

6<sup>th</sup> Edition Global Rail Freight Conference MODAL INTEGRATION AT THE SERVICE OF GLOBAL DISTRIBUTION

26-28 June 2018, Genoa, Italy

### The revolution in logistics

### Genoa, 27 June 2018

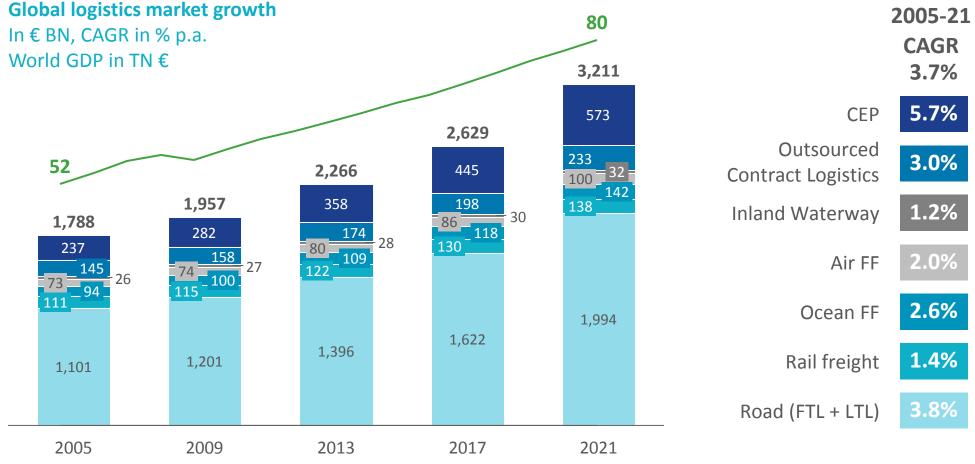
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# Logistics is a growing market highly related to global GDP, globalization and trade exchanges



Note: Not included are inhouse contract logistics, other transports like project logistics and non-containerized sea freight (bulk). FF includes the forwarder and the carrier controlled parts.

Sources: Transport Intelligence (2017), Armstrong & Associates, Inc. (2017), Oxford Economics GDP data, Oliver Wyman analysis



The logistics industry will experience rapid change over the next years – digitalization is a major challenge and opportunity alike

#### Trends



Near-shoring, automation and new technologies trigger a shift between transport modes primarily in favour of Land Transport



Customers and regulators increasingly require industry/customer-tailored end-to-end logistics service offerings



Asia is the #1 growth driver, accounting for >60% of total growth through 2020; Africa and Middle East provide selected opportunities for market growth plays



"Parcelization" of transport flows impacts the whole Transport & Logistics value chain and triggers disintermediation of existing value chains



By 2030, 85% of all logistics businesses will be hybrid- or fully digital; new models, e.g. E-Forwarding, Autonomous Fleet Mgmt., Virtual Warehousing arise



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New entrants and former suppliers or clients carve out lucrative elements of the logistics value chain by exploiting digital technologies

Incumbents (e.g. DHL, K+N) face competition from "Fast Movers" (e.g. XPO, DSV, CJ) that use M&A to boost their organic growth plans

Continued consolidation in carrier industries (Ocean, Land, Air) through alliances and mergers result in tighter capacity management on the side of carriers

#### **Implications for incumbents**

**Review Business unit/target industry mix** 

**Develop integrated logistics service offering** 

Align regional portfolio with growth markets

Align operations to smaller lot sizes and ensure "last mile" competency

Digitalize core business and participate in new models

Develop "Coopetition" strategies with new players

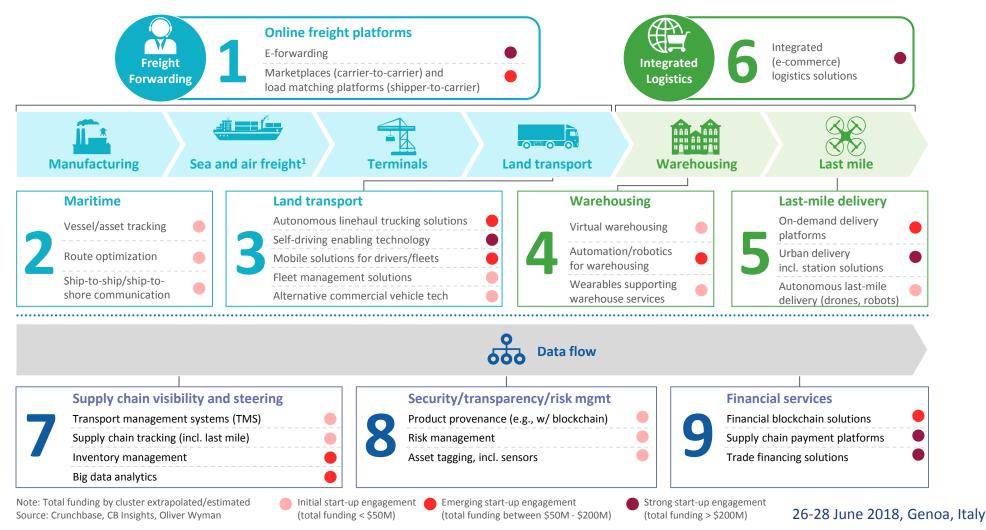
Review positioning in industry consolidation play

**Develop capacity management competencies** 



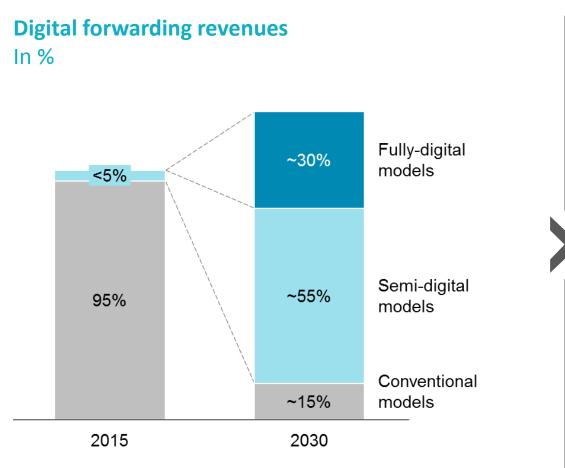


### Digitalization in the transportation industry is impacting the entire value chain





Conventional forwarding business models will be widely replaced by digital and hybrid business models until 2030, thereby (re-)defining success factors

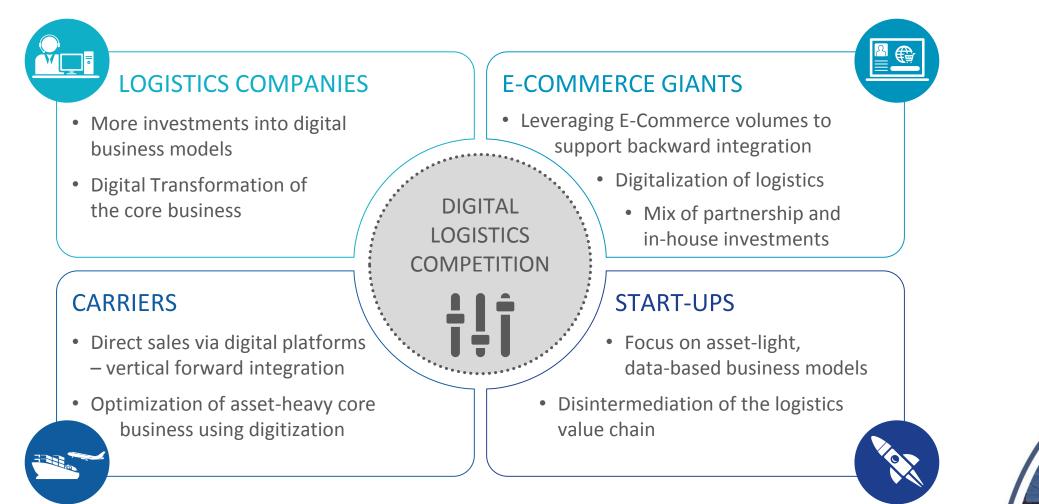


#### Comments

- Requires new analytical/digital capabilities, e.g.
  - Forecasting/dynamic adjustment of operations
  - Value-add services, e.g. in tracking and tracing, fleet mgmt., SCM benchmarking, etc.
  - Complete client ERP/TMS system integration
- New factors become critical for market competitiveness, incl.
  - Customer Journey understanding
  - Speed and scalability
  - Short release cycles for new applications
- Solution competency for complex transport services remains a core competency



Digitalization is significantly changing and shaping the logistics competitive landscape requiring established and new players to adapt their businesses



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Sources: Oliver Wymar



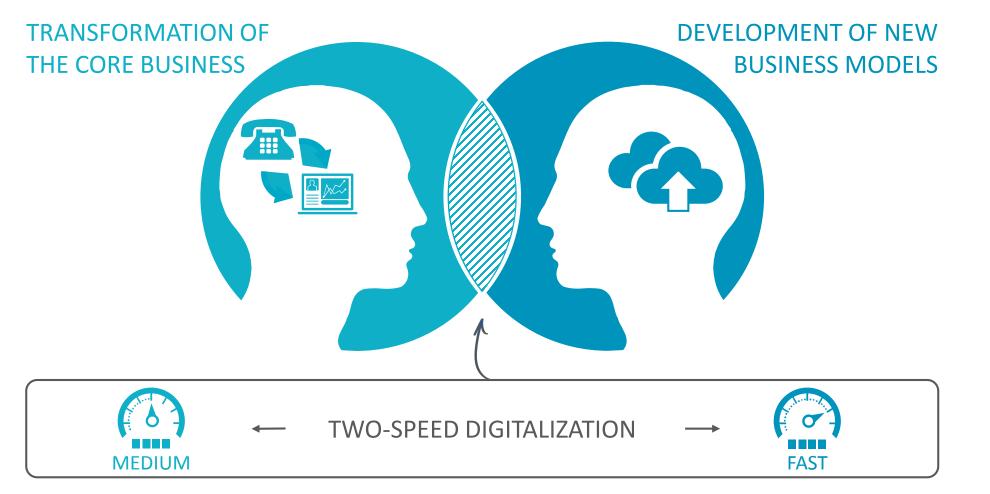
While incumbents and start-ups digitalize the Transport & Logistics core business, new data-driven logistics business models emerge

DIGITAL MARKET PLACES	<ul> <li>Matching</li> <li>Optimization of utilization and routing</li> <li>Value-added services for truckers/ carriers</li> </ul>
E-FORWARDING	<ul> <li>Focused on standardized transport services</li> <li>Optimized UI/UX</li> <li>Automation of logistics processes</li> </ul>
DATA-BASED SERVICES	<ul> <li>Data infrastructure for SME logistics providers</li> <li>Commercialization of logistics data, e.g. insurances</li> </ul>
ASSET-LIGHT DISTRIBUTION	<ul><li> "Uber for Freight"</li><li> Intermodal last-mile distribution</li></ul>
AUTONOMOUS TRUCKING	<ul><li>Booking platforms for Platooning</li><li>Fleet management for autonomous trucks</li></ul>
DIGITAL WAREHOUSE	<ul> <li>Capacity management across multiple warehouses (on-demand)</li> <li>Automation of contract logistics services</li> </ul>





Logistic companies are required to focus on digitalizing the core business and simultaneously developing new business models







Logistics players will have to develop new digital competencies in order to ensure competitiveness of the business

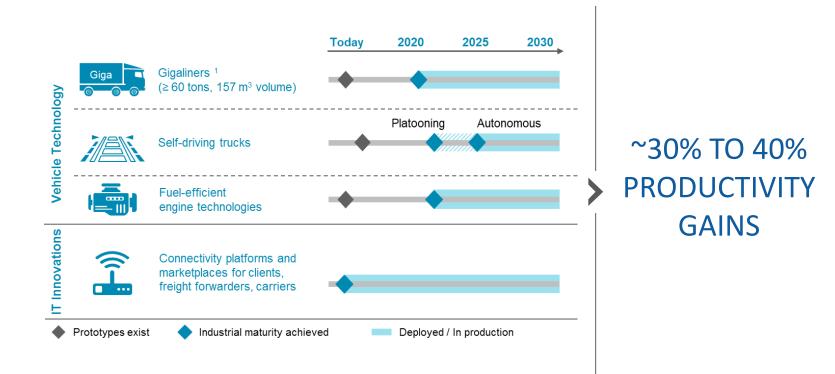






Rail will have to deal with technology driven, disruptive productivity gains in road transport

#### Core upcoming road technology innovations



#### **Challenges for rail**

- Significantly longer innovation cycles in rail (25–30 years) than in road transportation (~5 years)
- Need to change a complex system with a lot of players involved



# Rail and Road transportation will converge in the future

#### **Core upcoming road technology innovations**



#### **Electrification of trucking**





#### **Future Similarities**

- Scheduling of platoons
- Booking platforms for slots on platoon
- Operating model infrastructure
  - Electrification
  - Traffic control centers
  - Signalling systems
  - Datanetworks

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Network of connected sensors