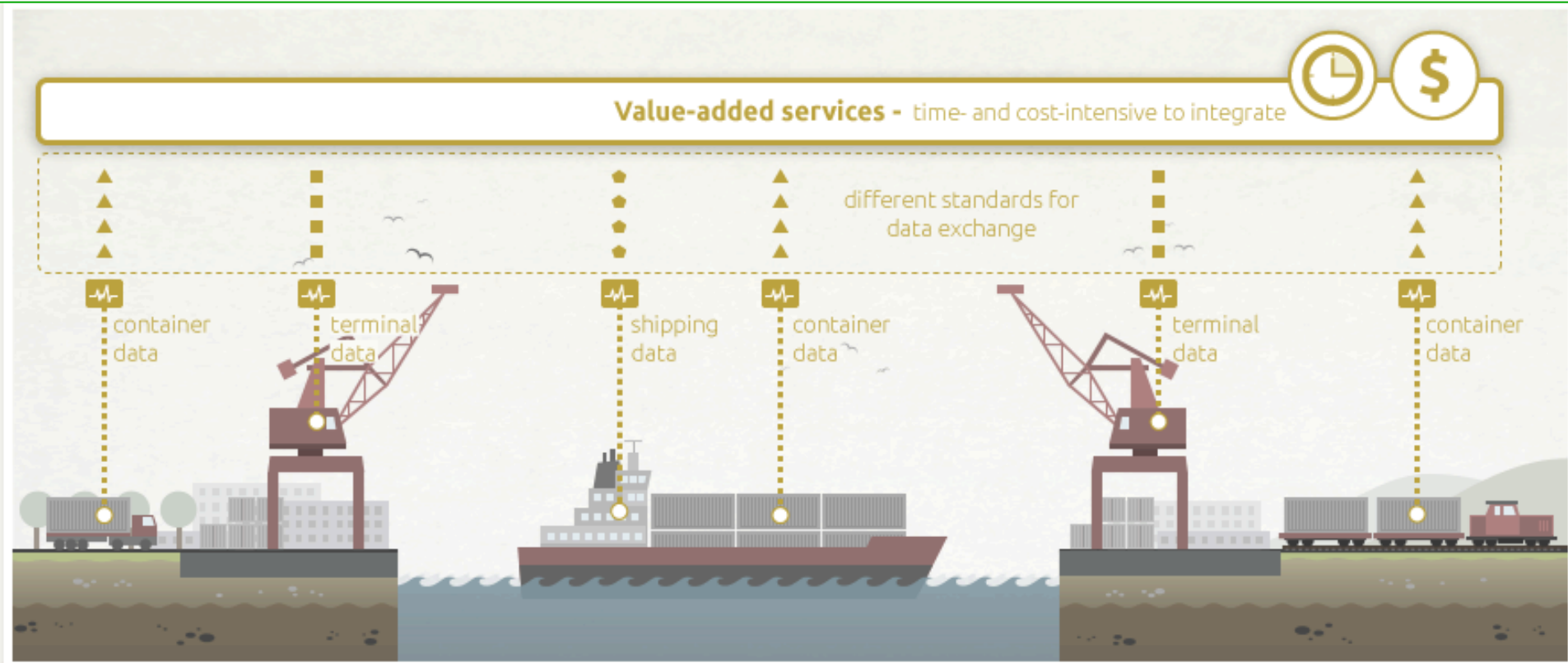# ECITL 2013 Zaragoza
25 October 2013

Creating situational awareness in logistics
Interoperable freight information services

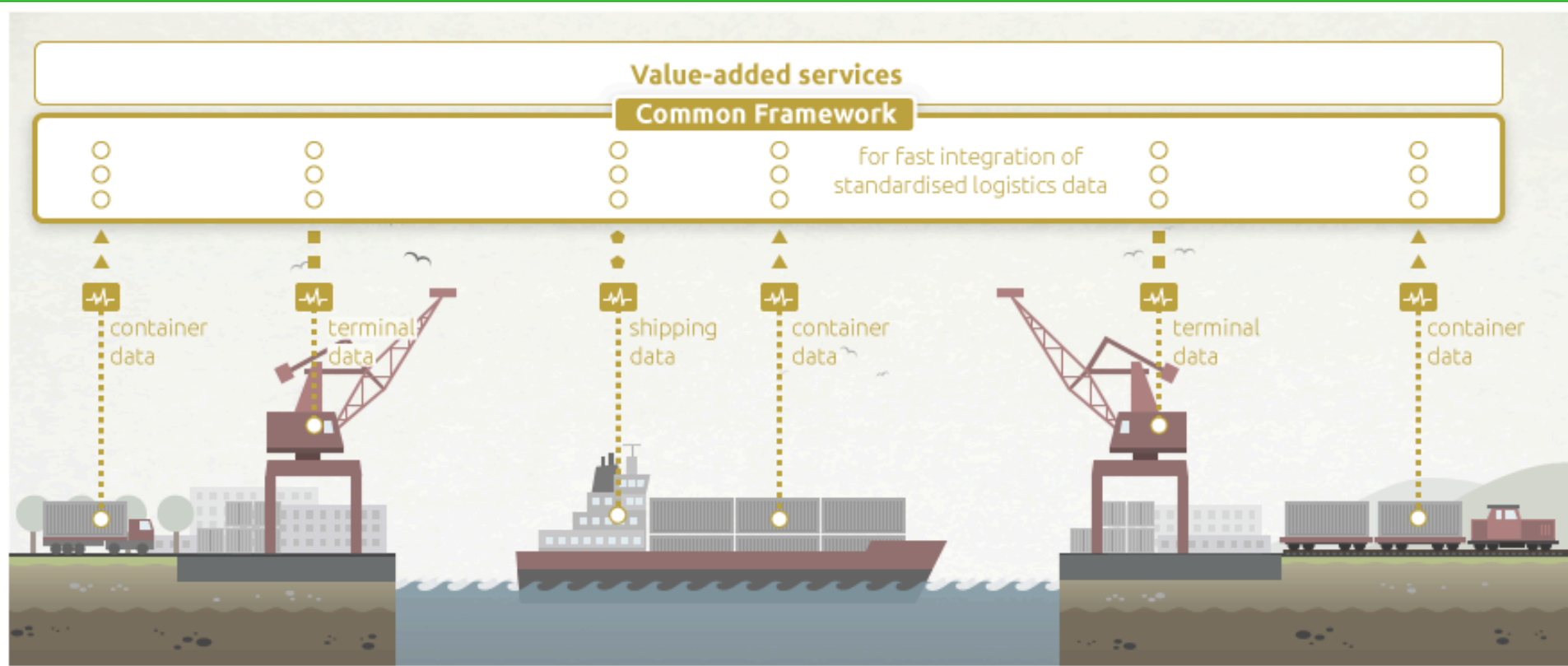*Frank Knoors, Logit Systems*

COMCIS Project Vision

- Deliver awareness throughout global supply chains to solve problems of data fragmentation, delay, and inconsistency.

- Use data drawn from the entire supply chain to provide accurate, comprehensive logistics information.

- Deliver supporting information services that are usable and affordable

Vision

Value-added services - time- and cost-intensive to integrate

different standards for data exchange

container data | terminal data | shipping data | container data | terminal data | container data

1. Different standards are time- and cost-intensive to integrate

Vision

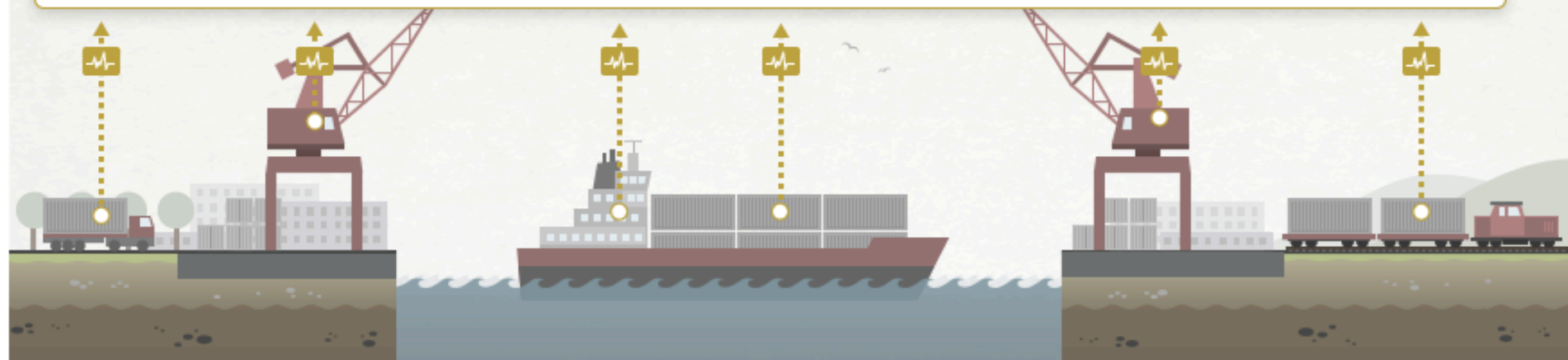2. Common Framework for fast integration of logistics data
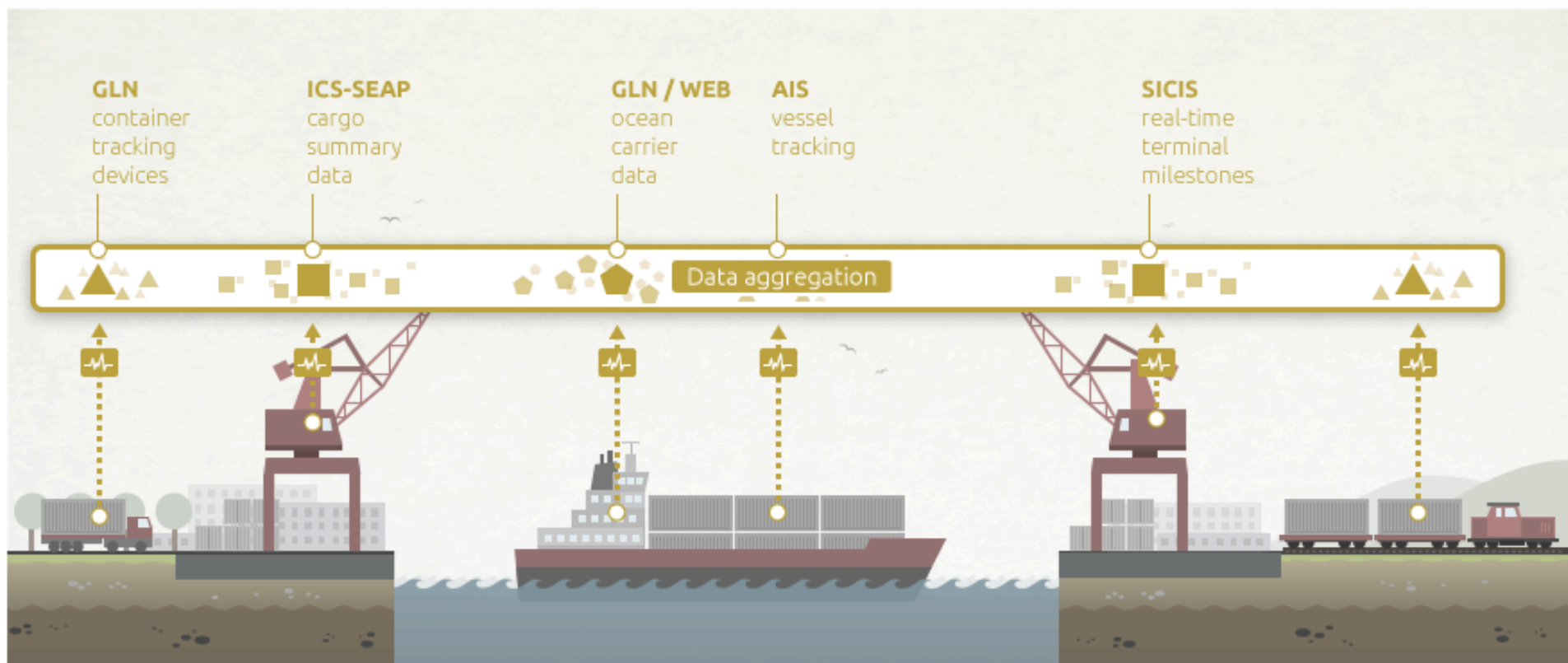
Vision

3-layer architecture

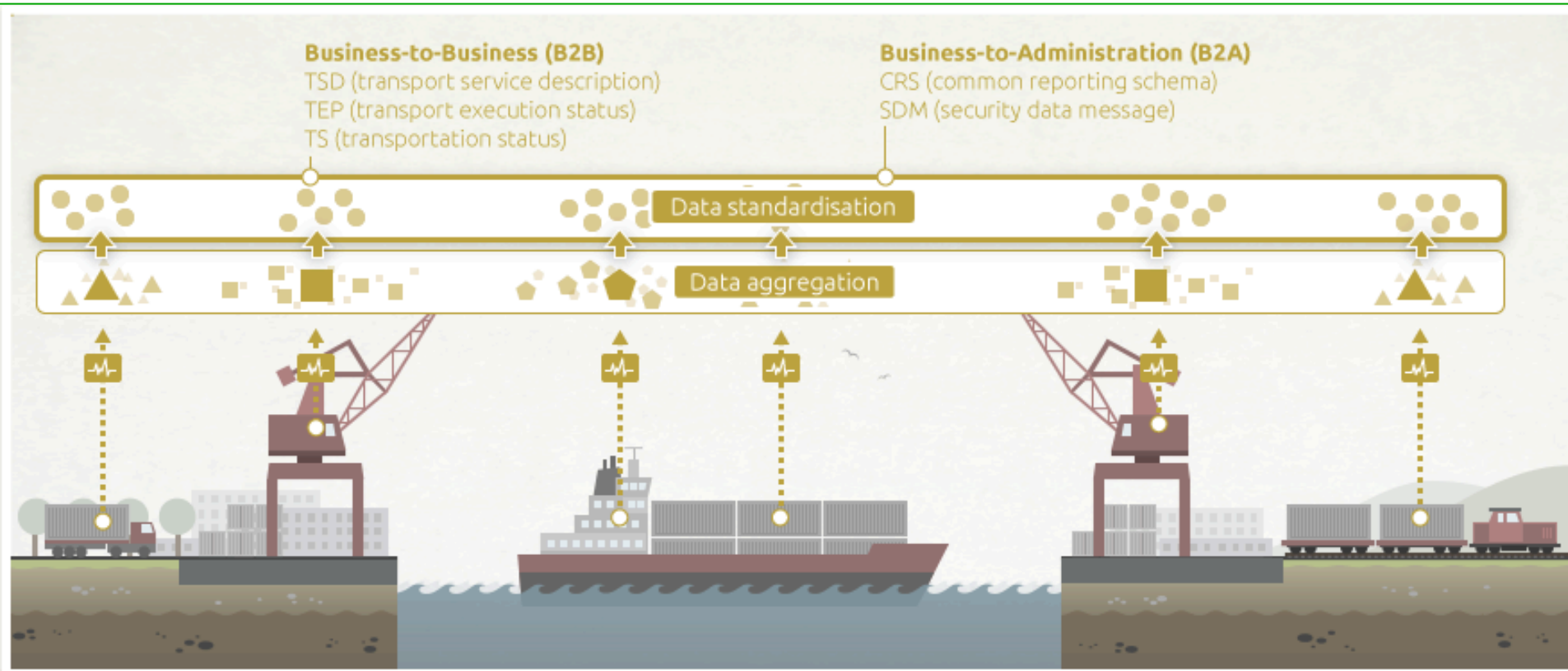Data consolidation

Data standardisation

Data aggregation

3. 3-Layer architecture supporting B2B and B2C

Vision

GLN
container
tracking
devices

ICS-SEAP
cargo
summary
data

GLN / WEB
ocean
carrier
data

AIS
vessel
tracking

Data aggregation

SICIS
real-time
terminal
milestones

4. Aggregation for easy access to multiple data sources

Co-funded through EU FP7 DG RTD

Vision

Business-to-Business (B2B)
TSD (transport service description)
TEP (transport execution status)
TS (transportation status)

Business-to-Administration (B2A)
CRS (common reporting schema)
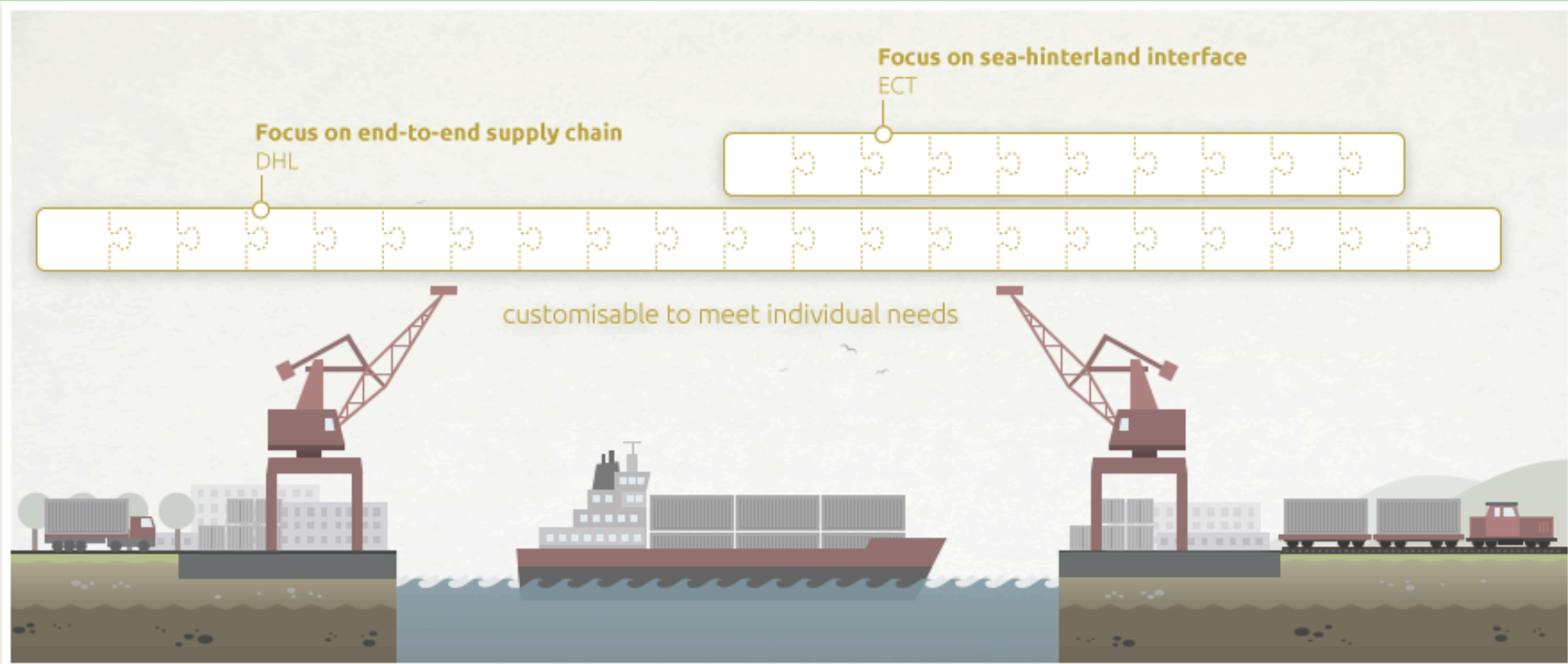SDM (security data message)

Data standardisation

Data aggregation

5. Standardised data independent of original source & format

Vision
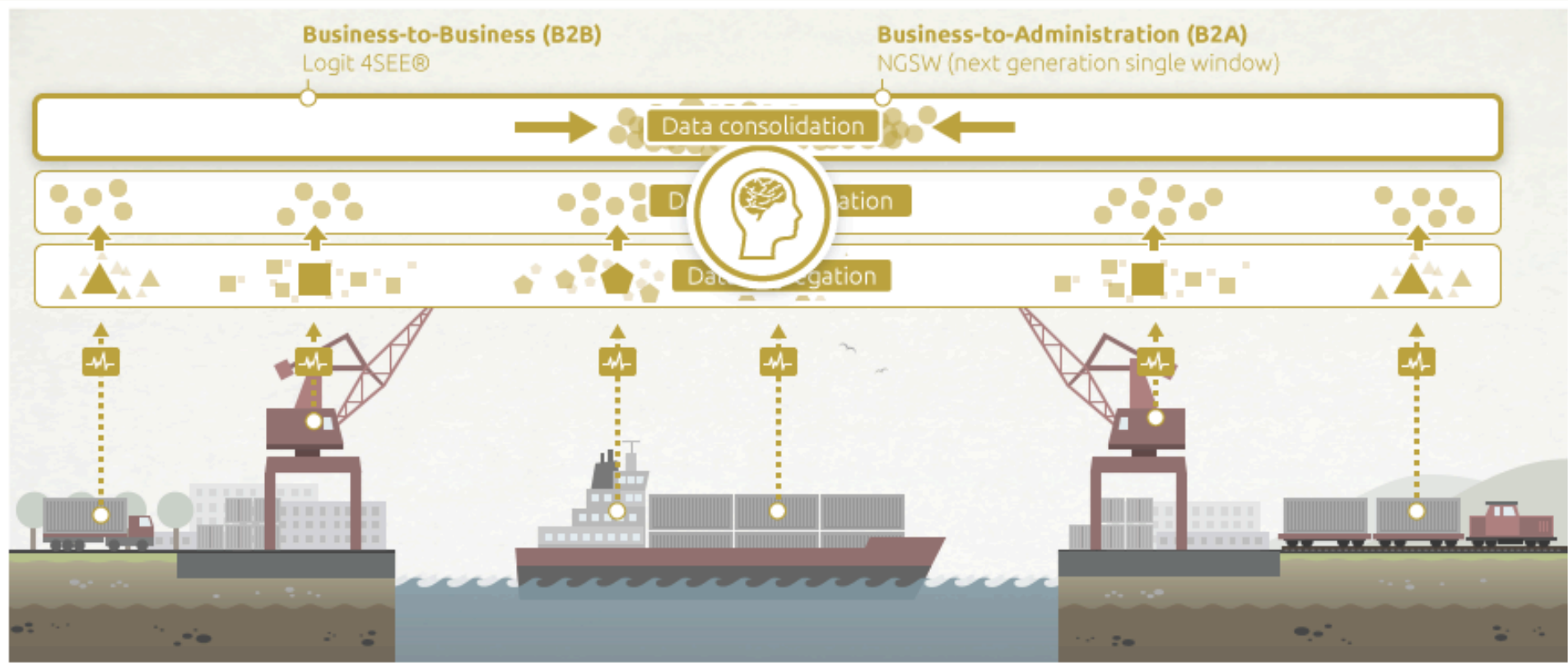
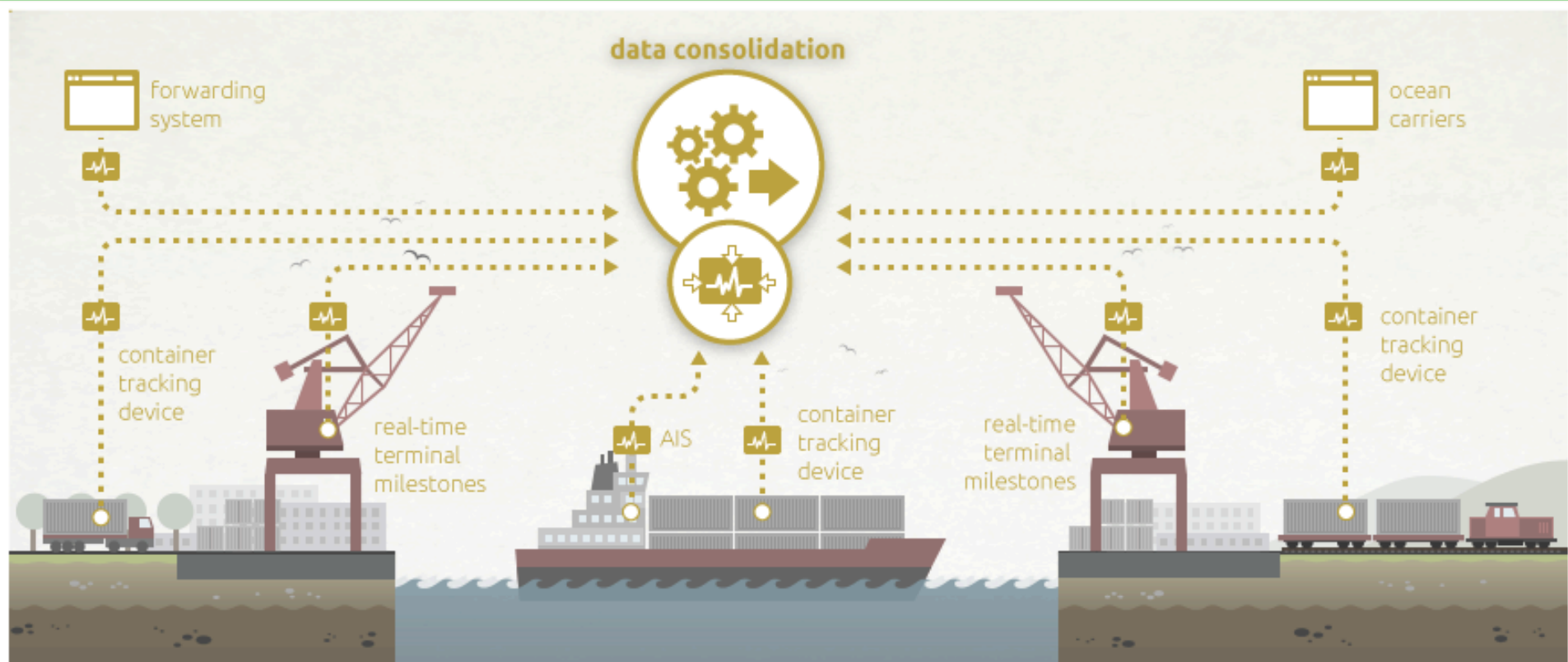6. Consolidation for qualified information that supports decisions

Focus on sea-hinterland interface
ECT

Focus on end-to-end supply chain
DHL

customisable to meet individual needs
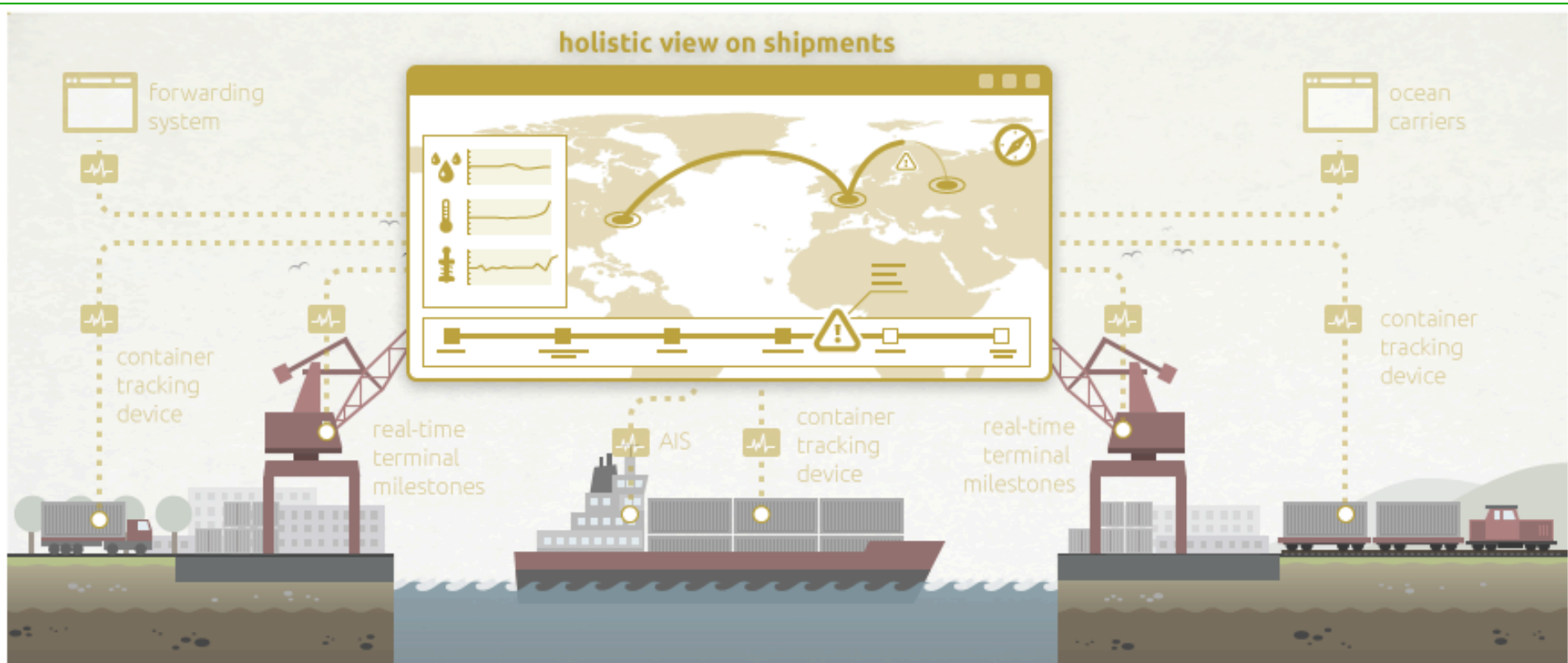
7. Wide range of applicability

DHL story
Raising predictability of ocean freight

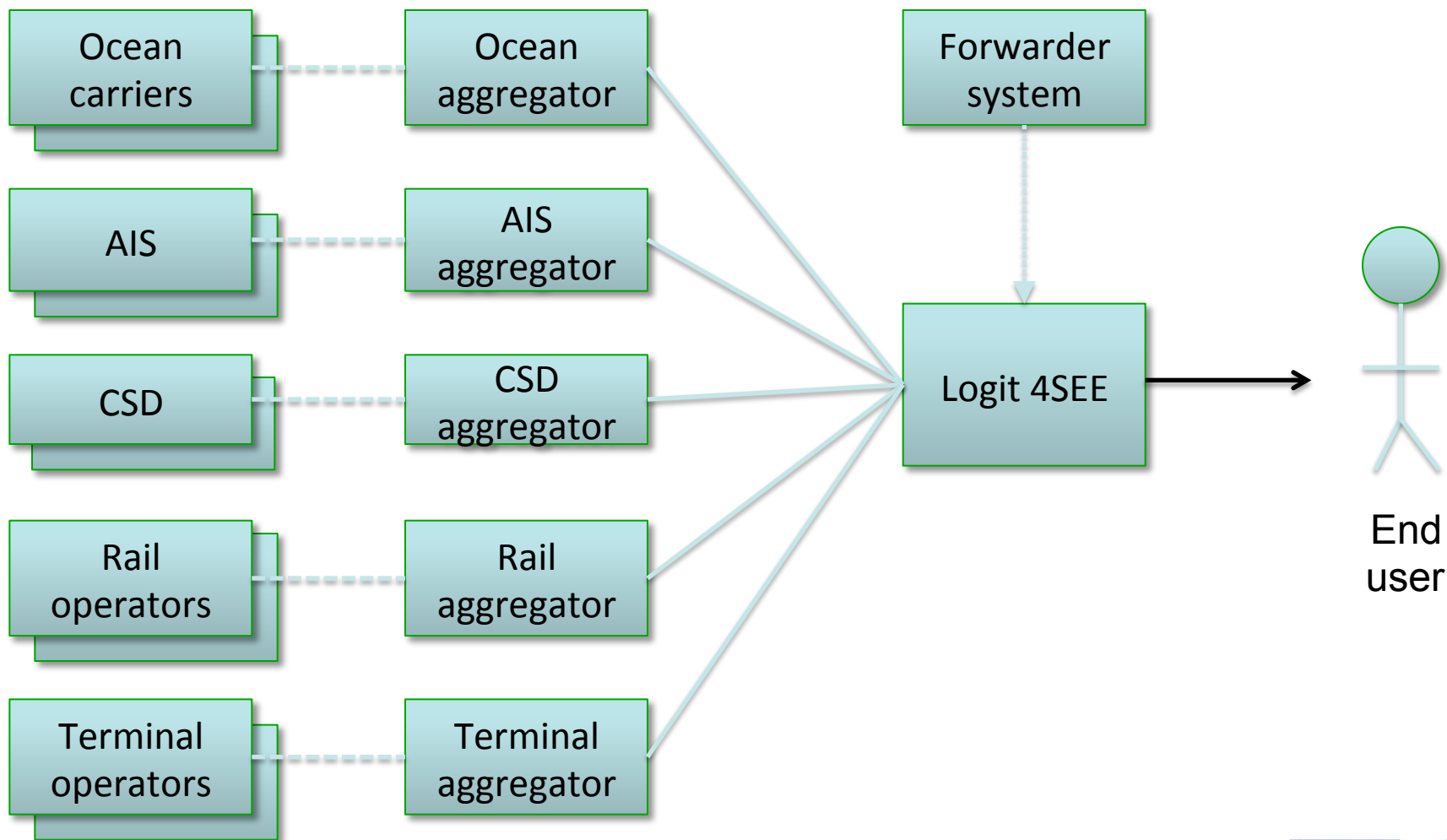# A. Create intelligence by interpreting & validating raw data
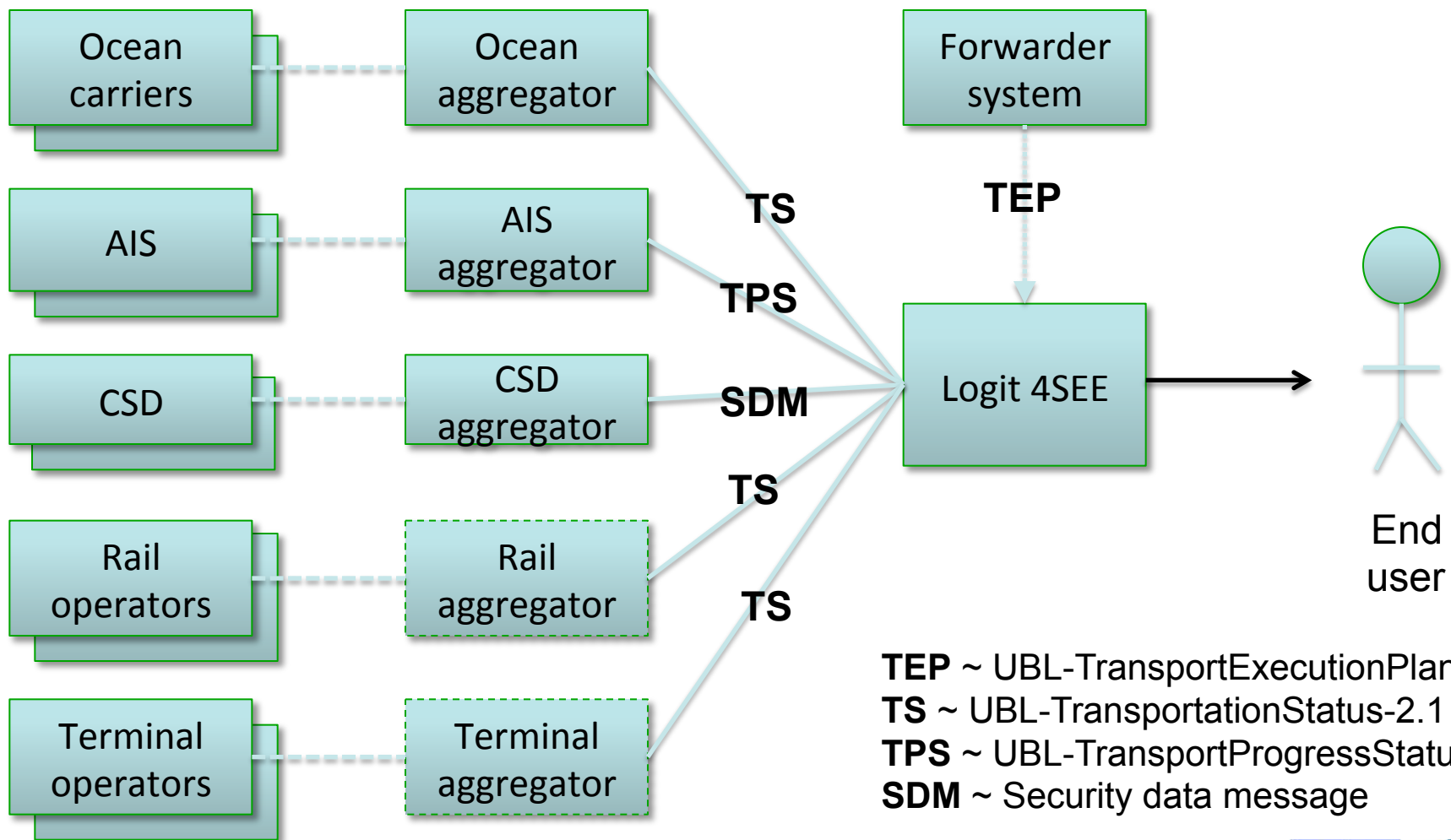
DHL story
Raising predictability of ocean freight

B. Dashboard to drill-down, forecast & address conflicts of data
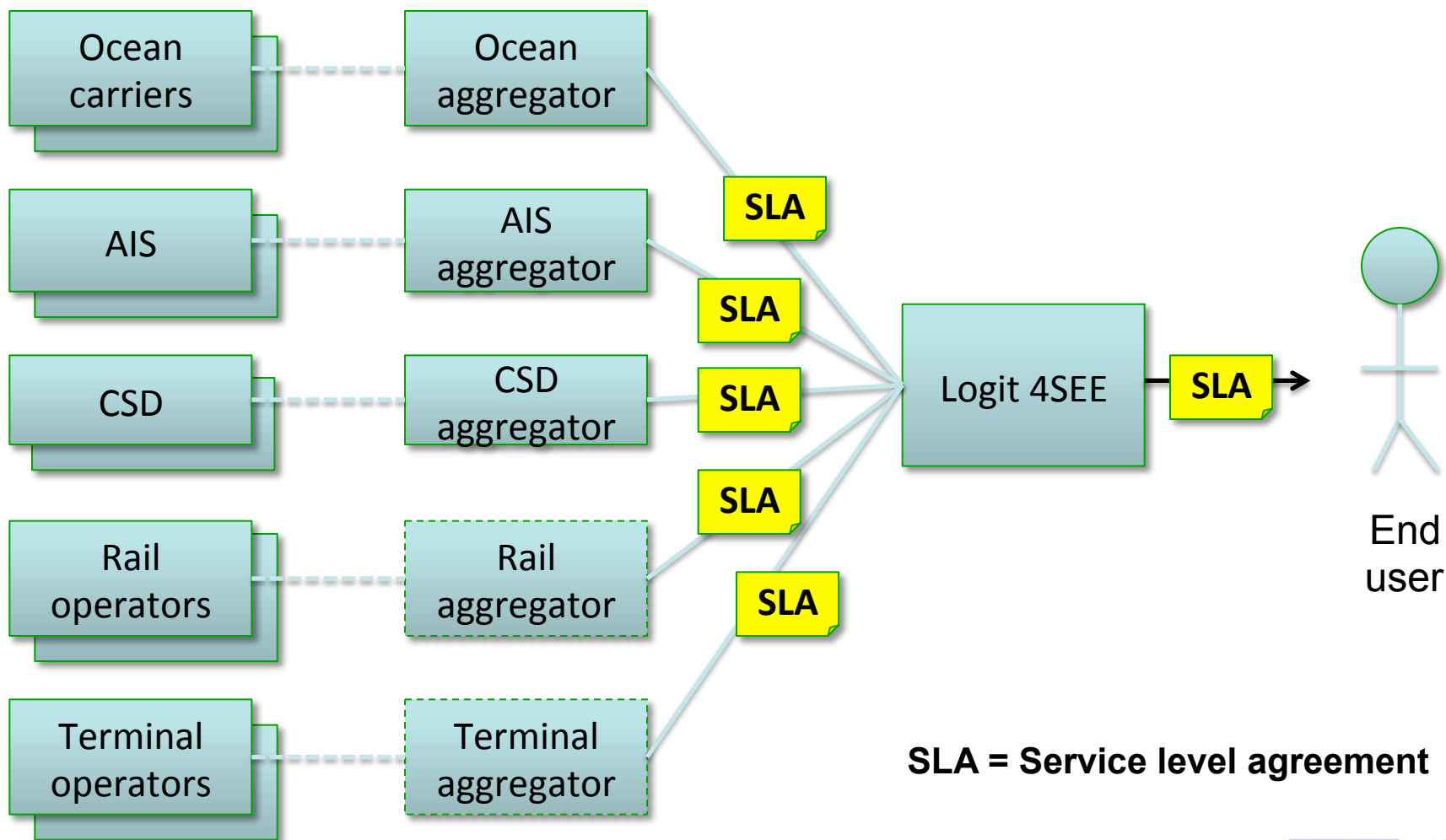
Co-funded through EU FP7 DG RTD

Information service composition
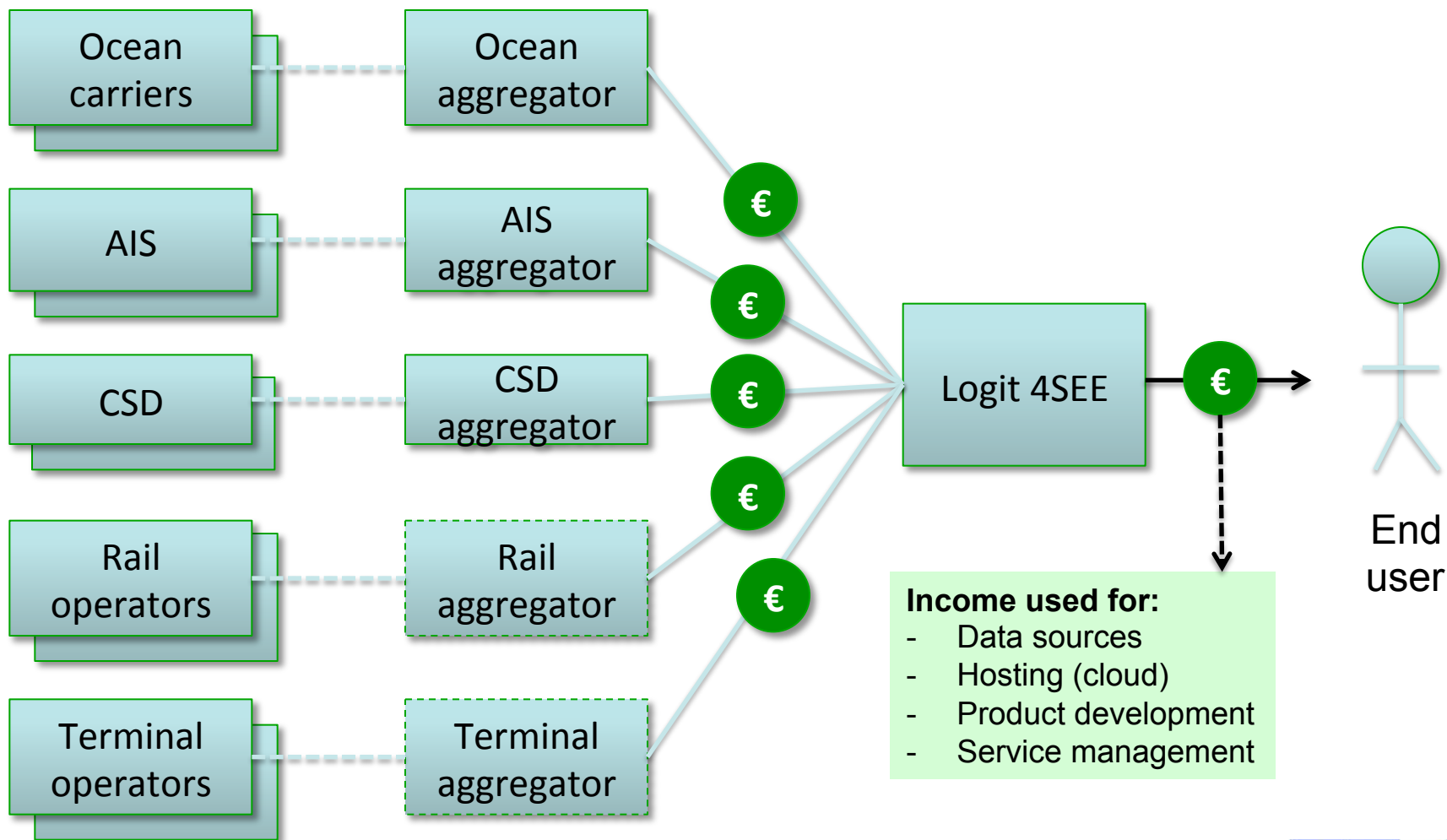## Interoperability

TEP ~ UBL-TransportExecutionPlan-2.1
TS ~ UBL-TransportationStatus-2.1
TPS ~ UBL-TransportProgressStatus-2.1
SDM ~ Security data message

Information service composition
Service management

```
Ocean
carriers ----- Ocean
              aggregator

AIS ----- AIS
          aggregator

CSD ----- CSD
          aggregator

Rail ----- Rail
operators  aggregator

Terminal ----- Terminal
operators      aggregator
```

SLA SLA SLA SLA SLA → Logit 4SEE → SLA → End user

SLA = Service level agreement

Information service composition
Pricing & costing

Ocean carriers — Ocean aggregator

AIS — AIS aggregator

CSD — CSD aggregator

Rail operators — Rail aggregator

Terminal operators — Terminal aggregator

€ €

Logit 4SEE — € → End user

Income used for:
- Data sources
- Hosting (cloud)
- Product development
- Service management

What have we learned?

- Interoperability between business services requires more than standardisation of message exchange:

1. Data sources should provide data with added value & should be complementary

2. Service management & sufficiently good KPIs should be offered

3. Pricing should be affordable and flexible

For more information:
www.comcis.eu

This project is funded by

ANNOUNCEMENTS   **ARCHIVE** >

"Upcoming DHL demonstrator rollout: our second industry implementation, the DHL release will be issued in November 2012."

MOBILISING GLOBAL FREIGHT DATA

A VISION DELIVERED . DHL STORY . ECT STORY

Creating a global data environment to strengthen situational awareness about containerised ocean freight, improve operational control and enhance general service levels.

DHL case study

ECT case study

Thank you for your attention!