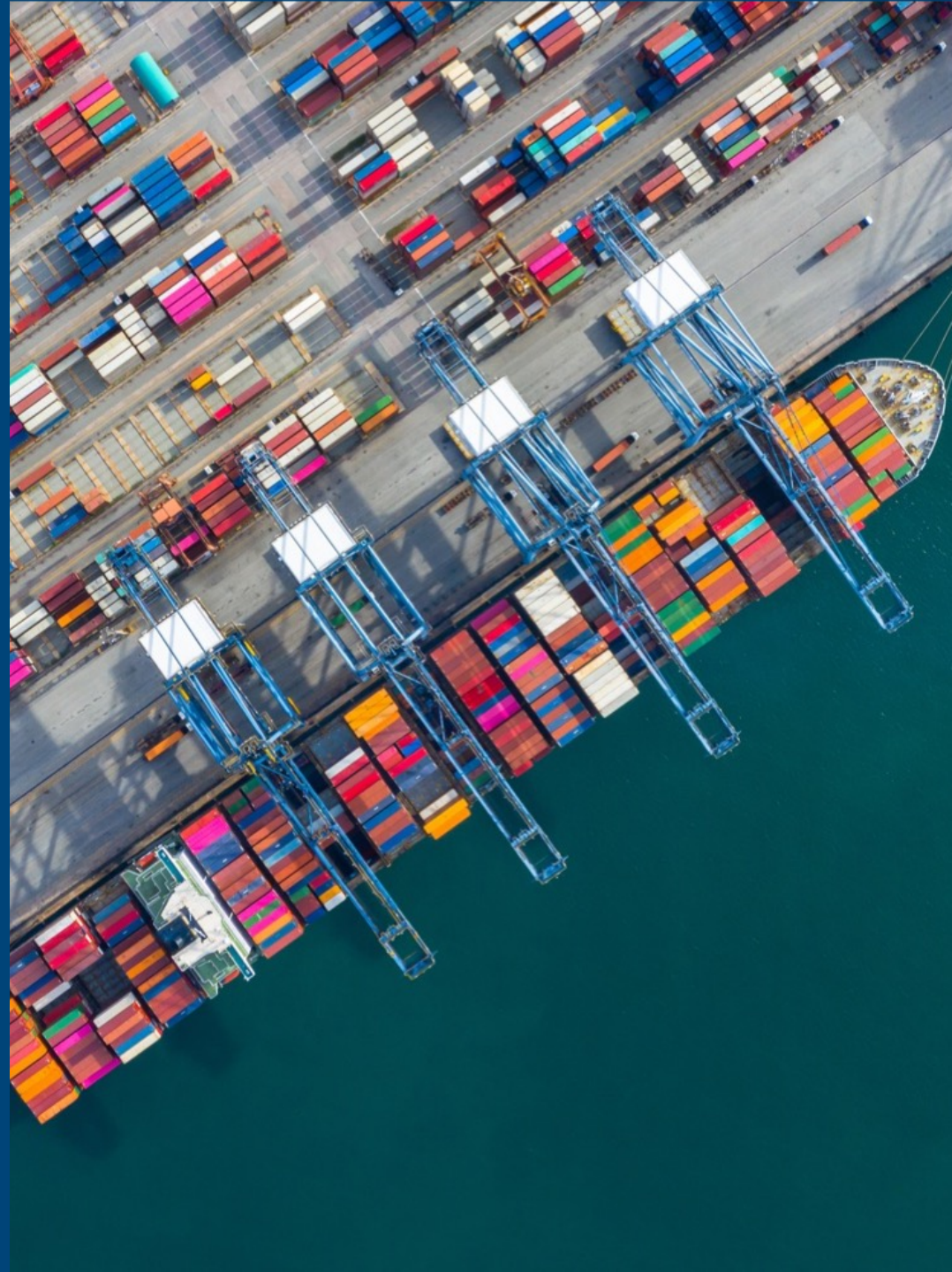
Digitisation in port logistics

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.

portbase®

Keeping things moving

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 (IPCSA)

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

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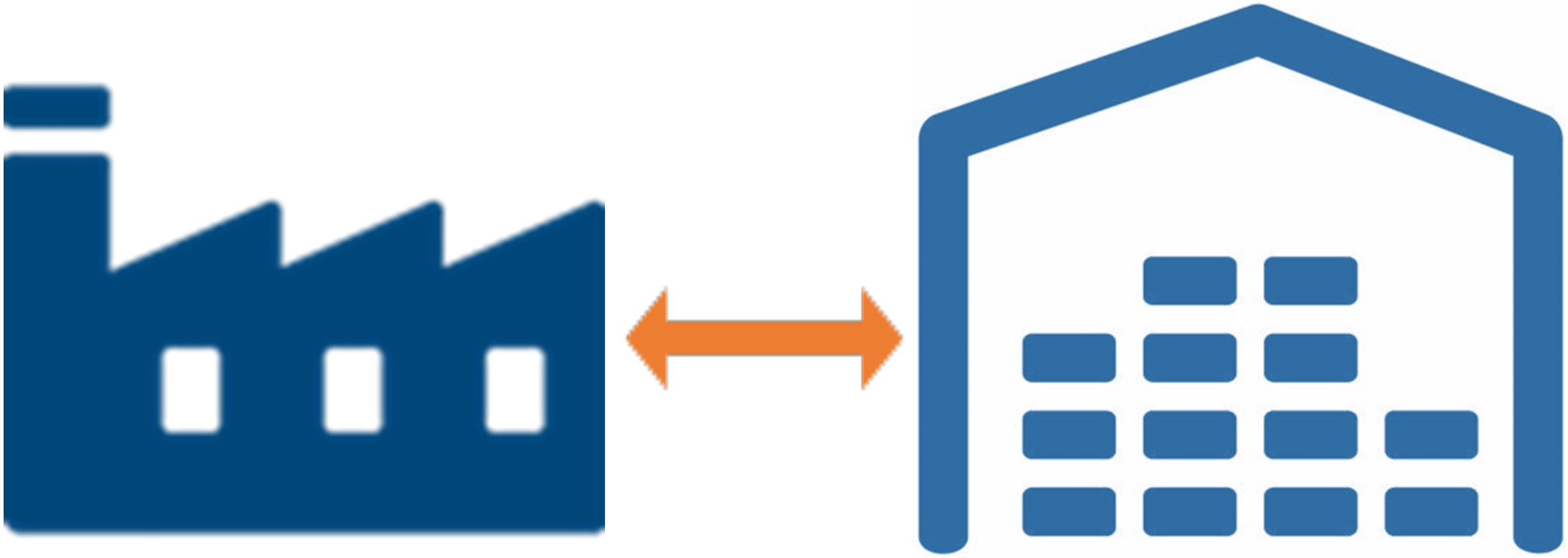
Our vision

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**

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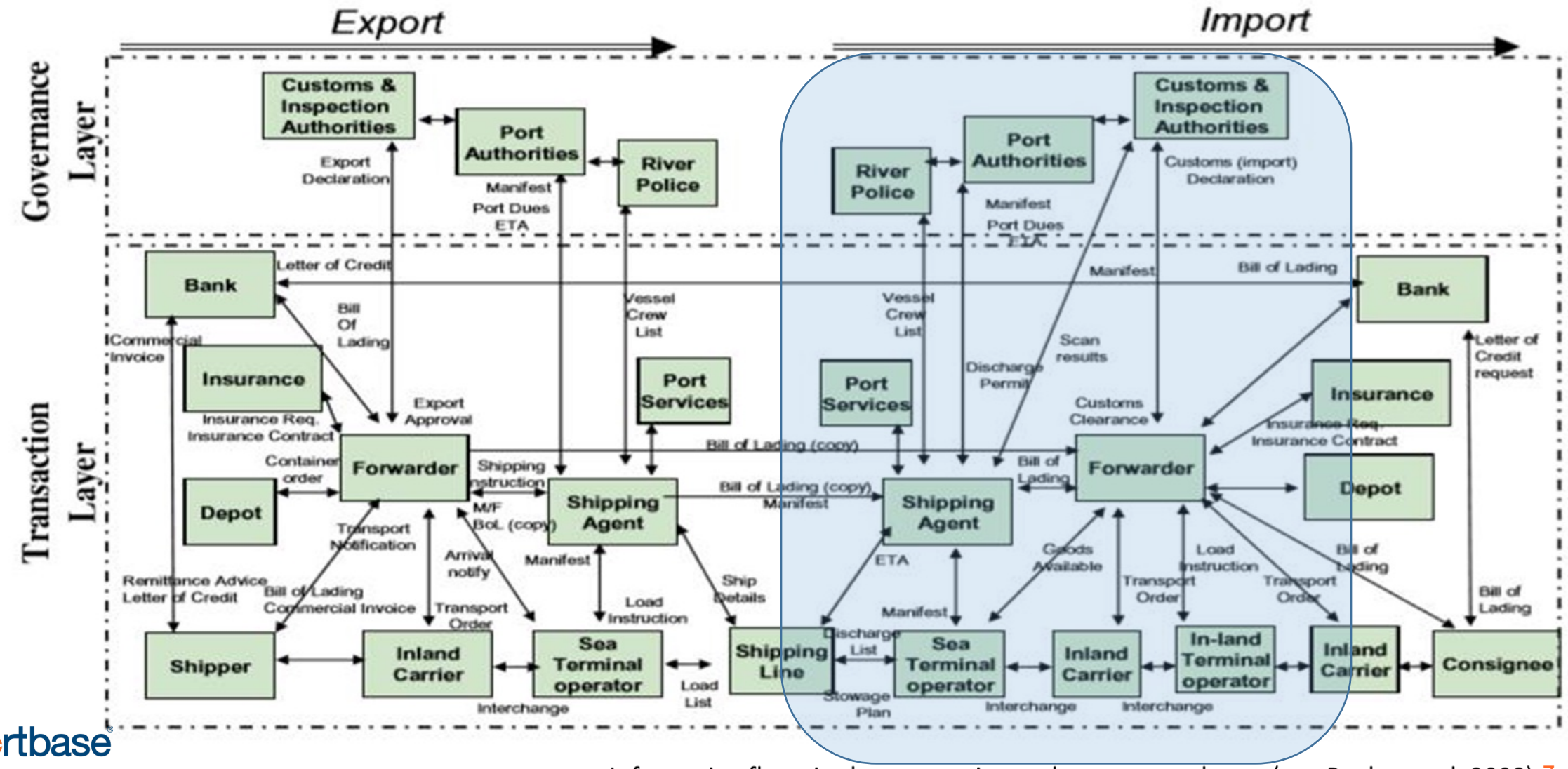
But it's not…



Information flows in the transaction and governance layers (van Baalen et al. 2008)

Life in the ports

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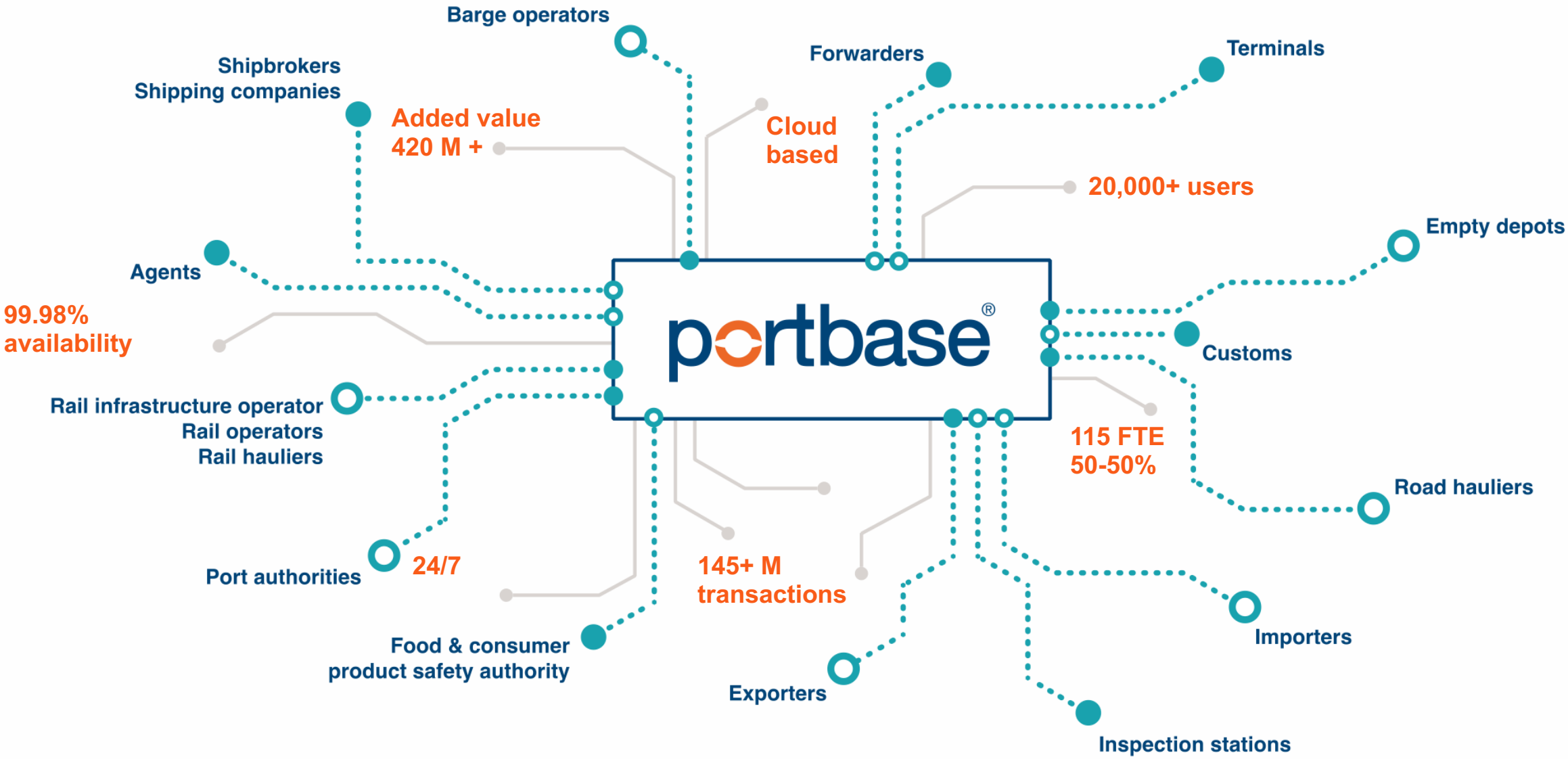
Without a PCS

With Portbase: a connected port



Why Portbase

Community building & Power to implement

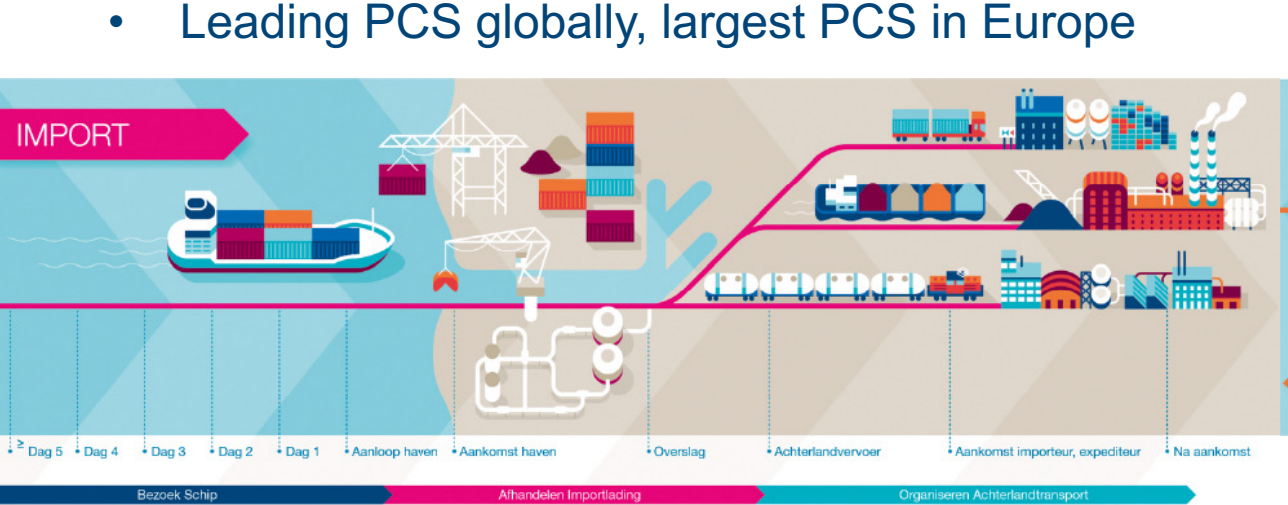
What does Portbase do?

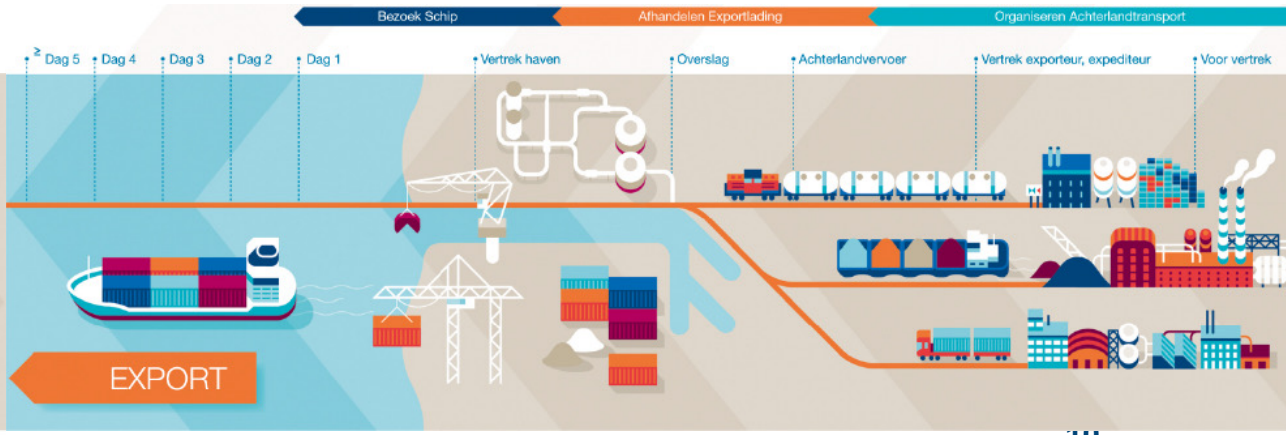
Portbase continually optimises the existing core processes in the ports and connects the hinterland supply chains.

- 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





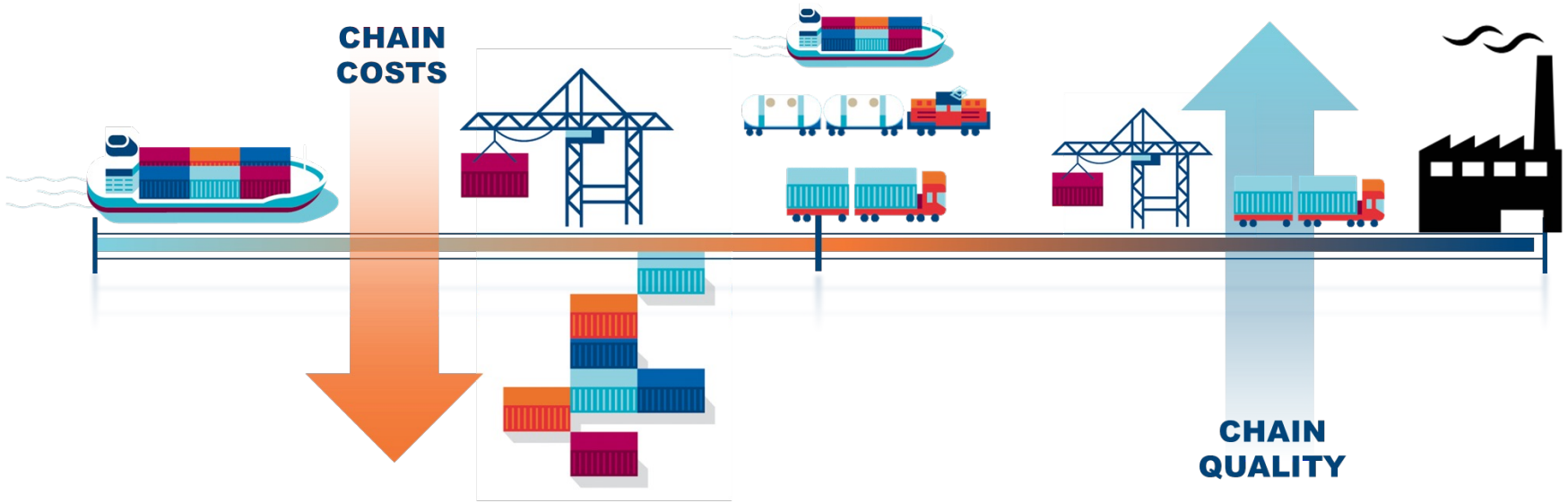
Benifits for the community

Costs

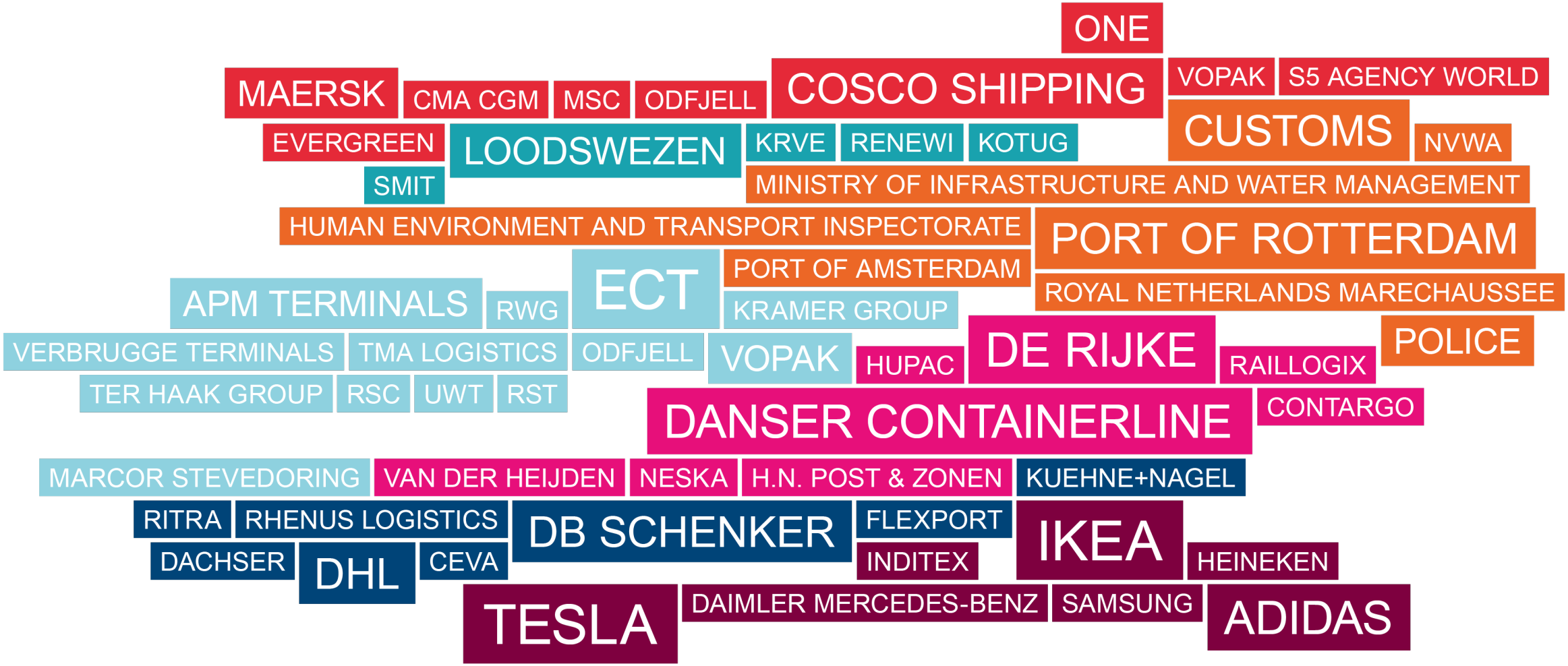
- Supply chain costs
- Turn-around times of vessels in port
- Costs per ship visit
- Terminal handling / storage costs
- Turn-around times hinterland transport operators
- Occupancy rate transporters
- Turn-around time cargo / equipment

Value

- Supply chain quality
- Cooperation
- Optimalisation
- 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.

7 services

→ 100% ship's calls & customs goods manifests

Import cargo

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

18 services

→ 100% customs
→ 40% cargo info

Hinterland transport

Smart services for road, barge and rail sectors.

8 services

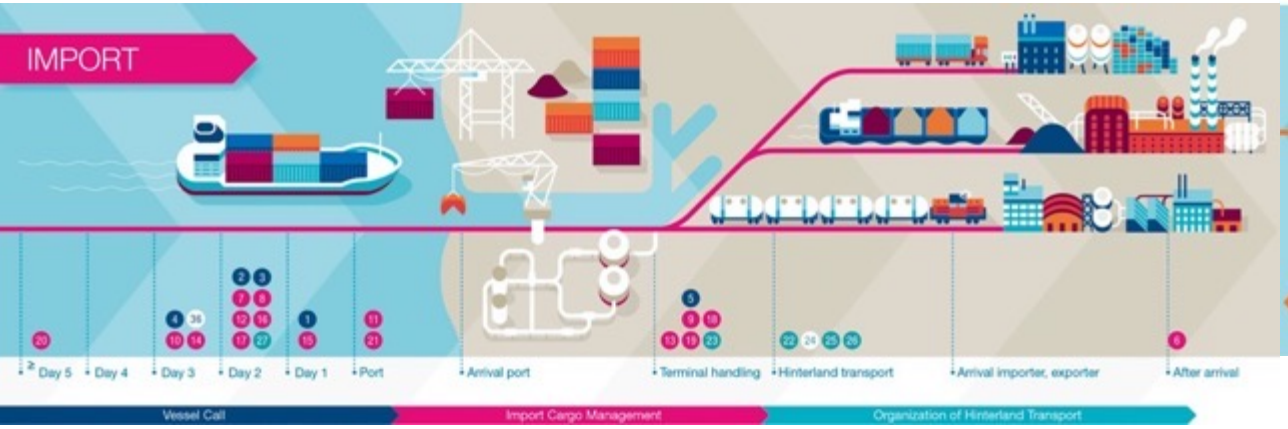
→ 100% pre-notification

Export cargo

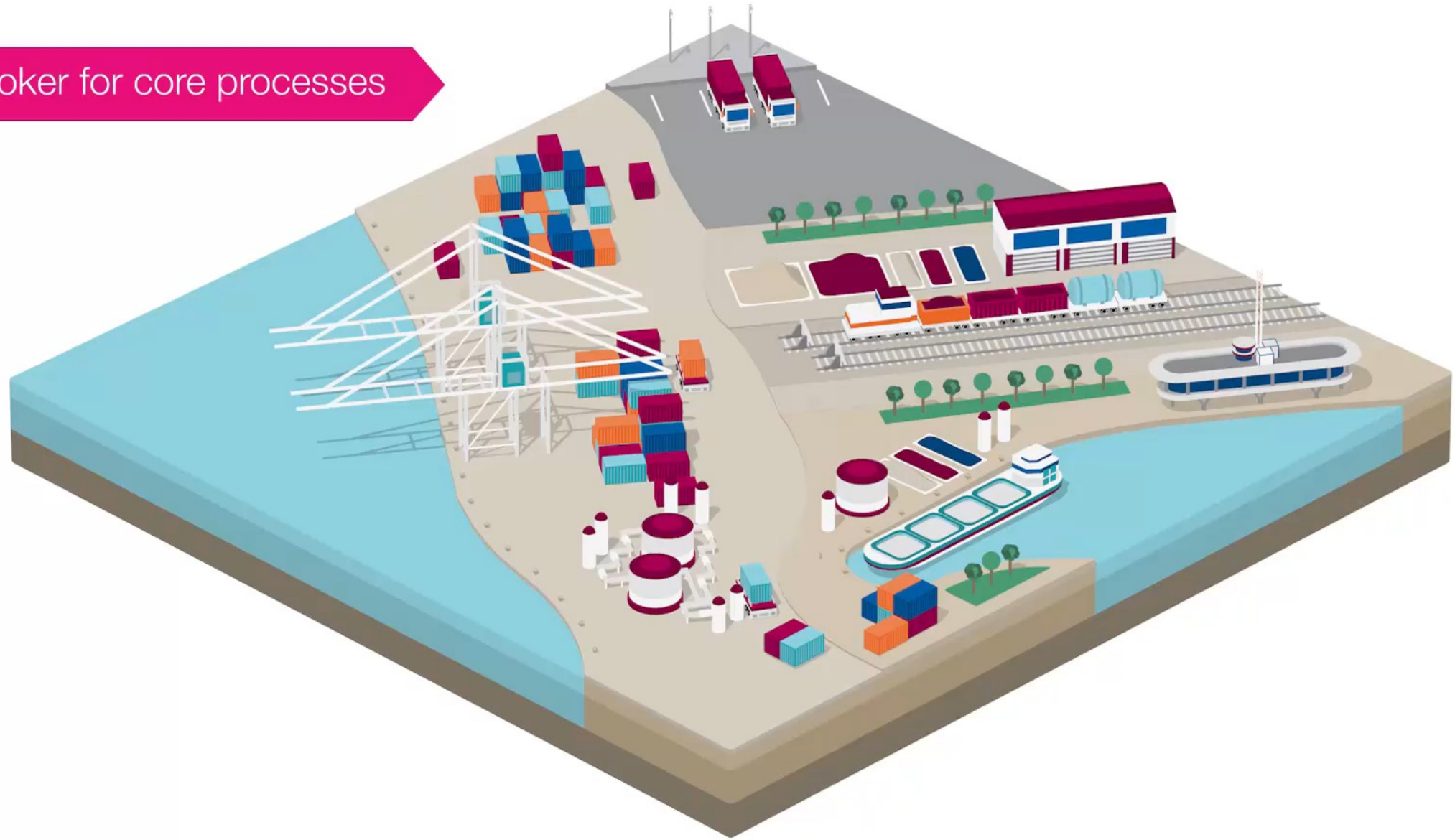
Services for forwarders, exporters, agents, shipping lines and cargo handling agents for handling export formalities.

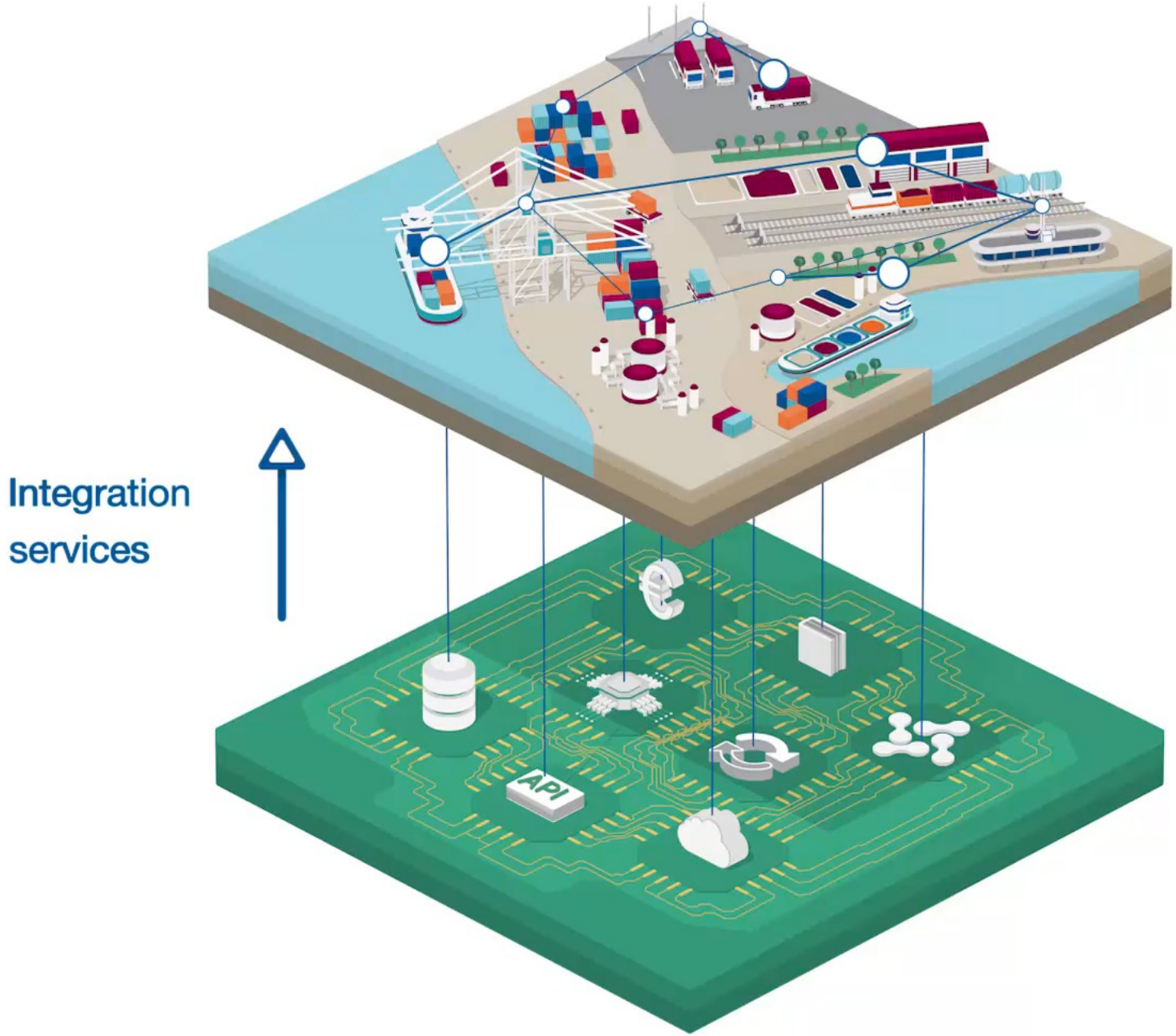
11 services

→ 100% customs

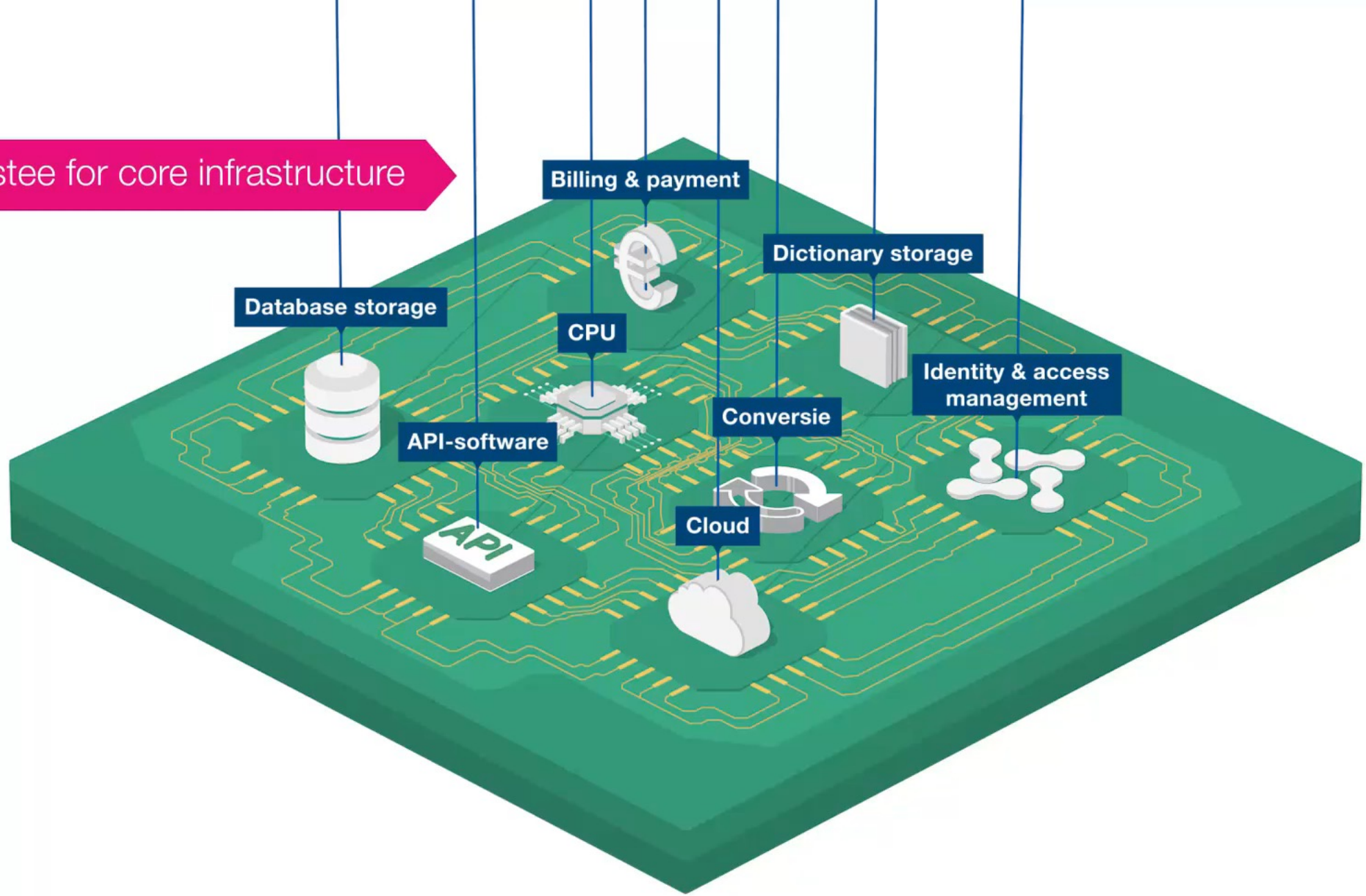


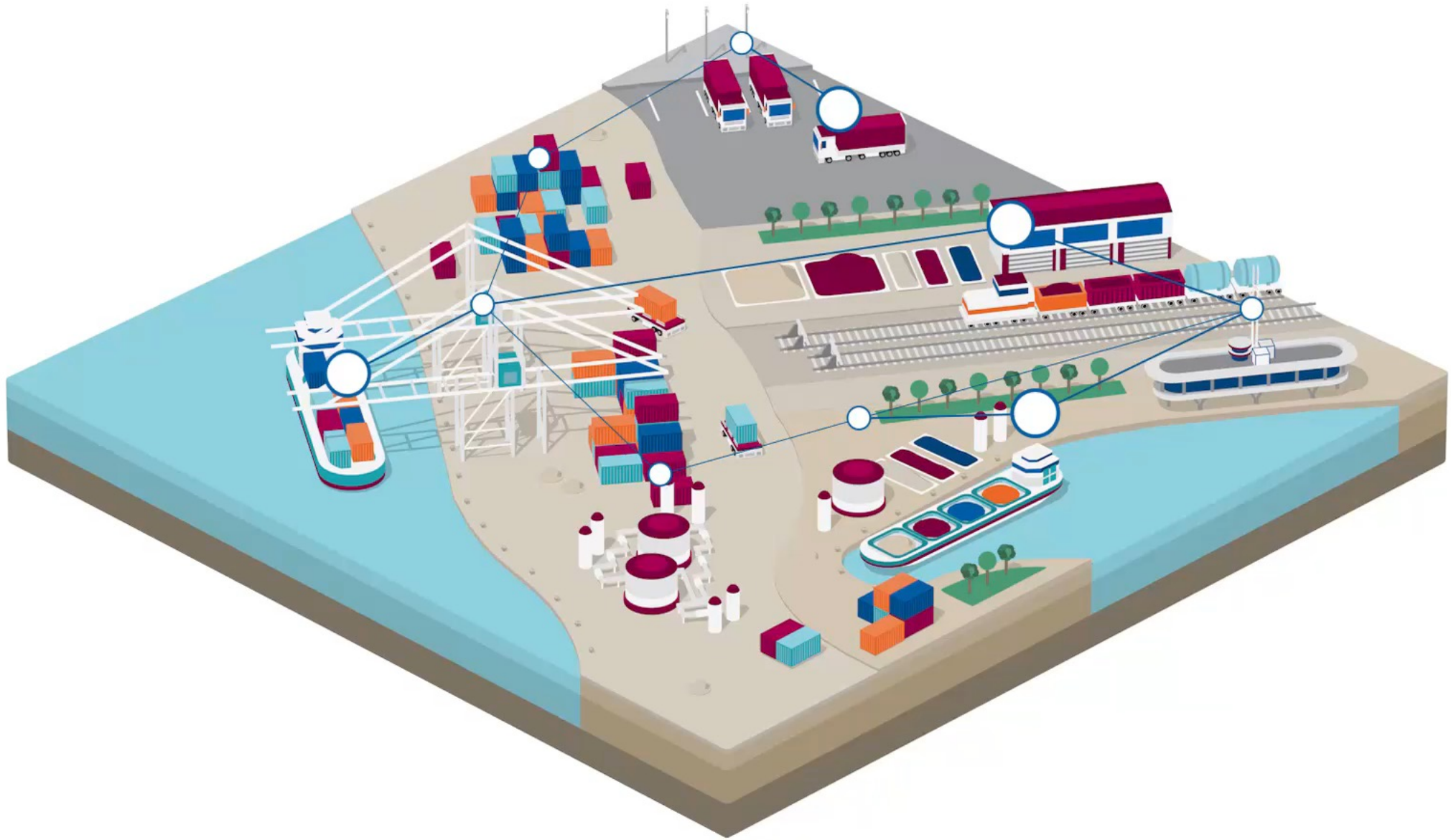
Data broker for core processes

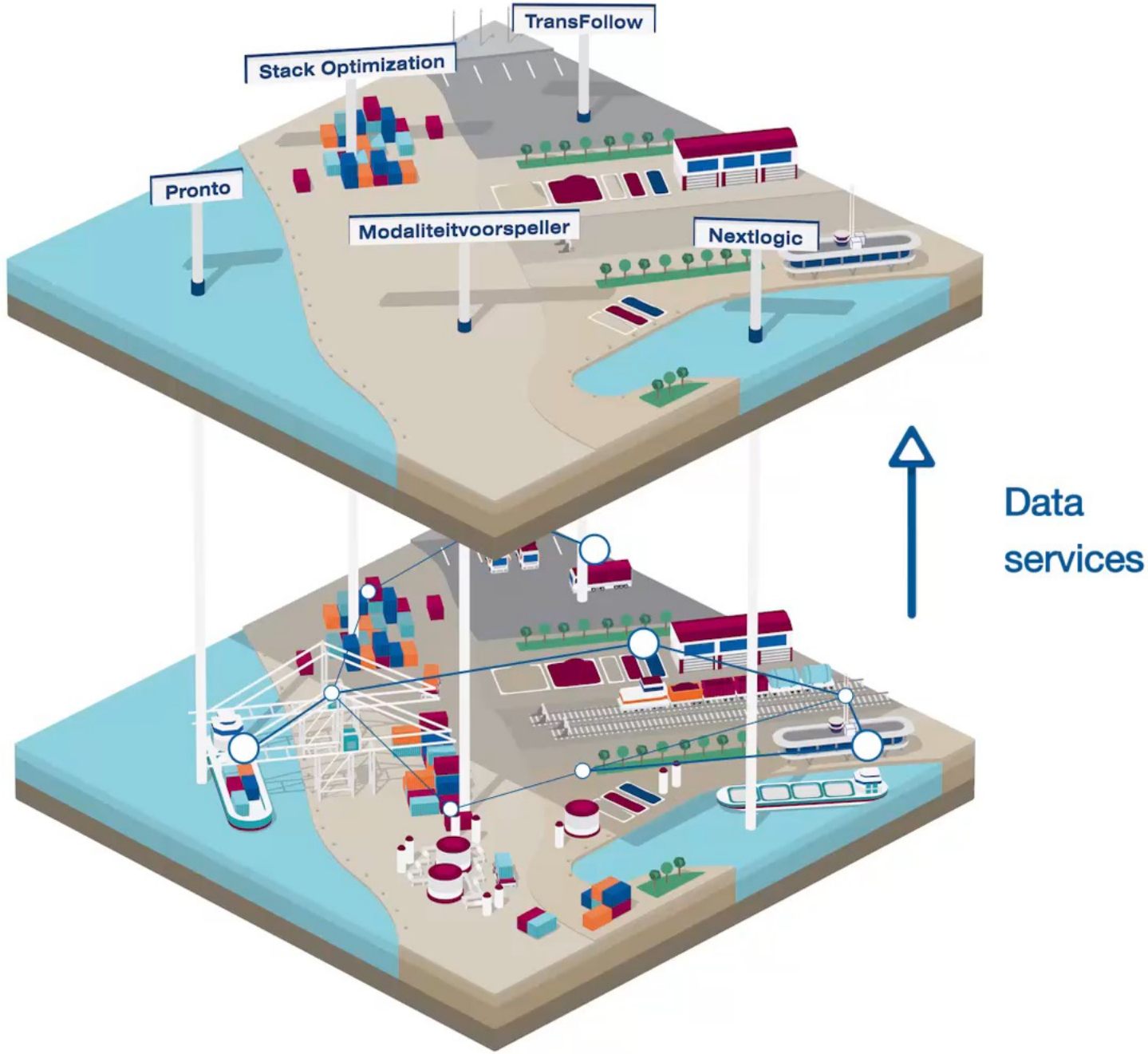



Integration
services
API

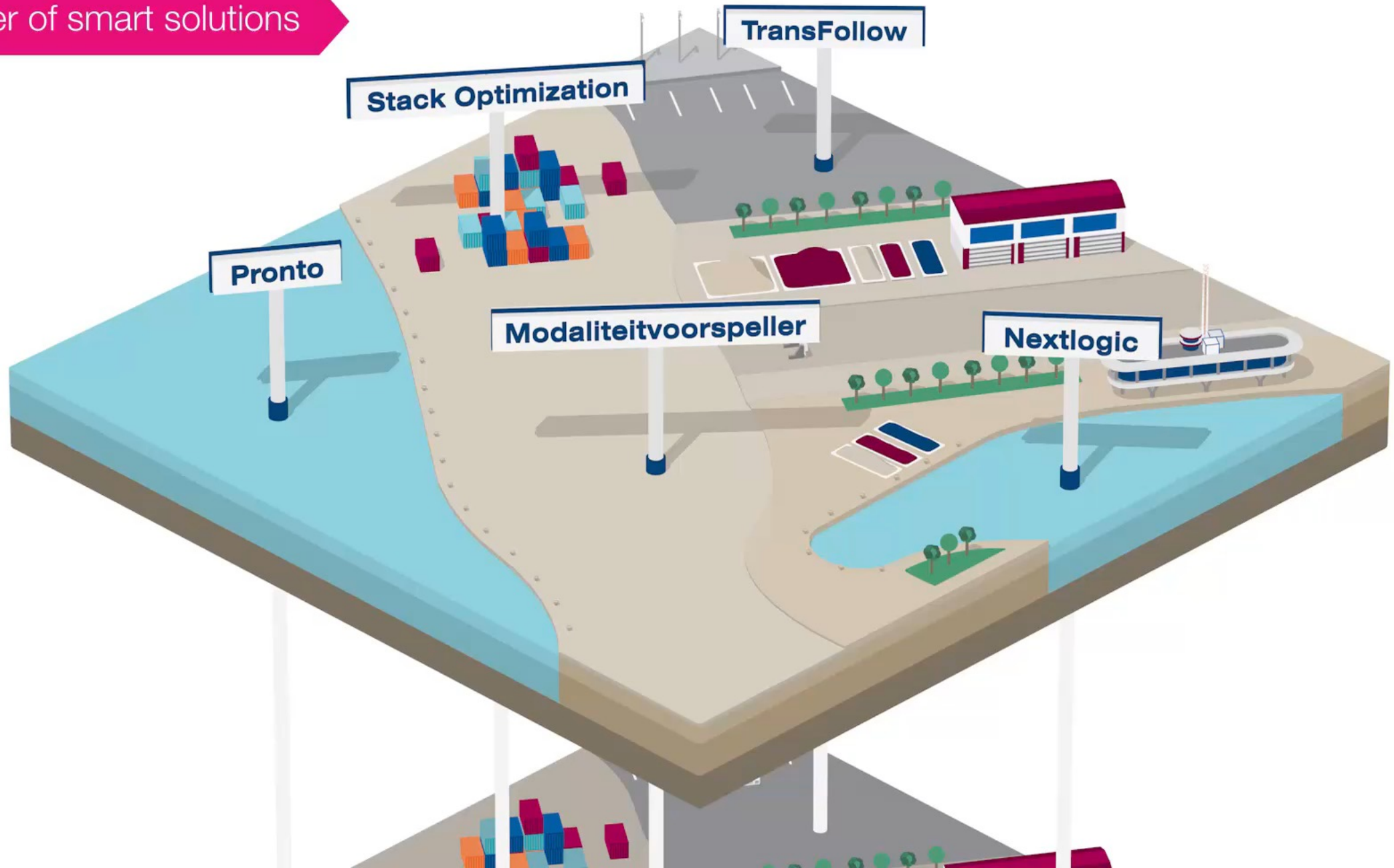
Data trustee for core infrastructure






TransFollow
Stack Optimization
Pronto
Modaliteitvoorspeller
Nextlogic
Data
services

Enabler of smart solutions



be smart. get connected.

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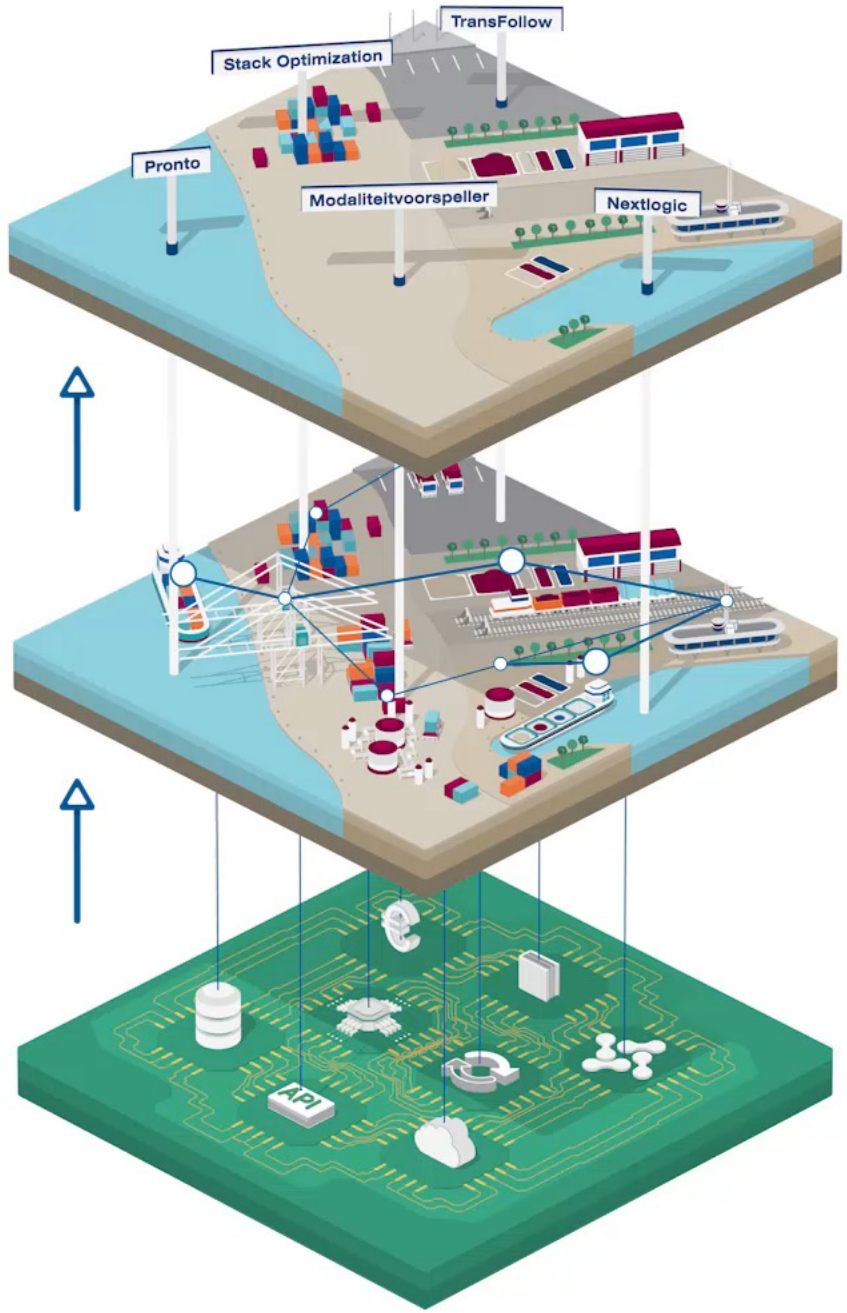
Data services

Integration services



Enabler of smart solutions

Data broker for core processes

Data trustee for core infrastructure

How it works

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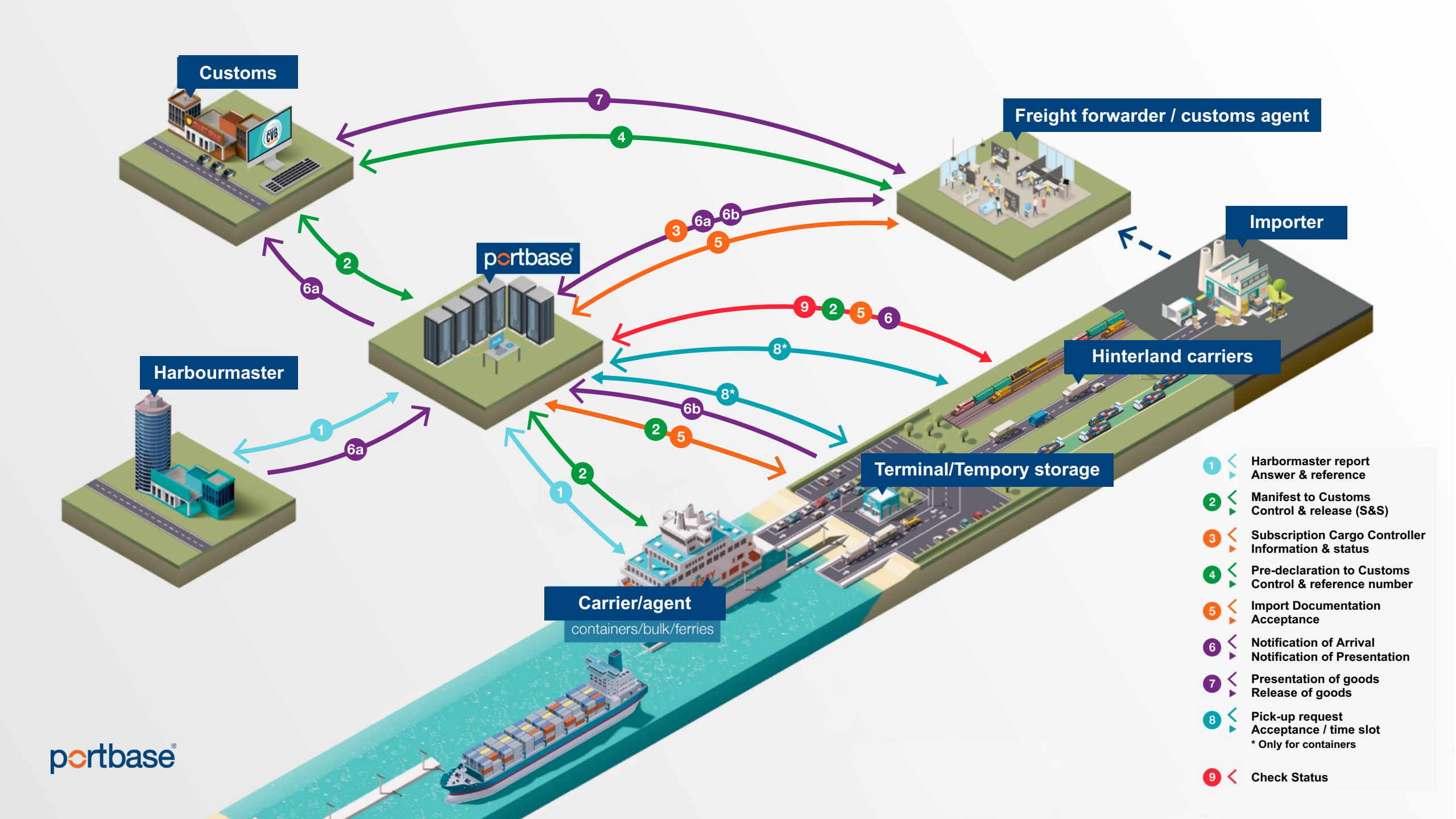
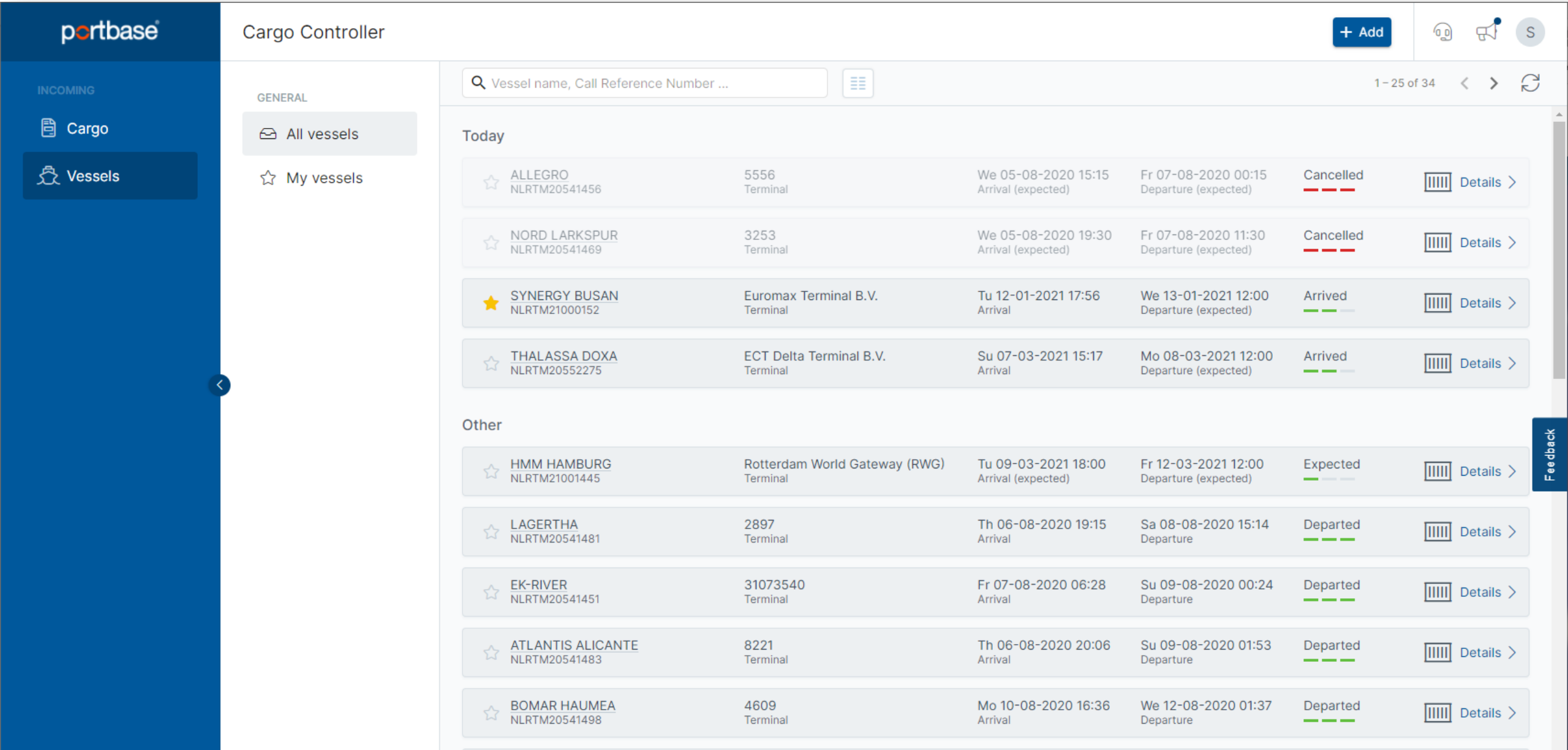
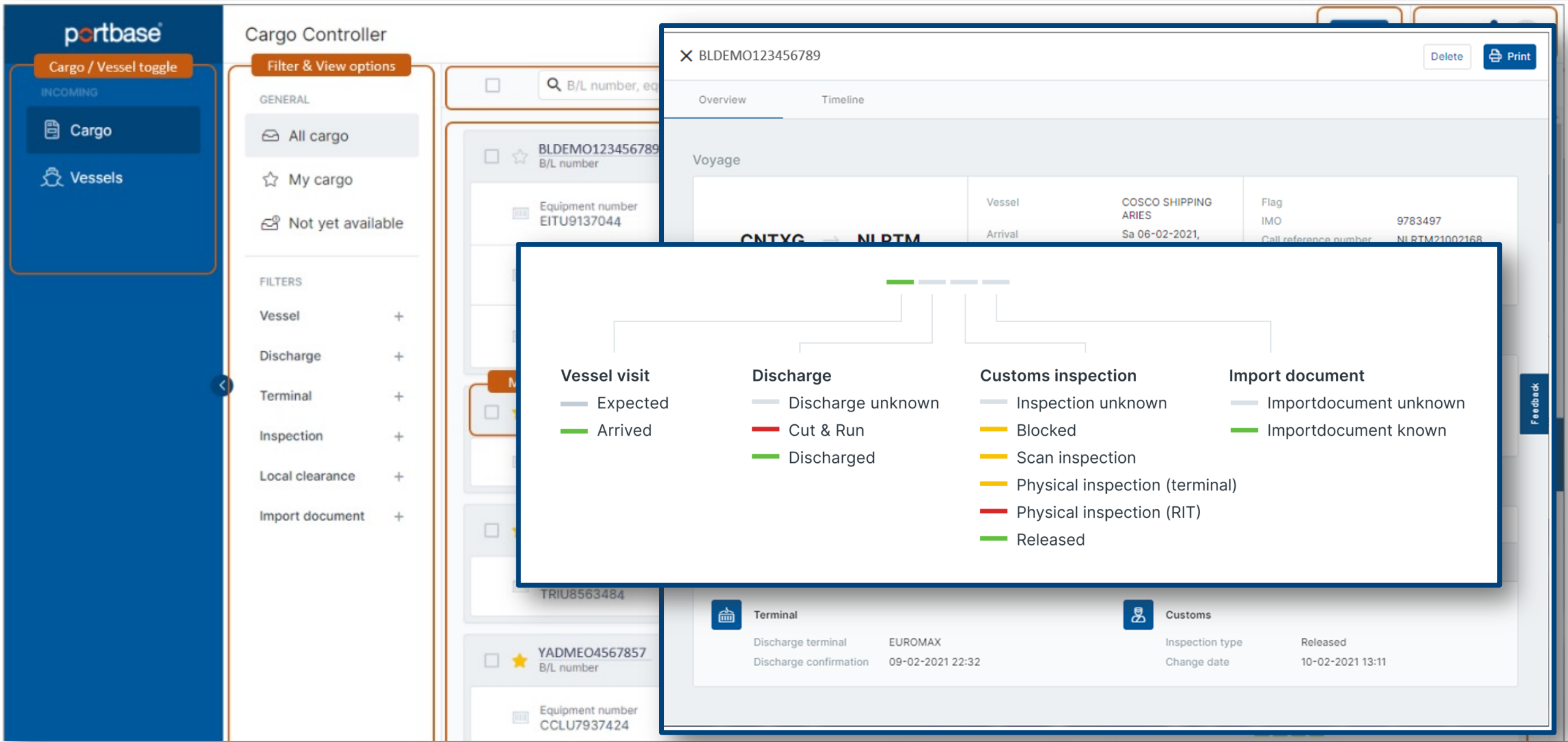
Keeping
things
moving


Customs
Freight forwarder / customs agent
Importer
portbase
Harbourmaster
Hinterland carriers
Terminal/Tempory storage
Carrier/agent
containers/bulk/ferries
1 Harbormaster 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)



Cargo Controller (cargo information)



Business lines Portbase

Collective basis supporting individual development

Port Solutions

Core processes port logistics

Platform Solutions

Enabling individual development & data sharing

Services in Ecosystem

NEXTLOGIC

Port of Rotterdam

RWG

Port of Amsterdam

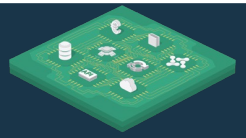
GSBN

HUTCHISONPORTS ECT ROTTERDAM

talking logistics

Riege Software

Data from/ to ecosysteem



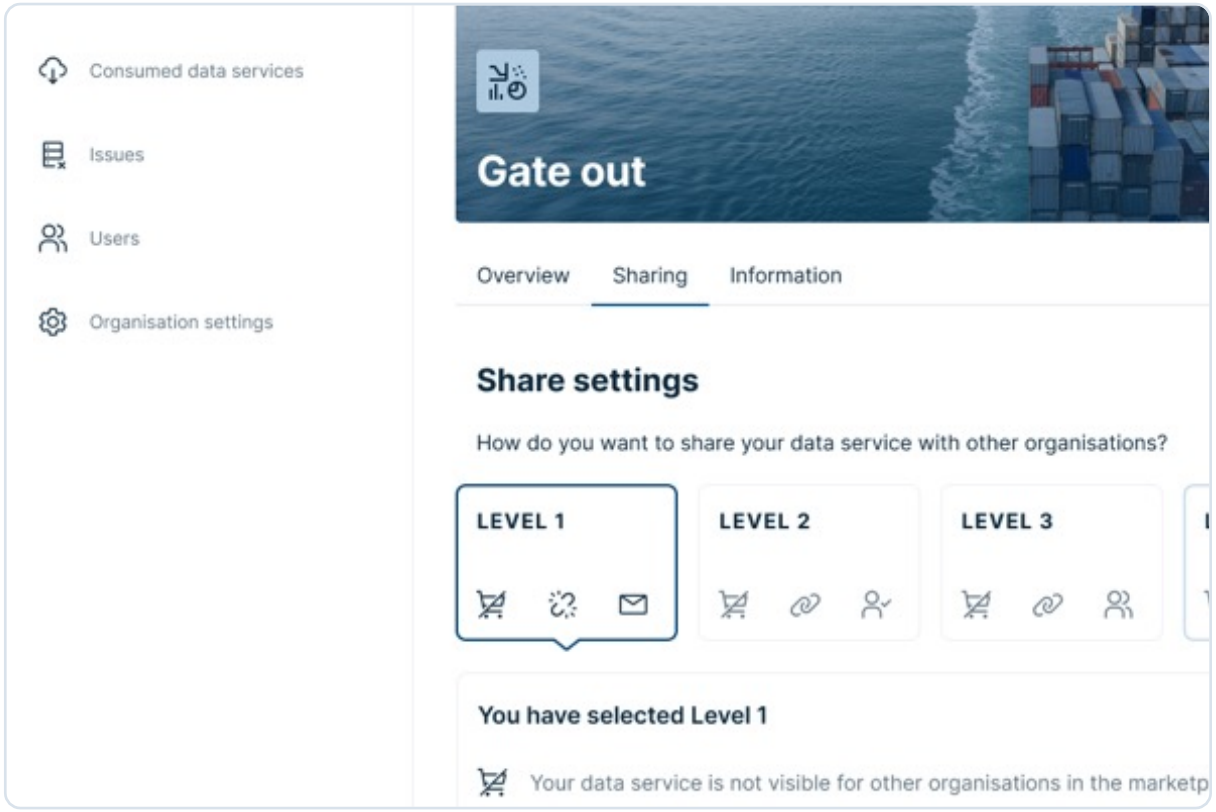
IAM connected

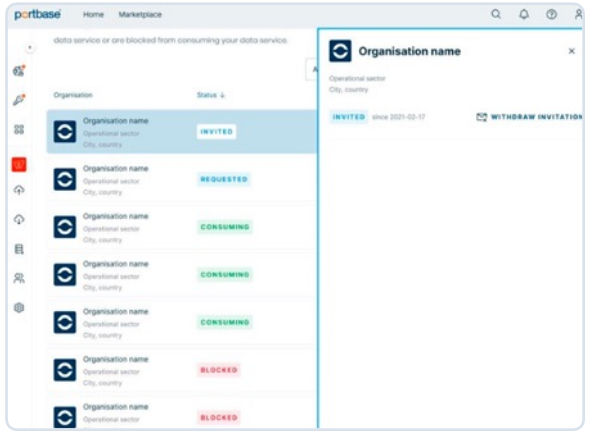
Identity & Access Solutions

Components

“

Platform enables everyone to share data securely.”





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Keeping
things
moving

For more information: