

Session 6

Future and development on the RoRo and transport market

Autonomous and digital development in the transport chain




Roman Poersch, 21.03.2018

Content

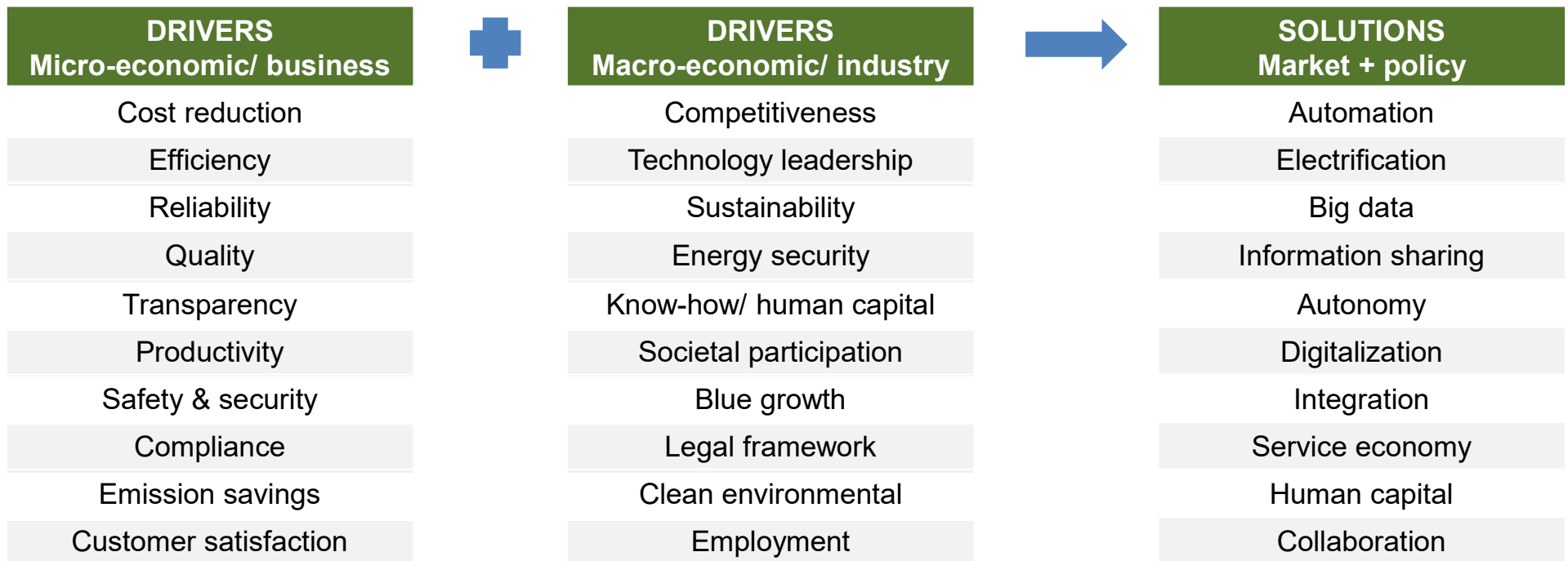
- **Company and topic introduction**
- **Holistic view on the transport chain with a focus on the maritime section**
 - Relevance of autonomy and digitalization
 - Research, Development and Innovation focus
 - Real-life applications for the maritime section
- **High-level SWOT appraisal**

Strategic transport and management consultancy

- Founded in **Hamburg** in **mid-1930s**, restructured in **early 2010**.
- **Independent** private **SME**, operated by managing partners.

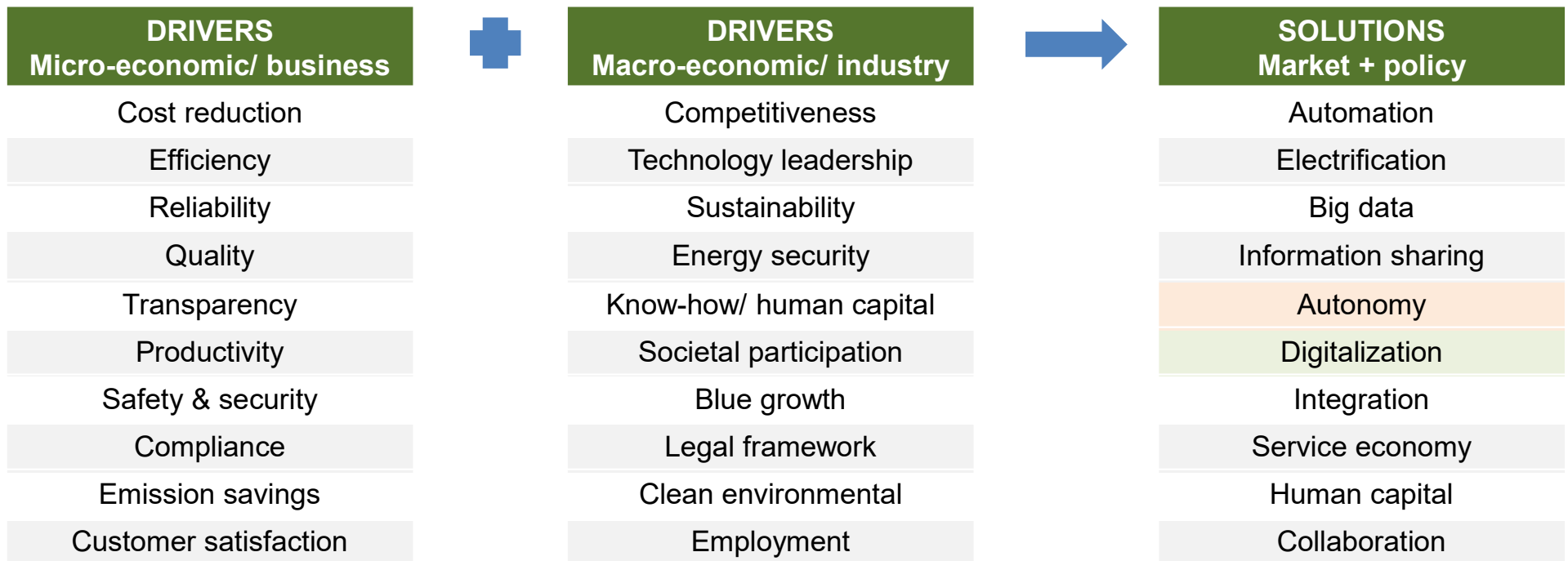
	Consultancy	Management	Logistics
Company			
Services	<ul style="list-style-type: none"> – Analyses and studies – Strategy and planning – Finance and funding – Due diligence 	<ul style="list-style-type: none"> – Development – Re-structuring – Management – Financing 	<ul style="list-style-type: none"> – Supply chain management – Freight forwarding – Transport services – Documentation
Clientele	Shipping and ports, transport infrastructure managers, forwarding companies, financing and governmental bodies		
Markets	RoRo/ RoPax, automobile, (petro-) chemistry, liquid bulk, tank container		
	Alternative fuels (incl. LN/BG, CN/BG, electricity), innovation support		

Drivers and Solutions



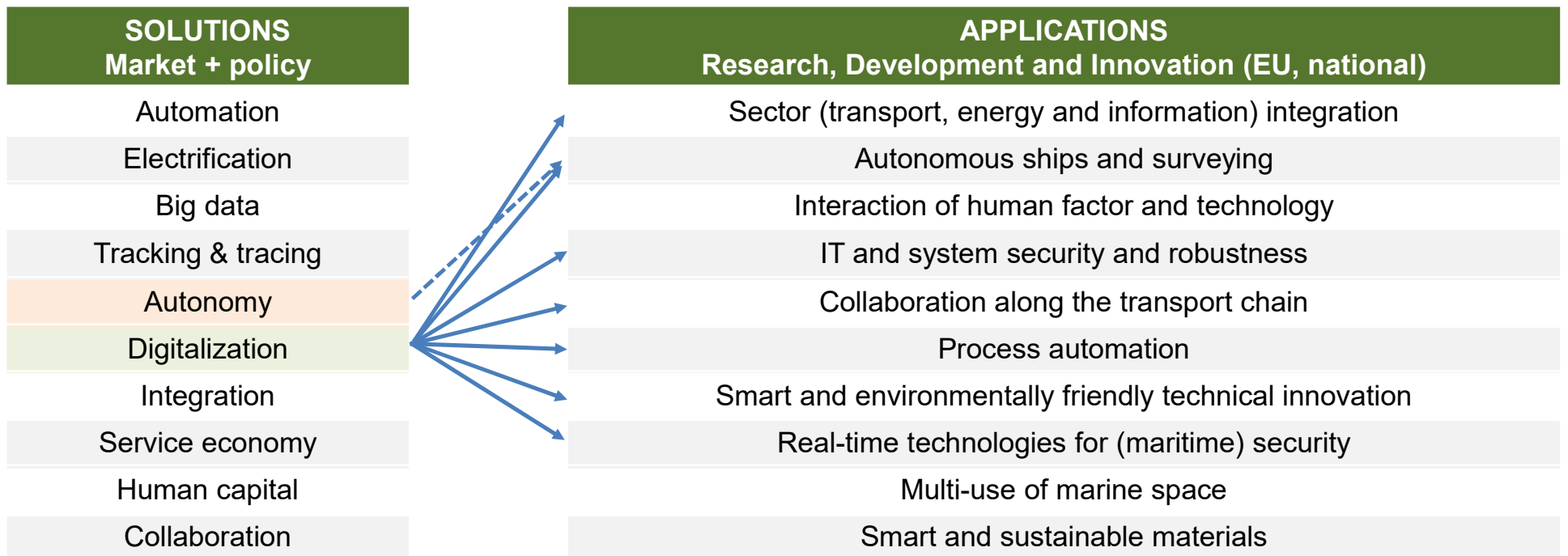
Sources: Own survey amongst selected market actors of international freight transport chains

Drivers and Solutions



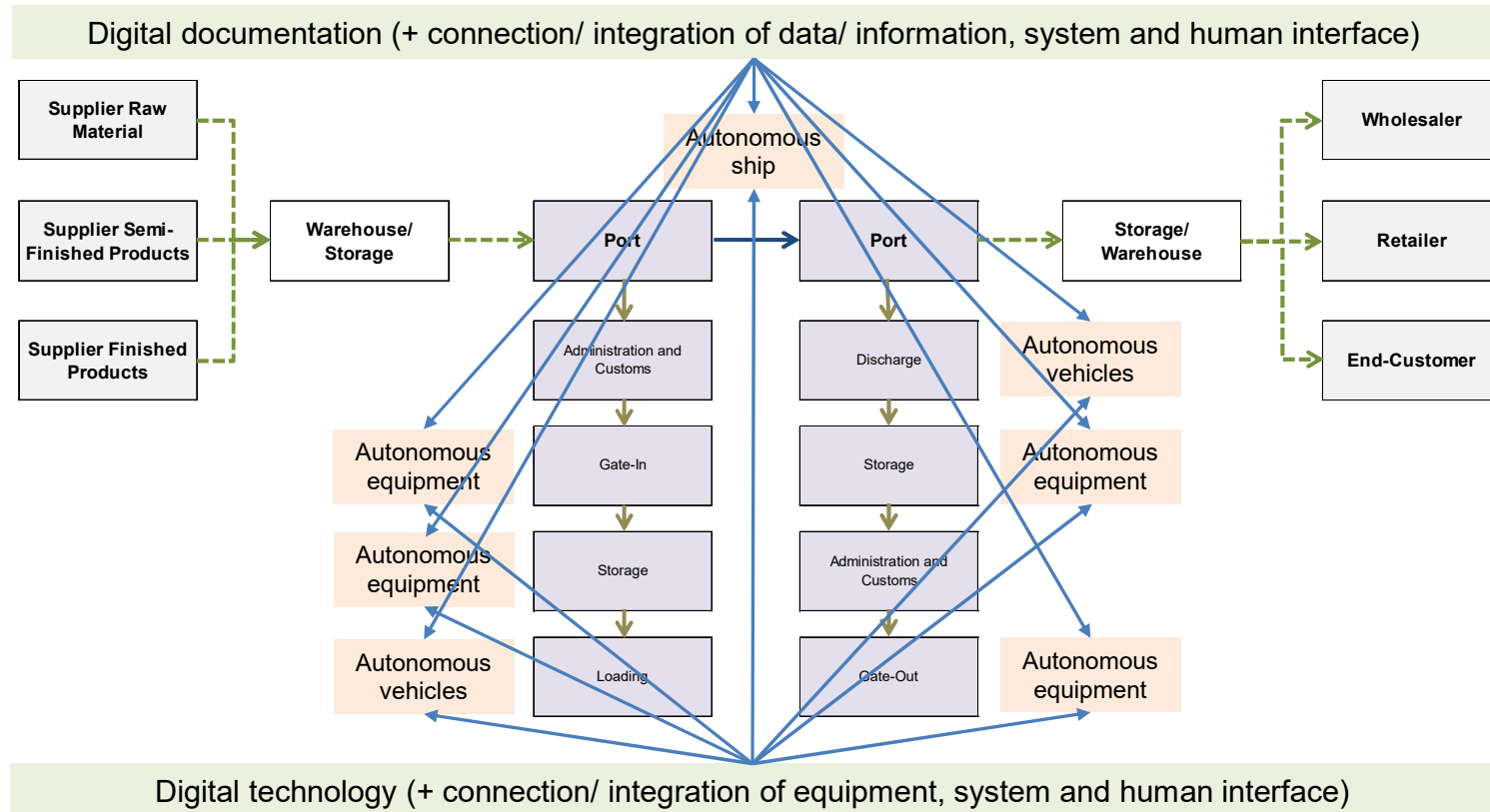
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Reflection of Autonomy and Digitalization in R&D

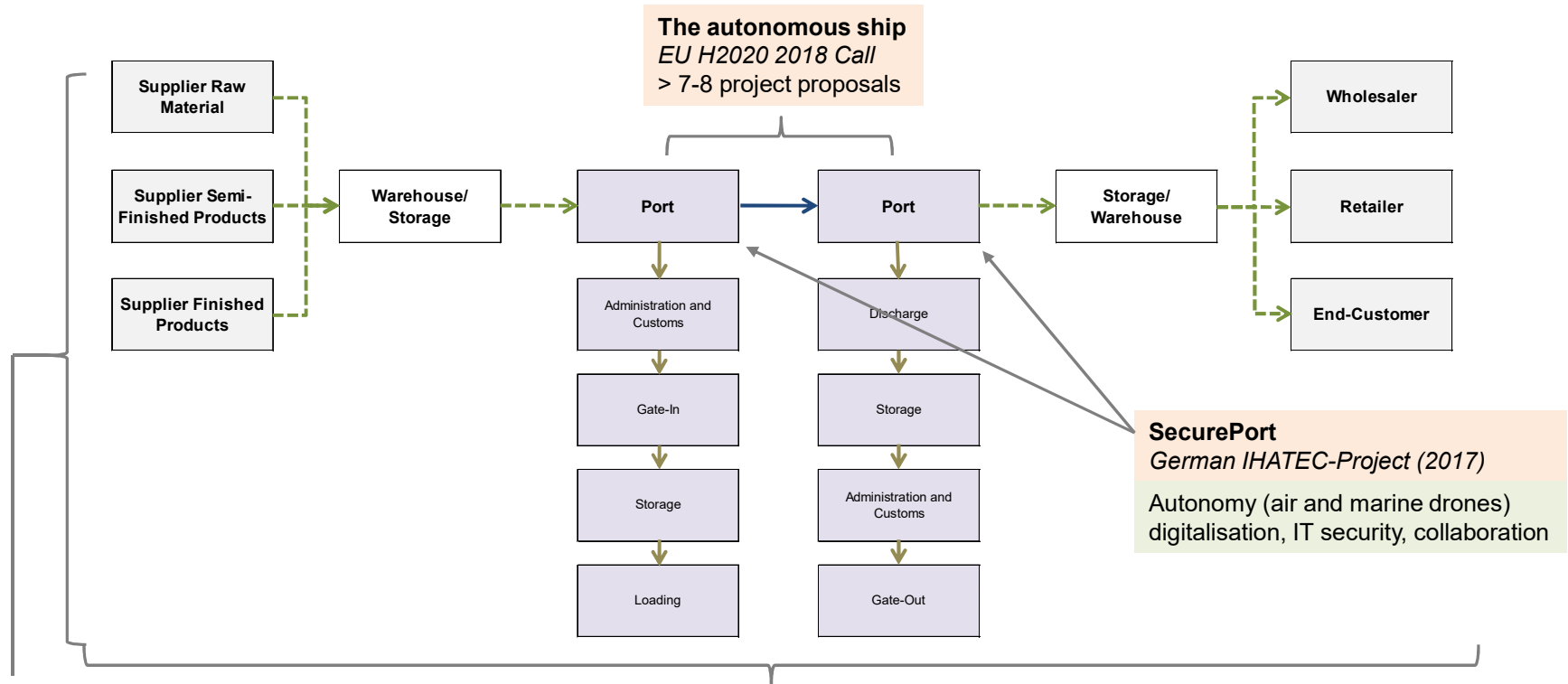


Sources: Own survey of EU and national (German) R&D&I programmes

Application of Autonomy and Digitalization in freight transport chain



Projects of Autonomy and Digitalization in freight transport chain



Cluster 2.0 EU H2020 2016 Project

Based on collaboration, digitalisation and sustainability based → Data sharing platform + cluster communication system → Optimized capacity, zero externalities

SWOT of Autonomy and Digitalization in maritime transport

STRENGTHS

Direct effects and contribution to business objectives
Strong political support and societal interest
Many technical components available (high TRL)

OPPORTUNITIES

High potential for technical and economic development
Prioritized subject of public support (finance)
Effective measures to face multiple challenges

WEAKNESSES

Dependency on secure external systems
Need of stable, powerful IT and data networks globally
Insufficient management capacities and awareness

THREATS

Potential subject to cyber risks and attacks
Unclear playing fields (technology faster than legislation)
Complexity overruns human factor abilities

Contact

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