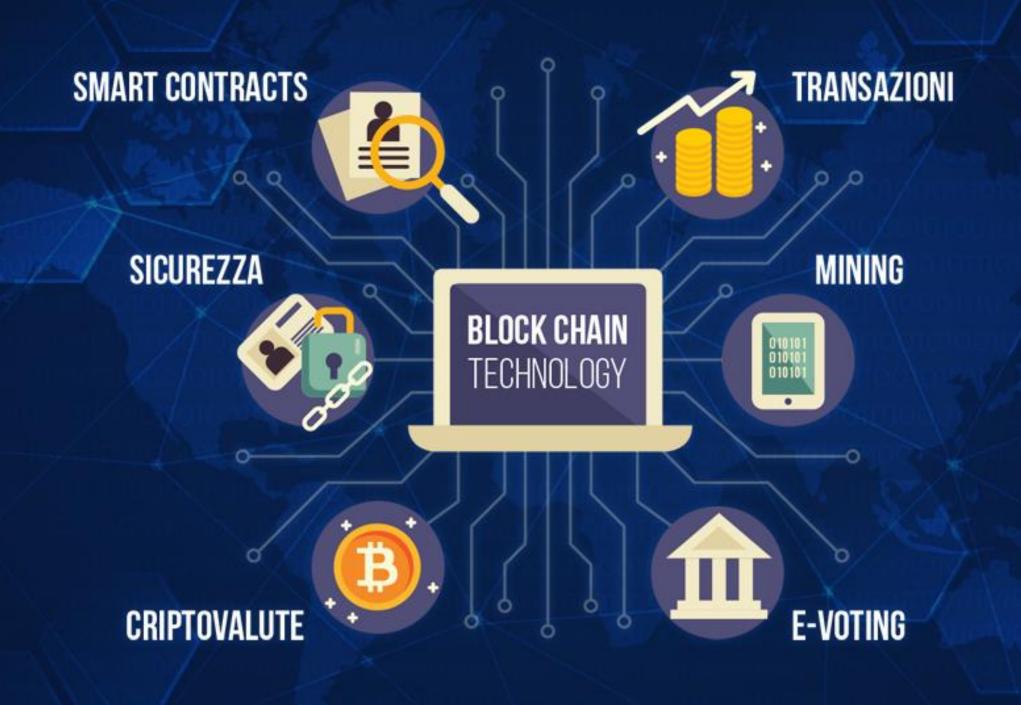


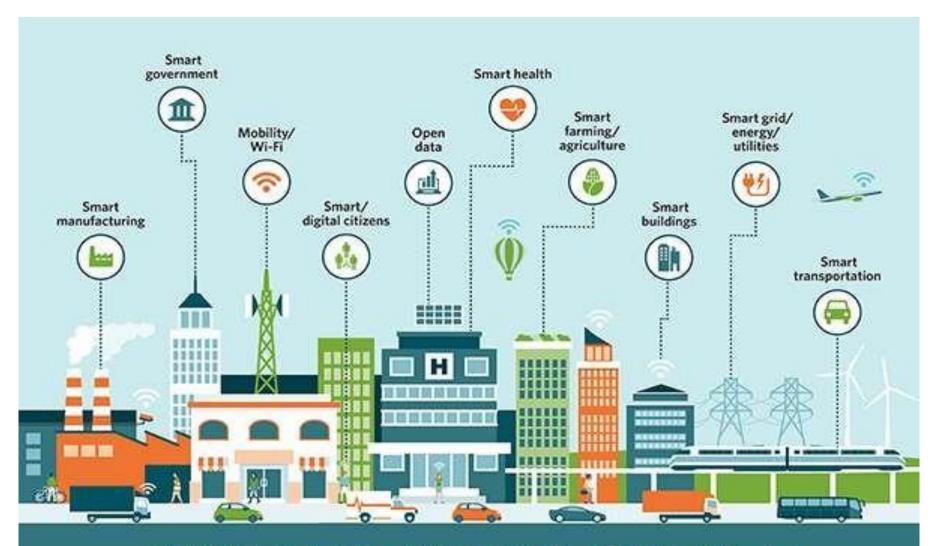






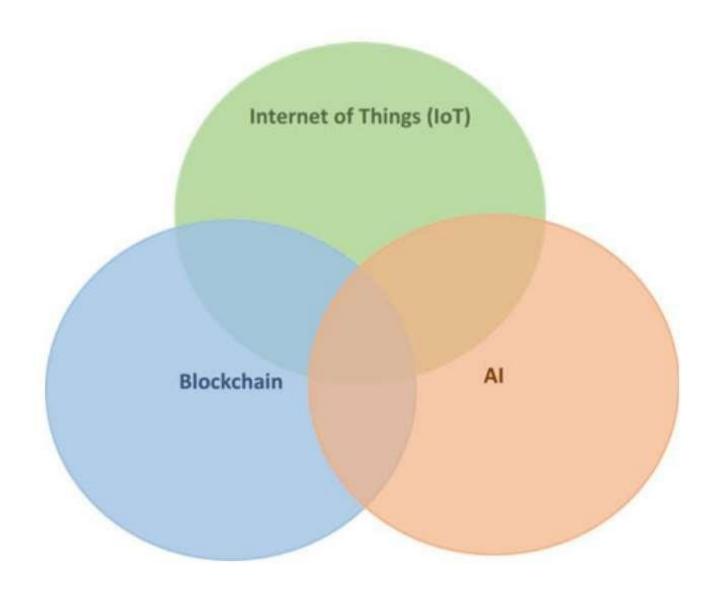
Materiale didattico per partecipante al corso "TECNICO ESPERTO NELL'ANALISI E NELLA VISUALIZZAZIONE DEI DATI" – Rif.P.A. 2021-15998/RER – approvata con DGR n. 1263 del 02/08/2021 di IFOA – Istituto Formazione Operatori Aziendali

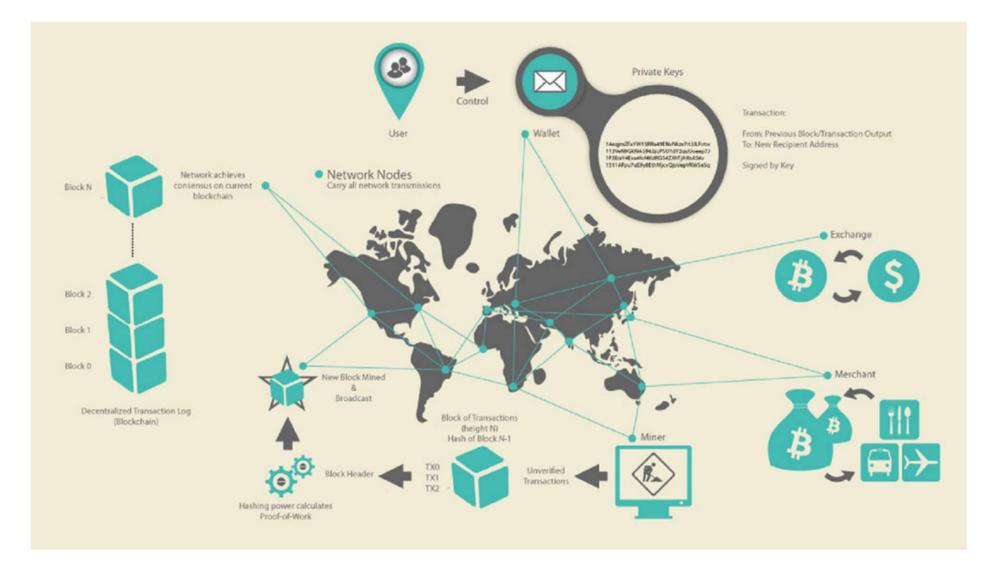


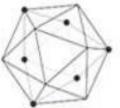


SMART CITY COMPONENTS

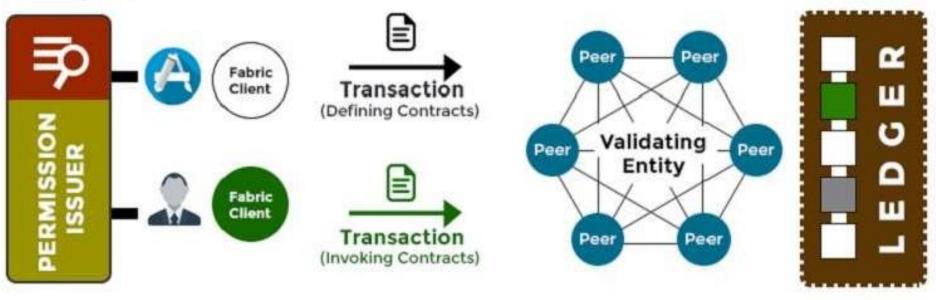
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HYPERLEDGER FABRIC

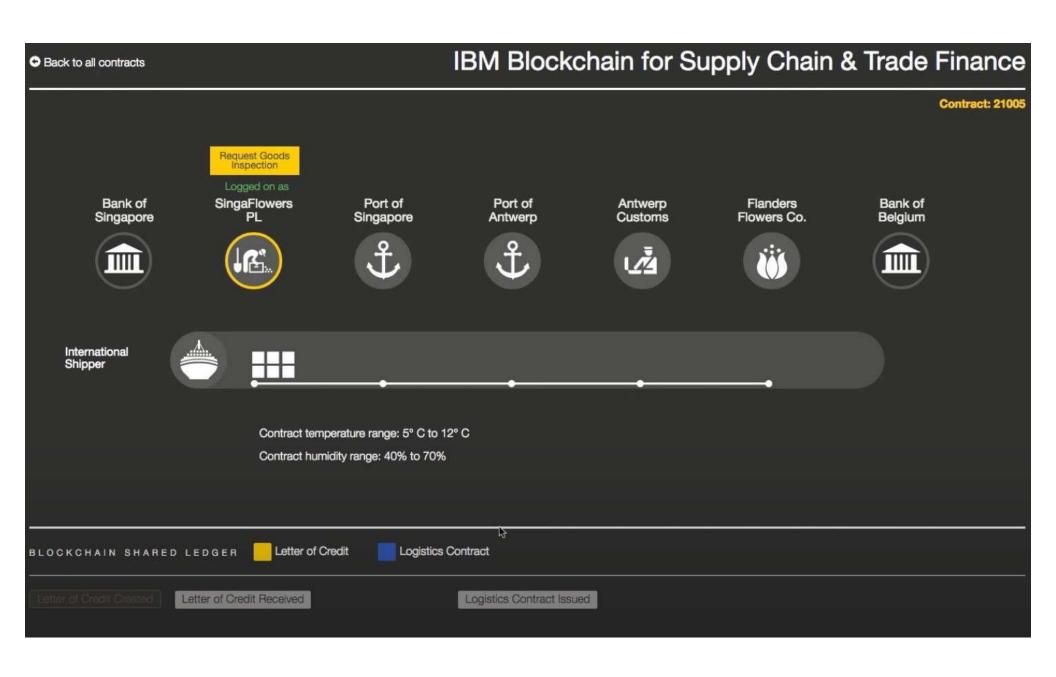


Add New Contract€

Container ID	Content	Exporter	 B	Loading Port		Port of Entry	~ ₽	Importer
MK20333	1000 red roses with lon	Ecuador Grower		Port of Guayaquil		Berlin Port	9	Berlin's Fresh Cuts
MK112200	1000 dendrobium bouq	Ecuador Grower		Port of Guayaquil	0	Berlin Port		Berlin's Fresh Cuts
MK003489	30000 Pink Roses long	Ecuador Grower	9	Port of Guayaquil		Berlin Port		Berlin's Fresh Cuts
MT45000	30000 pink daisies	Ecuador Grower		Port of Guayaquil		Perlin Port		Berlin's Fresh Cuts
MK77793	25000 dendrobium bou	Malay Grower		Port Kelang		Port of Antwerp		Wholesale Flower
MK12000	30000 Pink Carnations	Pichai Flowers		Onne Port		Port of Hamburg		Berlin's Fresh Cuts
MK10220	50000 Vandas long stems	Pichai Flowers		Laem Chabang		© Elizabeth		Trader Joe's
MK99999	20000 Dendrobiums	Pichai Flowers		Songkhla		Kobe Port	0	Flowers of Kyoto
MK12345	100000 Red Roses long	Grower Group		Santa Marta Port		San Francisco		Trader Joe's
MK00001	100000 white mums - p	Grower Group		Barranquilla		Elizabeth		Walmart
MK10035	20000 Red Tulips	FlowerWorld		Port of Antwerp		Kobe Port	0	Flowers of Kyoto
MK30443	30000 Purple Dendrobi	Ecuador Grower		Port of Guayaquil	0	Kobe Port		Flowers of Kyoto
MK20110	70000 White Dendrobiu	Pichai Flowers		Lam Chabang	9	Kobe Port		Flowers of Kyoto

IBM Blockchain for Supply Chain & Trade Finance Back to all contracts Contract: Issue Letter of Credit Bank of Belgium International Shipper BLOCKCHAIN SHARED LEDGER



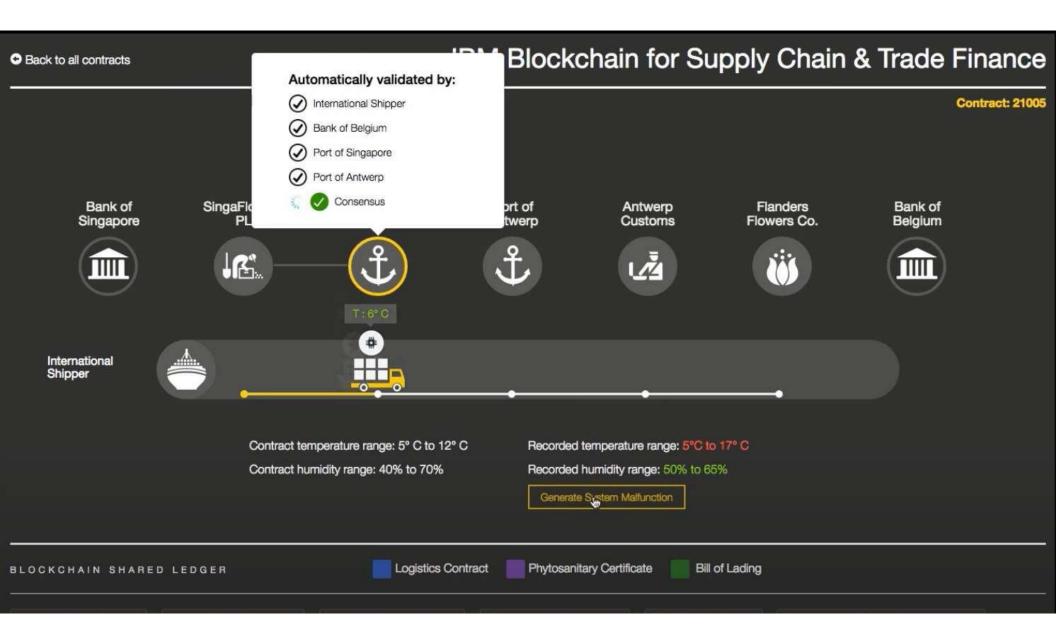


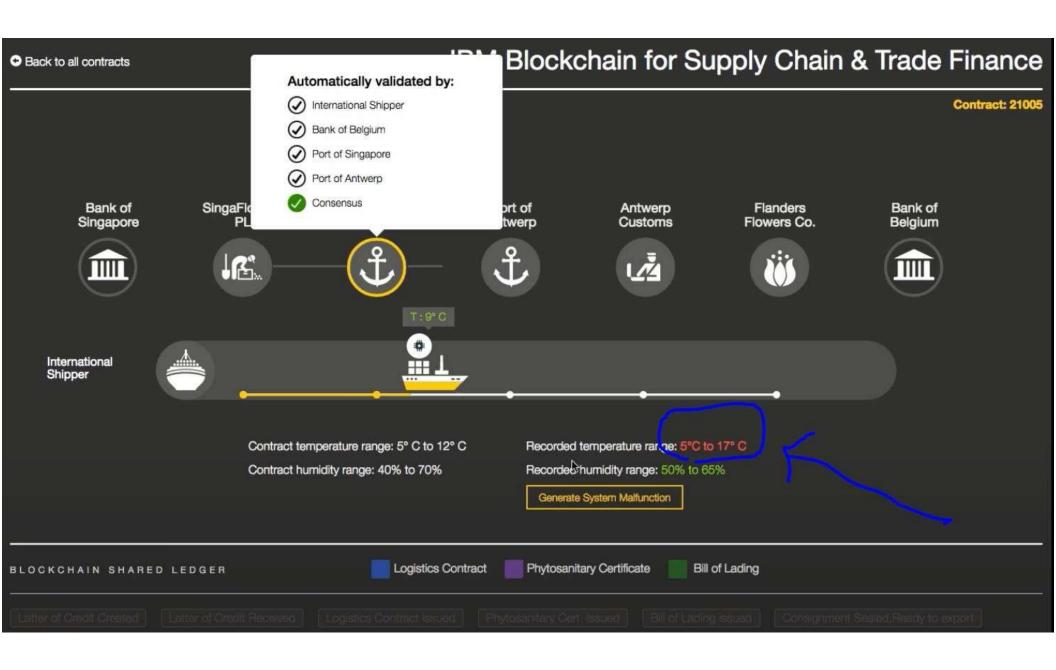


Contract: 2100

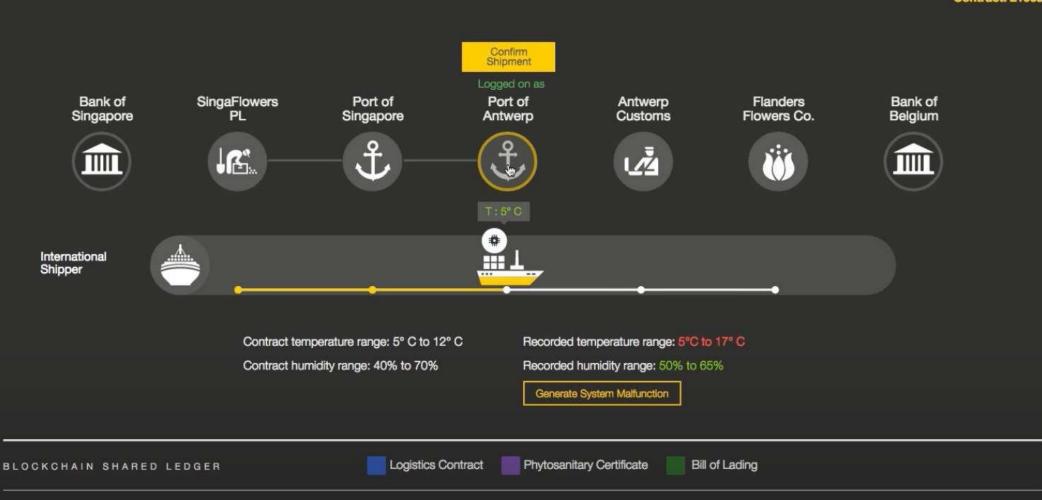


IBM Blockchain for Supply Chain & Trade Finance Back to all contracts Contract: 21005 Click this participant for the next step Bank of SingaFlowers Port of Port of Flanders Bank of Antwerp Singapore Singapore Antwerp Customs Flowers Co. Belgium International Shipper D Contract temperature range: 5° C to 12° C Recorded temperature range: 6°C to 11° C Contract humidity range: 40% to 70% Recorded humidity range: 50% to 65% Generate System Malfunction Letter of Credit **Logistics Contract** Phytosanitary Certificate Bill of Lading BLOCKCHAIN SHARED LEDGER Letter of Credit Received Logistics Contract Issued Phytosanitary Cert. Issued Consignment Sealed, Ready to export Bill of Lading issued

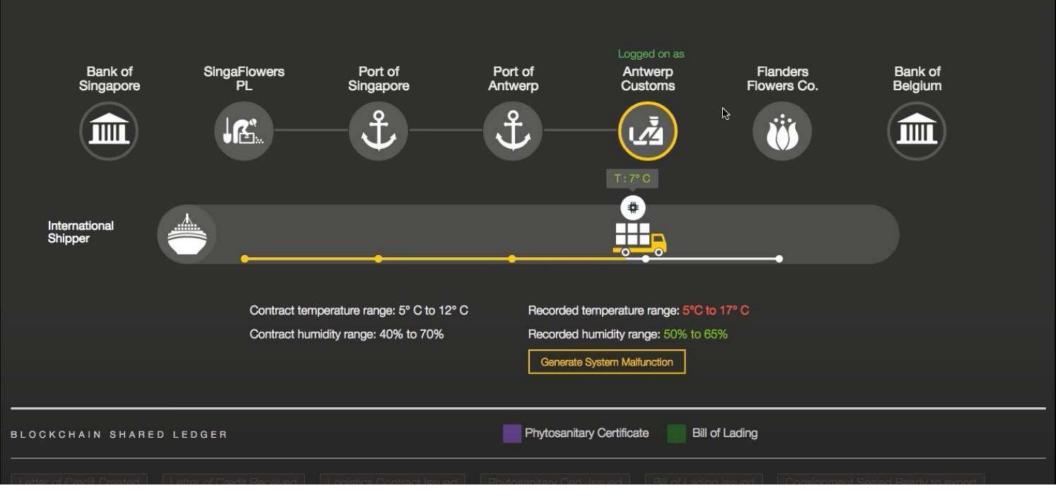




Contract: 21005



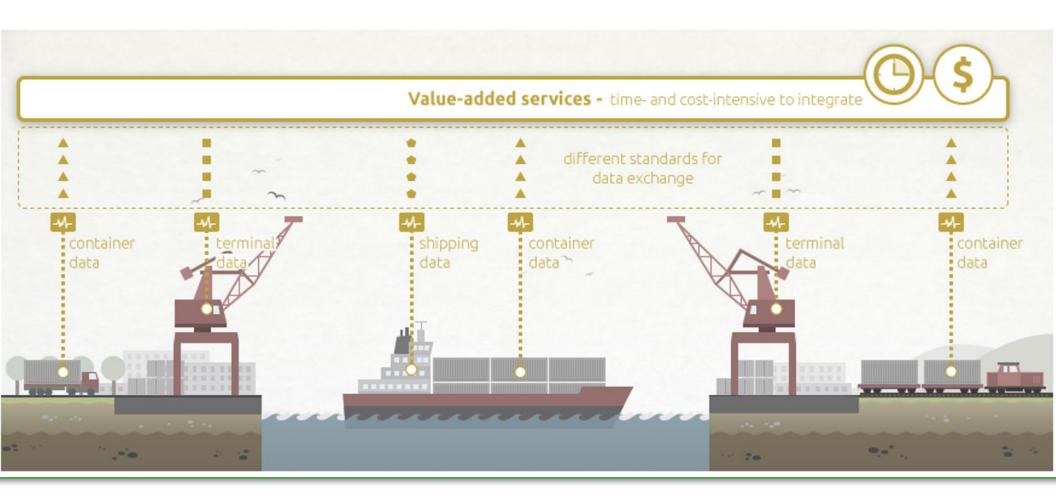
Contract: 21005



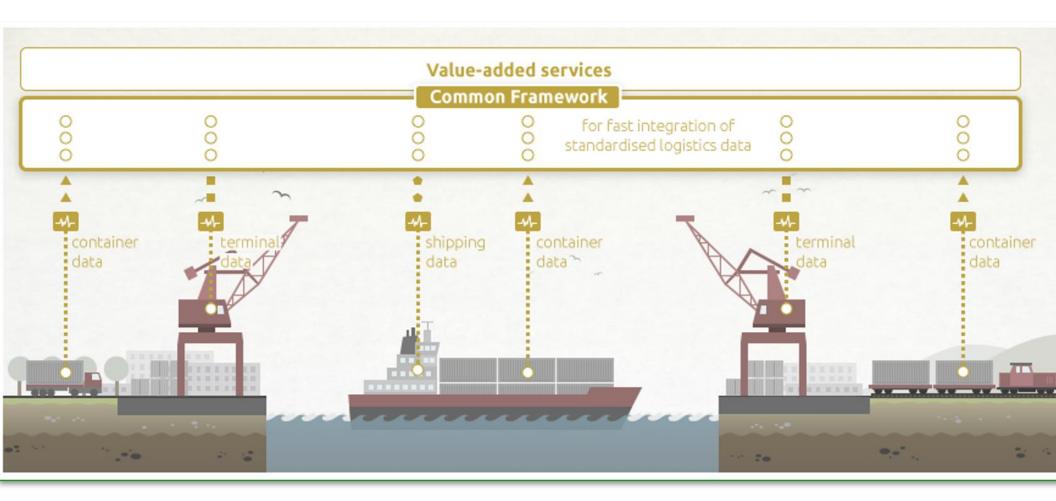
Payment = contract – 2% of penalty

Why and Benefits:

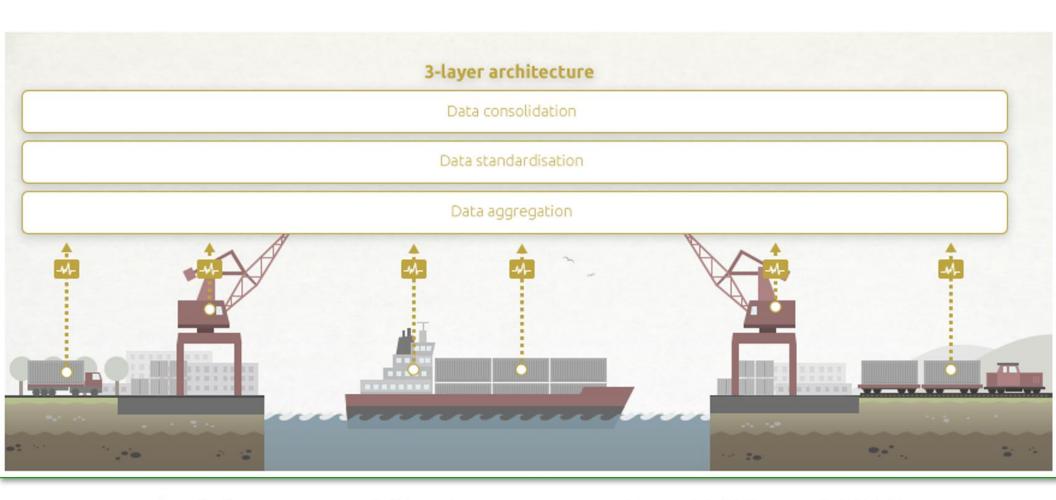
- Deliver awareness throughout global supply chains to solve problems of data fragmentation, delay, and inconsistency.
- Use data drawn from the entire supply chain to provide accurate, comprehensive logistics information.
- Identify problems sooner and adjust plans proactively, <u>minimising</u> the impact of deviations or other exceptions.
- Professional actors benefit from greater operational control and identify opportunities for further improvement.
- By raising the quality of services, actors can also create added value for their customers.



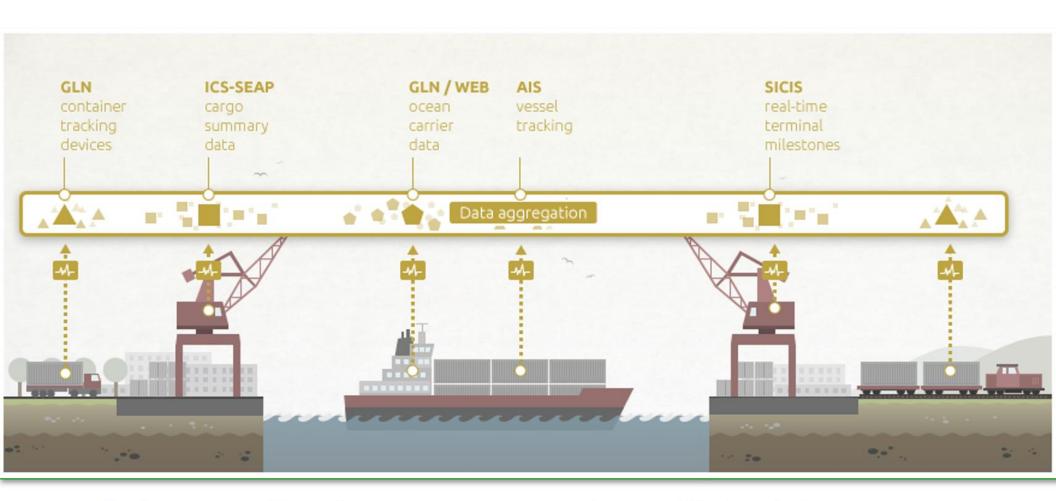
1. Different standards are time- and cost-intensive to integrate



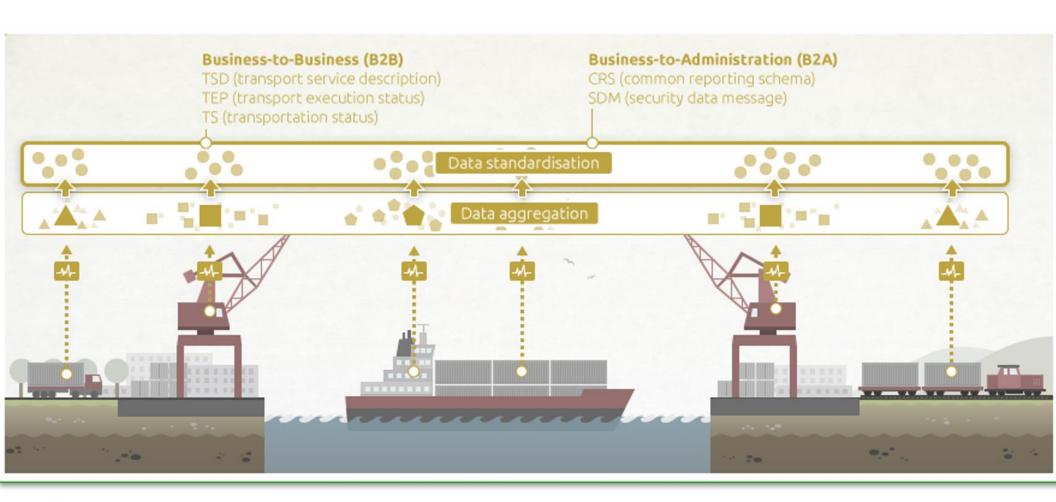
2. Common Framework for fast integration of logistics data



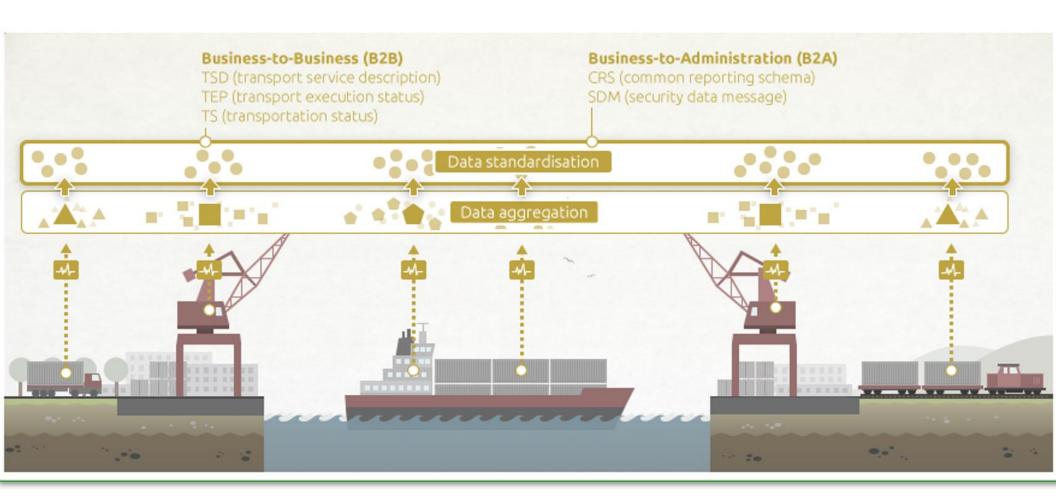
3. 3-Layer architecture supporting B2B and B2C



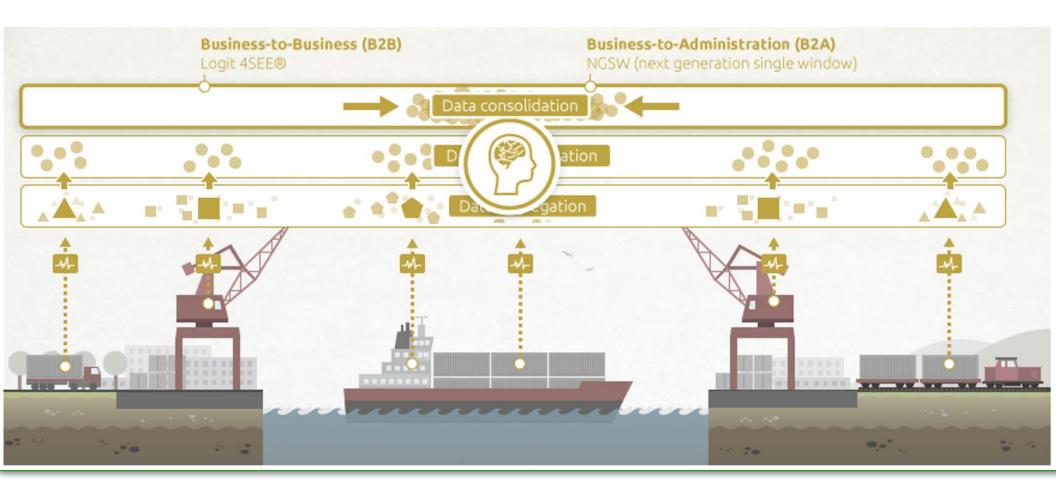
4. Aggregation for easy access to multiple data sources



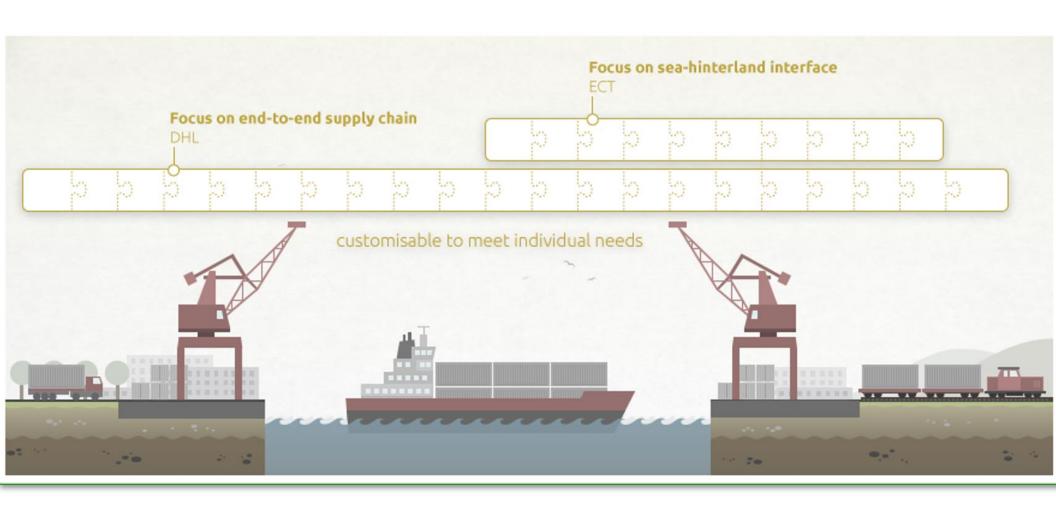
5. Standardised data independent of original source & format



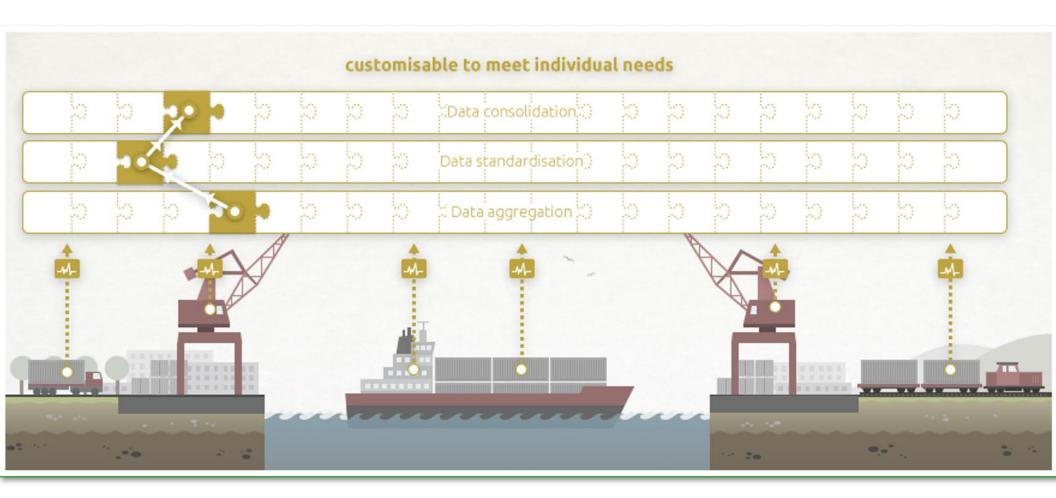
5. Standardised data independent of original source & format



6. Consolidation for qualified information that supports decisions



7. Wide range of applicability



8. Pick the data sources & value added services you need

- Solve the "Black Box" effect: Without true awareness throughout the global supply chain, it is difficult to accurately predict when shipments will arrive, especially if delays occur en route.
- Abandon disconnected data: There are many proprietary containertracking mechanisms, each with its own interface.
- Provide consistent data: Multiple data sources sometimes provide contradictory or incomplete information, and the resulting uncertainty has implications for operational costs and service quality.