# MOBLI



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# Introduction Götz G. Wehberg

#### Currently

- Partner at Infosys and Leader Supply Chain
- 20+ years experience in Consulting
- Founder of <u>DSI</u> Think Tank
- Acknowledged expert in digital transformation >>

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#### Previously

- EVP at Capgemini Global leader
- Senior Partner at Deloitte SCM Leader
- Principal at Kearney Supply Chain expert

#### Personal

- PhD in Supply Chain Management
- Married 20 years with two sons
- Lives in Bonn / Germany



## For OEM's Spare Part Logistics, 3+ Angles Make a Difference

#### **Angles of Business Model Evolution**





# Digital Natives Like "Dawn Digital" Behave Differently



## Basic Consumer Needs and Dawn Digital's Behaviour

Eat: She's always shopping, however, she's never in line Care: She's never been to a doctor, but she visits her doctor every week Dress: Her T-shirt is connected to the web Move: She doesn't know how to drive, however, she's driving all the time Live: She's never ever been "lost," and her tattoo unlocks her door Create: Her superior is a robot Talk: She never logs on, but she is indeed always online

## Current automotive players are being challenged...

End-consumers' Needs and Market Landscape





#### ...and develop to mobility service providers and B2B2C... Future Business Models





#### ...which will integrate other end-consumer spheres, prospectively Future Business Models





#### Supply chains must evolve towards digital and resilient Stages of Supply Chain Maturity



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### **OEM's SC operating model must anticipate the future**

Example: Supply Chain Planning of the Future

#### **Scope of Planning**

- Demand Planning
- Supply Planning
- Network Optimization
- Production Planning & Scheduling
- Procurement Planning
- Transport Planning
- Finance Planning

#### **Today's Design Principles**

- Organization: SCOR oriented, central steering, network-optimized
- Offering: Product centric
- Sourcing: Integrated, asset / OEE
  driven
- Processes: Standardized/stable, cost efficient, S&OP, tracking & tracing (geo), CO2 footprint
- Talent: Engineering focused
- IT: Lights-off, algorithms, centralized data

#### **Future Requirements**

- Cross-functional, self-organized (>>) / democratic, continuously optimizing (>>)
- Service focused (aaS)
- Eco-system, asset light
- Individualized / make-to-order, value / risk oriented, dynamic forecasting, digital twin of everything (>>), SDG
- Diversity of people & talent
- Self-driving, machine learning, shared data

### Self-organization asks for new design principles

Self-organization Key Principles





#### ...of nature Recursion

#### Autonomy

Redundancy

Self-reference

#### ... of supply chains

- Consistency of Steering
- Modular Across Hierarchy
- Standardization Across Sites
- End-to-end Responsibility
- >95% Online
- Enforced Alignment
- No Management Intervention
- Real-time Transparency
- Sharing
  - One Data Lake
  - Dynamic Forecasting
  - Continuous Improvement
  - Machine learning

# Spare parts become smarter and 3-D printed along with SERVICE-ORIENTED MODELS



#### Smart & Green Spare Parts

- Connected spare parts based on IoT technology
- Remote analyses of asset history support predictive maintenance

#### 3D

- Spare part production through 3D printing at scale
- Local production sites decrease distribution cost and reduce cycle times

#### Service-oriented Model

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- Selling uptime or other services instead of parts
- Pricing upsides for focusing on customer value and resultsoriented service levels

## Any aftersales platform needs to be future-read and meet on-top requirements

On-top Requirements for Aftersales



- B2B2C and Democracy ready for the long-tail
- **Double-sided Platform** leveraging services
- Multi-channel eCommerce type of
- Eco-partnered e.g. last mile via city logistics partners
- Make-to-order as Mainstream individualized offers
- End-to-end visibility beyond geography
- **Predictive forecasting** of both demand and disruptions
- Continious optimization of network and beyond
- Self-organization as future design principle
- Second-degree Automation
- Green like net-zero
- Servitized from selling parts to selling uptime
- Cloud-based and Micro Services
- 3D-enabled
- Connected with Vehicles and Parts remote diagnostics

# Thank You

