



MOBILITY OF THE FUTURE

By **Götz Wehberg**
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Introduction

Götz G. Wehberg

Currently

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

Previously

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

Personal

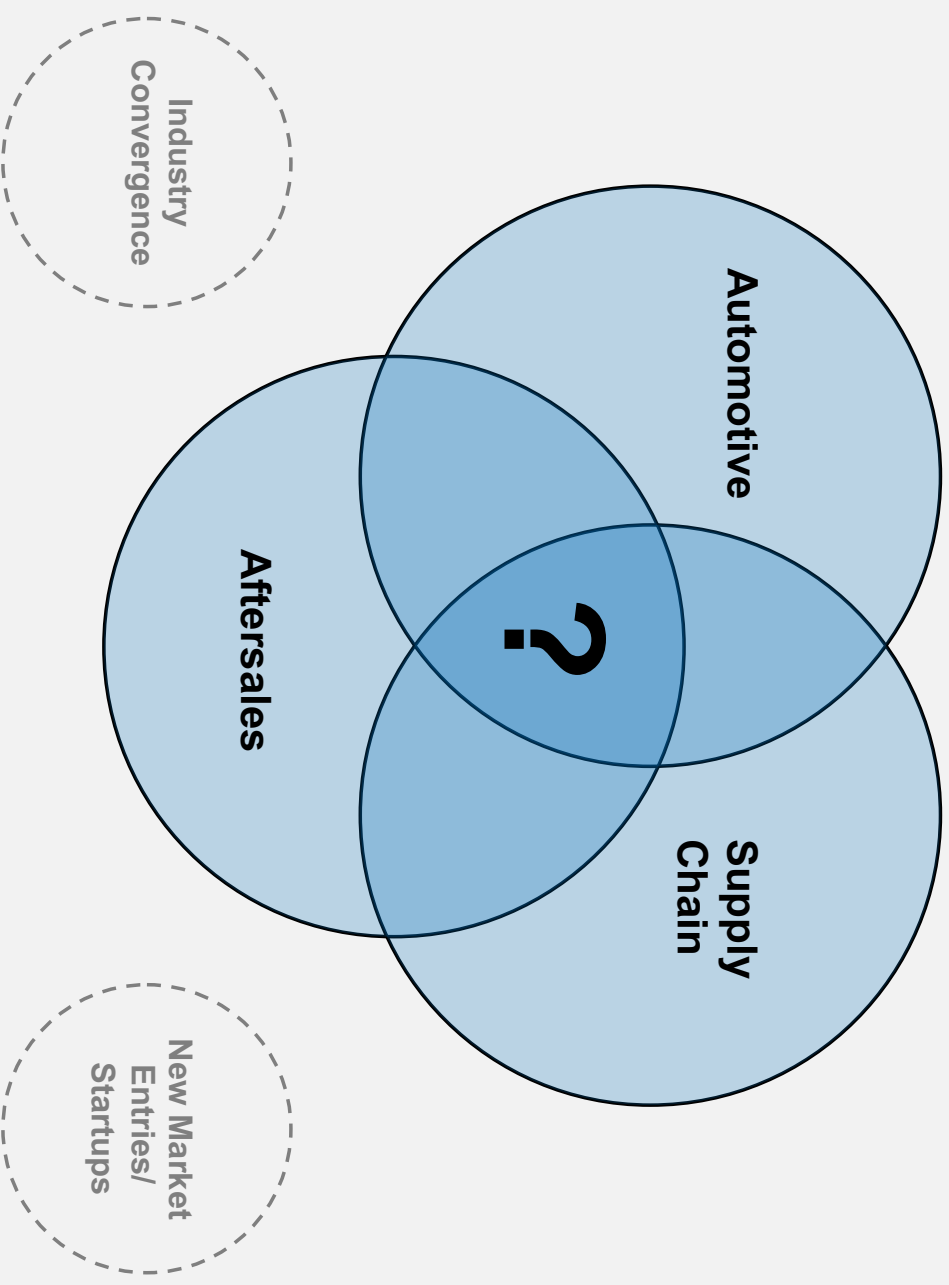
- PhD in Supply Chain Management
- Married 20 years with two sons
- Lives in Bonn / Germany

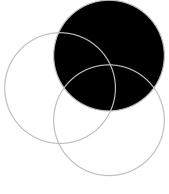
>> For more info



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

Angles of Business Model Evolution





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

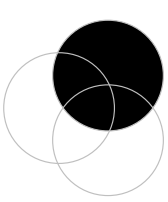
Move: She doesn't know how to drive, however, she's driving all the time

Live: She's never ever been "lost," and her tattoo unlocks her door

Create: Her superior is a robot

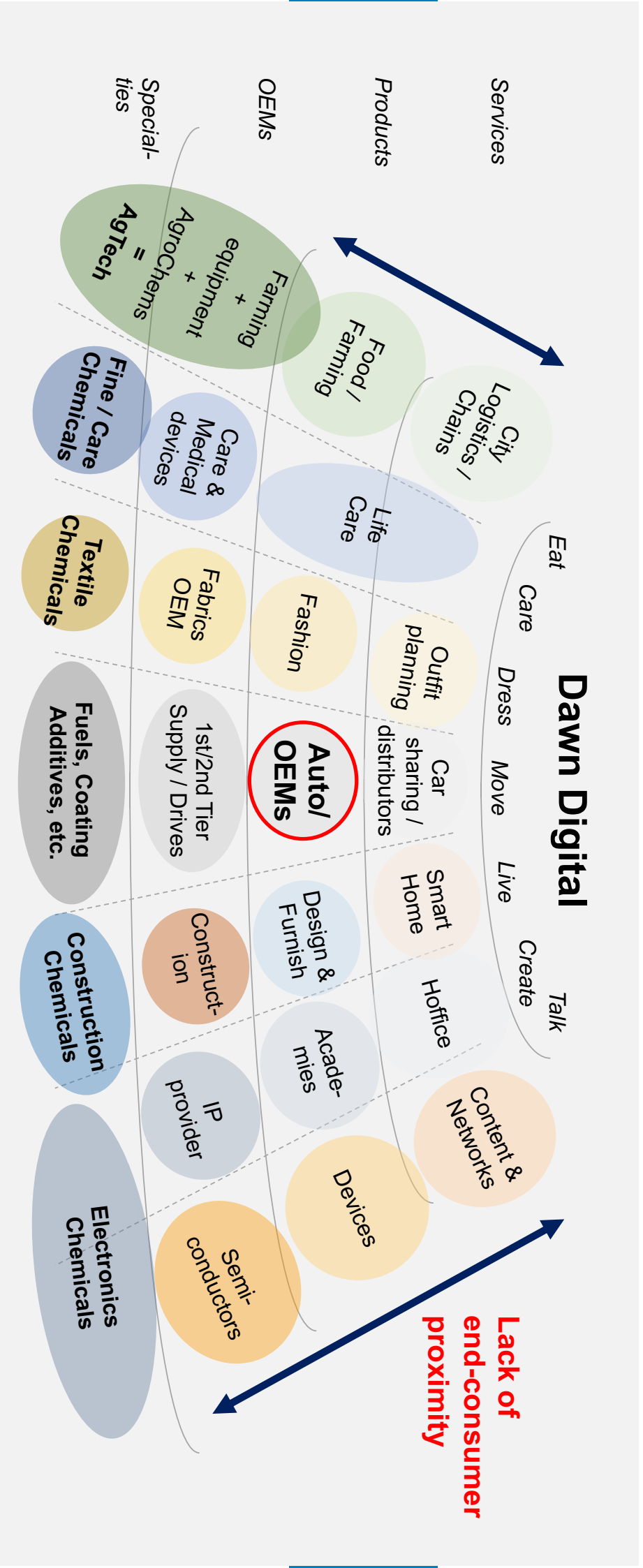
Talk: She never logs on, but she is indeed always online

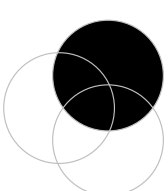
Digital Natives Like "Dawn Digital" Behave Differently



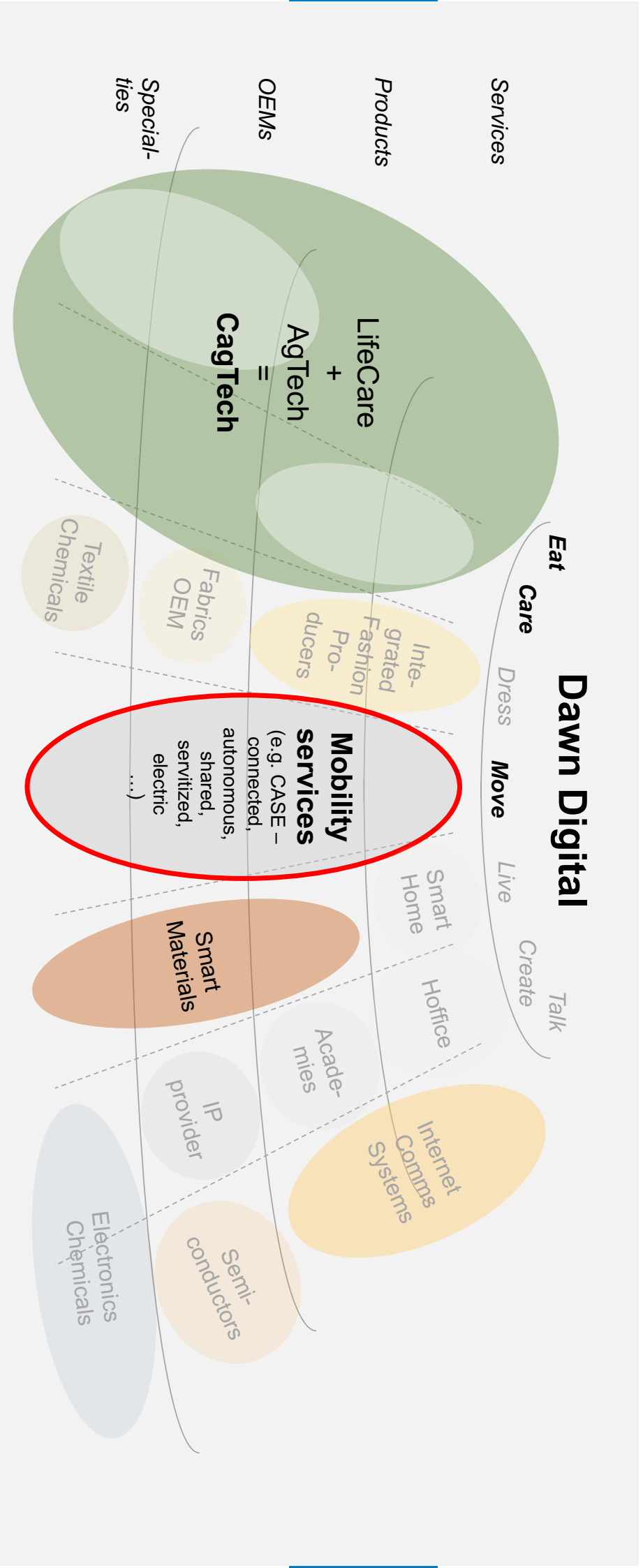
Current automotive players are being challenged...

End-consumers' Needs and Market Landscape



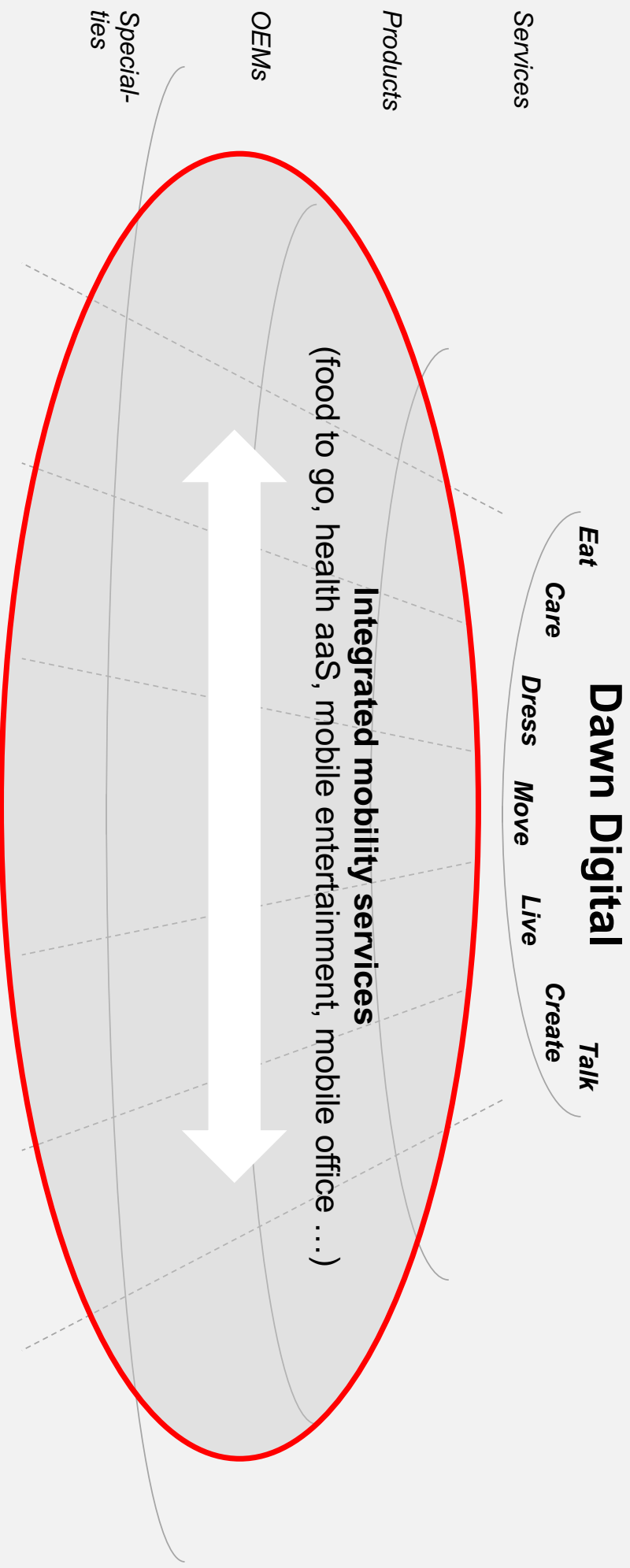
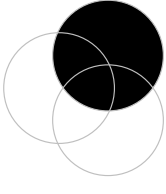


...and develop to mobility service providers and B2B2C... Future Business Models



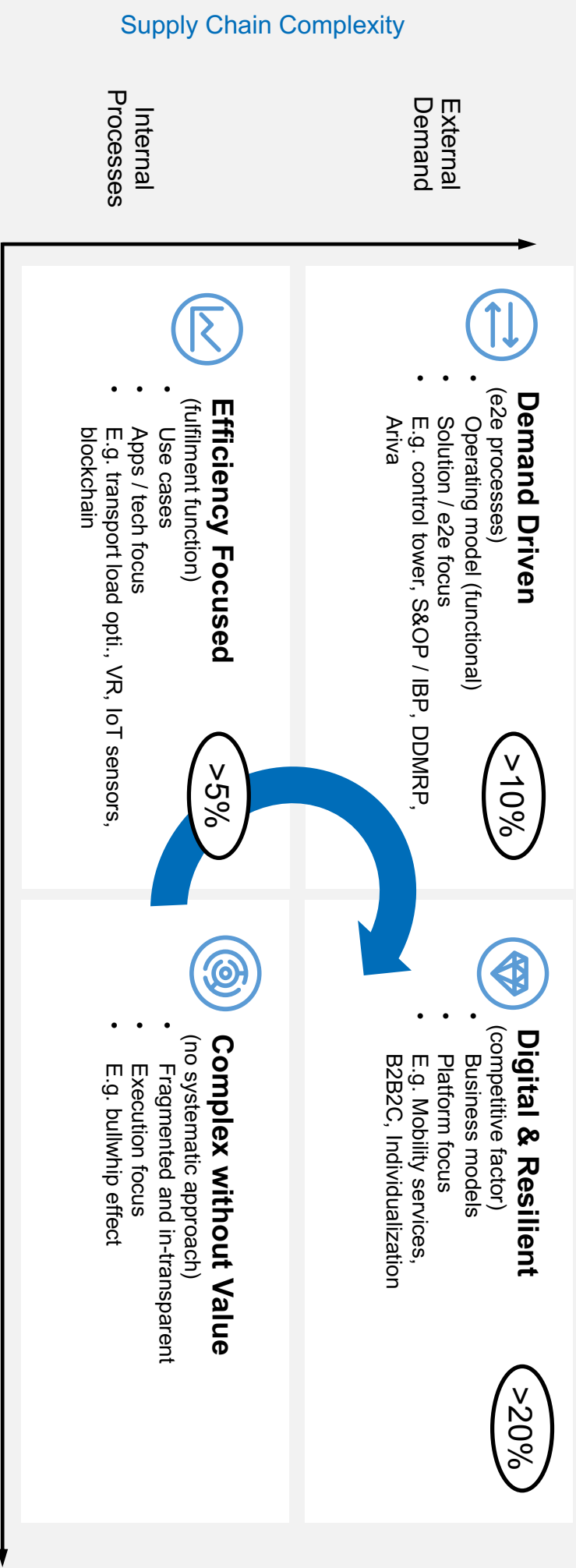
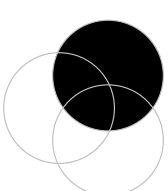
...which will integrate other end-consumer spheres, prospectively

Future Business Models



Supply chains must evolve towards digital and resilient

Stages of Supply Chain Maturity



Supply Chain Complexity

External Demand

Internal Processes

Standardization

Supply Chain Focus

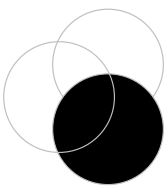
Differentiation



Ebitda upside

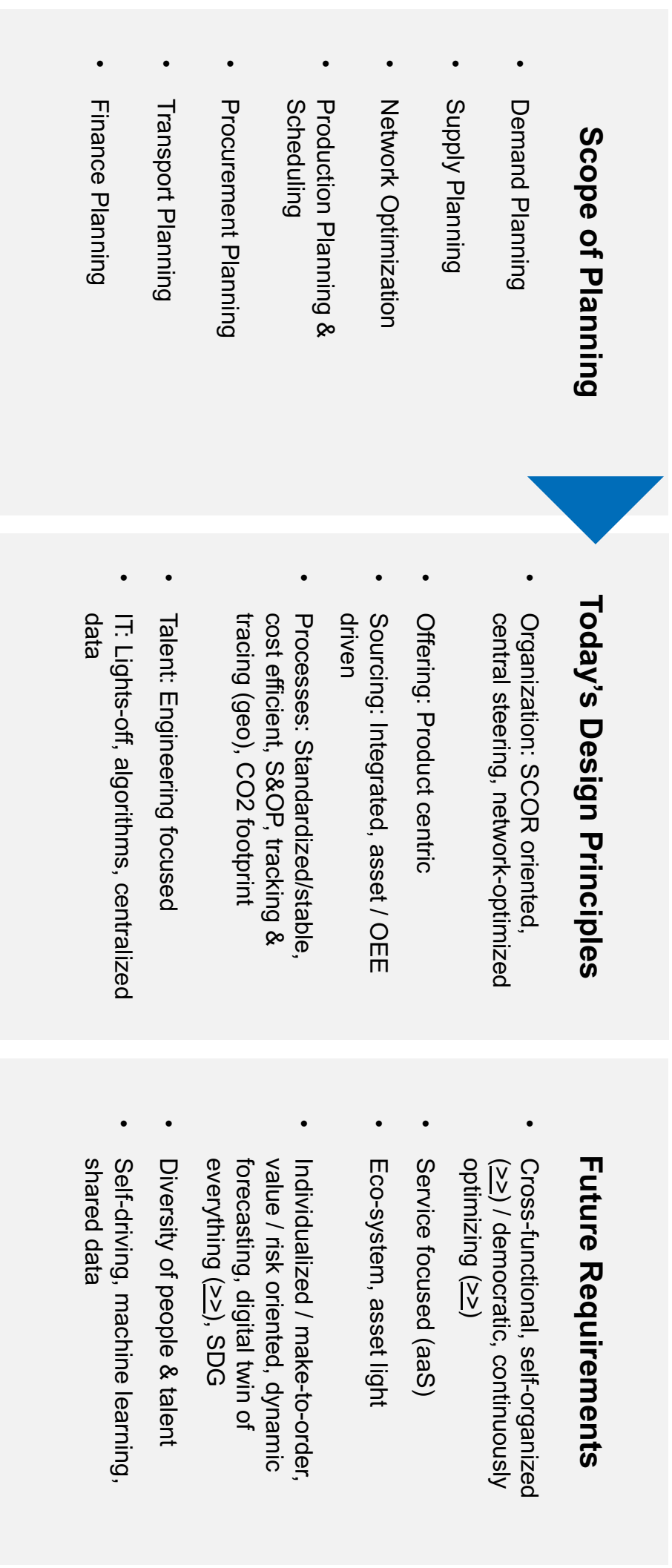


Evolution path



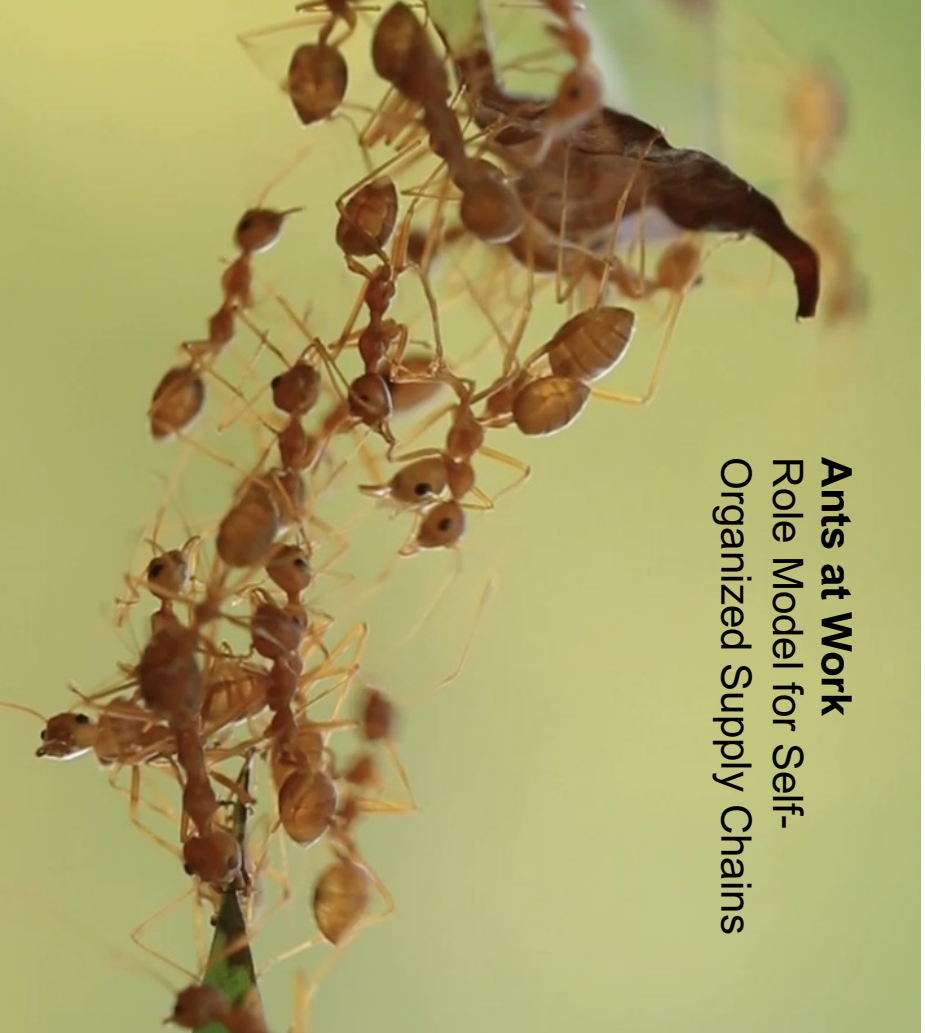
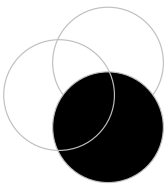
OEM's SC operating model must anticipate the future

Example: Supply Chain Planning of the Future



Self-organization asks for new design principles

Self-organization Key Principles



Ants at Work
Role Model for Self-Organized Supply Chains

...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

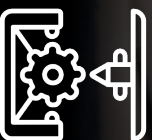
Spare parts become smarter and 3-D printed along with

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

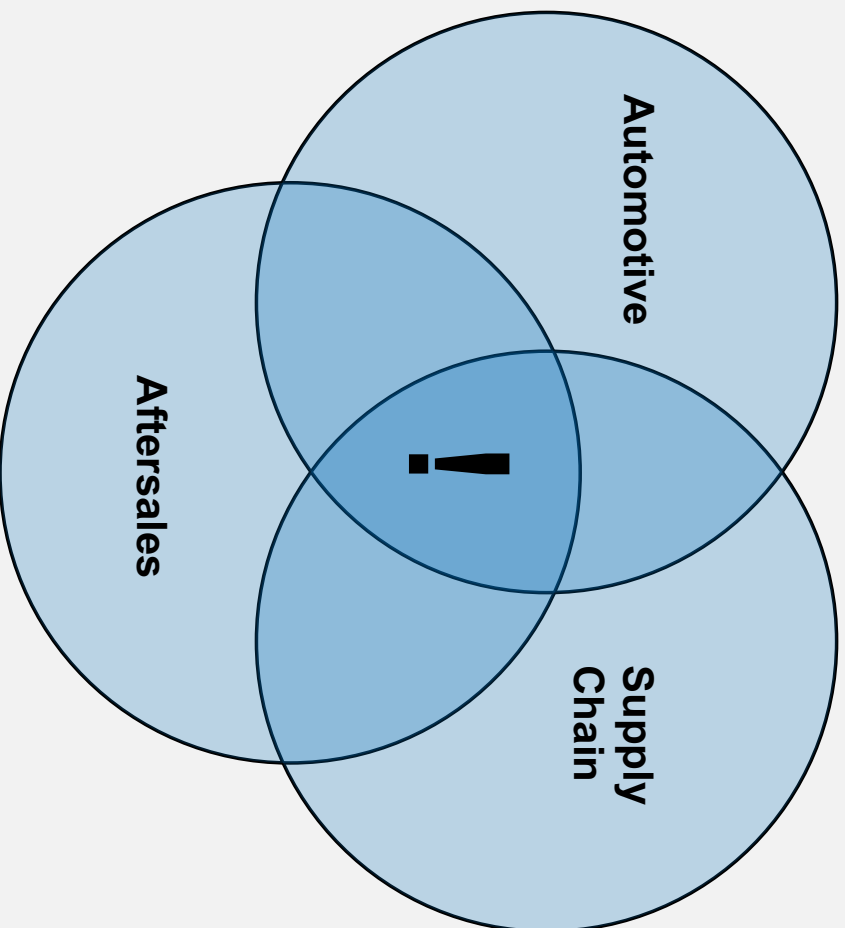


Service-oriented Model

- Selling uptime or other services instead of parts
- Pricing upsides for focusing on customer value and results-oriented 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**

