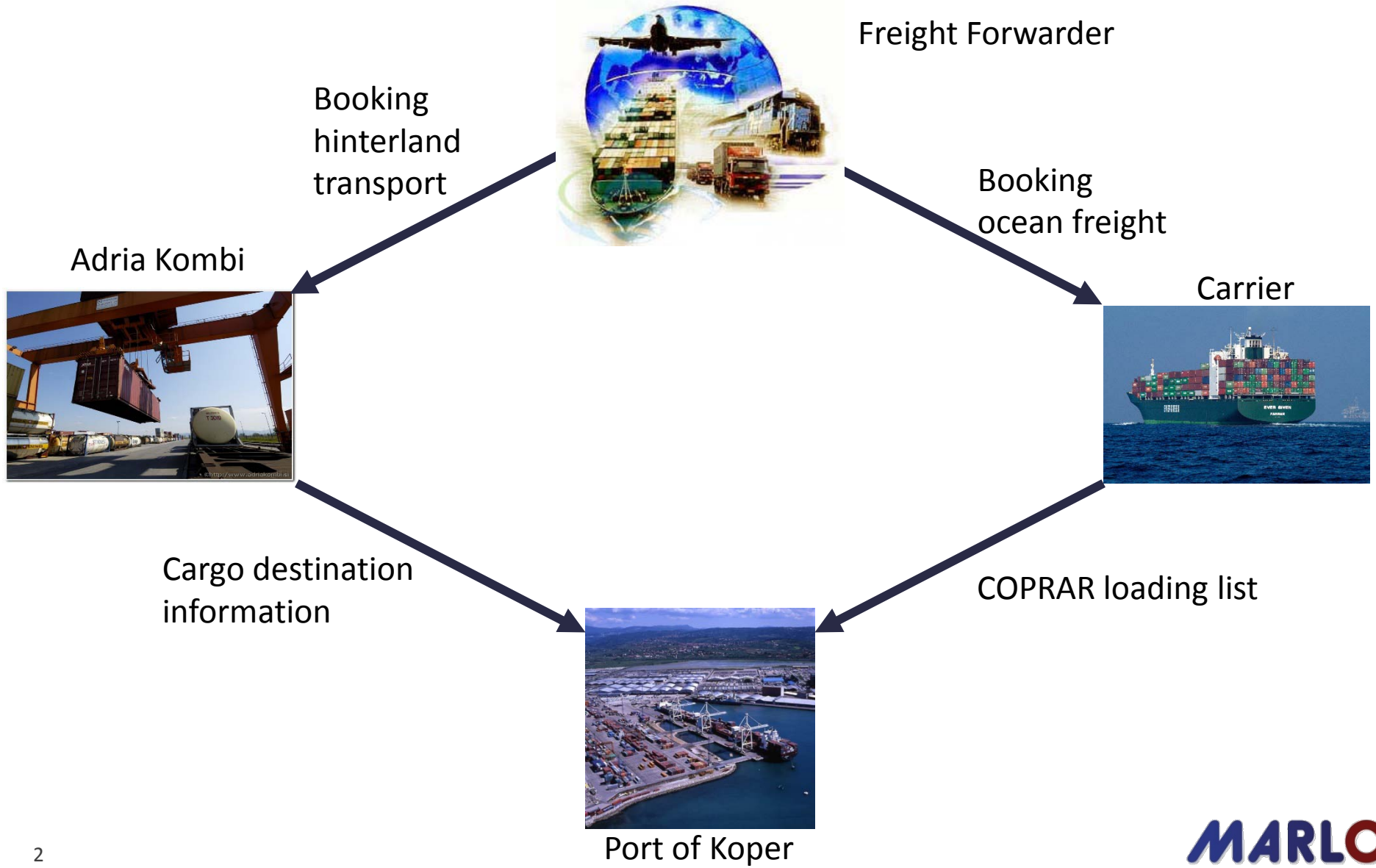
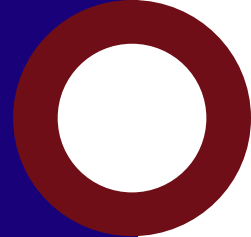


MARLO

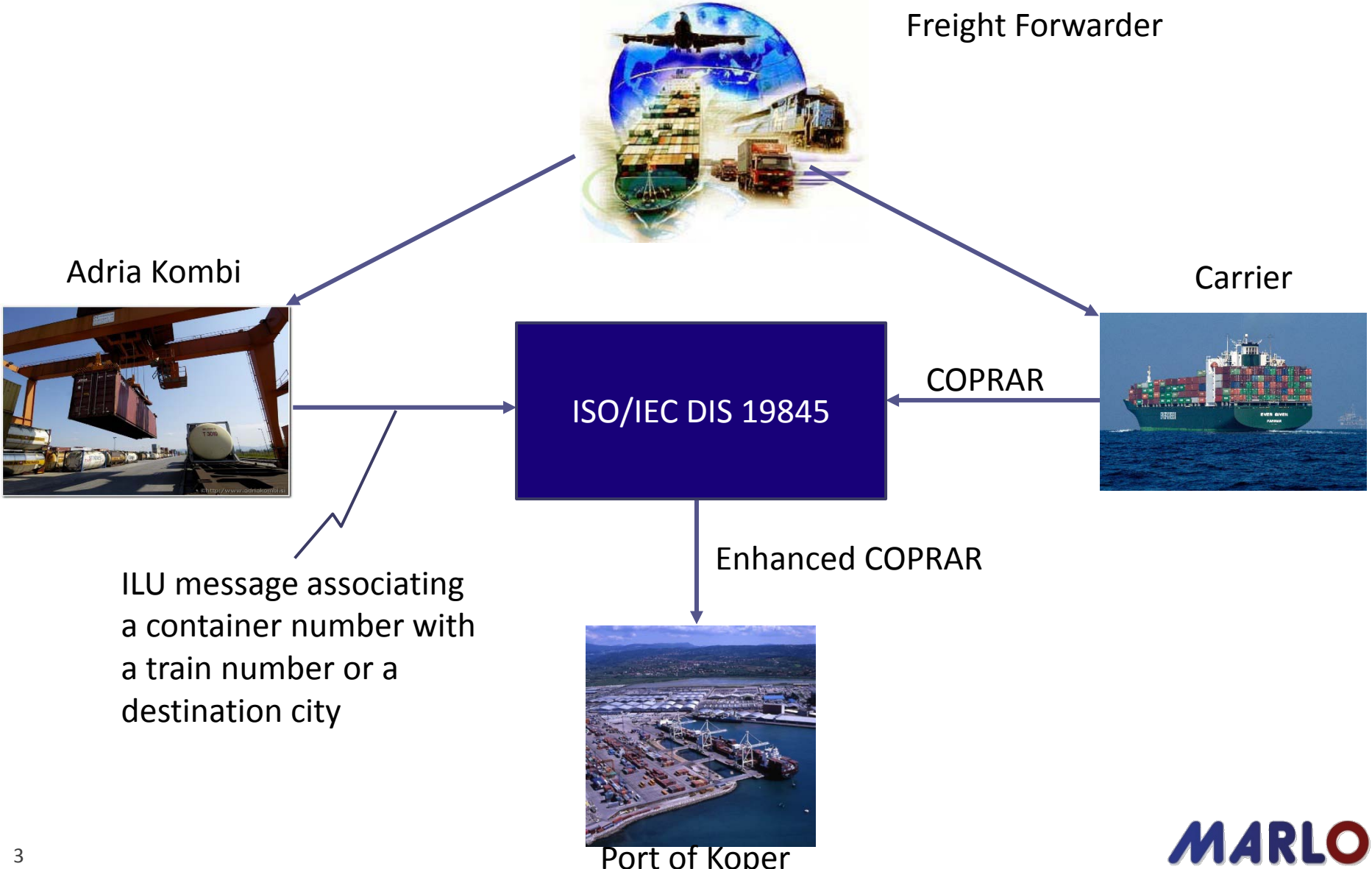
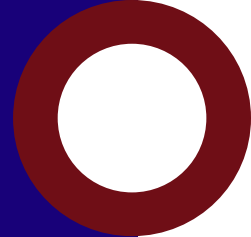
Beyond Interoperability

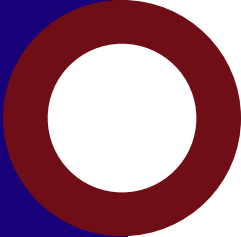
Dr.ing. Jan Tore Pedersen

Adria Kombi/Luka Koper Challenge

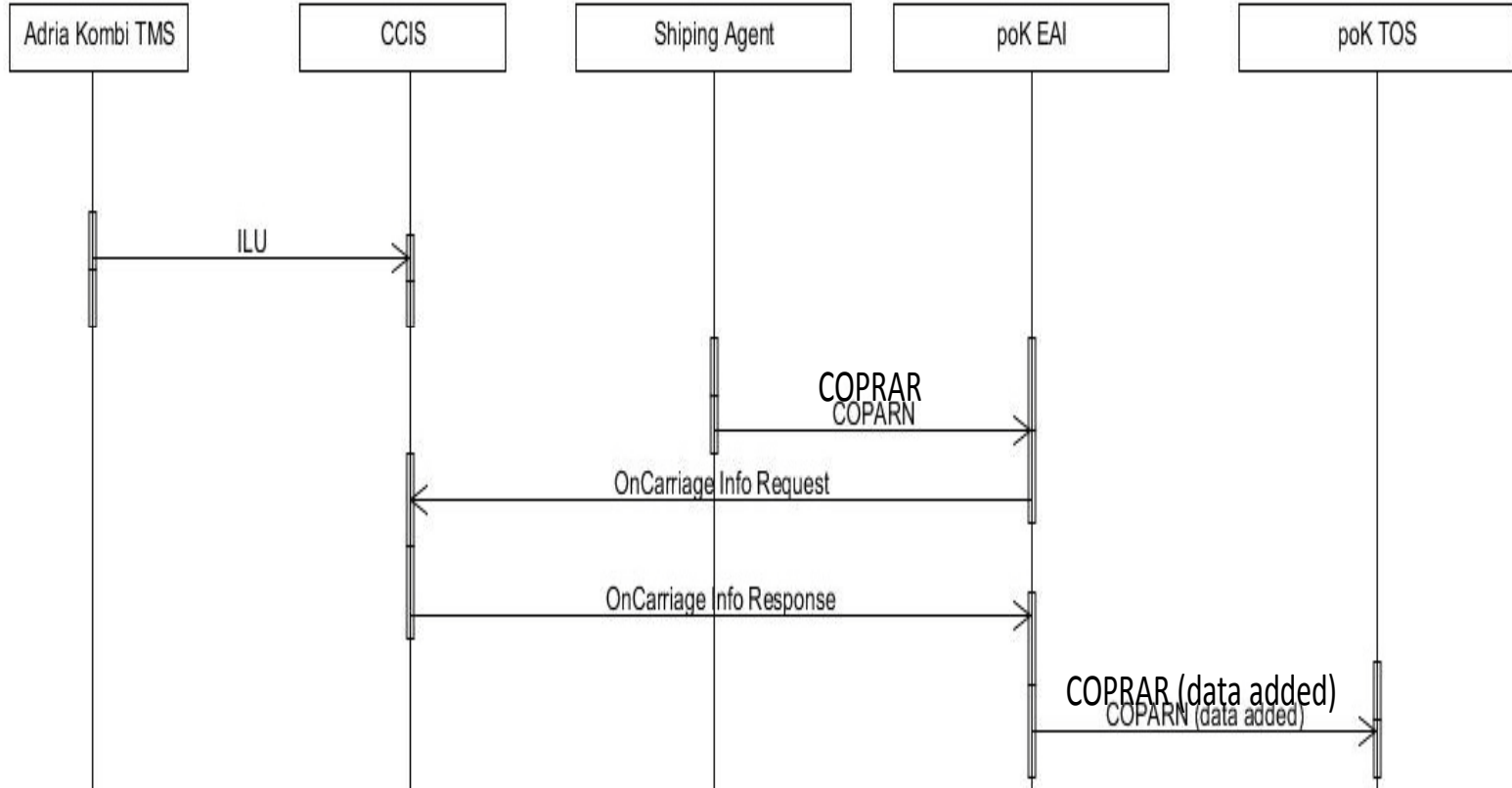


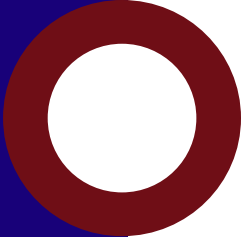
Solution



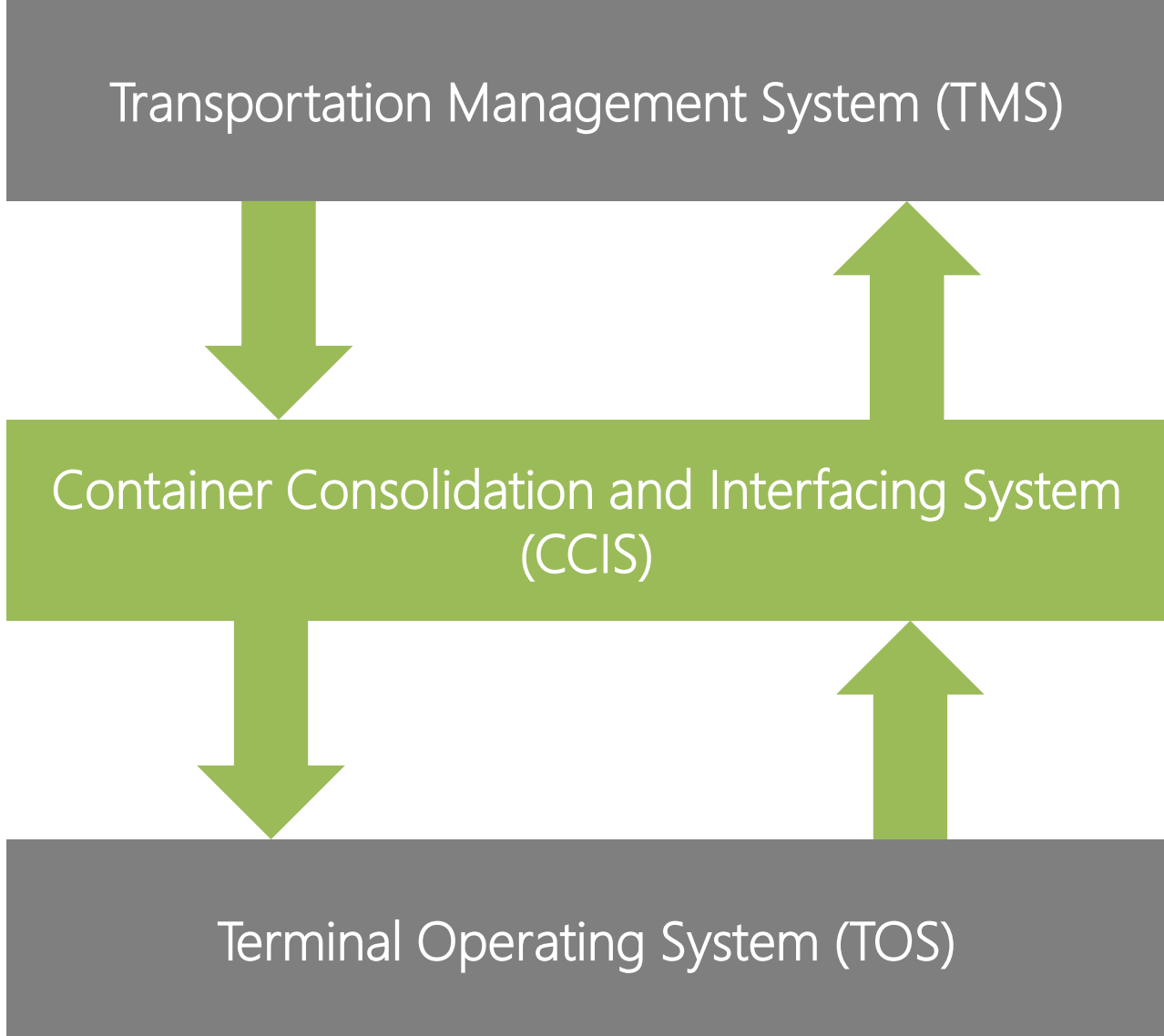


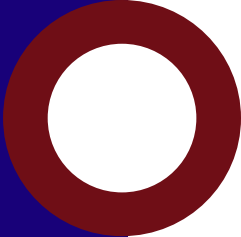
Adapting to ICT Infrastructure





Format Conversion





Industry Communities and Standards



papiNet[®]



OASIS UBL
Advancing open standards for the information society

ODETTE

ROSETTANET

TAF TSI



LOGINK

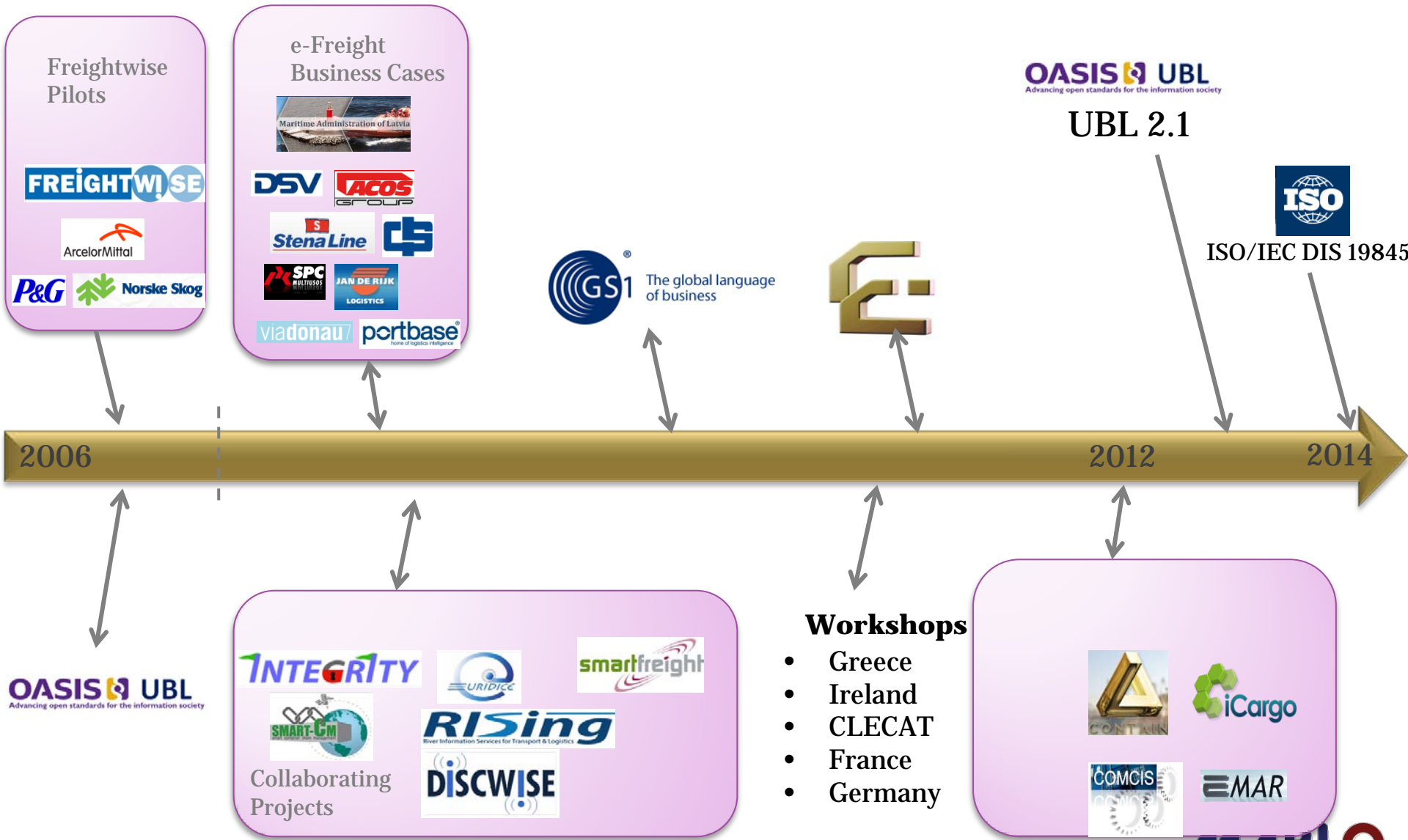
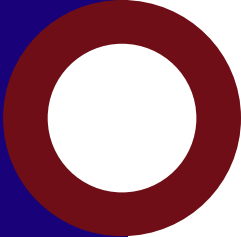
NEAL-NET



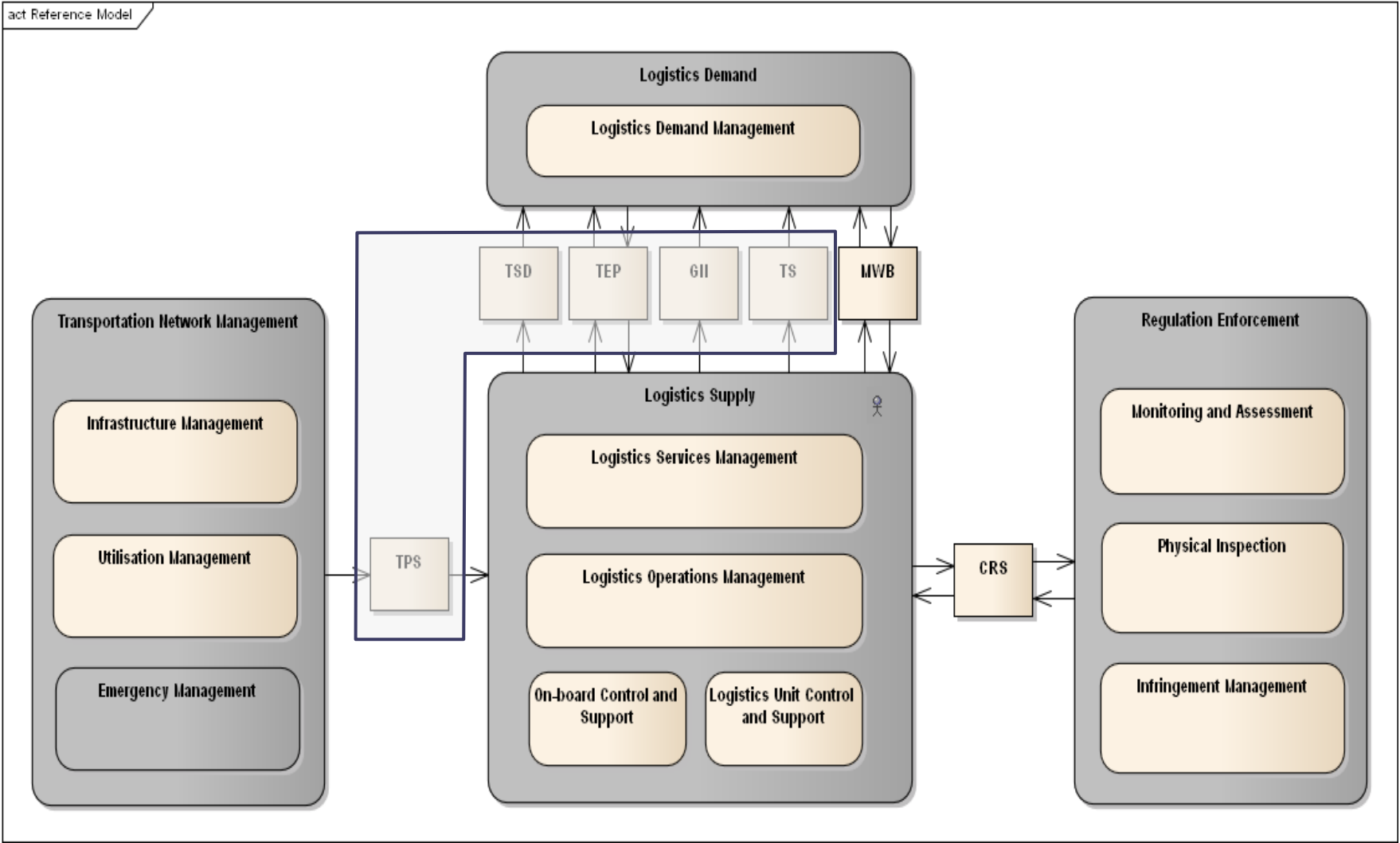
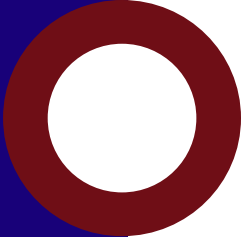
UN/CEFACT

MARLO

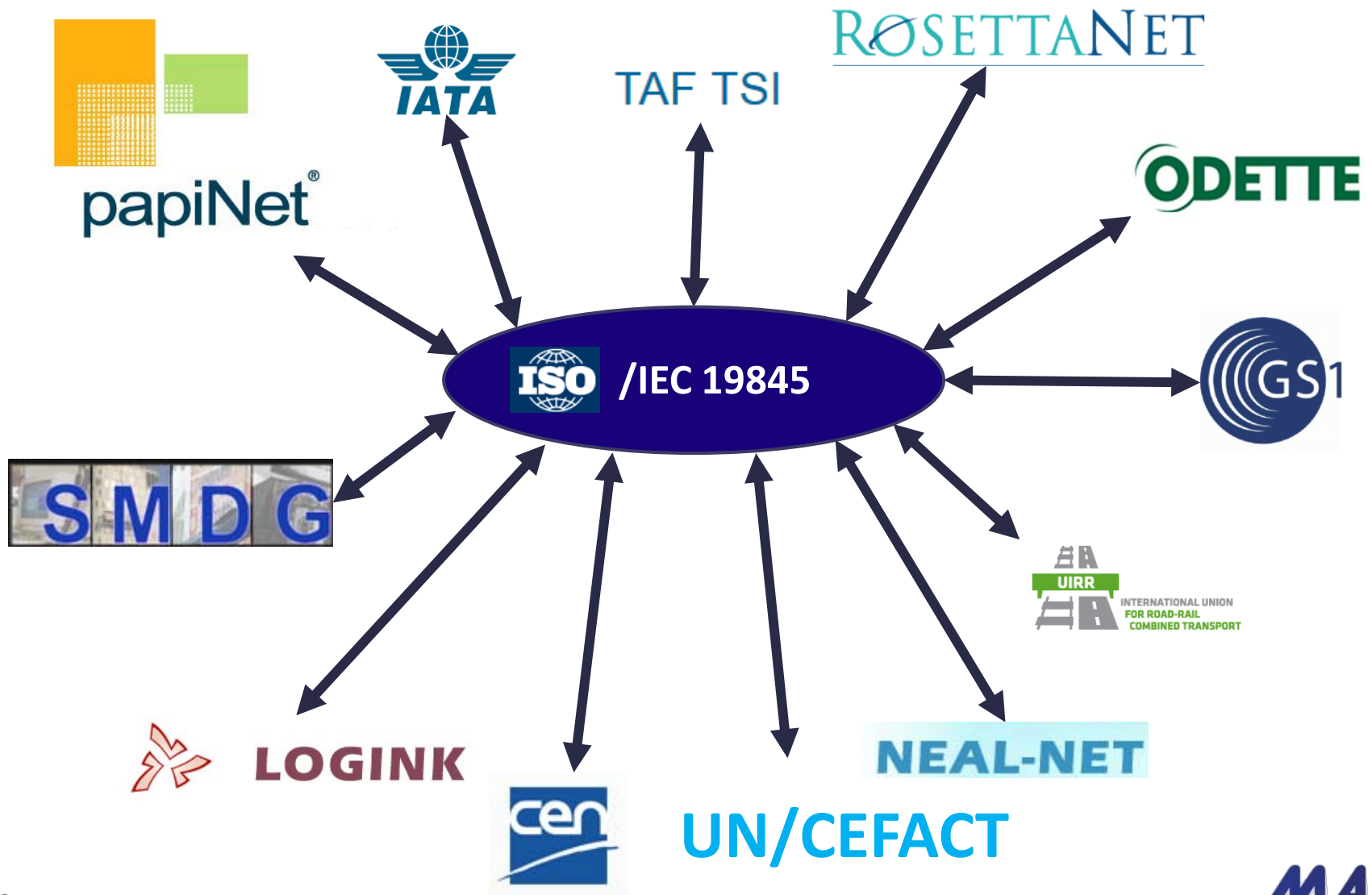
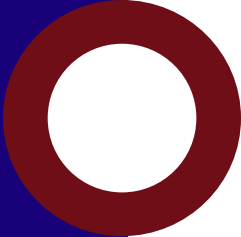
ISO/IEC 19845

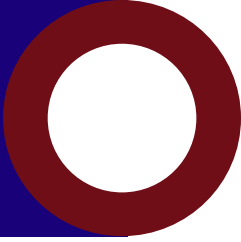


ISO/IEC 19845 Reference Model



Interoperability

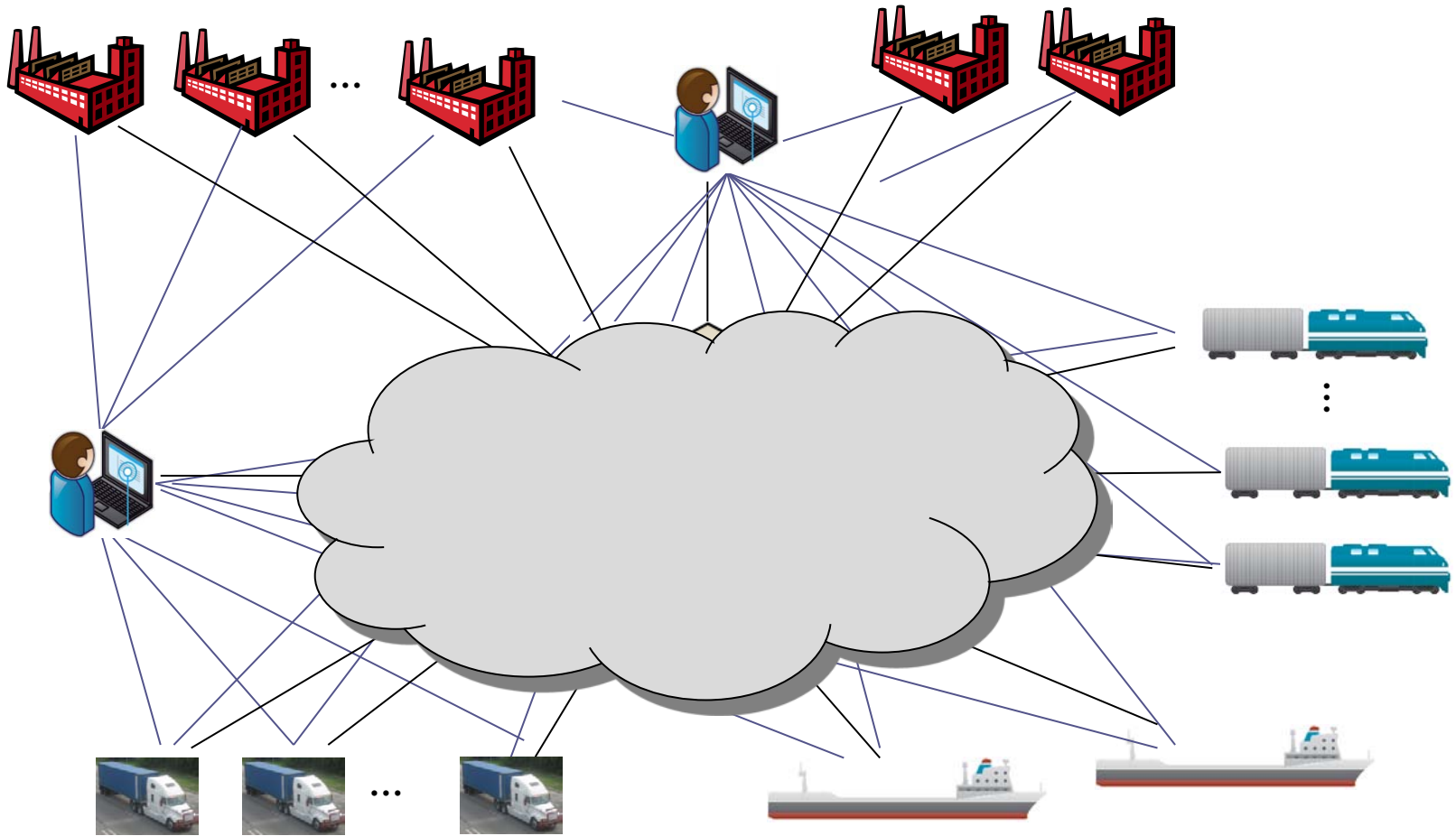
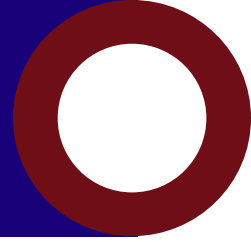




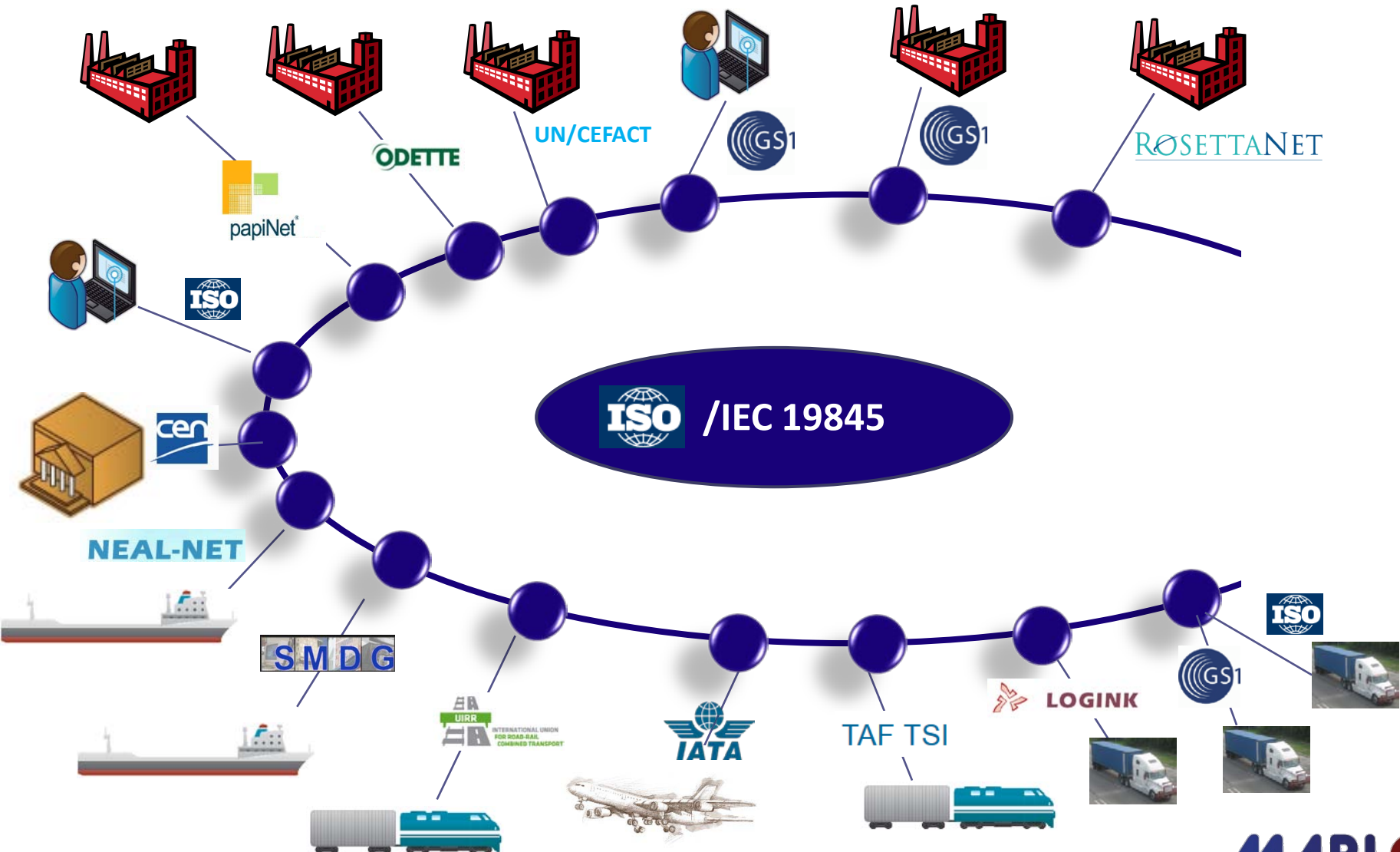
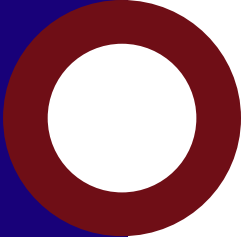
Connectivity and Interoperability

- Two sides of the same coin
- Challenge: Provide interoperability and connectivity “***without changes***” to existing to existing legacy systems
- ***Connect once*** – communicate with all “friends” that are connected

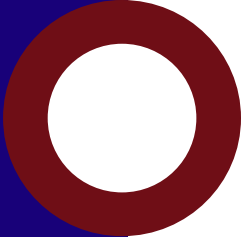
AS-IS Connectivity



The future is now



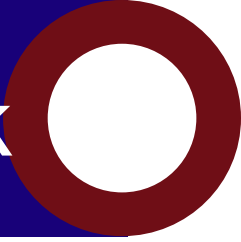
How it works



Receive
Convert to ISO/IEC 19845
Identify access point of receiver
Send

Receive
Identify receiver (profile)
Convert from ISO/IEC 19845
Send

ISO/IEC 19845 - Common Framework



- Based on a reference model that incorporates requirements from:
 - ✓ WCO data model
 - ✓ Multimodal framework ARKTARNS
 - ✓ Requirements from all types of logistics stakeholders
 - ✓ Conceptually harmonised with LIM form GS1
 - ✓ ITIGG (International Transport Implementation Guidelines Group)
 - ✓ Guide to the UN/EDIFACT containers messages
 - ✓ Ports of Singapore and Hong Kong
 - ✓ US Dept of Transport.
 - ✓ UN/CEFACT
- Provides the best available basis for interoperability in freight transport and logistics



MAX GW 75,000 8522
TARE 4,500 522
MAX CW 70,500 8000
CU CAP 75.4 8526
2,700 317

Thank you!

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