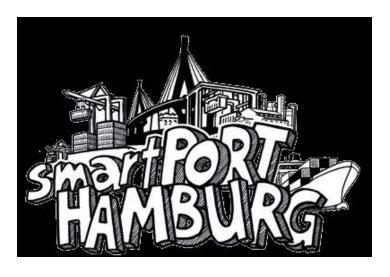
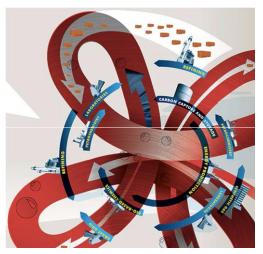
Smarter, Greener & Safer: Port Authorities and the Internet of Things

Dr. YANN ALIX
General Delegate
SEFACIL Foundation
Le Havre – France













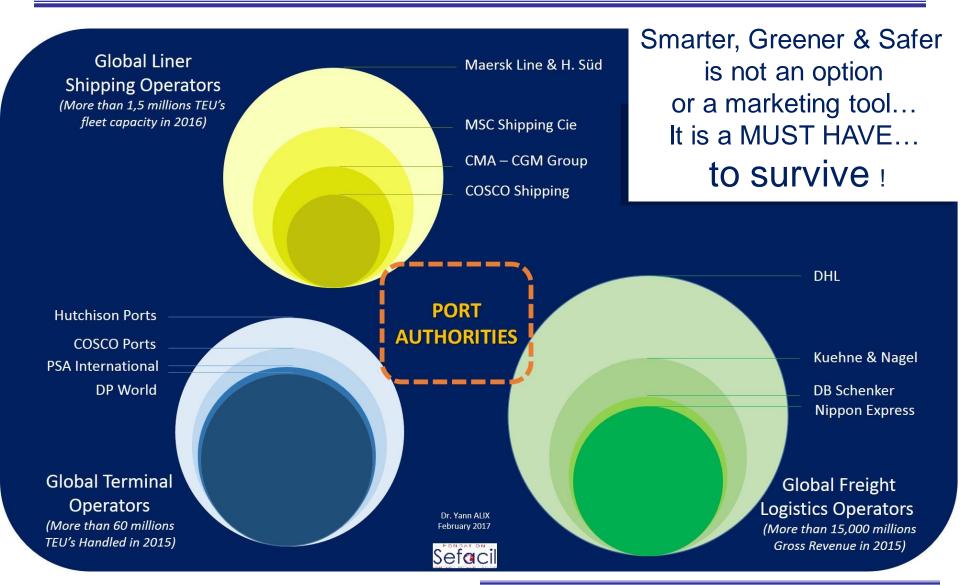






IT, IoT, IoE, IA.... Whatever means the i...

Ports have to move forward with Information, Intelligence... and Internet!















.... Because "The global" market wants to... and your clients/customers too!

SMART GLOBAL VALUE CHAIN

Producers:

Buyers

Shippers/ Distributors Logistics Integrator Inland Carriers Terminal
Operators

Shipping Lines

PORT AUTHORITY AS A « SMART GVC MC »

(with Customs, Phyto, Revenue, and so on...)

E-Commerce new practices

BUSINESS/REVENUES OPPORTUNITIES

FIRST MOVER
JACKPOT

Final consumers' expectations



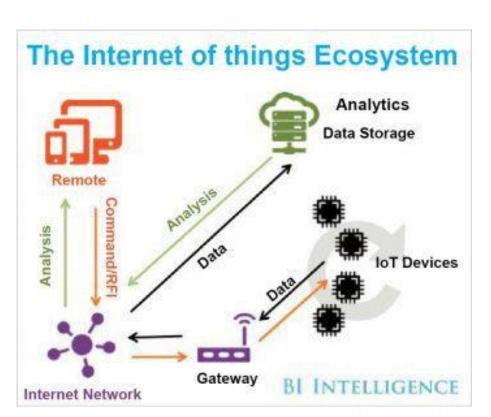








.... Because a Port Ecosystem deals with millions of data, devices and clients!





DATA DATA DATA interconnectivity / flexibility / transparency / fluidity / efficiency











And because serious People are advocating to see ports doing quite much more than they are proposing now...





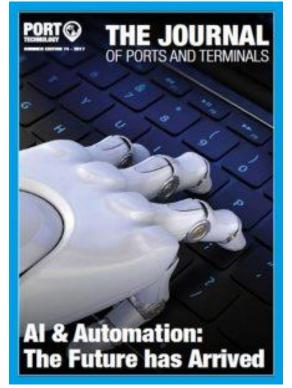


'Dumb, dark and disconnected'... ports need to do more



Eleni Pittalis
Commodities associate

Amazon vs Maersk: The clash of titans shaking the container industry













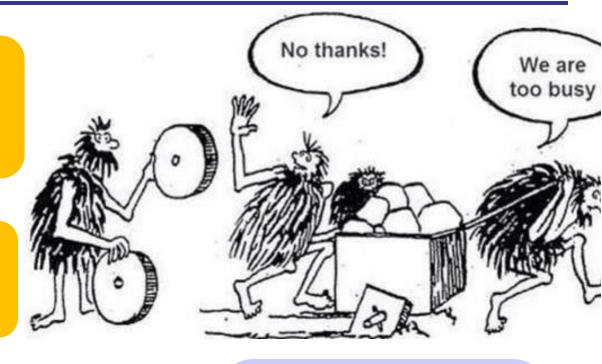
There is no IoT Port Toolkit box with cut & paste solutions...

CONSCIOUSNESS

Task force / Group of Interest / Hackathon

WILLINGNESS

Road Map / Priorities / **Iot Steering Comitee**



STRATEGY

Objectives / KPI / Vision



METHODOLOGY TOOLS PROOF OF CONCEPT **CASE STUDIES RESULTS 2.0**













Few samples among others in Western Europe: Port of Hamburg & HAROPA



WHY IoT:

TO IMPROVE PORT INFRASTRUCTURE &

TO ENHANCE THE QUALITY OF LIFE
OF PEOPLE LIVING IN HAMBURG

HOW IoT:

SYSTEMS OF SYSTEMS by CISCO / HPA SMARTER DECISIONS BY CUSTOMERS & PEOPLE...

SMART is not just money, profitability, ROI...

MOBILITY / ENERGY / BUILDINGS / INFRASTRUCTURE

... SMART means as well quality, philosophy, health, environment, etc!











Few samples among others in Western Europe: Port of Hamburg & HAROPA



ON-TIME & SMART MANAGEMENT of

- RAIL
- ROAD
- WATERWAYS TRAFFICS

By intelligent sensors able to provide Interactive mapping for supporting decision made by multimodal carriers as well as citizens living, working or just « crossing » the port

SMART does not (only) mean IT...

Collective brain & mutual effort

Human capital investment

Change management process

Co-production & co-generation of services & solutions ...











Matching Logistics Performance & Environment Integration thanks to IoT



#1 Logistics Performance: new kind of services to serve our inland clients' competitiveness

#2 Environmental Performance: keep developing industrial port activities but better monitored & well integrated into the metropolitan area











One example among others: the "open-source" River Information System









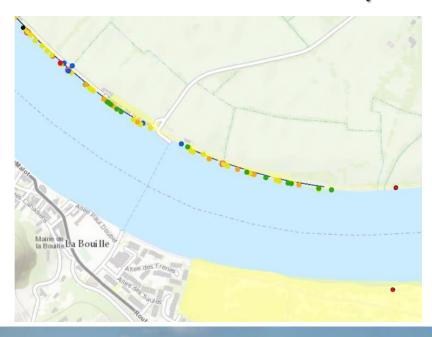


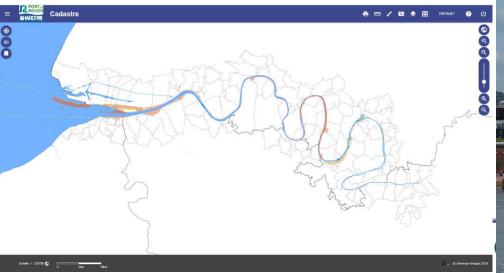


HAROPA

One example among others: the "open-source" River Information System

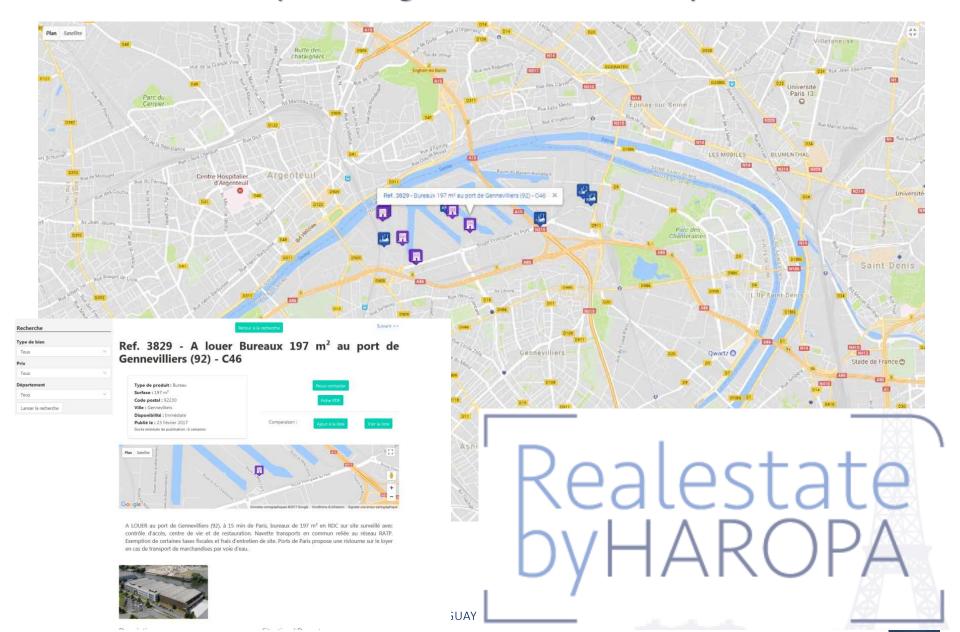








One example among others: RealEstate by HAROPA



One last example but not so much original... OPEN MINDS OPEN PORTS!





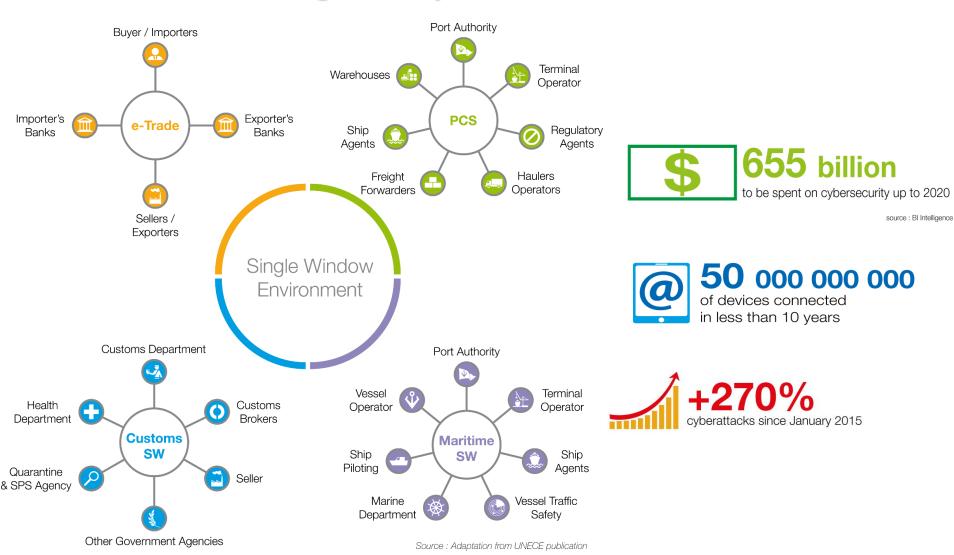








TEAM UP': Port authorities cannot do alone... against cyberterrorism!









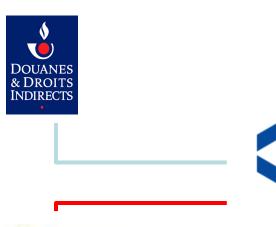






Stronger & smarter together to anticipate GVC challenges

#1 for Trading Across border Doing Business Index by The WB

















1 in PCS Worldwide

1 French Logistics Engineering School







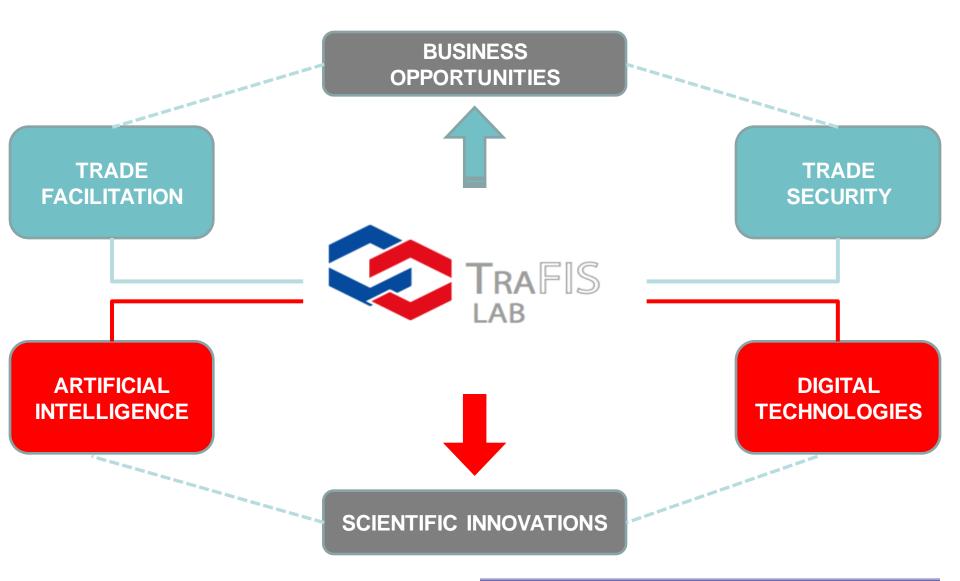






TRAFIS LAB

Creating bridges between scientific Kn & Business opportunities





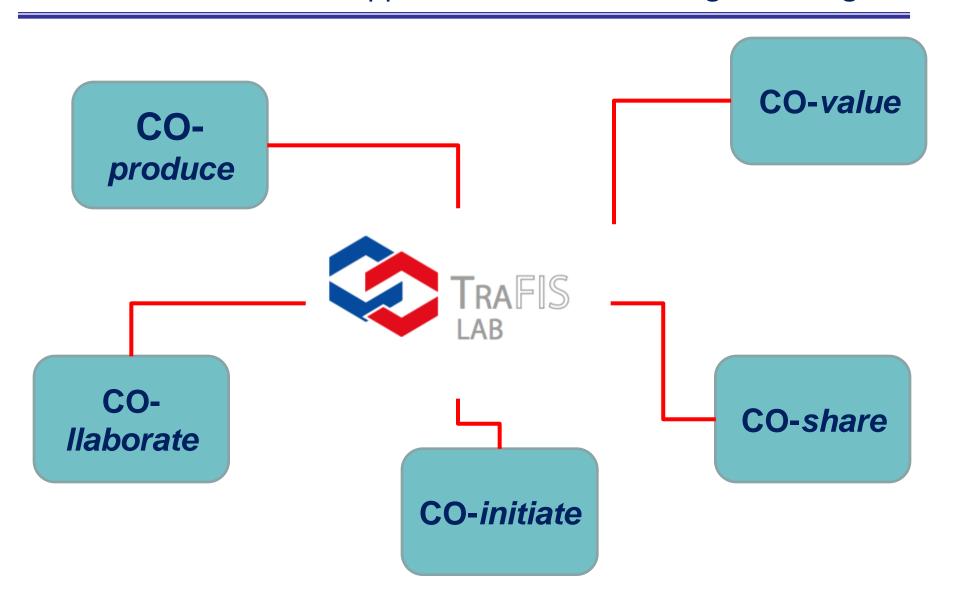








5 CO's because we are supposed to be more intelligent all together!





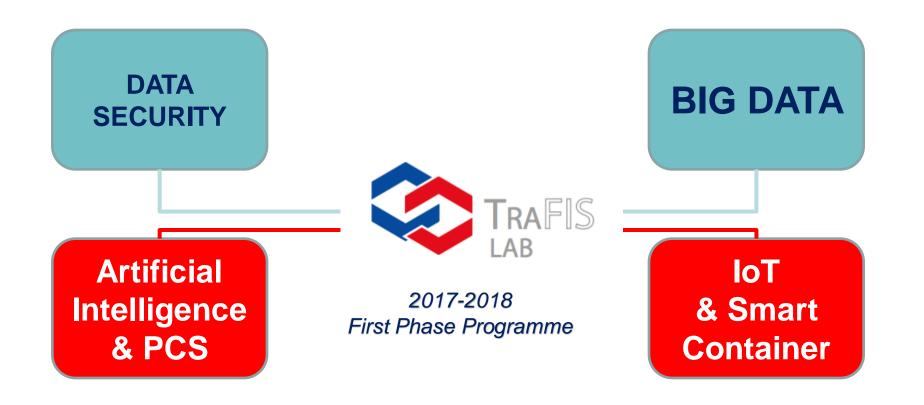








Four Pilars for the next 18 months... far beyond Pure IT issues...













IoT Security – IoT Green – IoT Energy – IoT People – IoT Business – IoT Anticipation

And about you? The case of Mega Cruising Postmodern terminal...

- Digital Modeling
- 3D CAD System
- Virtual Reality
- Smart Production Systems
- Connectivity







i Da sus gracias a todas i todos! Wish to thank all of you! En vous remerciant!

















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Key figures 2011 - 2016





























