TRUSTED DATA SHARING FOR SUSTAINABLE SUPPLY CHAINS
Who am I?

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NxtPort

Laurent Moyersoen (NxtPort) Flows
Rookie of the Year

Jong Voka Antwerpen-Waasland

Bestuur

Bestuur 2018-2019

Bestuurslid
Laurent Moyersoen
NxtPort
Industry 4.0

Water, Steam and Mechanical production

Industry 1.0

Electricity and mass production

Industry 2.0

Electronics, IT and Automation

Industry 3.0

Internet of Things

Robotics

20 mill Years ago
Year Zero
~1784
~1870
~1969
~2011->

First mankind
Data Governance

Proactively managing your data, to support your business achieve its strategy and vision.
DAILY REALITY
Unleash the Power Of Together!

NOBODY CAN TELL ME WHAT’S GOING ON ...
I’VE CALLED EVERYBODY ...
SENT EMAILS ...
NOBODY KNOWS ...

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THE DATA WAREHOUSE CAN’T TELL ME ...
THE CONNECTION WITH THE TRANSPORT COMPANY DOESN’T WORK ...
I CAN’T FIND IT ON THE WEBSITE OF THE TERMINAL ...
WHERE IS THAT SHIPMENT?
WHAT DO I TELL MY CUSTOMER?
I KNOW THE INFORMATION IS AVAILABLE SOMEWHERE ...
IT’S JUST NOT SHARED ...
WHY?
NOWADAYS CONSUMERS EXPECT END TO END VISIBILITY AND FAST DELIVERY, THEY ARE ECO-CONSCIOUS AND DEMAND MORE ALIGNMENT OF COMPANY VALUES WITH THEIR OWN
THESE EXPECTATIONS HAVE A MASSIVE EFFECT ON THE CURRENT SUPPLY CHAINS, STILL OPERATING IN SILOS

THE AFFECTED BUSINESSES ARE ISOLATED FROM EACH OTHER CREATING WASTE UNINTENTIONALLY
THE SUPPLY CHAIN BUSINESSES NOW REALIZE THAT THEY, IN ORDER TO SURVIVE, WILL HAVE TO WORK TOGETHER AND SHARE INFORMATION TO MAKE THE CHAIN MORE EFFICIENT, RELIABLE AND SUSTAINABLE.
BUSINESSES NEED TO BE INTERCONNECTED, SHARING DATA THROUGH BUSINESS NETWORKS

AN APPROACH THAT CAN MODEL THE COMPLEX BUSINESS RELATIONSHIPS AMONG TRADING PARTNERS AND SERVICE PROVIDERS

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SMART PORT Definition

“A smart port gathers better-educated individuals, skilled workforces, intelligent infrastructures, and automation to facilitate knowledge development and sharing, optimize the port operations, enhance the port resiliency, lead a sustainable development, and guarantee safe and secure activities”

– Anahita Molavi
Phase 1: Fragmented

Phase 2: Defining smart port enablement

Phase 3: Defined & digitizing smart port

Phase 4: Managed, measured & intra-connected smart port

Phase 5: Optimized & continually improved inter-connected smart port systems

Safety & Security

Port Operations

Synchro-modality

Environment

Capability

Silo focused

Integration focused

Supply-chain focused

Port-wide focused

Inter-port focused

Smart Port Maturity Model © Yassin Boullauazan - Antwerp Management School
TOGETHER WITH THE SUPPLY CHAIN STAKEHOLDERS, NXTPORT WILL TRANSLATE THESE COMPLEX BUSINESS RELATIONSHIPS INTO BUSINESS LOGIC.

THIS DIGITIZATION OF THE REAL WORLD FORMS DYNAMIC NETWORKS, ABLE TO ANSWER TO THE CURRENT AND FUTURE NEEDS.

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THE NXTPORT PLATFORM HOSTS THESE DYNAMIC NETWORKS, READY TO BE POPULATED WITH DATA IN A SECURE WAY

A TRUSTED SOLUTION WITH GOLDEN STAKEHOLDERS, PRINCIPLES, SERVICES AND PRODUCTS

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THE STAKEHOLDERS
STAKEHOLDERS

ACTIVE DATA CONNECTIONS:

° Customs
° Port Community Systems
° Independent software vendors
° Shipping Lines
° Forwarders
° Industries
° Small Medium Enterprises

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THE PRINCIPLES
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PRINCIPLE

NEUTRAL FOR ENTIRE SUPPLY CHAIN

° Data Providers
° Data Users
° Software Vendors
APIs NOT APPs
ONLY DATA

° For Data Users to pick up
° For Software Vendors to program on

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PRINCIPLE

CONTROL
YOUR DATA YOUR DECISION

° Data provider = data owner

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THE SERVICES
COMMUNITY
BRING PARTIES TOGETHER
BE A FACILITATOR
° Extensive network
° Common goal

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FLEXIBILITY
DATA INTAKE
ASSIST TO MODERNISE OUTPUT
° All data types, formats, comm methods are welcome but preference for API
VAULT
PERSONAL STORAGE
ASSURE THE MARKET

° The provider’s data is separated from others
° The provider holds the key

SERVICE
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STANDARDS
RESTFUL API ARCHITECTURE
MENTOR THE ONBOARDING
° Output-Input Json / Xml format
MARKETPLACE API REPOSITORY

PROMOTE DEVELOPED APIs

° Data user
° Software vendors

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GOVERNANCE
DIGITAL HANDSHAKE
PROVIDER & USER
GUIDE THE PROCESS

Data distribution:
• Manage
• Control
• Monetize

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SECURITY FROM A TO Z

PUT SECURITY FIRST

° Microsoft as a partner
° ISO 27001
° Regular audit by SIG-emea
THE PRODUCTS

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**IMPORT CONSIGNMENT API**
Get the consignment data from the shipping lines, allowing you to declare your cargo to the Belgian Customs

**VEESLE STAY API**
Get the latest status of the container with your cargo loaded on vessels approaching and visiting the Port Of Antwerp

**NEXT MODE OF TRANSPORT API**
Shorten your turnaround at the terminal when picking up the container with your cargo by providing the terminal with next mode of transport information in advance

**VISIGIP (Scanning) API**
Get the status of the container with your cargo selected by Customs for scanning, follow up all the steps related to the visit at the Border Inspection Post

**TERMINAL EVENT API**
Get the status of the container with your cargo at the terminal, be notified when it is discharged from the vessel and/or has left the terminal

**GREEN LIGHT API**
Know when the container with your cargo can leave the terminal:
- Release from customs
- Commercial release from the shipping agent
- Discharge confirmation by the terminal
- Blocked Y/N by the terminal

**CERTIFIED RELEASE PROCESS API**
Transfer the right to pick up a container at the terminal digitally

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**PROCESS**

**DIGITAL SUPPLY CHAIN EVENTS**

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BUSINESS NETWORK
INTERCONNECT STAKEHOLDERS AROUND A BUSINESS

BUSINESS ACTIVITIES
LEAN APPROACH
FLEXIBILITY
VAULT
MARKET PLACE
API
API
API
API
API
API
API
API
BUSINESS PARTNERS
INTERNAL
HINTERLAND
3rd PARTY
CUSTOMER
GOVERNANCE
SECURITY
SUPPORT

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COMMUNITY NETWORK
INTERCONNECT STAKEHOLDERS OF A COMMUNITY

COMMUNITY
- TERMINAL
- FORWARDER
- AGENT
- SHIPPING LINE

LEAN APPROACH
- TERMINAL
- FORWARDER
- AGENT
- SHIPPING LINE

FLEXIBILITY
- TERMINAL
- FORWARDER
- AGENT
- SHIPPING LINE

VAULT
- TERMINAL
- FORWARDER
- AGENT
- SHIPPING LINE

MARKET PLACE
- TERMINAL DELIVERY
- TERMINAL RELEASE
- VESSEL DIS/LOAD
- CUSTOMS

GOVERNANCE
- TERMINAL
- FORWARDER
- AGENT
- SHIPPING LINE

COMMUNITY
- TERMINAL
- FORWARDER
- AGENT
- SHIPPING LINE

SECURITY
- TERMINAL
- FORWARDER
- AGENT
- SHIPPING LINE

SUPPORT
- TERMINAL
- FORWARDER
- AGENT
- SHIPPING LINE

Unleash the Power Of Together!
NXTPORT IS THE PLACE TO INTERCONNECT COMPANIES, A MALL EQUIPPED WITH THE SHOPS, SHELVES AND SECURITY GUARDS, READY TO BE FILLED WITH BUSINESS APIs WHICH CAN BE PICKED UP BY OTHERS

A PLACE WHERE EVERYONE IS WELCOME, WHERE ITS TECHNOLOGY, PRINCIPLES AND SERVICES ARE AT THE DISPOSAL OF THE GLOBAL SUPPLY CHAIN

THE MALL IS OPEN FOR BUSINESS!
Thanks to Bulkchain, the different stakeholders in the breakbulk/project cargo business will leap into the Breakbulk Port of the Future.

By sharing information and collaborate on Case Management, companies will eliminate errors due to data duplication, reduce the excessive use of paper (no longer cool in 2020) and have a transparent view on their supply chain. Ultimately working together will reduce costs AND increase profits for all related parties. Read more about it in this introduction paper, or contact me or my colleagues through any channel.

I am proud that, together with the Antwerp and Ghent breakbulk community, NxtPort will be an enabler of innovation and digitisation in the months and years to come!

#breakbulk #supplychain #projectcargo #innovation #thebeacon

Vertaling weergeven
Very proud to be able to contribute to this.

‘Port+’ is building a kind of Waze for the port that more accurately predicts arrival times of vessels through algorithms and advises a sailing rotation based on nautical and operational data to optimize turnaround times through a port.’

‘Every period that a vessel is lying idle, costs money. In Antwerp, the costs of this ‘time waste’ for tankers are estimated at 121 million dollars per year, in Houston over 500 million dollars.’

Article (in Dutch) below:

Qronoport · PORT+ · NxtPort · ML2Grow · Brabo Harbour Pilots and Boatmen · De Tijd

#qronoport #portcalloptimization #tankers #waze #datasharing

Vertaling weergeven
GLOBAL INTERCONNECT BUSINESSES
A SHOPPING MALL IN THE HEARTS OF THE SUPPLY CHAIN

HOUSTON
ANTWERP
DUBAI
SINGAPORE

Unleash the Power Of Together!
THANK YOU!
Laurent Moyersoen