

CLICK TO KNOW MORE



Historical Amsterdam







Along time ago. Magalaxy far, tar anna



Smart ports

Smart Transport Chain

- Ship / train / truck
- Direct impact Port Authority
- Data exchange / ETA / ETD / infrastructure
- Port planning & efficient use port infrastructure
- DIL (data infrastructure logistics)



Smart Supply Chain

- Cargo on board of truck/ train / ship
- Market responsibility
- What data can Port Authority provide?

Smart Port Authority

Smart Finance and Documents

- Mainly market responsibility (supply chain finance)
- Portbase systems (customs and harbour dues)

Smart Port Area and Environment

- Lease of land
- Efficient use of existing port area and infra
- Environmental aspects (noice, air quality, CO2)
- Energy sources (H2, electricity)



Port Authority => Port Development Company

Market master



- Provide location and conditions for business
- Harbour Master
- Provide network infrastructure
- Efficience use of scarce resources

Match maker



- Organize business community and other stakeholders
- Triple helix
- What is their problem and is there a digital solution

Co-creator



- Provide incubator living lab
- Participate in pilots
- SMASH / BO MIRT Zuid / DIL / Portbase

Smart transport planning

Sea and inland ships:

- Core business PoA / Port Call Optimization
- Coöperation transport chain (ETA ETD) (lock planning, ship owner, tugboat, pilot, terminal)
- Public waiting places barges

Rail:

- Prorail infrastructure manager
- Smart sensors and camera's on port rail infra

Road

- Several road infrastructure managers (national, province, local)
- PoA role truck parkings





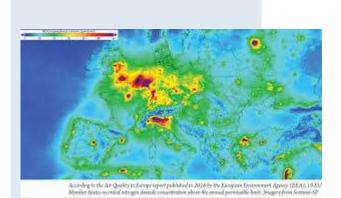




Advanced Technologies

- Smart camera's, sensors

- Lidar, radar



- Drones

- Satellites



- Autonomous ships







Data driven spatial and mobility solutions for seaports







