

TOWARDS A SUSTAINABLE AND INTEGRATED EUROPEAN MULTIMODAL TRANSPORT SYSTEM

High-level Conference on European Multimodal Freight Transport, Sofia, Bulgaria 2018-03-20



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Principal Strategic Customer Engagements
Ericsson AB

ERICSSON – A GLOBAL SHIPPER



50+

countries with
Supply staff

12

production sites

1400

warehouses

3M

boxes
shipped yearly

100K

tons
shipped yearly

1.5M

sales orders
yearly

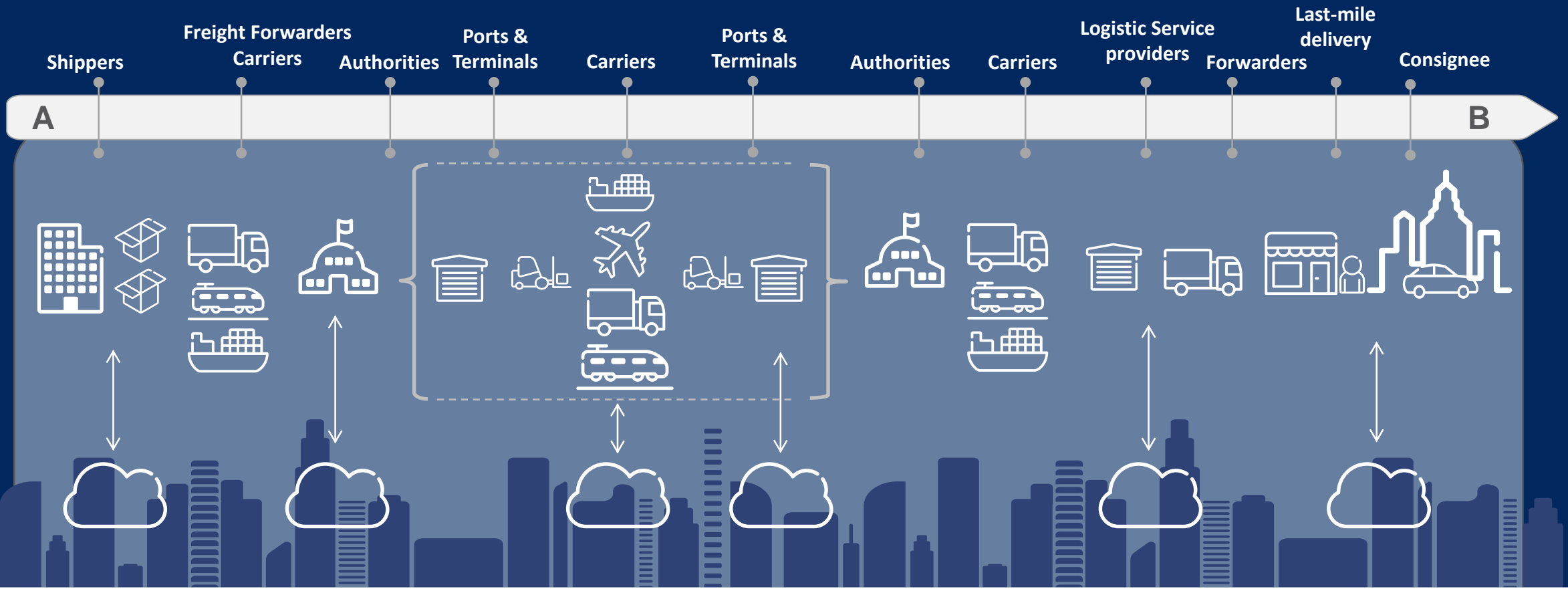


KUEHNE+NAGEL



1 Radio Base Station unit every 15 second

EVERYONE IS CONNECTED BUT NOT TO EACH OTHER



No overview

Fragmented low margin market

EVERYONE IS CONNECTED BUT NOT TO EACH OTHER



Critical information to share:

Track & Trace

Digitalized
document handling

Optimize the Supply
Chain

Fill rate

Content of box &
shipments

Register & Count

Monitor Condition

Vehicle status

No overview

Fragmented low margin market

SUPPLY CHAINS' MANUAL REALITY

CURRENTLY MOSTLY NOT DIGITALIZED AND NOT CONNECTED



Current process to send a package by air



Disadvantages...

- It's complicated
- It's expensive
- It's outdated
- It's slow
- It's unreliable (

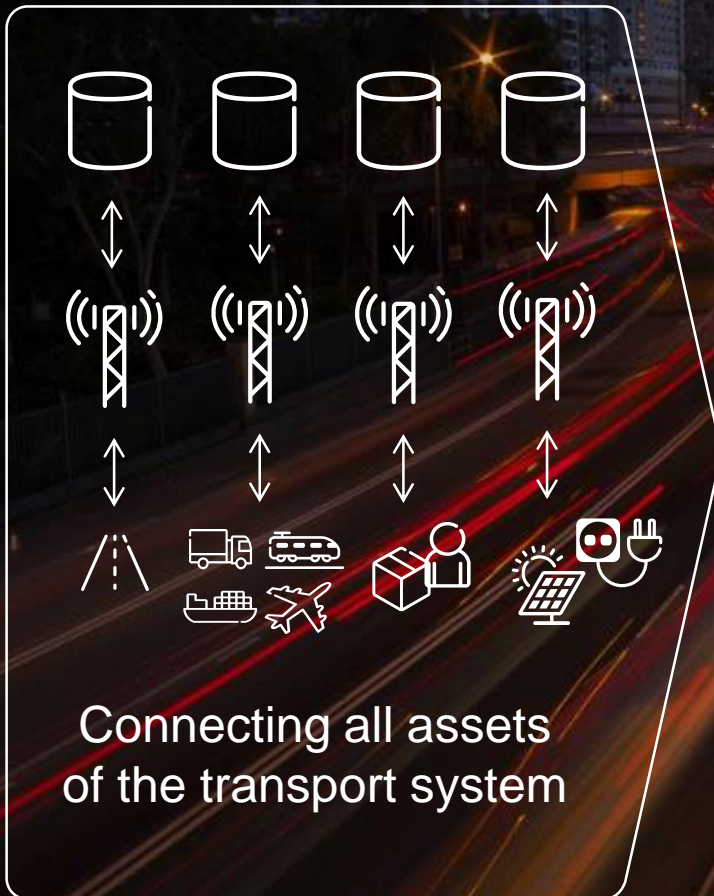


The volume of paper shipped by Ericsson each year fills a 747 freighter

TRANSFORMING TRANSPORTATION



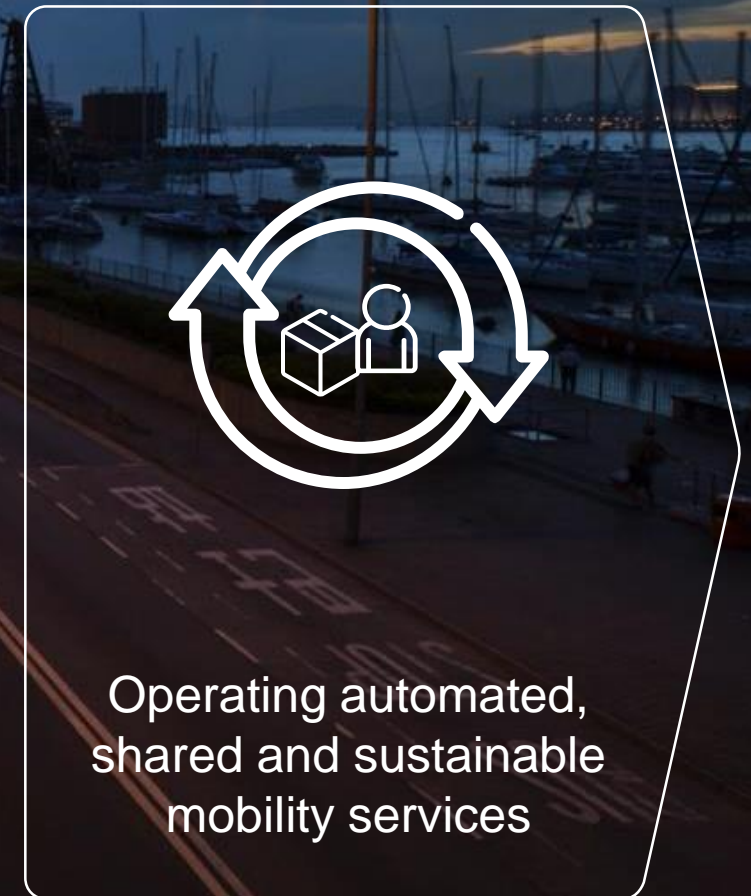
CONNECTED



COOPERATING



AUTOMATED



DIGITALIZATION CROSS INDUSTRIES

FROM SILOS TO AN ECOSYSTEM OF ECOSYSTEMS



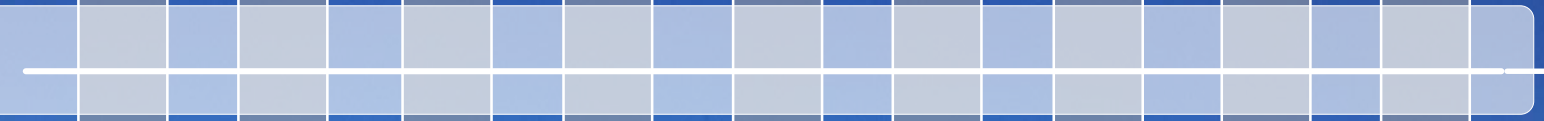
Customer experience



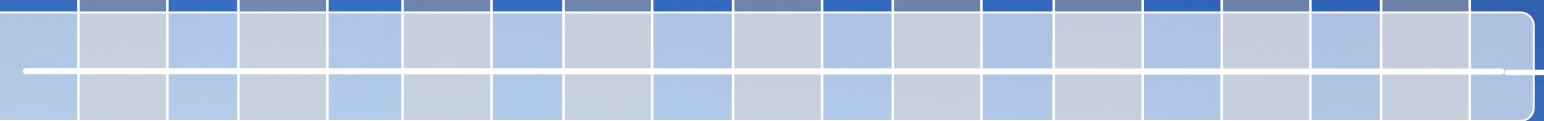
Business models & processes



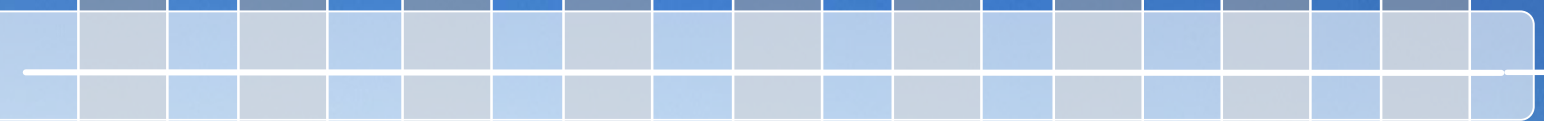
Applications & Value-added Services



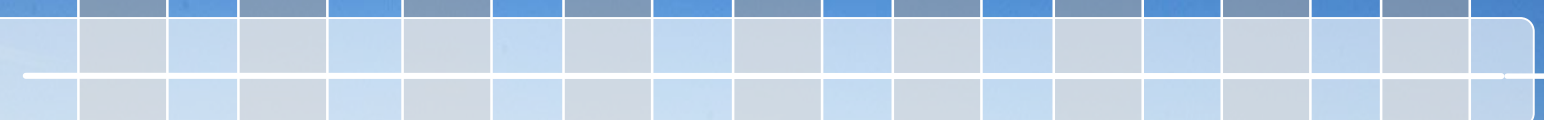
Application platform



ICT infra:
Cloud, Connectivity, Networks



Devices & Sensors



Assets:
People, Things, Info:



IoT

4G/5G

DIGITALIZATION CROSS INDUSTRIES

FROM SILOS TO AN ECOSYSTEM OF ECOSYSTEMS



Customer experience



Customer Experience Management



Business models
& processes



Business Model Innovation



Applications &
Value-added Services

Application platform

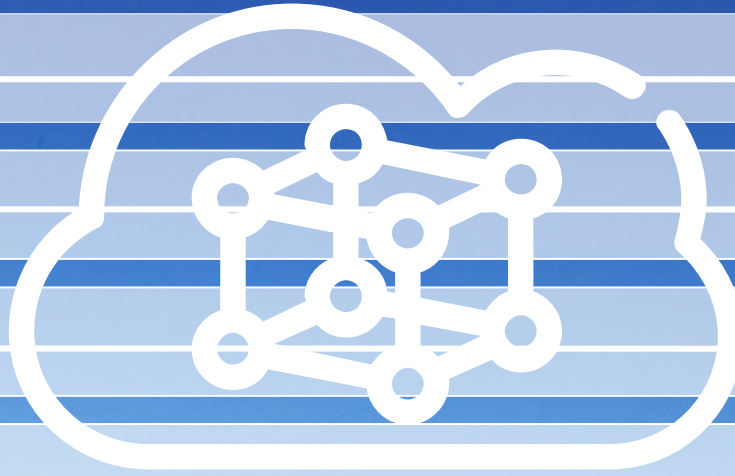
ICT infra:
Cloud, Connectivity, Networks

Devices &
Sensors

Assets:
People, Things, Info:



Shared assets



IoT

4G/5G

DIGITIZATION

A DIGITAL REPRESENTATION OF THE REAL WORLD



temp
noise
air_quality
occupancy
energy
water



vibration
temperature
traffic_intensity
surface_condition
noise_level
route_to_work



energy
water
waste
CO2_emission
machine_tear
production



heart_rate
skin_conductance
calories
gesture
mood
position
movement



location
occupancy
fuel
emissions
speed



irrigation
luminosity
nutrition
moisture
pesticides



COOPERATION!!!

CROSS MODE, CROSS SECTOR, CROSS BORDER

Reference models
for operational flows and
inter- & intra-modal hand-overs

KPIs and measure points
for commercial agreements
and regulatory focus areas.

Integrated infrastructure
Transport + Energy + Digital

- Architecture and interfaces
- Operational models
- Business models and regulations































Data sharing prerequisites

- Semantics and ontology
- Unique identifiers
- Governance model
- Security, integrity and privacy

A CHALLENGE FOR CROSS MODE TOPICS...

Standardization / protocol	IGO Intergovernmental organizations	Associations	EU Projects and testbeds	
				
			<p>And many more</p>	

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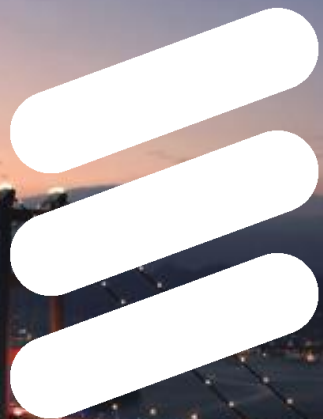
Reference models for operational flows ?

KPIs and measure points ?

Integrated infrastructure: Transport + Energy + Digital ?

Data sharing prerequisites ?

And many...



ERICSSON