

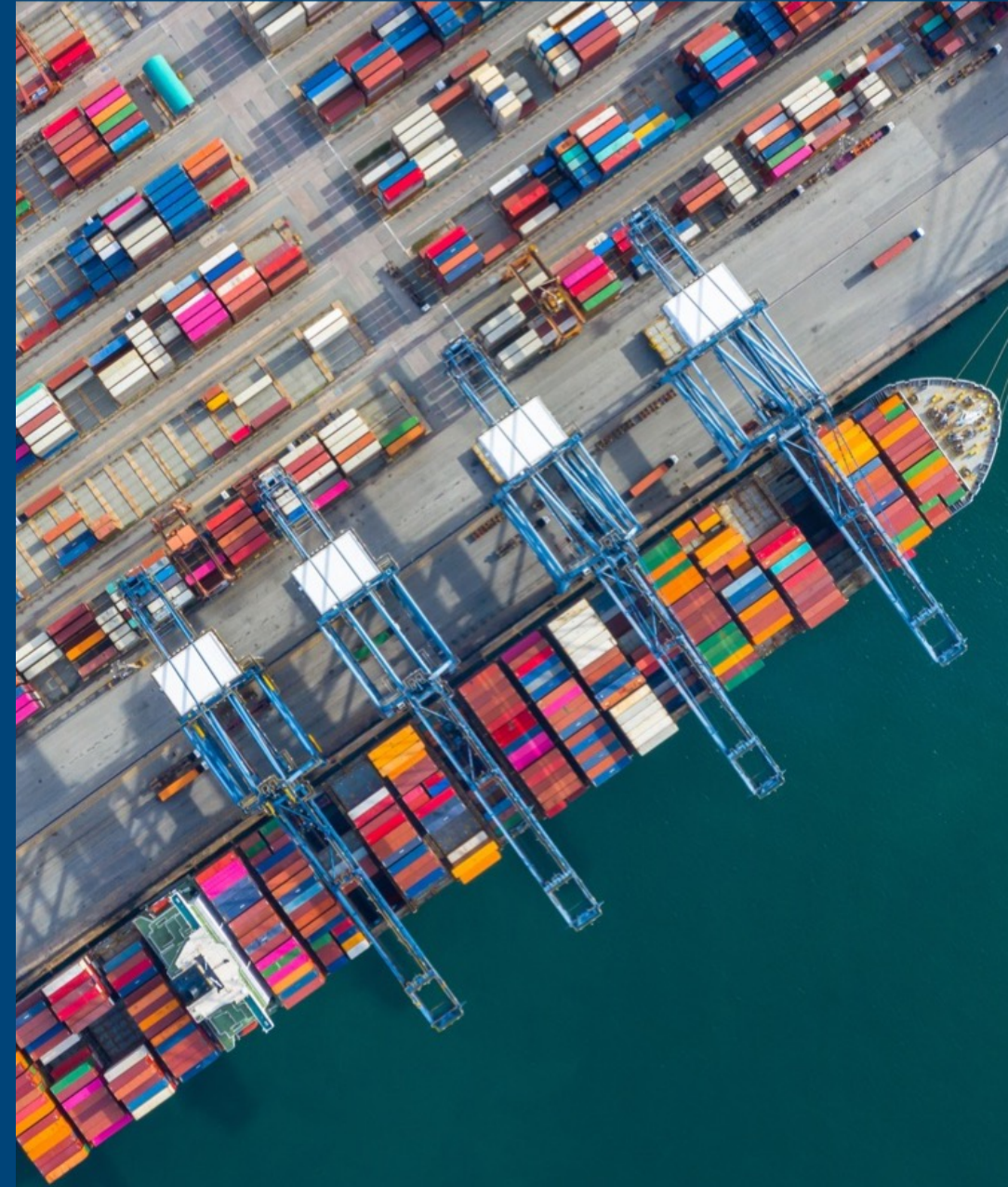
Digitisation in port logistics

Building smart port communities with unified data standards

2023

portbase[®]

Keeping
things
moving



Mission

We build the smartest port communities.

Together we increase the potential of data for seamless, sustainable and secure trade flows.

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Meet Portbase

Neutral platform with national coverage that serves as a stable basis for operational excellence in Dutch ports.

- National Port Community System (PCS) since 2002
- Non-profit organisation, utility
- Shareholders: Port of Rotterdam (75%) and Port of Amsterdam (25%)
- Leading PCS global, largest PCS in Europe
- From, for and by the port community
- Founding member of International Port Community Systems Association (IPCSEA)



What is a **Port Community System**

“A Port Community System is not an IT project, but a change management project.”

Javier Gallardo, Portic (IPCSA), Red VUCE meeting,

4th December 2014, Cusco, Peru

A Digital Port Community System, according to IPCSA, is :

- a neutral and open electronic platform enabling intelligent and secure exchange of information between public and private stakeholders in order to improve the competitive position of the sea and air ports' communities.
- optimises, manages and automates port and logistics efficient processes through a single submission of data and connecting transport and logistics chains.

A TRUSTED THIRD PARTY

Our vision

Together with our customers, we build platforms and communities that make ports and their supply chains seamless, sustainable and secure.



Trade? It appears so easy!

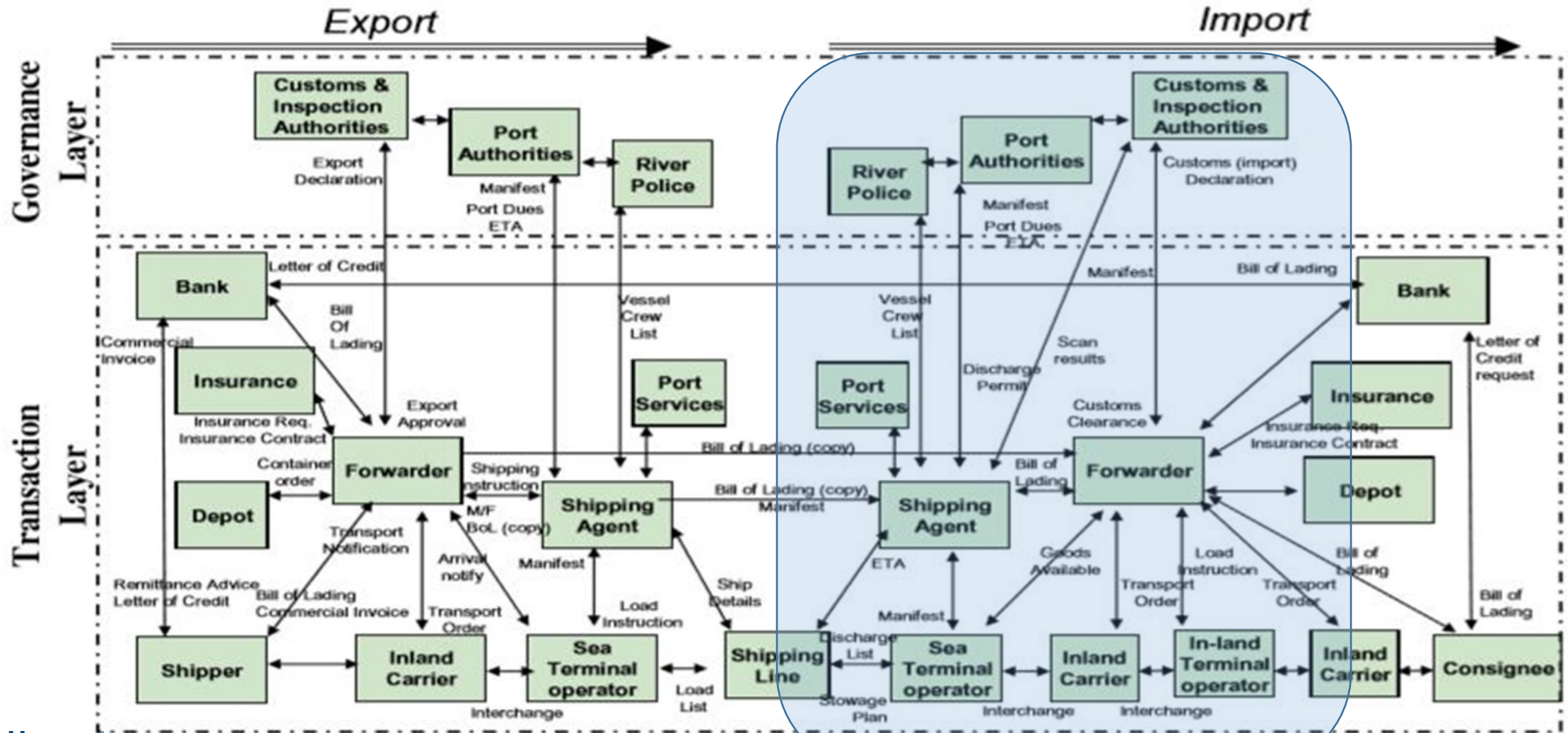


Producer / Seller



Shipper / Buyer

But it's not...

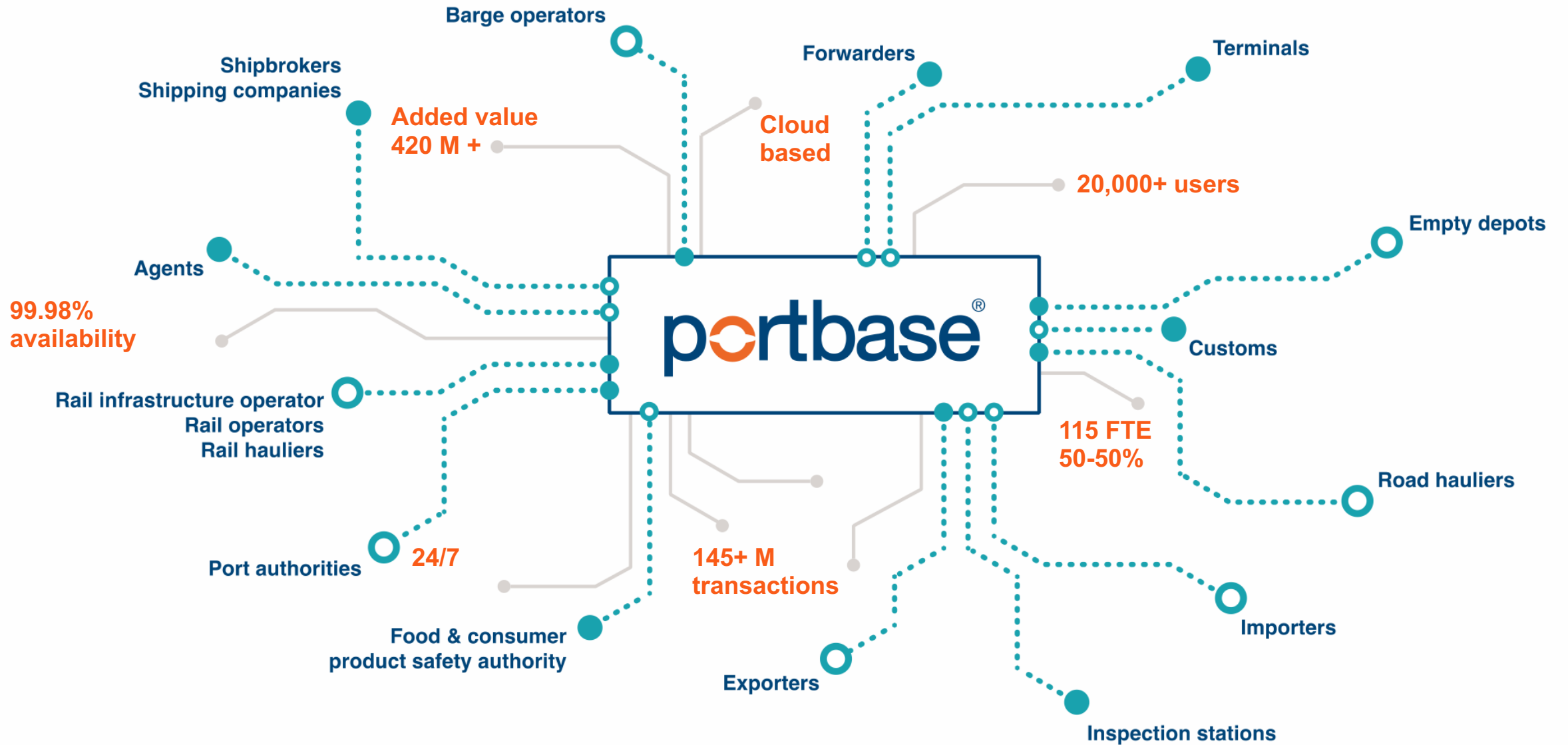


Life in the ports



Without a PCS

With Portbase: a connected port



Why Portbase

Community building & Power to implement

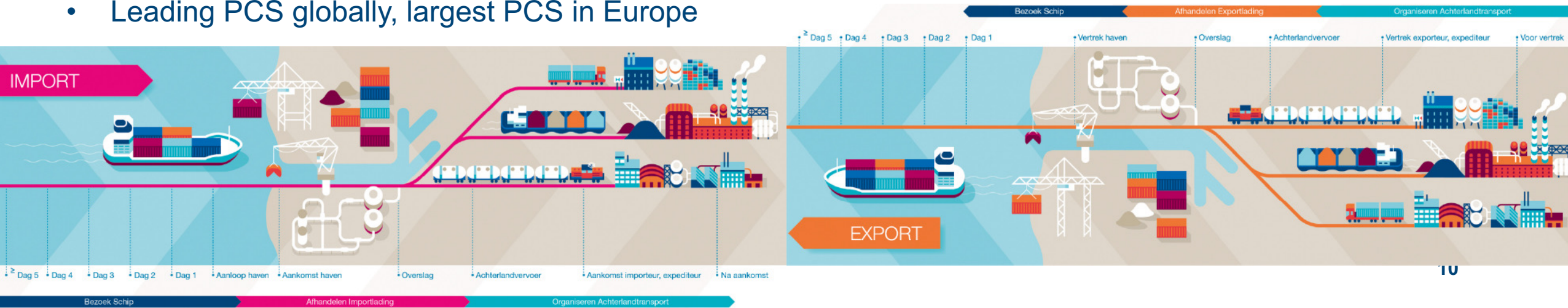
What does Portbase do?

Portbase continually optimises the existing **core processes** in the ports and connects the hinterland supply chains.

- License to operate for the purpose of the port community
- Cost-effective & neutral
- Improve efficiency, lower supply chain costs
- Leading PCS globally, largest PCS in Europe

What do the Portbase services offer?

- 44 existing solutions / services
- High market and data coverage
- Standardised processes at large terminals
- Easy to use and connect to



Benefits for the community

Costs

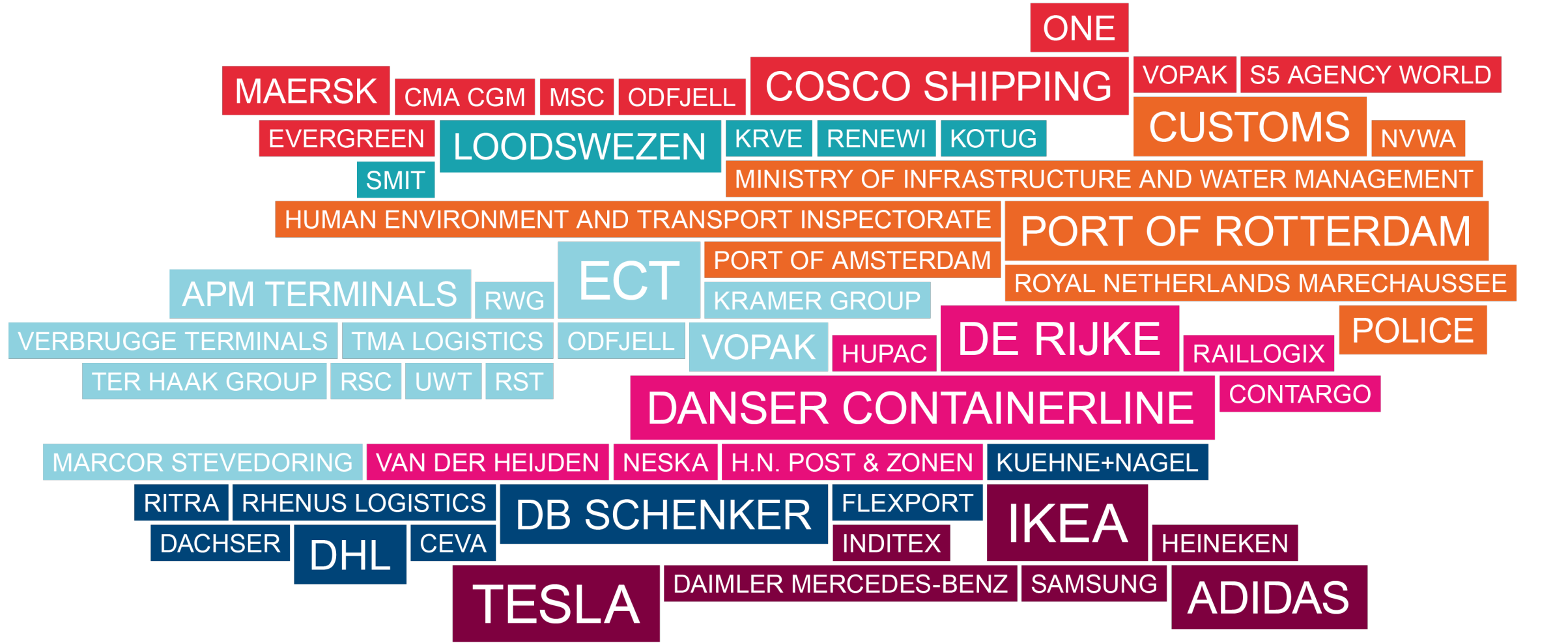
- Supply chain costs
- Turn-around times of vessels in port
- Costs per ship visit
- Terminal handling / storage costs
- Turn-around times hinterland transport operators
- Occupancy rate transporters
- Turn-around time cargo / equipment

Value

- Supply chain quality
- Cooperation
- Optimisation
- Connectivity (IT & Supply Chain)
- Controlability
- Speed
- Safety
- Transparency



What does our community look like?



150

10

15 (+25)

130

1,400

1,200+

1,000+

SHIP AGENCIES & SHIPBROKERS SERVICE PROVIDERS GOVERNMENT & PORT AUTHORITIES TERMINALS TRANSPORT COMPANIES FREIGHT FORWARDERS EXPORTERS & IMPORTERS

Our clients in Europe

→ Portbase, largest
PCS community in Europe



Services in four port domains on one platform

Ships' calls

Services for agents, shipping lines and cargo handling agents active in bulk and containers for handling ships' calls.

Import cargo

These services help agents, shipping lines, cargo handling agents, importers and forwarders to import efficiently.

Hinterland transport

Smart services for road, barge and rail sectors.

Export cargo

Services for forwarders, exporters, agents, shipping lines and cargo handling agents for handling export formalities.

7 services

→ 100% ship's calls & customs goods manifests

18 services

→ 100% customs
→ 40% cargo info

8 services

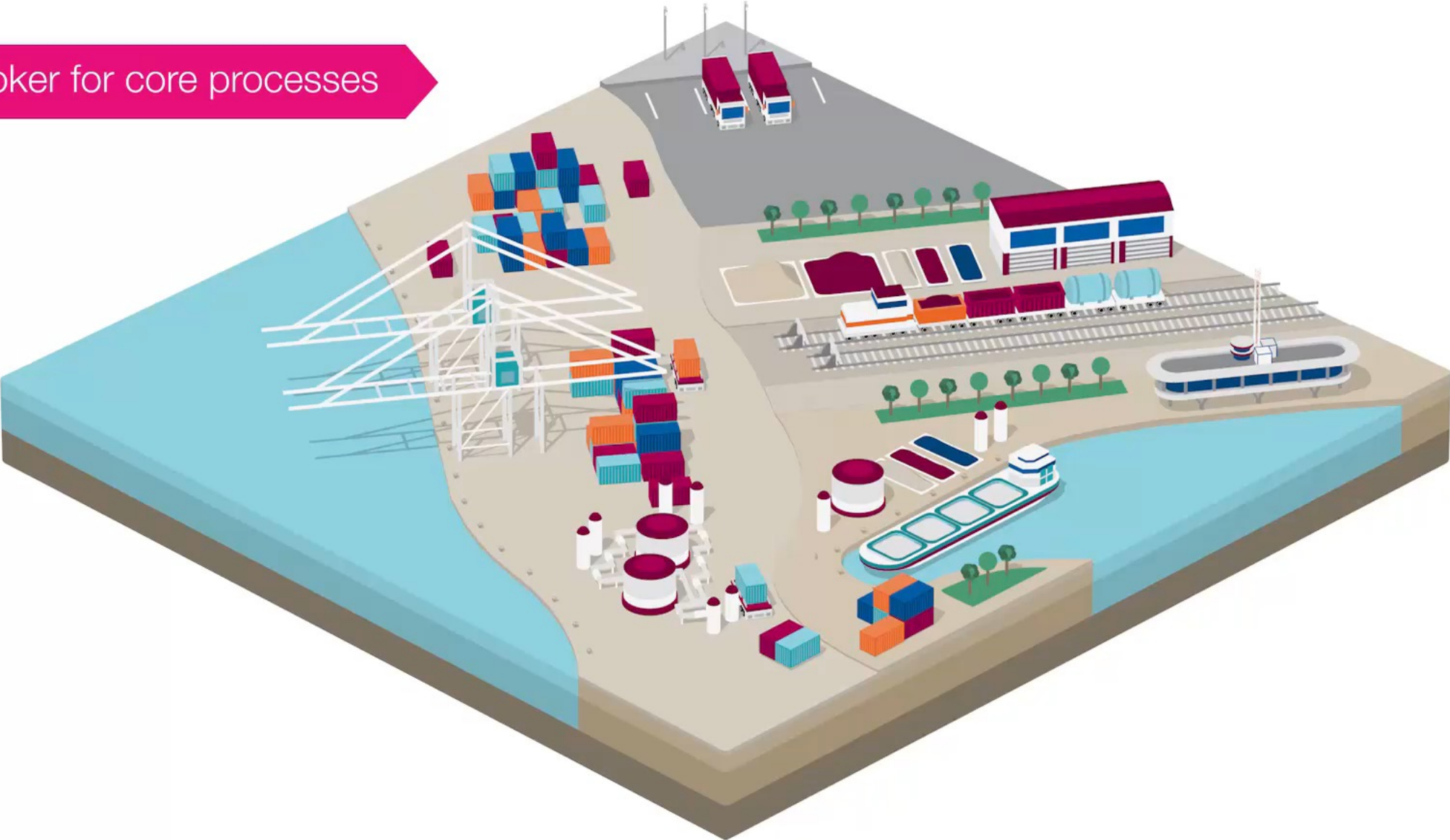
→ 100% pre-notification

11 services

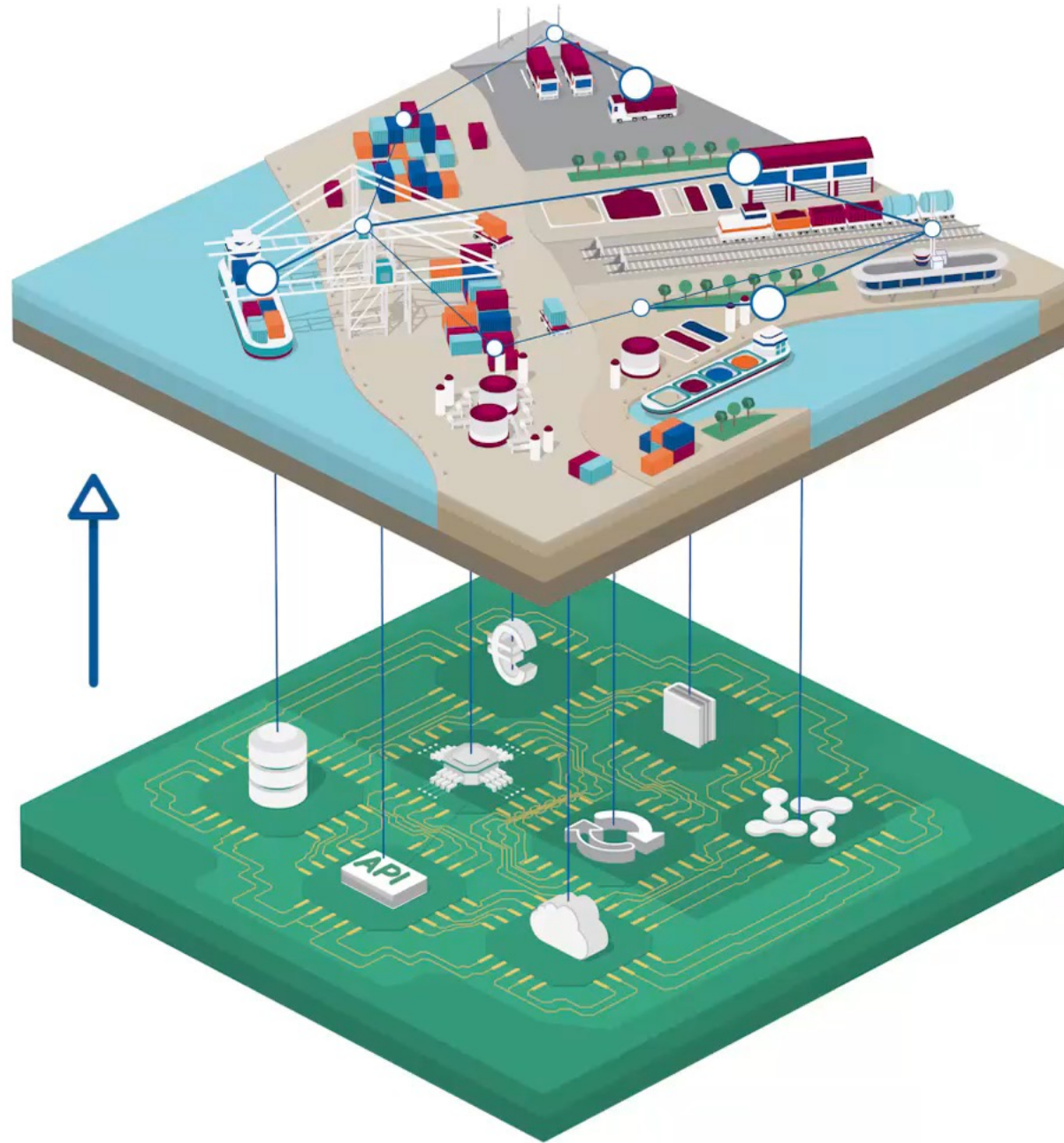
→ 100% customs



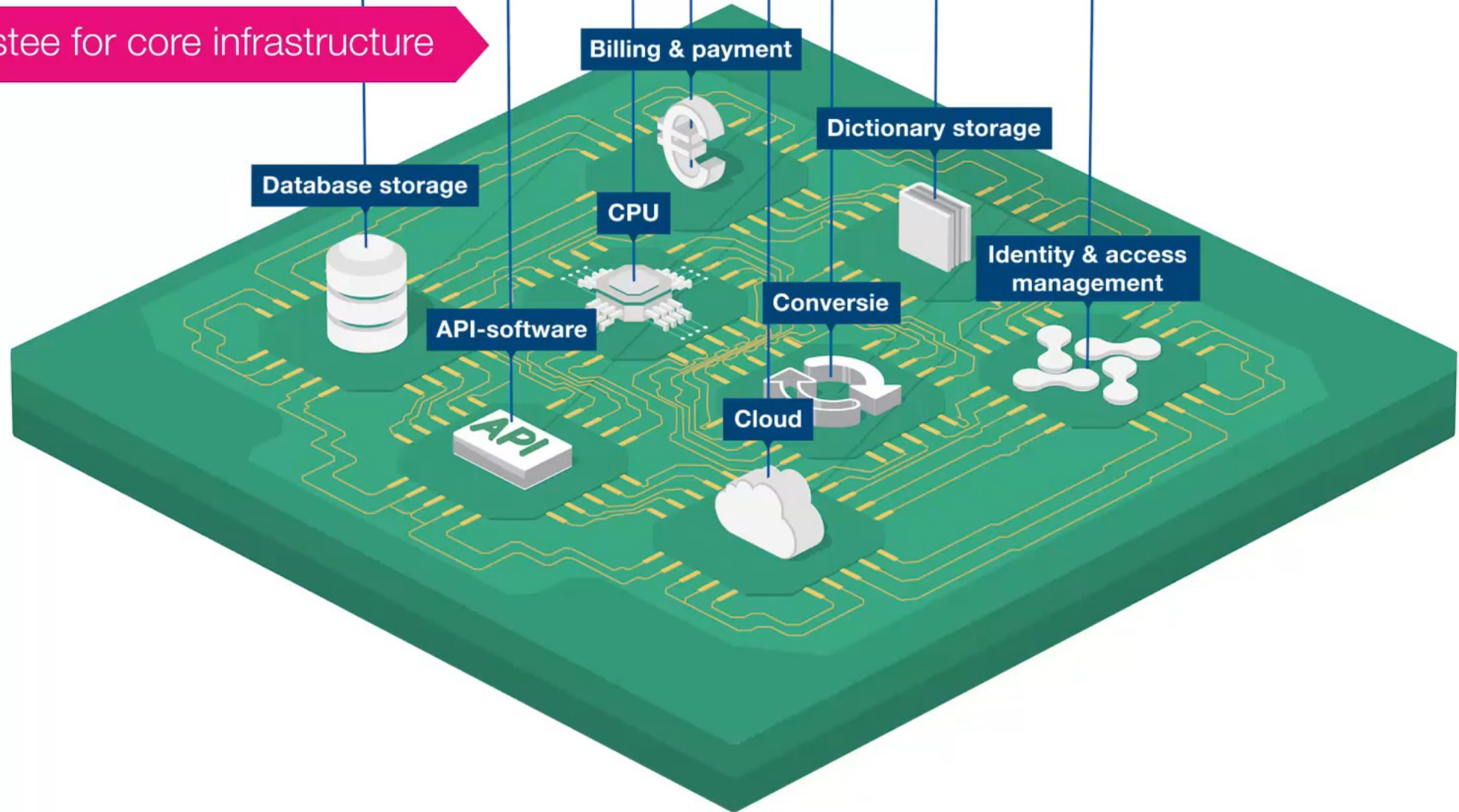
Data broker for core processes

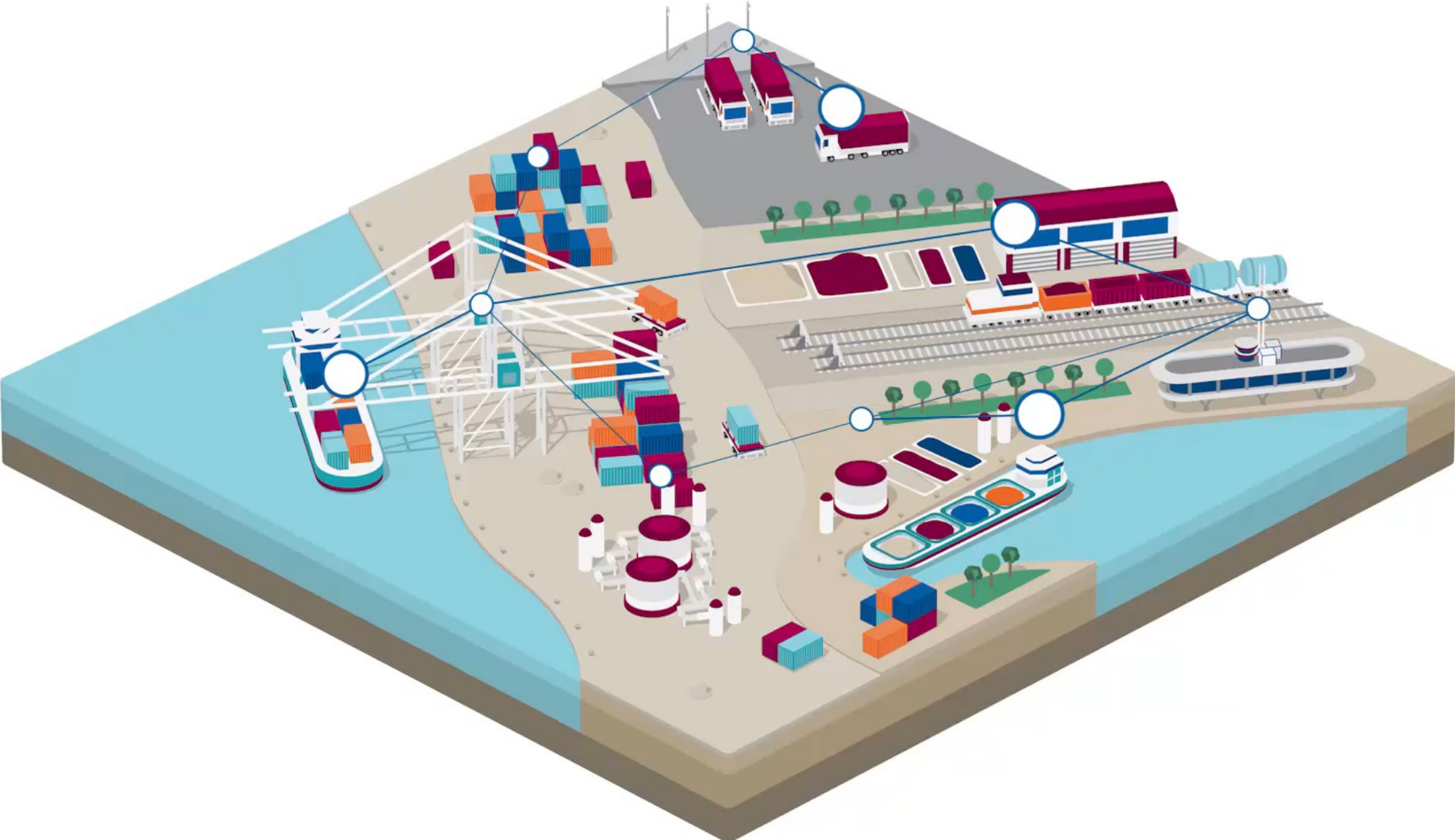


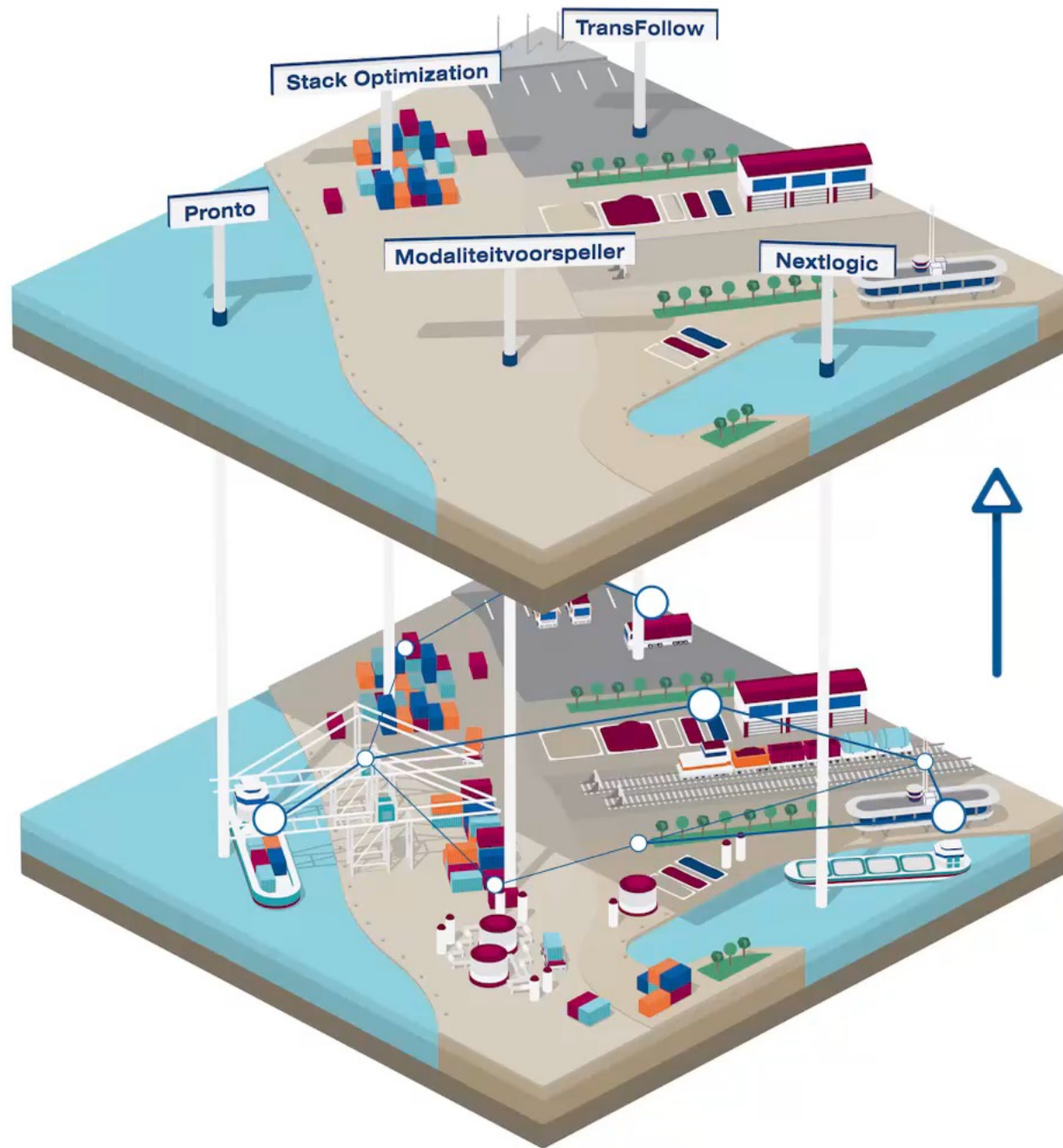
Integration
services



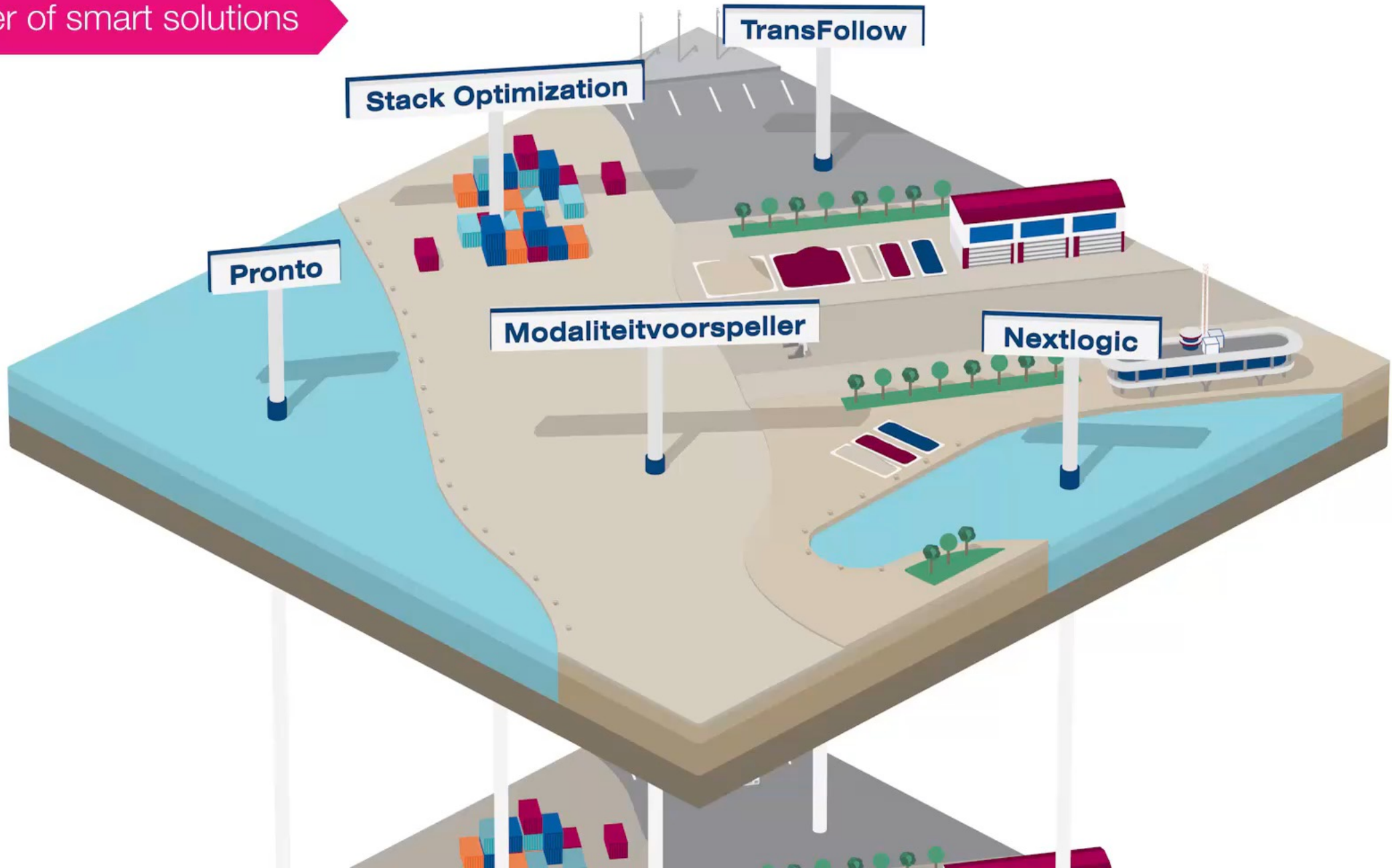
Data trustee for core infrastructure



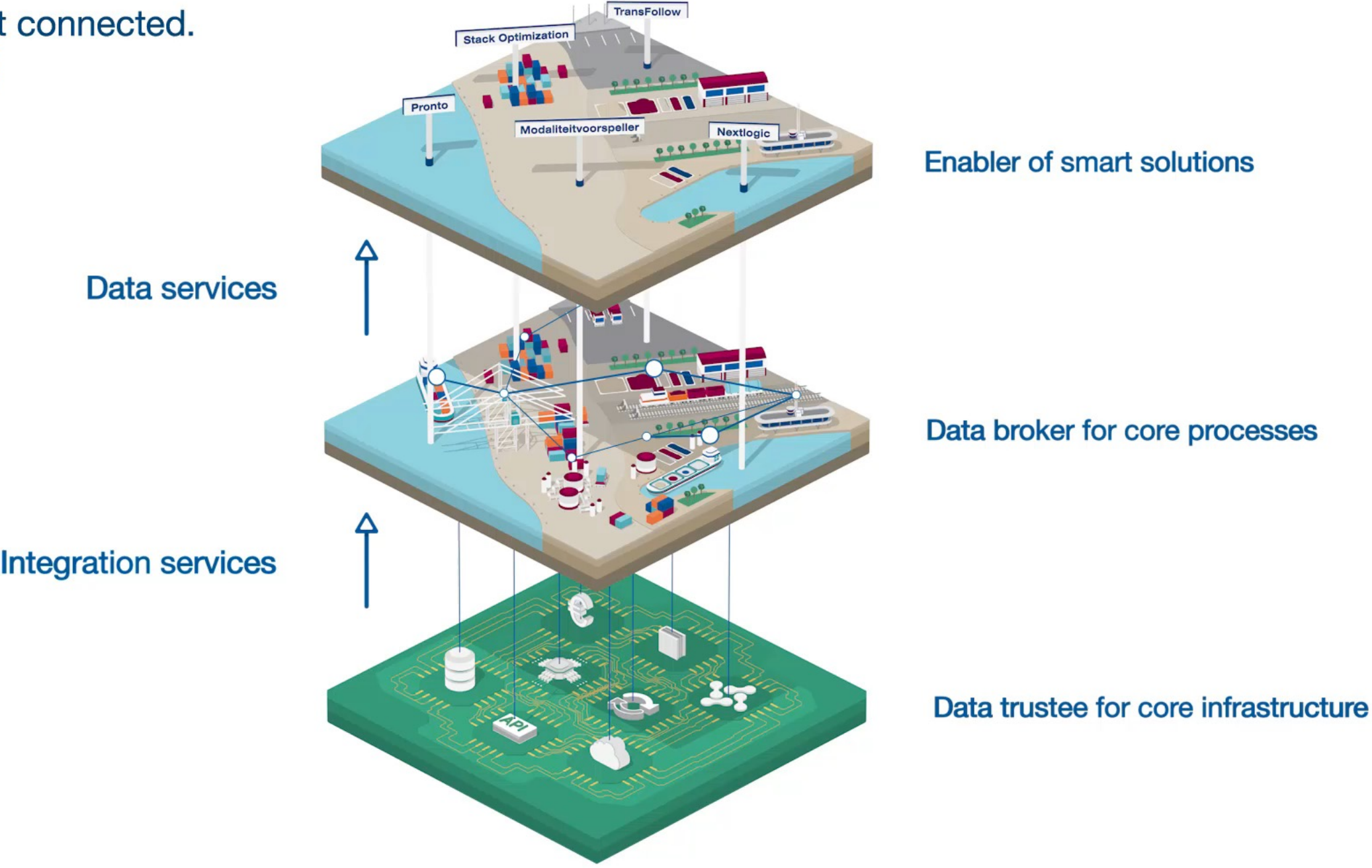




Enabler of smart solutions



be smart. get connected.
portbase®

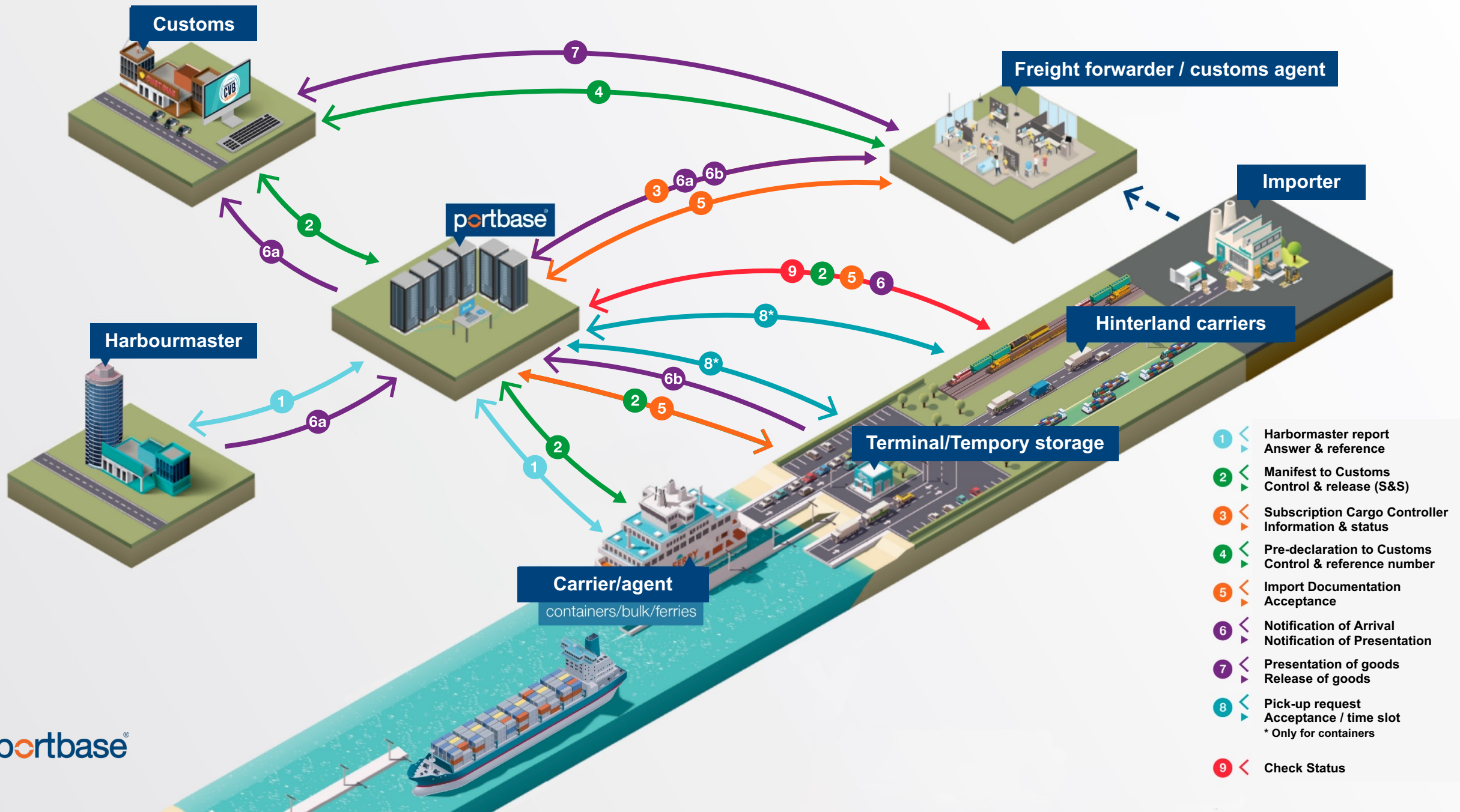


How it works

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- 1 < Harbourmaster report
Answer & reference
- 2 < Manifest to Customs
Control & release (S&S)
- 3 < Subscription Cargo Controller
Information & status
- 4 < Pre-declaration to Customs
Control & reference number
- 5 < Import Documentation
Acceptance
- 6 < Notification of Arrival
Notification of Presentation
- 7 < Presentation of goods
Release of goods
- 8 < Pick-up request
Acceptance / time slot
* Only for containers
- 9 < Check Status

Cargo Controller (tracking vessels)

portbase

Cargo Controller

+ Add



S

INCOMING

Cargo

Vessels

GENERAL

All vessels

My vessels

Search Vessel name, Call Reference Number ...



1 - 25 of 34 < > ↺

Today

☆	ALLEGRO NLRTM20541456	5556 Terminal	We 05-08-2020 15:15 Arrival (expected)	Fr 07-08-2020 00:15 Departure (expected)	Cancelled ---	Details >
☆	NORD LARKSPUR NLRTM20541469	3253 Terminal	We 05-08-2020 19:30 Arrival (expected)	Fr 07-08-2020 11:30 Departure (expected)	Cancelled ---	Details >
★	SYNERGY BUSAN NLRTM21000152	Euromax Terminal B.V. Terminal	Tu 12-01-2021 17:56 Arrival	We 13-01-2021 12:00 Departure (expected)	Arrived ---	Details >
☆	THALASSA DOXA NLRTM20552275	ECT Delta Terminal B.V. Terminal	Su 07-03-2021 15:17 Arrival	Mo 08-03-2021 12:00 Departure (expected)	Arrived ---	Details >

Other

☆	HMM HAMBURG NLRTM21001445	Rotterdam World Gateway (RWG) Terminal	Tu 09-03-2021 18:00 Arrival (expected)	Fr 12-03-2021 12:00 Departure (expected)	Expected --	Details >
☆	LAGERTHA NLRTM20541481	2897 Terminal	Th 06-08-2020 19:15 Arrival	Sa 08-08-2020 15:14 Departure	Departed ---	Details >
☆	EK-RIVER NLRTM20541451	31073540 Terminal	Fr 07-08-2020 06:28 Arrival	Su 09-08-2020 00:24 Departure	Departed ---	Details >
☆	ATLANTIS ALICANTE NLRTM20541483	8221 Terminal	Th 06-08-2020 20:06 Arrival	Su 09-08-2020 01:53 Departure	Departed ---	Details >
☆	BOMAR HAUMEA NLRTM20541498	4609 Terminal	Mo 10-08-2020 16:36 Arrival	We 12-08-2020 01:37 Departure	Departed ---	Details >

Feedback

Cargo Controller (cargo information)

The screenshot displays the Portbase Cargo Controller interface. On the left, a blue sidebar contains the 'portbase' logo, a 'Cargo / Vessel toggle' button, and navigation options for 'Cargo' and 'Vessels'. The main area is titled 'Cargo Controller' and includes a 'Filter & View options' section with 'GENERAL' (All cargo, My cargo, Not yet available) and 'FILTERS' (Vessel, Discharge, Terminal, Inspection, Local clearance, Import document). A search bar is present with the text 'B/L number, eq'. The main content area shows a list of cargo items, with one item selected and its details expanded in a modal window.

Legend:

- Vessel visit:** Expected (grey line), Arrived (green line)
- Discharge:** Discharge unknown (grey line), Cut & Run (red line), Discharged (green line)
- Customs inspection:** Inspection unknown (grey line), Blocked (yellow line), Scan inspection (yellow line), Physical inspection (terminal) (yellow line), Physical inspection (RIT) (red line), Released (green line)
- Import document:** Importdocument unknown (grey line), Importdocument known (green line)

Terminal Details:

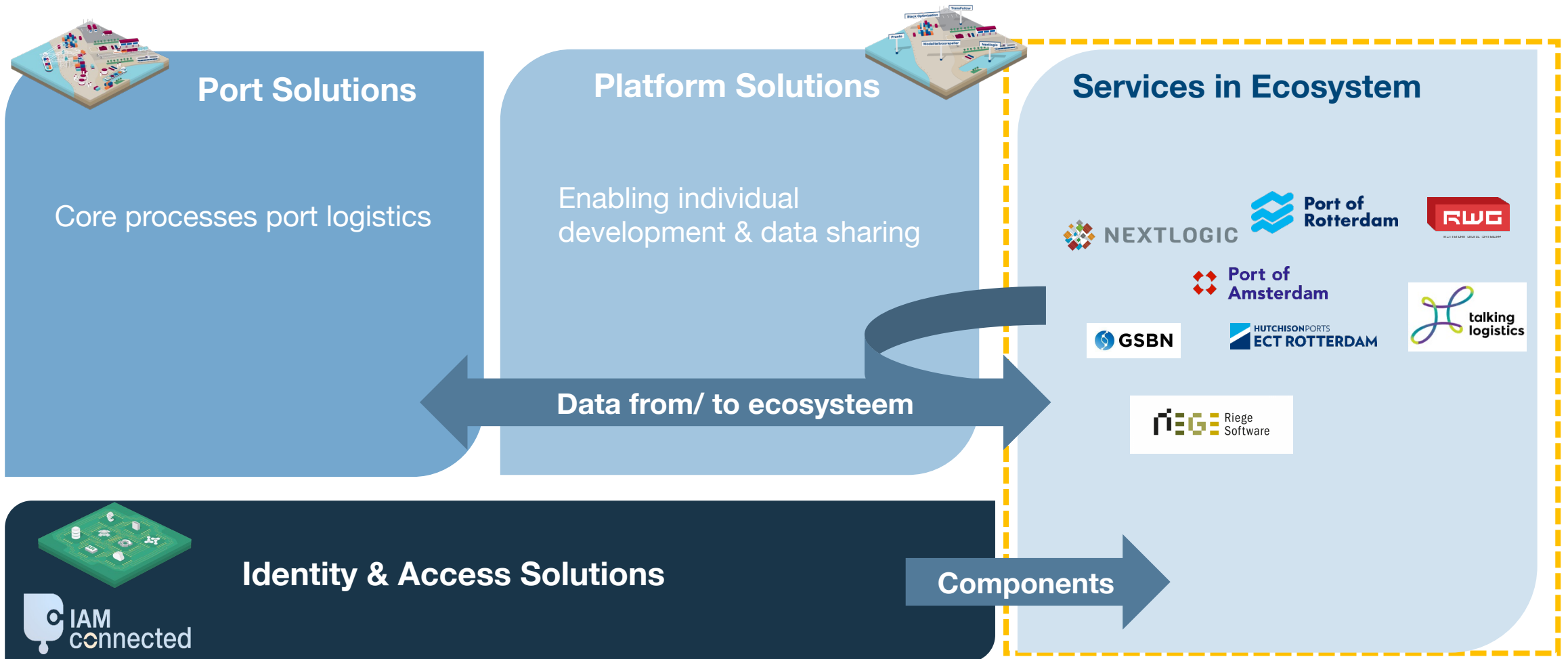
Terminal	Customs
Discharge terminal: EUROMAX	Inspection type: Released
Discharge confirmation: 09-02-2021 22:32	Change date: 10-02-2021 13:11

Cargo Item Details (BLDEMO123456789):

- Equipment number: EITU9137044
- Vessel: COSCO SHIPPING ARIES
- Flag: IMO 9783497
- Arrival: Sa 06-02-2021
- Call reference number: NLRTM21002168

Business lines Portbase

Collective basis supporting individual development



“
**Platform enables
everyone to share
data securely.**”

The screenshot shows a user interface for managing data service sharing. On the left is a navigation menu with items: Consumed data services, Issues, Users, and Organisation settings. The main content area is titled 'Gate out' and has tabs for Overview, Sharing (selected), and Information. Under 'Share settings', there is a question: 'How do you want to share your data service with other organisations?'. Three sharing levels are presented: LEVEL 1 (shopping cart, lock, envelope icons), LEVEL 2 (shopping cart, link, person icon), and LEVEL 3 (shopping cart, link, person icon). A summary box below states 'You have selected Level 1' and 'Your data service is not visible for other organisations in the marketplace'.



The screenshot shows a 'portbase' marketplace interface. A table lists various organisations with their status: INVITED, REQUESTED, CONSUMING, and BLOCKED. A modal window is open for an 'Organisation name', showing details like 'Operational sector' and 'City, country', and a status of 'INVITED since 2021-02-17' with a 'WITHDRAW INVITATION' button.

Organisation name	Status
Operational sector City, country	INVITED
Operational sector City, country	REQUESTED
Operational sector City, country	CONSUMING
Operational sector City, country	CONSUMING
Operational sector City, country	CONSUMING
Operational sector City, country	BLOCKED
Operational sector City, country	BLOCKED

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For more information:

