NxtPort

BREAKBULK EUROPE

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Building the Port of the Future, Together

Open Data Backbone enabling Digital Supply Chain through Co-Creation

Breakbulk Europe – Steven Schutter

NxtPort

NxtPort

A short (and simple) introduction

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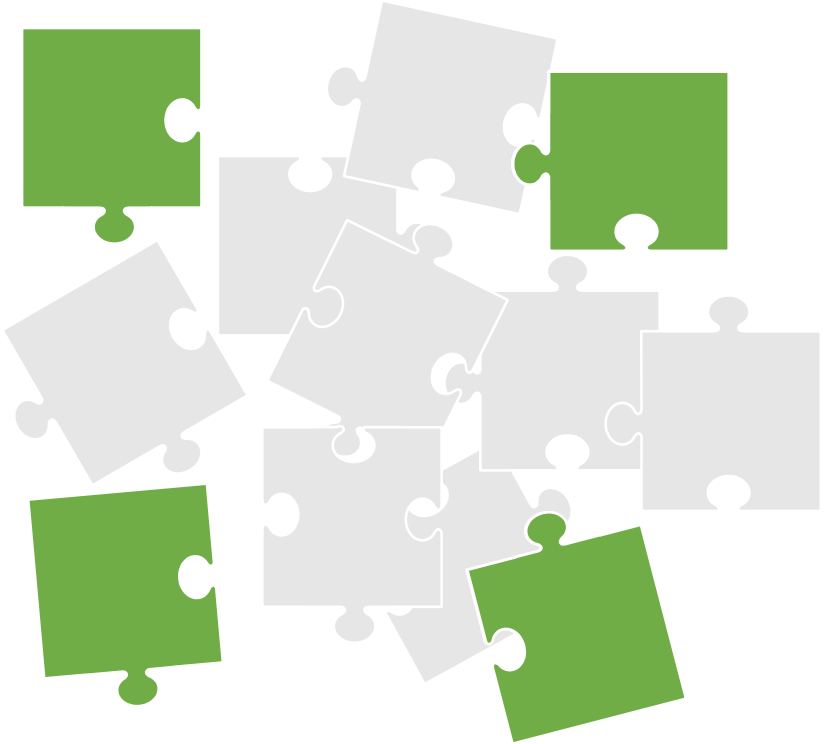
To **solve** problems

A company needs **data**

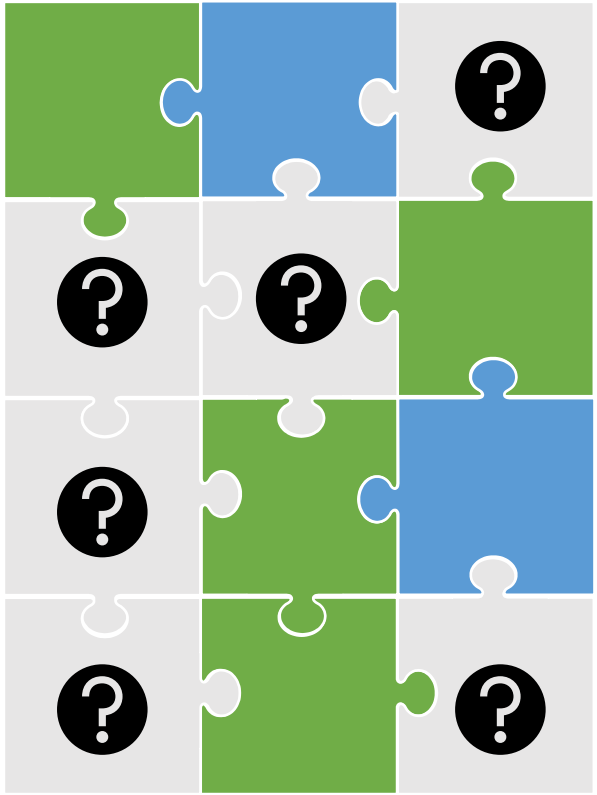
Some of that data is in their **own control**



Most companies have an idea on how to solve the problem.

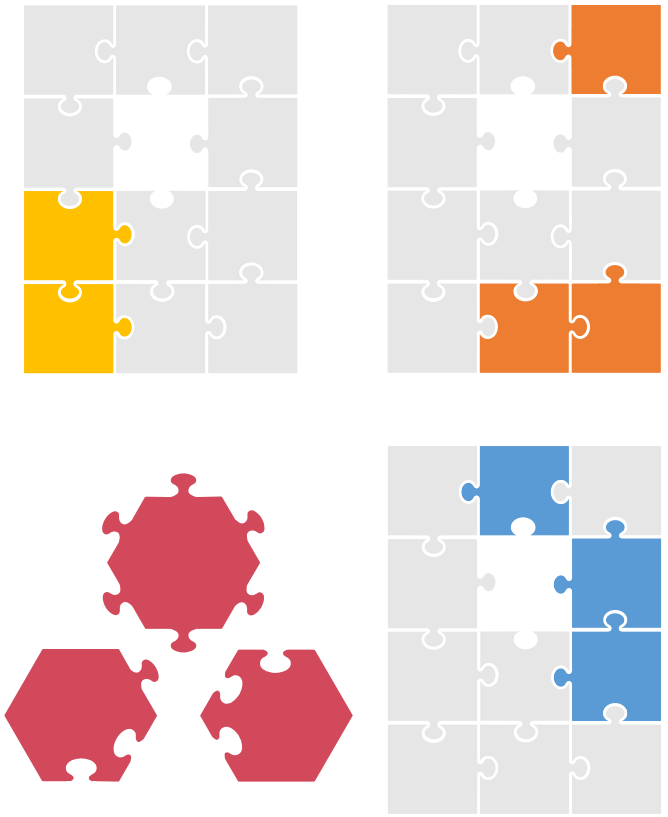
Some of the missing data can be provided by their direct **business partners**

Yet, there remain **gaps** to complete the puzzle

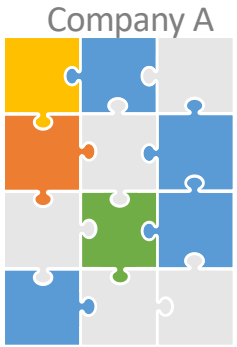


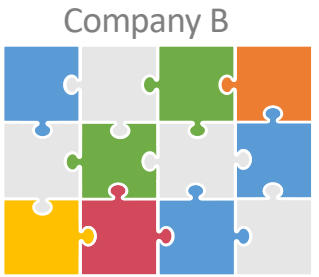
Companies need data from **other sources** in the supply chain. Sources they often don't have a commercial relationship with.

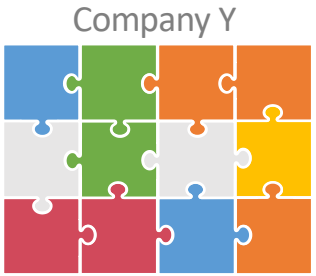
And these sources traditionally have **different formats** that won't fit the company systems.

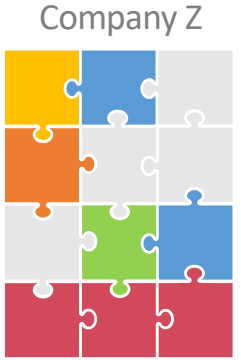


For more advanced multi-stakeholder processes, a **scattered truth** (different versions of the puzzle) is not a favourable situation either





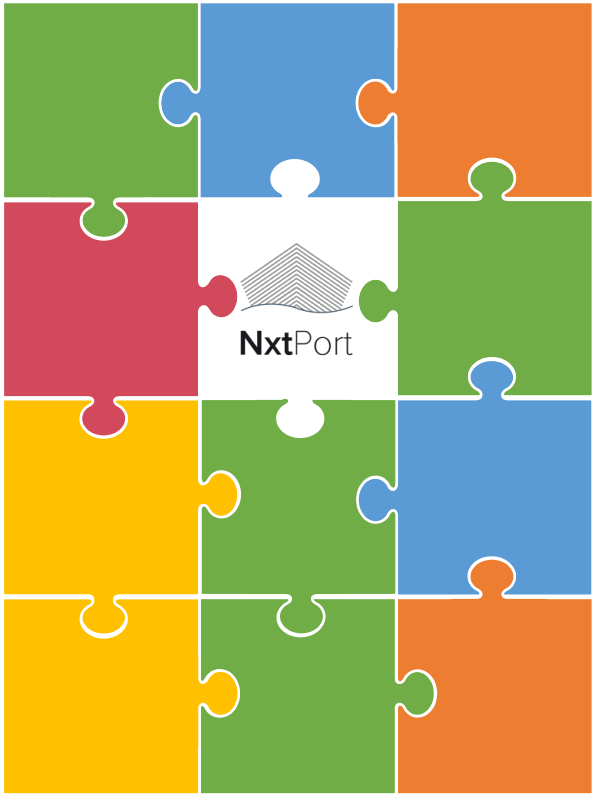




The NxtPort **data-hubs** provide a common data backbone with a single connection for all stakeholders

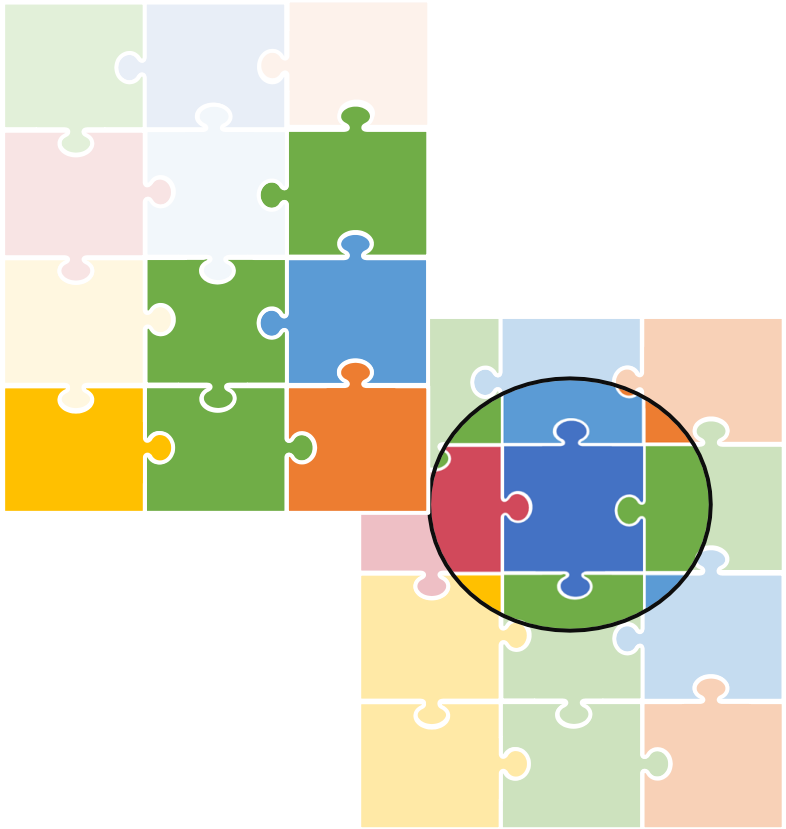
Data from various stages of the supply chain is harmonized and ***chained*** to a single point of truth

This allows collaboration between companies with shared dossiers and transparent audit trails



Not everyone gets to see the entire puzzle though we are making the entire puzzle on the data custodian platform.

You get **access:**
to the data elements **that other data providers have given you access to**
OR
to a subset of the puzzle depending your role within the collaborative process



Together.

Collaboration as a coalition of the willing

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NxtPort's Vision

To make our ports and the related transport & logistics chain **better**, **safer**, more **efficient** and more **profitable…**

& Mission

…by unlocking the potential of

sharing, combining and applying existing DATA

among the port's players.

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We are a trusted party.
Thanks to our golden principles

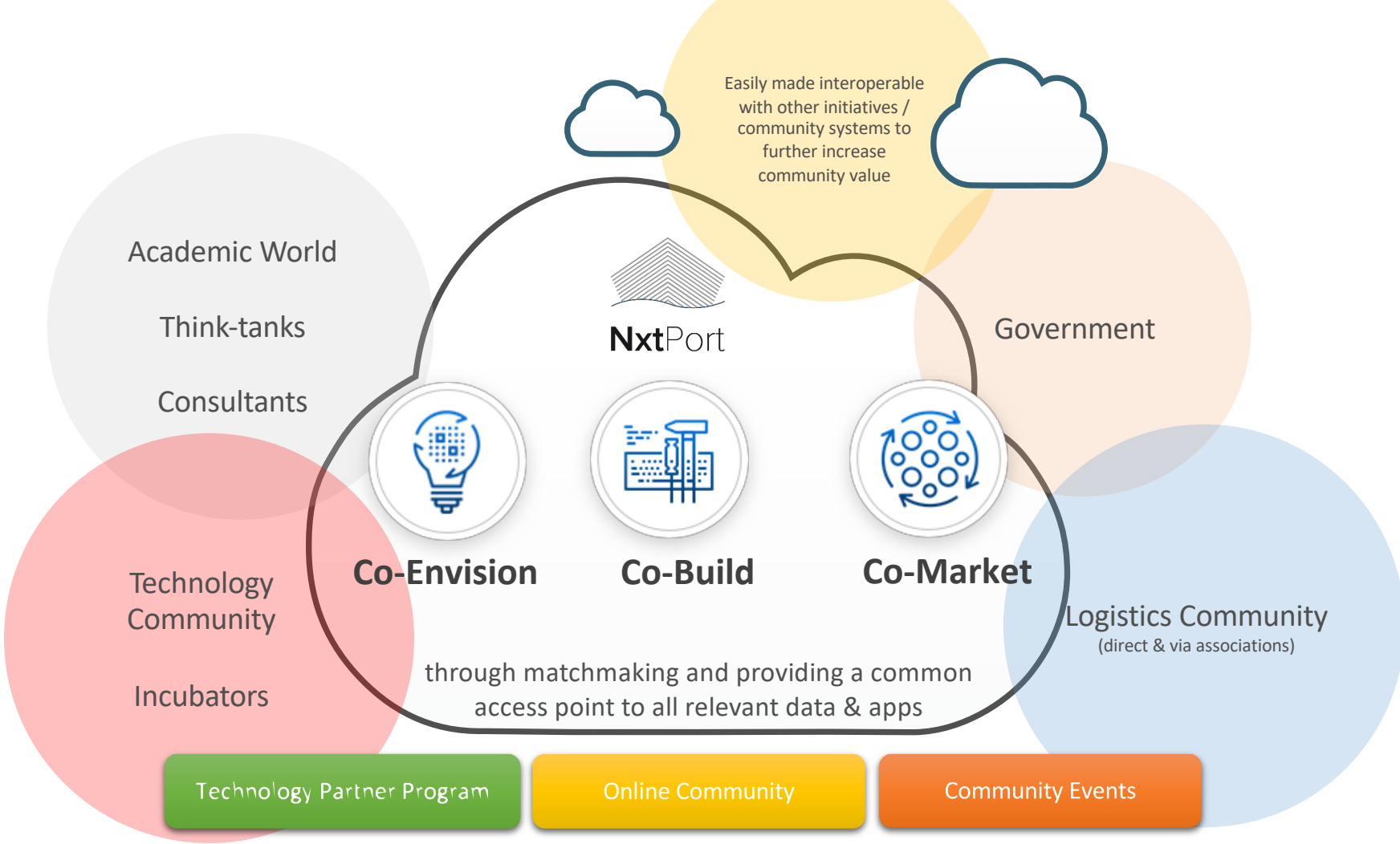
Data Custodian
Data Governance within control of data owners

Community Facilitator
Bringing together different stakeholders

Co-Creation Platform
Open innovation fosters efficiency in port operations

Data & Solutions Marketplace
Monetisation of data allows new business models

Open for everyone, cost+ business model
Benefits (or value at stake) falls within the industry


Easily made interoperable with other initiatives / community systems to further increase community value
Academic World
Think-tanks
Consultants
NxtPort
Government
Co-Envision
Co-Build
Co-Market
Technology Community
Incubators
Logistics Community
(direct & via associations)
through matchmaking and providing a common access point to all relevant data & apps
Technology Partner Program
Online Community
Community Events

A look at some of the available **assets** on our **marketplace**

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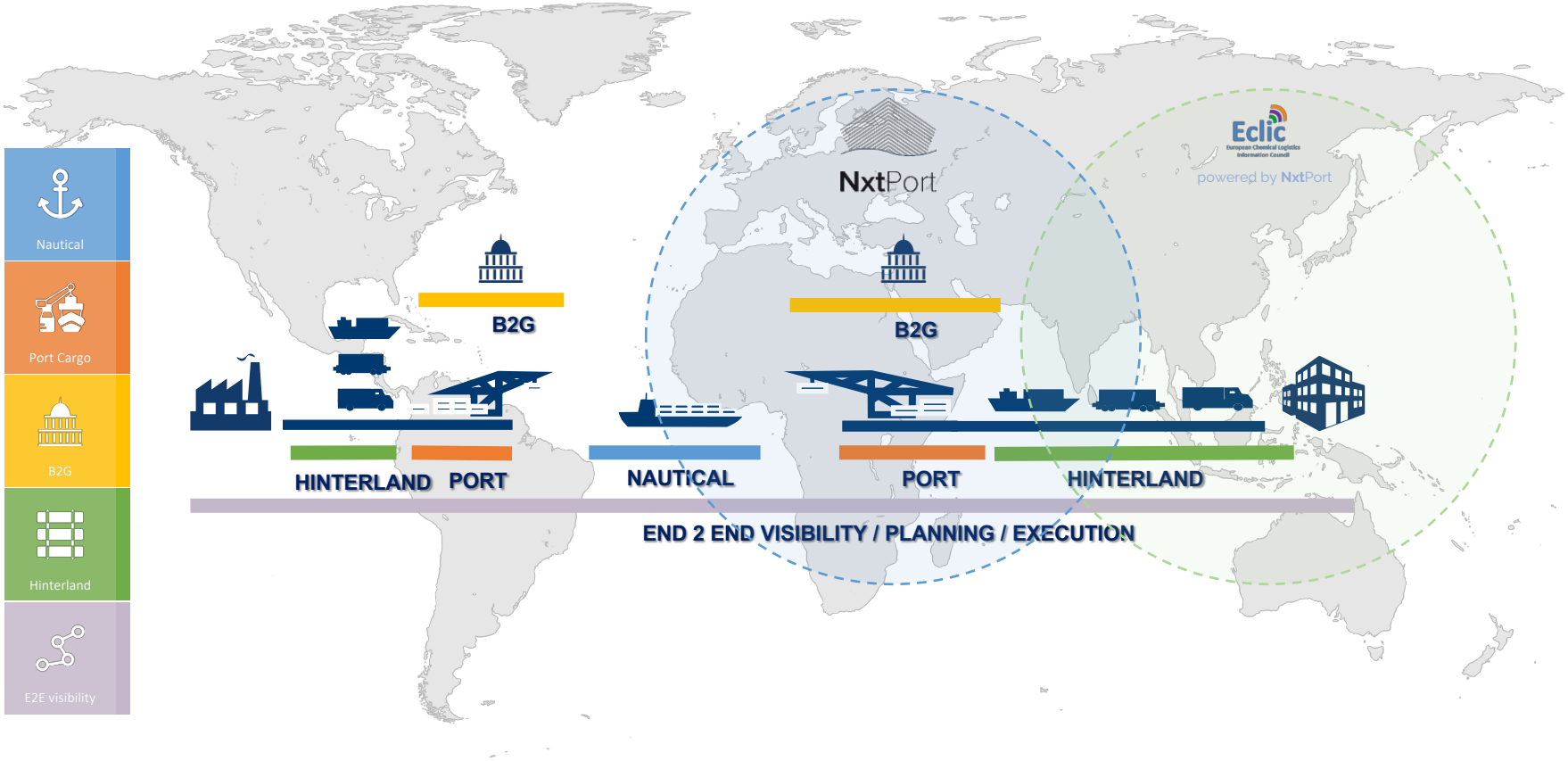
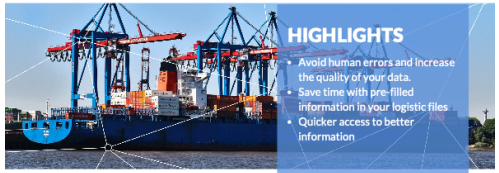

Nautical
Port Cargo
B2G
Hinterland
E2E visibility
NxtPort
Eclic
European Chemical Logistics Information Council
powered by NxtPort
B2G
B2G
HINTERLAND
PORT
NAUTICAL
PORT
HINTERLAND
END 2 END VISIBILITY / PLANNING / EXECUTION

NXTPORT FACTSHEET

VESSEL STAY API

LOOK UP A VESSEL'S **BASIC** STAY INFORMATION



HIGHLIGHTS

- Avoid human errors and increase the quality of your data.
- Save time with pre-filled information in your logistic files
- Quicker access to better information

Real-time Vesselstay information

C-Point, the platform for efficient digital communication between all players in the port of Antwerp, offers a web page to retrieve the vessel stay information by entering an IMO number or a ship's name. The system shows general information about the ship itself and a list of recent (a maximum of 2 months old) or upcoming stays of the corresponding ship.

Our Vessel Stay API retrieves this information from C-Point and returns vessel and vessel stay information for a valid IMO number, allowing organization to connect applications with real-time information about the ship's stay.

Do you want even more information? Check out the Portcall+ API!

DATA USERS

- Everyone who is in any way part of the Antwerp 'port ecosystem'

DATA PROVIDERS

- C-Point

RELATES TO

- Portcall+

About NxtPort

NxtPort is a data utility platform that collects and pools data from various stages in the supply chain. The platform allows improved data sharing, which will in turn lead to more transparency and efficiency, and easier interoperability between existing platforms.

NxtPort

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Import Consignment

RE-USE THE CARGO INFORMATION DIGITALLY

HIGHLIGHTS

- Avoid human errors and increase the quality of your data.
- Save time with pre-filled information in your logistic files
- Quicker access to better information

Optimize Customs Declaration

The Import Consignment Data API exposes the import information from CUSCAR messages, allowing it to be re-used digitally by any party in the supply chain.

With a key based on the BL number, the data can be gathered from the NxtPort platform and re-used in any application or use case, eliminating retyping, human errors, mistakes in structure and semantics, and so on.

DATA USERS

- Beneficial cargo owners
- Custom declarants
- Authorities

DATA PROVIDERS

- Shipping agents

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CCRM

CUSTOMS CONTAINER RELEASE MESSAGE

HIGHLIGHTS

- Get the most accurate customs status
- Avoid fines for unlawful removal from the terminal
- Better feedback about type of inspection on container level

Customs Container Status

The NxtPort CCRM API provides the most accurate Customs Status on container level. It allows automatic updates when a container is released or selected for documentary or physical inspection.

Terminals can use this information to check if a container is allowed to be loaded onto a truck, rail or barge. Agents use this information to verify if the unloaded cargo was correctly cleared for import.

DATA USERS

- Terminals
- Forwarders
- Shipping agents

DATA PROVIDERS

- Customs Authorities

RELATES TO

- Green Lights

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NMoT

ANNOUNCE THE NEXT MODE of TRANSPORT TO THE TERMINAL

HIGHLIGHTS

- Optimize stacking of containers for hinterland pick-up
- Reduce the turnaround time at terminal
- Access all connected terminals via centralised API

Increased Haulage Efficiency

The Next Mode of Transport API allows forwarders, hinterland operators and beneficial cargo owners to submit information on the Next Mode of Transport of import containers. NxtPort passes that information along to the terminal, who can use it to optimise yard planning and the container pick-up process.

DATA USERS

- Terminals

DATA PROVIDERS

- Truck / Barge / Rail operators
- Forwarders
- Beneficial cargo owners

RELATES TO

- Green Lights

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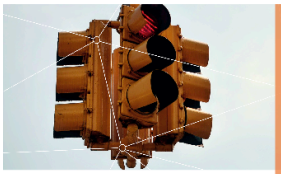
Green Lights

CHECK THE RELEASE STEPS OF YOUR CONTAINER IN THE IMPORT PROCESS



HIGHLIGHTS

- Pick-up container closer to the actual release moment
- Improve the operational insight
- Avoid unnecessary showups
- Access all connected terminals through a centralised API

Container Release Status

The pickup of an import container at the deep-sea terminal is subject to several releases, given by different parties: Customs release, commercial release, container availability on the yard, and possible blocks by the terminal.

Making this information centrally available from all terminals, allows for faster pickup of containers, better insight for all parties in the supply chain, better integration of the haulage process, etc.

DATA USERS

- Truck / Barge / Rail operators
- Forwarders
- Beneficial Cargo Owners

DATA PROVIDERS

- Terminals (and indirect shipping agents and customs)

RELATES TO

- NMoT

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eBalie+ notifications

GET REAL-TIME INFORMATION ABOUT THE STATUS OF YOUR EXPORT CARGO

HIGHLIGHTS

- Receive automatic updates about cargo you declared.
- Get confirmation from terminals and customs authorities
- Improve your operational insight

Automatic export cargo updates

The eBalie+ Notification Service is an additional service for C-Point eBalie users.
Companies can subscribe to be automatically notified on specific events occurring on the cargo they have declared.

The service is available for all types of export declarations and the pre-announcements of NCTS transit declarations, for containerised and ro/ro cargo.

Companies can subscribe to receive up to 3 event types:

- Arrival of a container or ro/ro cargo at the terminal
- Departure of a container or ro/ro cargo from the terminal
- Exit confirmation (goods have left the EU) by the Customs Authorities - for export declarations only

DATA USERS

- Forwarders
- Shippers

DATA PROVIDERS

- Terminals
- Customs

RELATES TO

- eBalie

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NxtPort C-point

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Arrival at Exit

BE COMPLIANT FOR THE DIGITAL EXPORT CONTROL SYSTEM (ECS)

HIGHLIGHTS

- Compliance to the Export Control System
- Charge Report vs CODECO
- Ready for Digital Export Manifest

Arrival at Exit

Terminals notify Custom Authorities when an export container leaving the EU arrives at the terminal.

With the Arrival at Exit API, NxtPort offers an unburdening solution for terminals and a pass-through for in-house solutions.
The information can be used by other actors in the supply chain to improve the E2E visibility of cargo flows.

DATA USERS

- Terminals
- Forwarders
- Customs Authorities

DATA PROVIDERS

- eBalie
- Terminals

RELATES TO

- Digital Export Manifest

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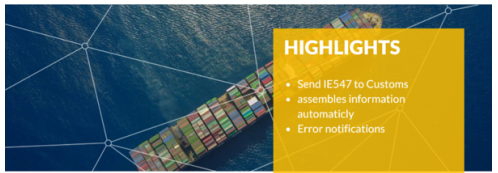
Export Manifest

IE547 - DIGITAL EXPORT MANIFEST



HIGHLIGHTS

- Send IE547 to Customs
- assembles information automaticly
- Error notifications

Automated Export Manifest

The shipping agent calls the information in an APP through the API of NxtPort. NxtPort builds the Export Manifest based on the COARRI-messages supplemented with the Customs Status from eBalie and staynumber from APCS. The shipping agent checks the content of the Export Manifest and confirms in the APP to send the message to Customs via NxtPort. After the Customs Response the shipping agent will be able to adjust possible errors or modifications.

DATA USERS

- Shipping agents

DATA PROVIDERS

- eBalie
- Terminals

RELATES TO

- Arrival at Exit - IE507

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Bulkchain

The break bulk data hub**.**

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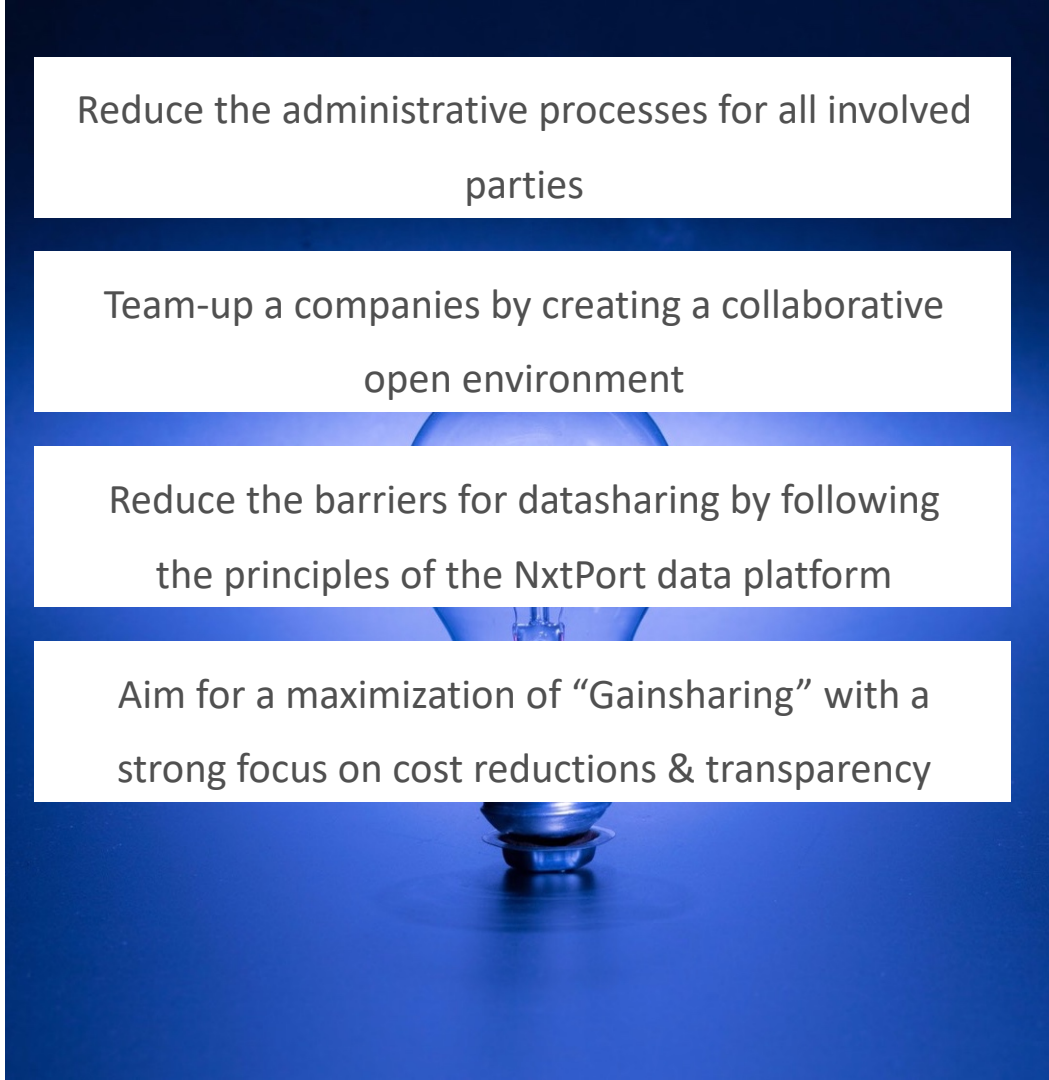
Scope of the project

Reduce the administrative processes for all involved parties

Team-up a companies by creating a collaborative open environment

Reduce the barriers for datasharing by following the principles of the NxtPort data platform

Aim for a maximization of “Gainsharing” with a strong focus on cost reductions & transparency



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For who?

- Forwarder / Shipper
- Terminal
- Shipping agent
- Customs
- Transport operators (Multi modal)
- Consignee
- Insurance companies, surveyors, …

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bulkchain

Principles & guidelines

Low Entry Barrier > every involved party will be able to participate without development needs

Agile project approach to speed-up go-to-market

Open for developers to add additional functionality (eg booking/eBoL/cargo subscription…)

Shared responsibility throughout the entire supply chain, starting with the consignor

Not limited to Port of Antwerp. Any port interested in joining the port of the future is welcome

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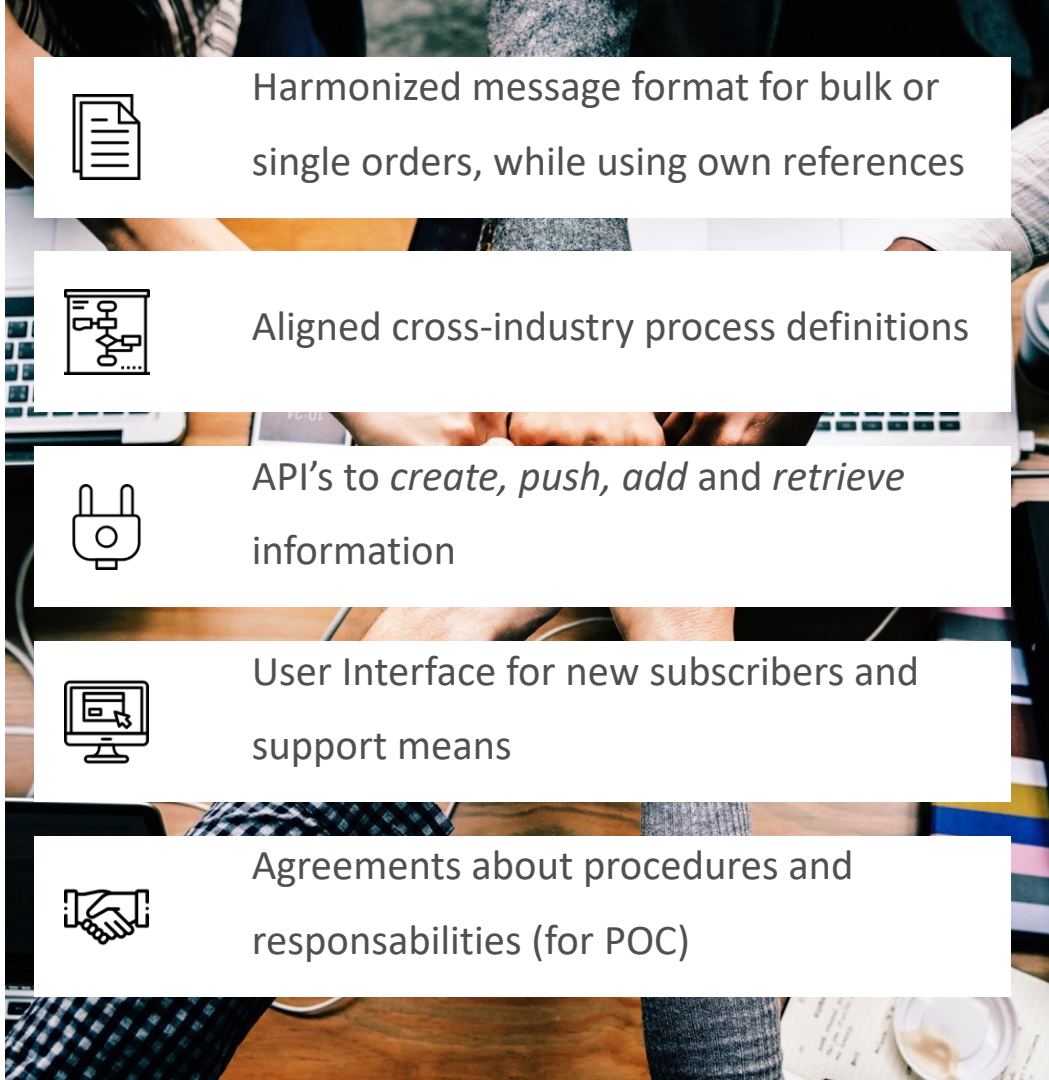
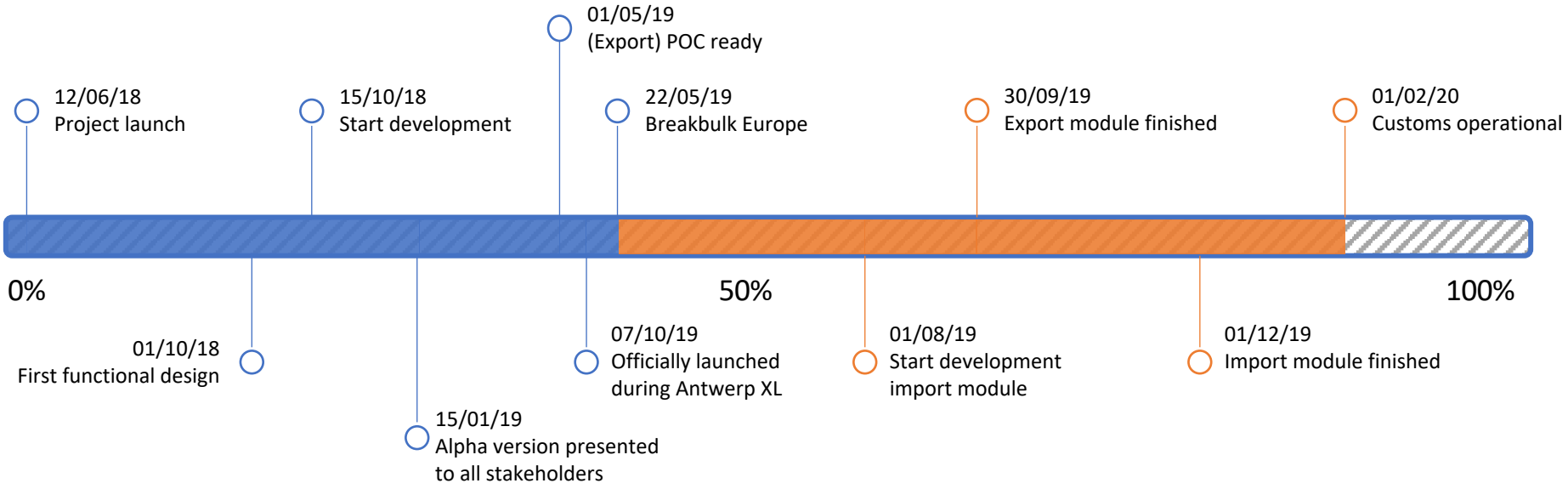
Achievements so far



- Harmonized message format for bulk or single orders, while using own references
- Aligned cross-industry process definitions
- API's to *create, push, add* and *retrieve* information
- User Interface for new subscribers and support means
- Agreements about procedures and responsabilities (for POC)

Bulkchain timeline



Excited to join the port of the future?

Time for questions

Or visit us at the **Belgian pavilion** for all info!

www.nxtport.com