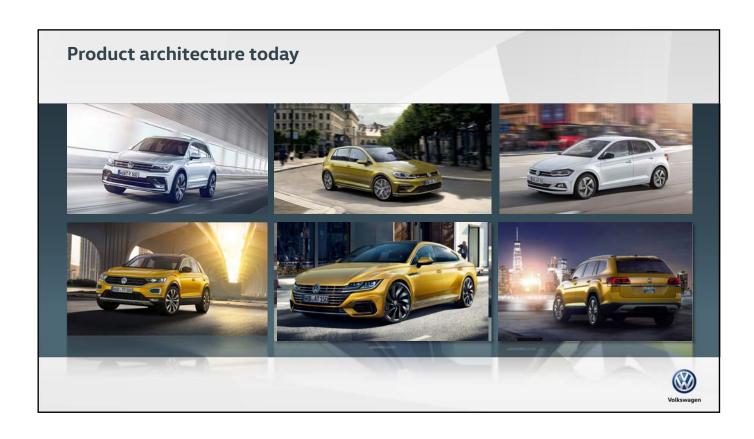
Digitalisierung in der Produktion, 07. Dezember 2017, Wolfsburg



Challenges for vehicle manufacturing of the future Complexity increase of competition-relevant requirements Model variety and Demand of innovations Environmental awareness Complexity of partner and drive variants through new competitors and sustainability Complex and fast-paced Big data as business model Intelligent equipment Generation change and software landscape and data security and production services customer needs JUNG, MOTIVIERT, DIGITAL, SCHNELL, INDIVIDUALISTISCH LEISTUNGSFÄHIG

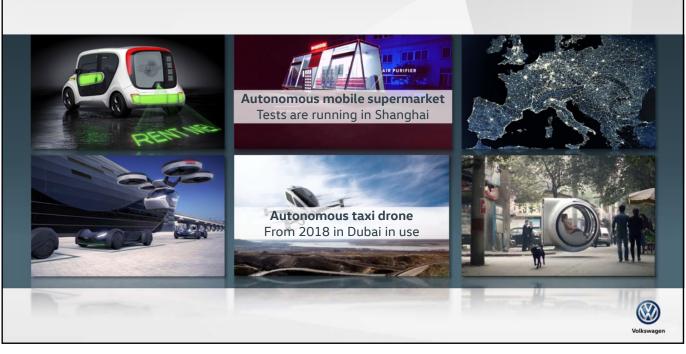


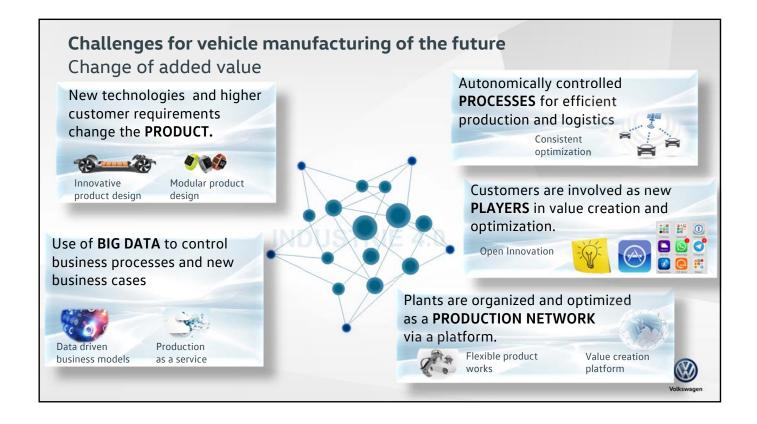


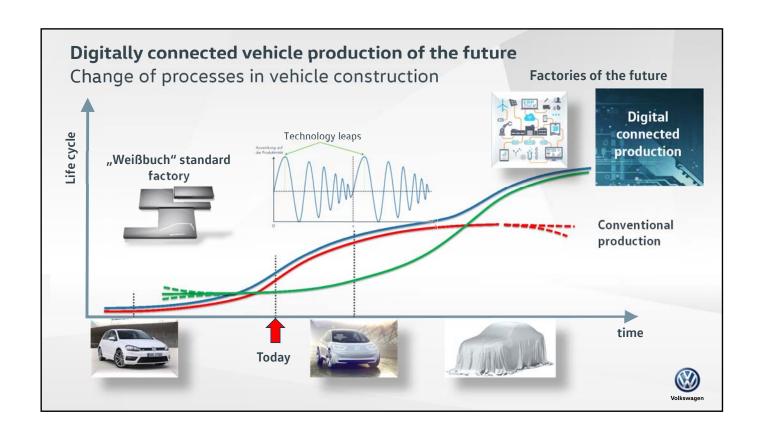


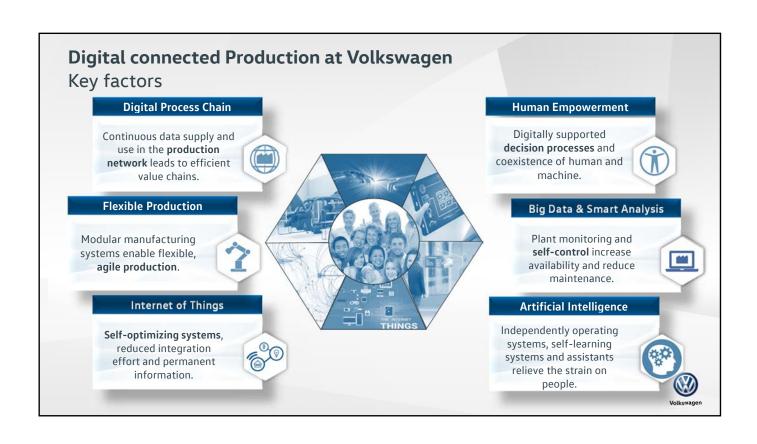


Product architecture of the future – next generation

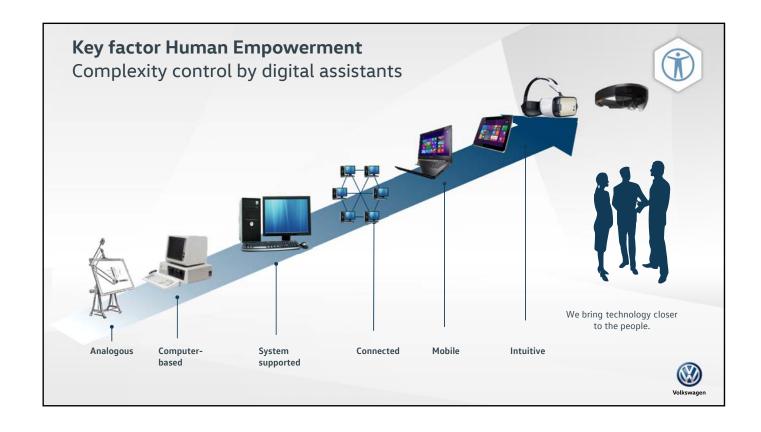


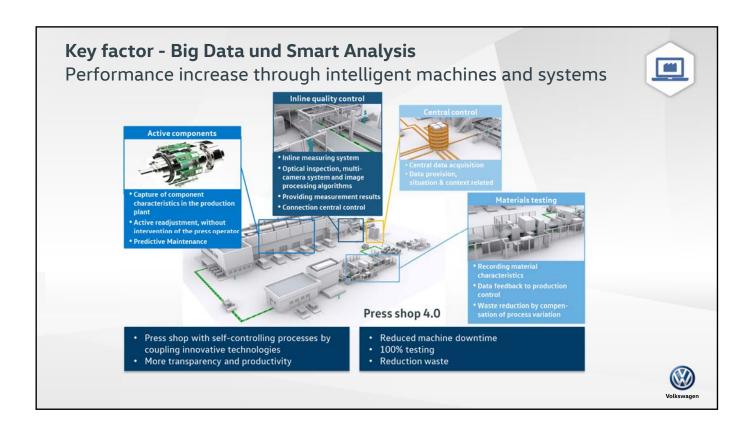




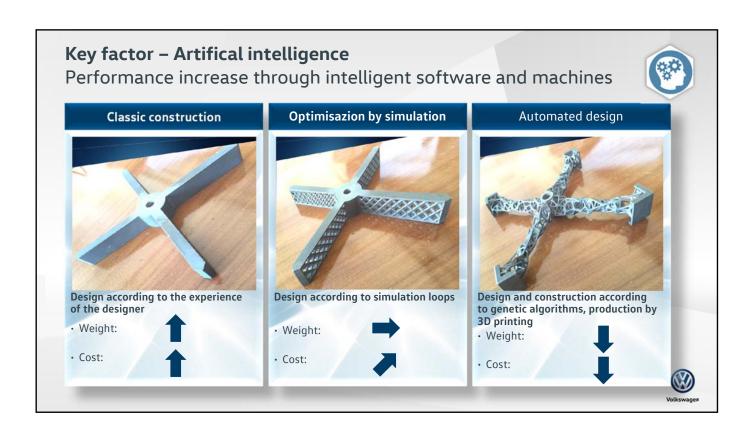


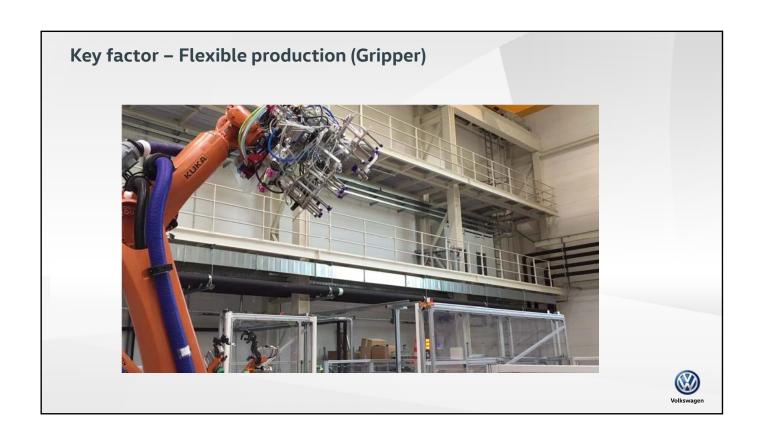












Concept "moving screwing module" for flow operation (VW Tiguan) - Volkwagen Osnabrück





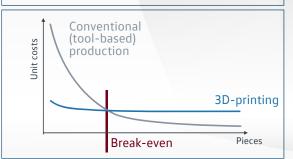
Potentials of new production technologies

Generative production of tools and components

- 1 Extended design freedom
- Advanced design options
- Functionalization



- 2 Individualisation and variant variety
- Individualization
- Complexity

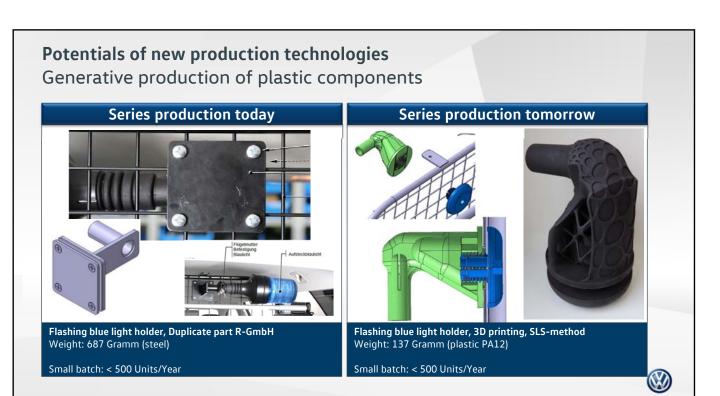


3 Accelerated development cycles / Time-to-market

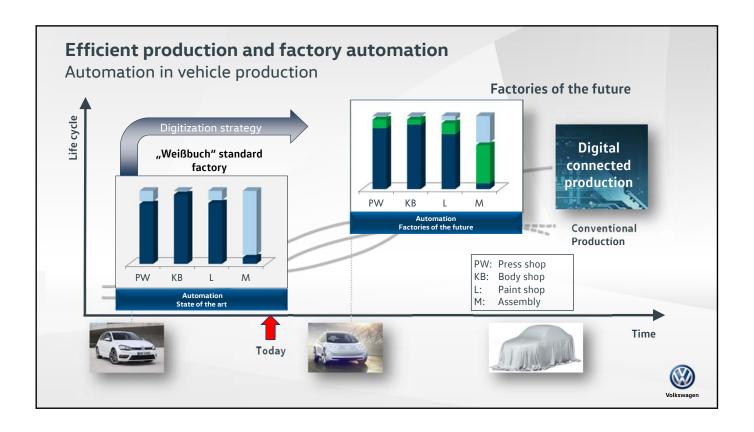


There are high potentials for the automotive industry









Efficient volume production technologies in factories of the future Conclusions



- Intensive transformation of products
- Significant Technology push
- > Increase of Complexity



- > Improving economic and ecologic efficiency
- > Digitalization of entire Process Chain



- > New Dimension of Innovation implementation
- New Dimension of Collaboration networks



Digitization of manufacturing technologies for production of the future

Thanks for your attention!

Dr. Martin Goede, Volkswagen AG

Medienworkshop Digitalisierung in der Produktion, 07. Dezember 2017, Wolfsburg

