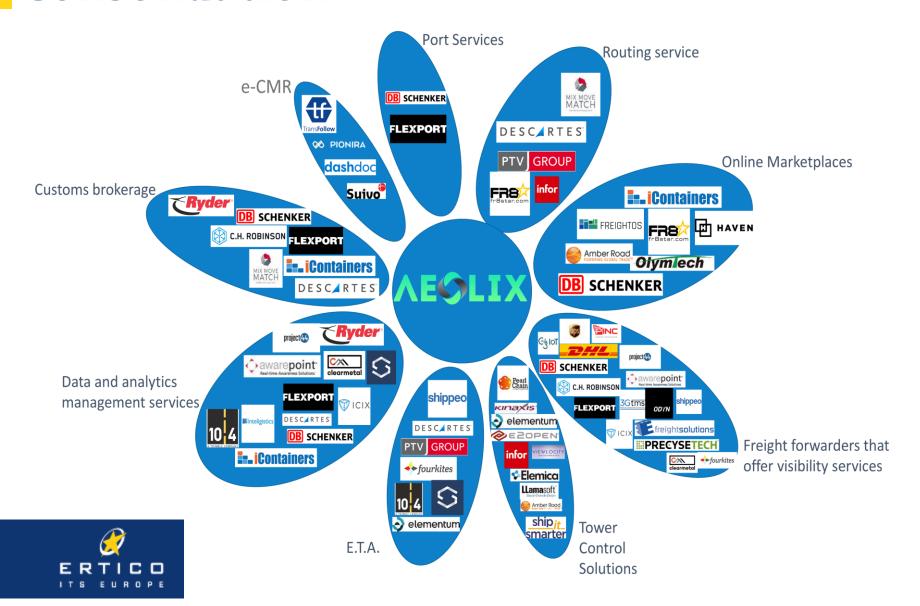


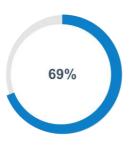
AEOLIX project



An industry in transformation: Consolidation



Consolidation and fragmentation in the logistics industry- The 45+



Visibility services

The majority of the analysed market onsidered SC visibility as ne of the most innovative services in the industry



Marketplace

A small percentage of companies operates an online platform



Routing

Routing is between the least widespread services among the companies



Data and documents management

One third of the companies are using data and documents management software



Data exchange (one-way or two-way)

There is some sort of data exchange between these users



Data collection

Less than half studied business had a way to collect data for the user to analyse



TMS service

ransportation Management
Software packages were
offered to businesses in

fered to businesses in order to make their processes esieR T

Event/ risk prediction

9%

Approximately 1 out of 10 companies offer through predictive analytics and hardware, services related to



Estimated Time of Arrival (ETA)

ETA, unlikely visibility services is not a common service



e-CMR

e-CMR documentation is starting to be offered in applications



Port services

A very small portion of the analysed companies offers services at the ports

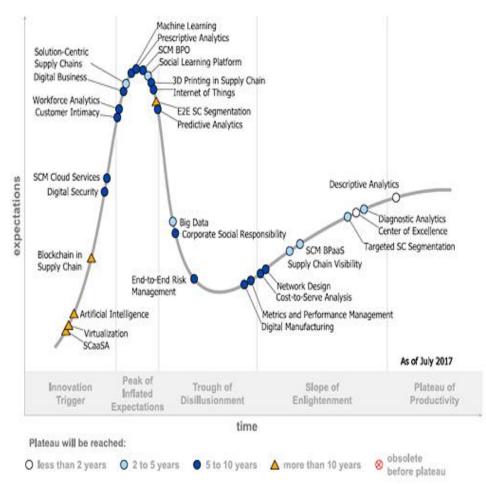


Custom brokerage services

out of 6 companies provide services at the customs

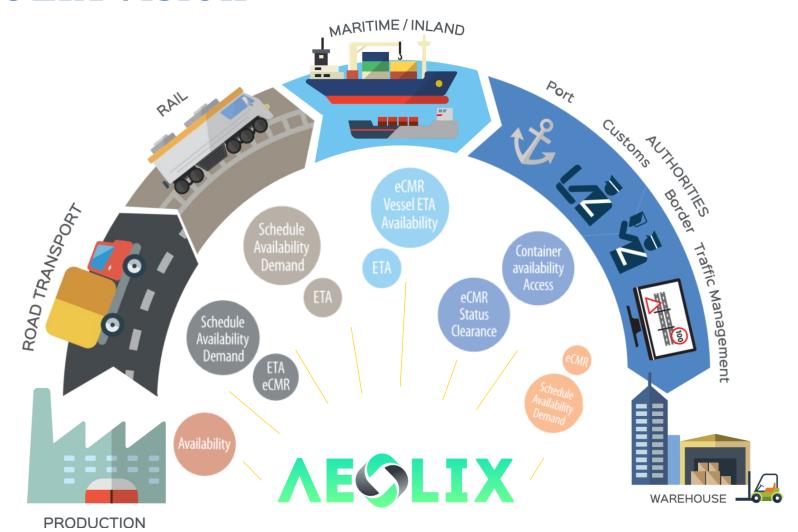
What is shaping the future of global logistics markets?

- Supply chain visibility will soon be standard business practice (2-t years)
- Al and Block chain (10+ years)





AEOLIX vision





AEOLIX end to end visibility network

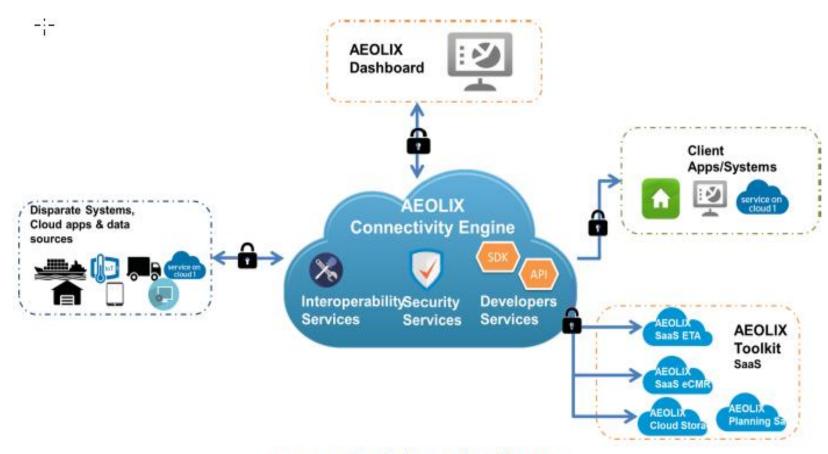
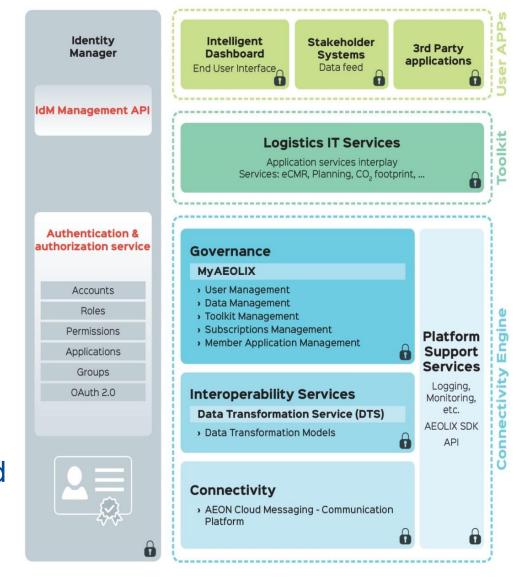


Figure 1. AEOLIX Platform High Level Overview



AEOLIX end to end visibility network

- AEOLIX network
 - cloud-based
 - multi-enterprise
 - "many-to-many"
- Captures and streams data real-time
- Automatically translates
 "data format" from different
 IT systems
- Giving organisations the ability to rapidly respond to issues through a customised dashboard.





AEOLIX Connectivity Engine



Responsible for providing the connectivity interoperability services and supporting seamless data exchanges between organisations and services. These technical services provide the architectural setup; (1) connecting the end-user with its many business partners and systems in their networks; (2) allows for interoperability and governance services; the information exchange between different systems; partner/ system interactions and data sharing management rules.





AEOLIX Toolkit

Core logistics services to support and implement the business needs of AEOLIX end-users. Examples of services offered in the toolkit are: E-CMR, routing, planning services for road and intermodal service, ETA service, CO₂ monitoring, dangerous goods transport management, and more. Toolkit services can be used via the AEOLIX connectivity engine by applications, services and sensors or interplay with other toolkit elements.

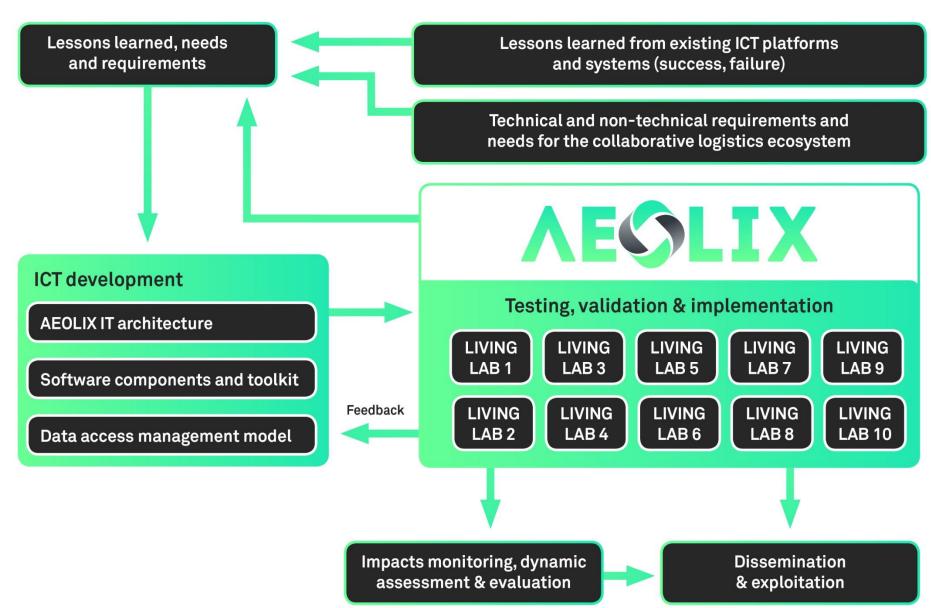


AEOLIX Dashboard

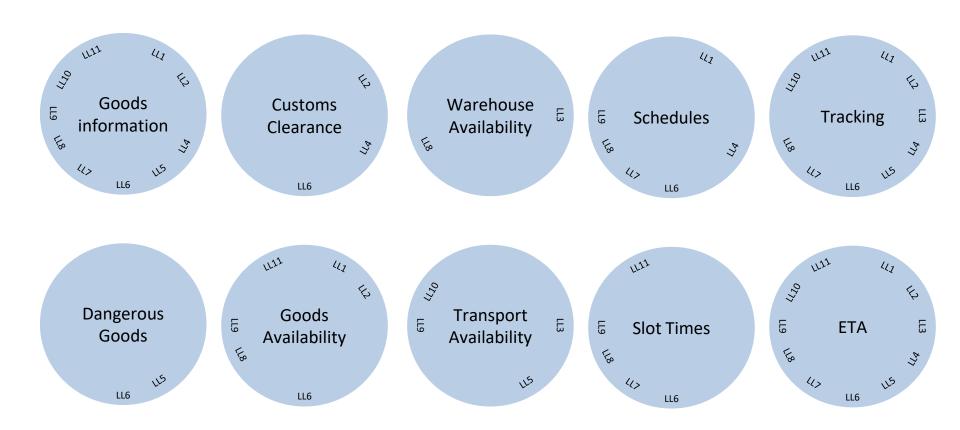
An intelligent, user configurable web application, which serves as a dedicated portal to the AEOLIX Platform. It manages and enables access to end-to-end logistics visibility by sharing data of the logistics partners via the Connectivity Engine (CE). It enables intelligence to be added to the data from within the dashboard and enables access and mobilises applications from the toolkit.



AEOLIX Work packages



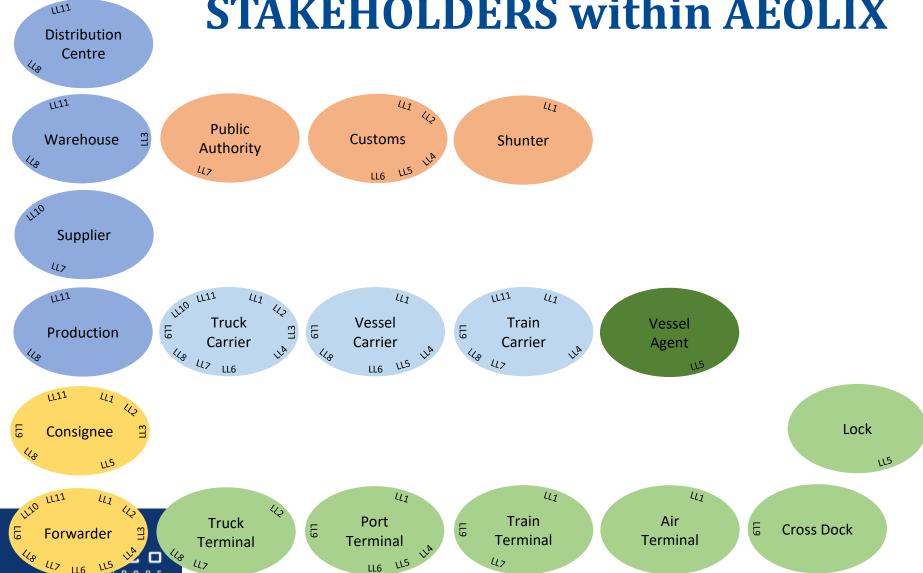
Main information data within AEOLIX



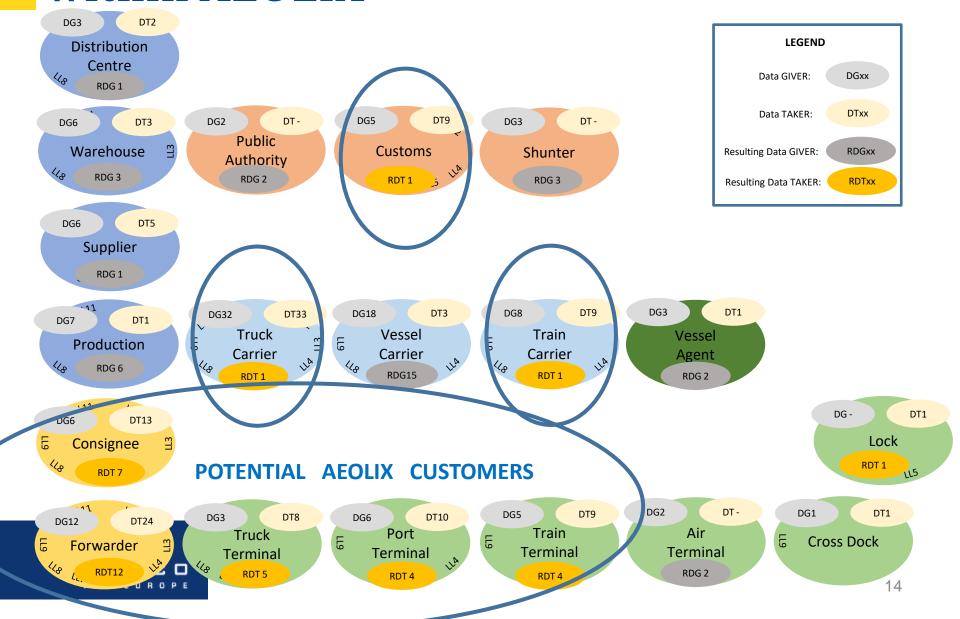


Summary of the main information types to be communicated within AEOLIX Source: D5.3; presentation proposal Chalmers

Main information flow STAKEHOLDERS within AEOLIX



Main information flows within AEOLIX





Living Lab 7: FMCG Logistics -Malmö intermodal terminal, COOP central DC in Bro (Sweden) Living Lab 11: Mondelez Load Control Centre Connectivity -Bratislava (Slovakia) Living Lab 5: Inland Waterway Danube - The Danube Living Lab 4: Intermodal e-Customs - Trieste (Italy)

Exchange and Collaboration -Thessaloniki (Greece)

AEOLIX Benefits



Enhanced supply chain visibility



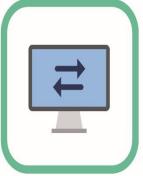
More efficiency and better resilience



Fewer costs less administrative burden



New business opportunities



Automation of data flow



Optimised choice of transport services



Better transport and event management



Increased load factors



Fewer CO₂ emissions



Interoperability in line with EU standards

AEOLIX partnership







































































AEOLIX"Trusted data network"

Data push model

 Model enables real time information to interested parties ensuring automated logistics processes in the logistics stakeholders apps / systems

Open

- Data is not stored in any central database but is produced and maintained in original data format by its owner
- Each owner of the data pipeline decides who can participate and how (producing data, reading...)

Data from legacy systems

Data easy to use and consume for legacy systems exposing AEOLIX core services as API / Rest services

Data Privacy assurance, authentication and security mechanisms

Data Privacy assurance, authentication and security mechanisms

Data architecture

- Built upon existing recognised industry and European standards and has proven reference data implementations
- Visible and recognised as a trust Label within industry and public authorities.
- Validated through compliance testing and certification

AEOLIX testfest events













AEOLIX high level events 2018

