

F R O S T & S U L L I V A N



Developments in Connected Truck Market Shaping the Future of Logistics, Global, 2016

Telematics will be the Key Driver for Supply Chain Automation

Global Automotive & Transportation Research Team at Frost & Sullivan

Contact:

Francesca Valente

francesca.valente@frost.com

Corporate Communications, Americas

K199-18

June 2017

Key Findings

Trade will gravitate toward urban areas as cities emerge to account for over 50.0% of the global consuming class by 2025.

Connected Truck Market: Key Findings, Global, 2016



Urbanization

Urban logistic opportunity of \$5.98 trillion by 2020



Connectivity and Convergence

>40 million trucks will be connected by 2022 – visibility transforming logistics providers' decision making



New Business Models

Uber for Trucks will generate more than \$26.5 billion in revenue in 2025 (North America)



Bricks & Clicks

By 2025, ~ 20% of retail will be conducted through online Channels



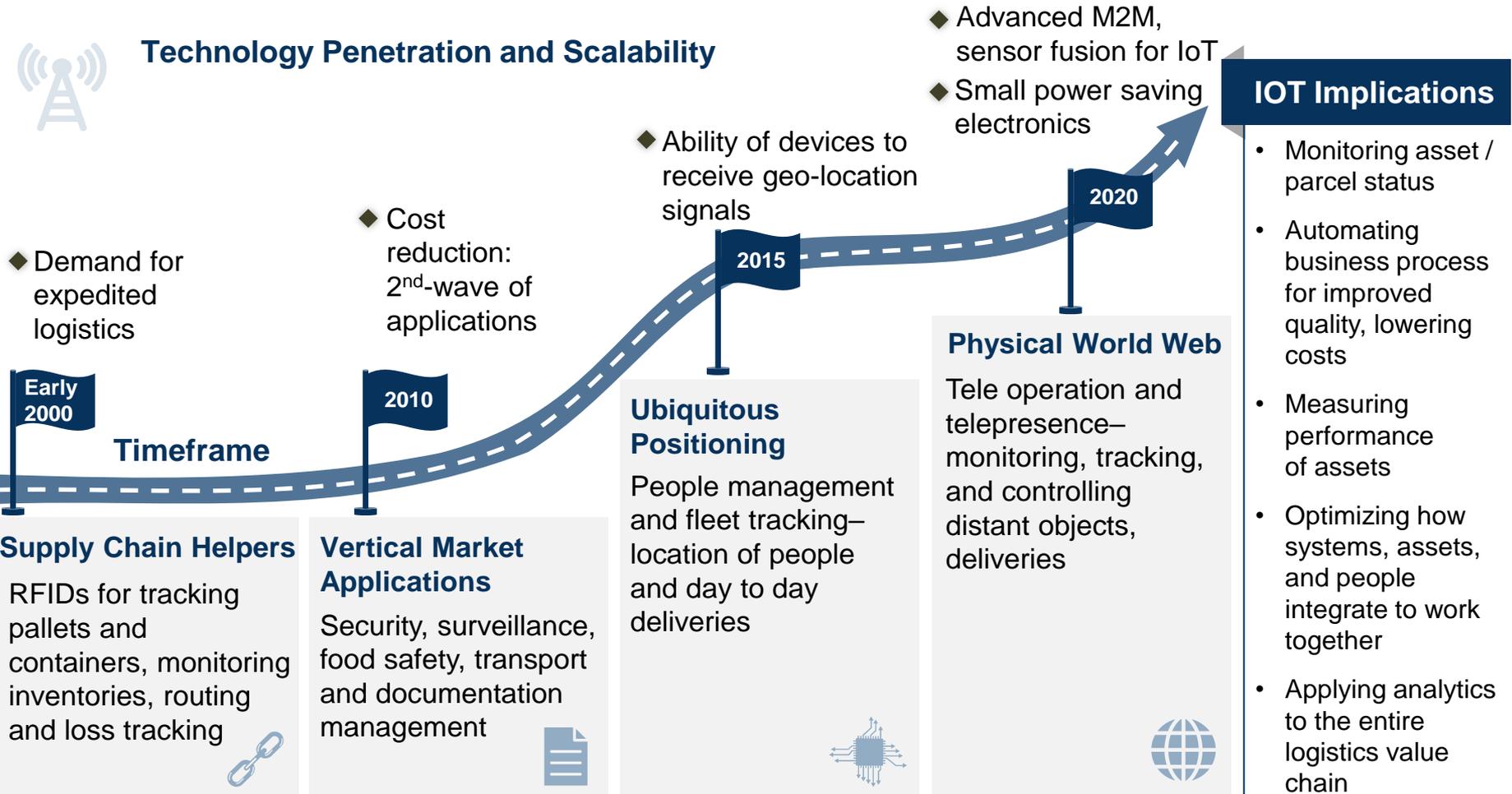
Source: Frost & Sullivan

Roadmap of Technological Advancements in Logistics

By 2020, IoT use cases will be characterized by advanced M2M capabilities and sensor fusion, which is expected to make the traditional supply chain models redundant.

Connected Truck Market: Technology Roadmap, Global, 2000–2020

Technology Penetration and Scalability

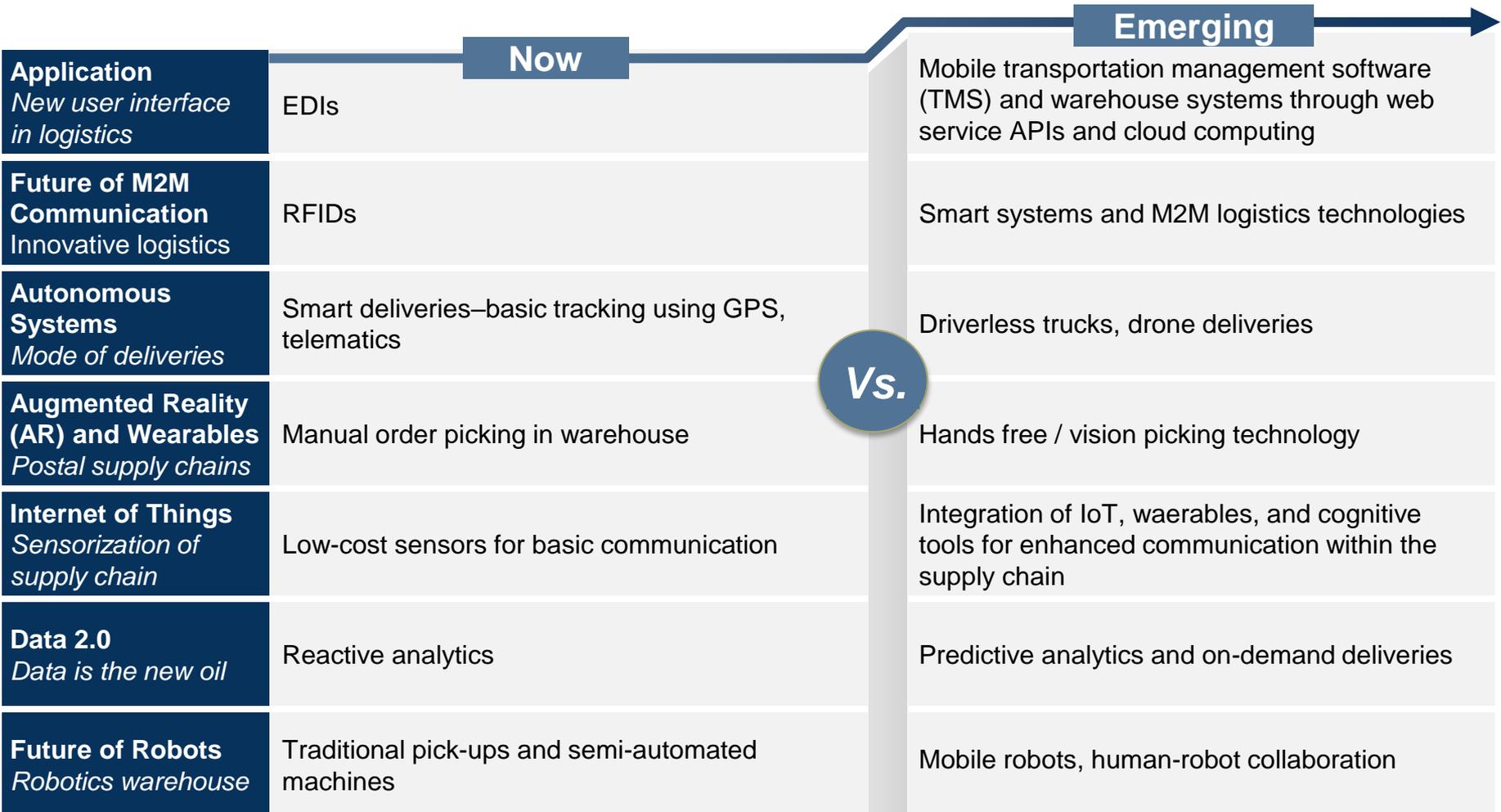


Source: Frost & Sullivan

Technology Transformations in Logistics

Real-time data, sensorization, and intelligent autonomous machines are the major technological trends expected to transform the logistics and supply chain industry.

Connected Truck Market: Technology Transformation, Global, 2016



Source: Frost & Sullivan

Transformational Shifts in Automotive Logistics Supply Chain

Strategic partnerships between OEMs and LSPs have resulted in a lean and connected supply chain.

Connected Truck Market: Transformational Shifts, Global, 2016

Current Scenario

Lacking appropriate supply chain management to meet changing scenario

- Managing supply chain capacity
- Supervising network design
- Administering risk management

Industry Impacts

- 15 to 20% increase in supply chain costs
- Losing market share from product launch delays

New Trends

- Structural shift from mature to emerging markets: Example: Vehicle assembly market to increase by 50% in the APAC region with China becoming the largest supplier.
- Shorter lifecycles (from 7-8 years to 4-5 years) forcing OEMs to re-vamp methodologies.
- Alternative channels and re-routing strategies in case of natural disasters.



Implications to Supply Chain

- Lean and resilient supply chain: Need for hybrid models balancing capacity, wastage, and costs
- Shift in supply chain flows in terms of production dynamics and changing sourcing—regional production systems and large national assembling + global buy-sell relations
- Redesigning in-bound transport and logistics arising from lowering finished good inventory levels: Strategy to build for actual demand as opposed to that of stock
- Multi-layered real-time visibility: On-ground sensor grids in local regions for continuous monitoring of supplier production, inventory, and in-transit goods

Opportunities in Logistics

- **Self-driving parcels: Futuristic solutions for fully automated goods delivery**
- **Multi-modal route service and traffic management capabilities, like managing congestion for instance**

Source: Frost & Sullivan