

Donau River Information Services



Test Centre

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Project Manager

via
donau

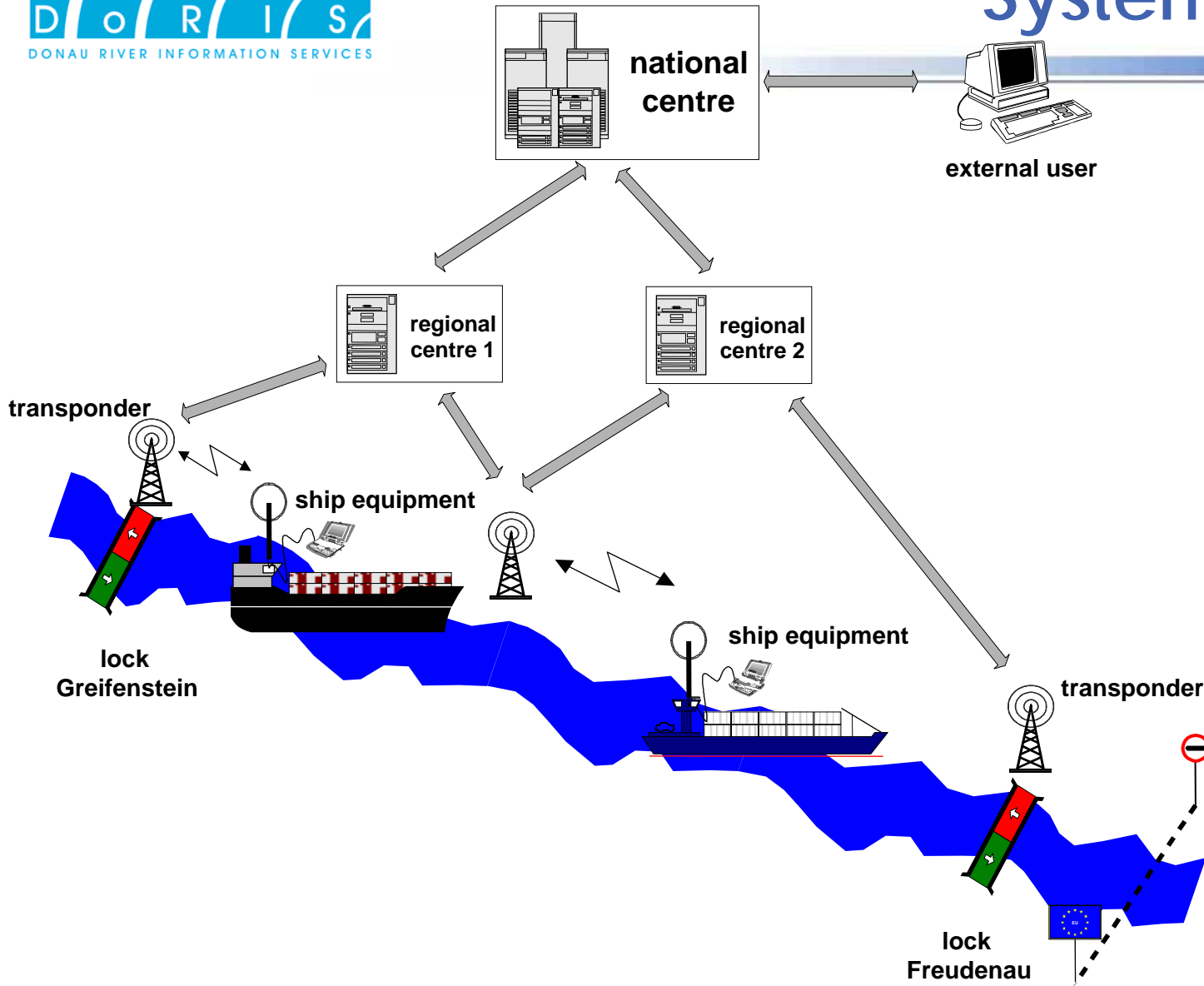


- Test of the system components
(technological maturity, stability, availability, reliability)
- Consideration of the technological development
(low-cost transponder, DGPS-GSM/UMTS, EGNOS, EUROFIX, GALILEO)
- Development of the application environment on governmental level: OSB, BMI & BMF
(information & data management, user interface, administrative processing)
- Prepare implementation of RIS on the Austrian part of the Danube
- Reference centre for the cross-border installation of a River Information Service on the Danube
















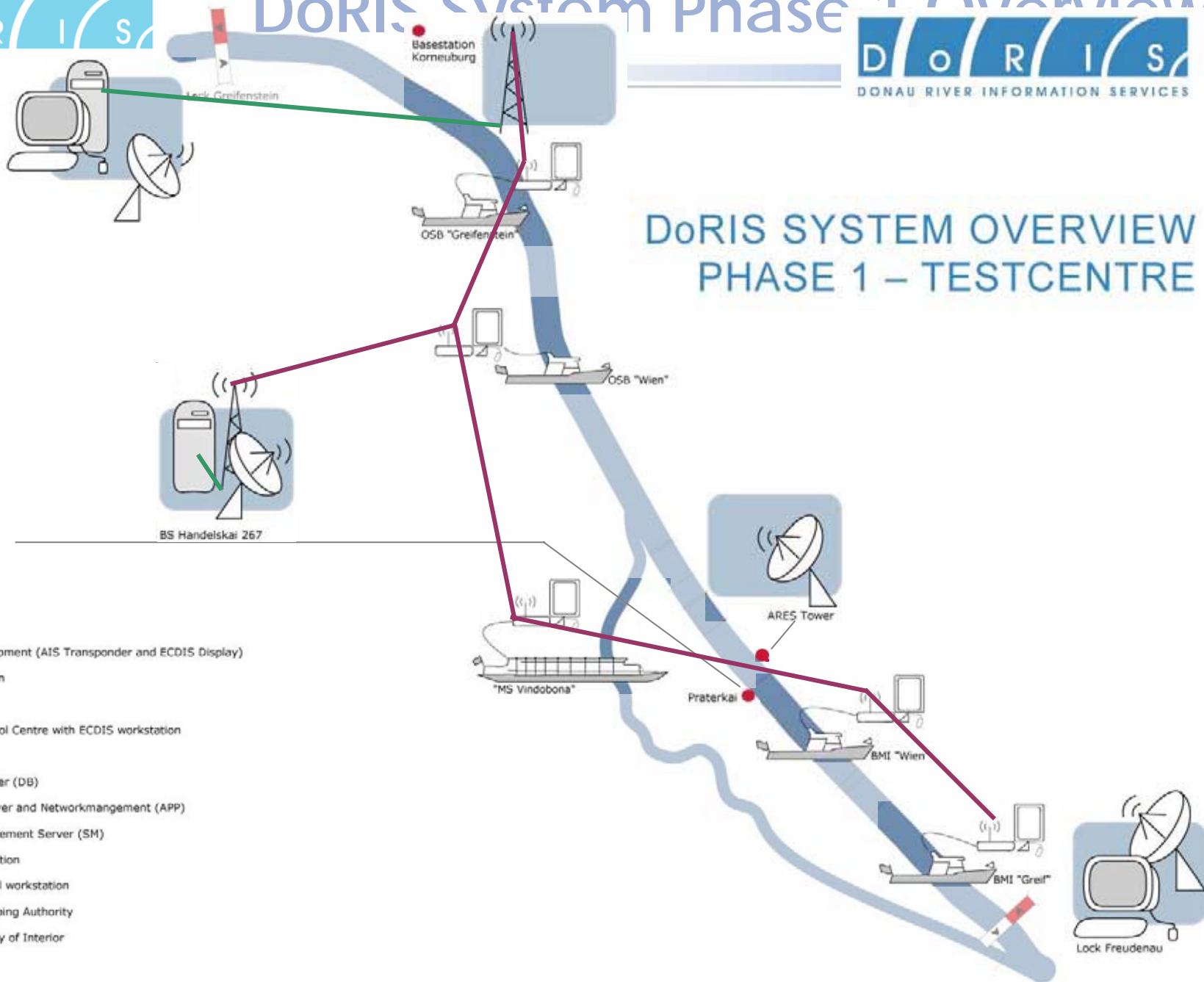
- Transponder with AIS-Communication
 - From Ship to Ship
 - From Ship to Shore and Shore to Ship
- Compatibility with Solas Transponders
- 2 sec Position Reports with GPS, enhanced by DGPS
- Tactical Traffic Image (TTI) in real time and Past Tracks using Inland Waterway ECDIS
- Data Storage of Ship Movement & Identification in centralized Database
- Controlled access to Database for Commercial Users and Logistics Service Providers



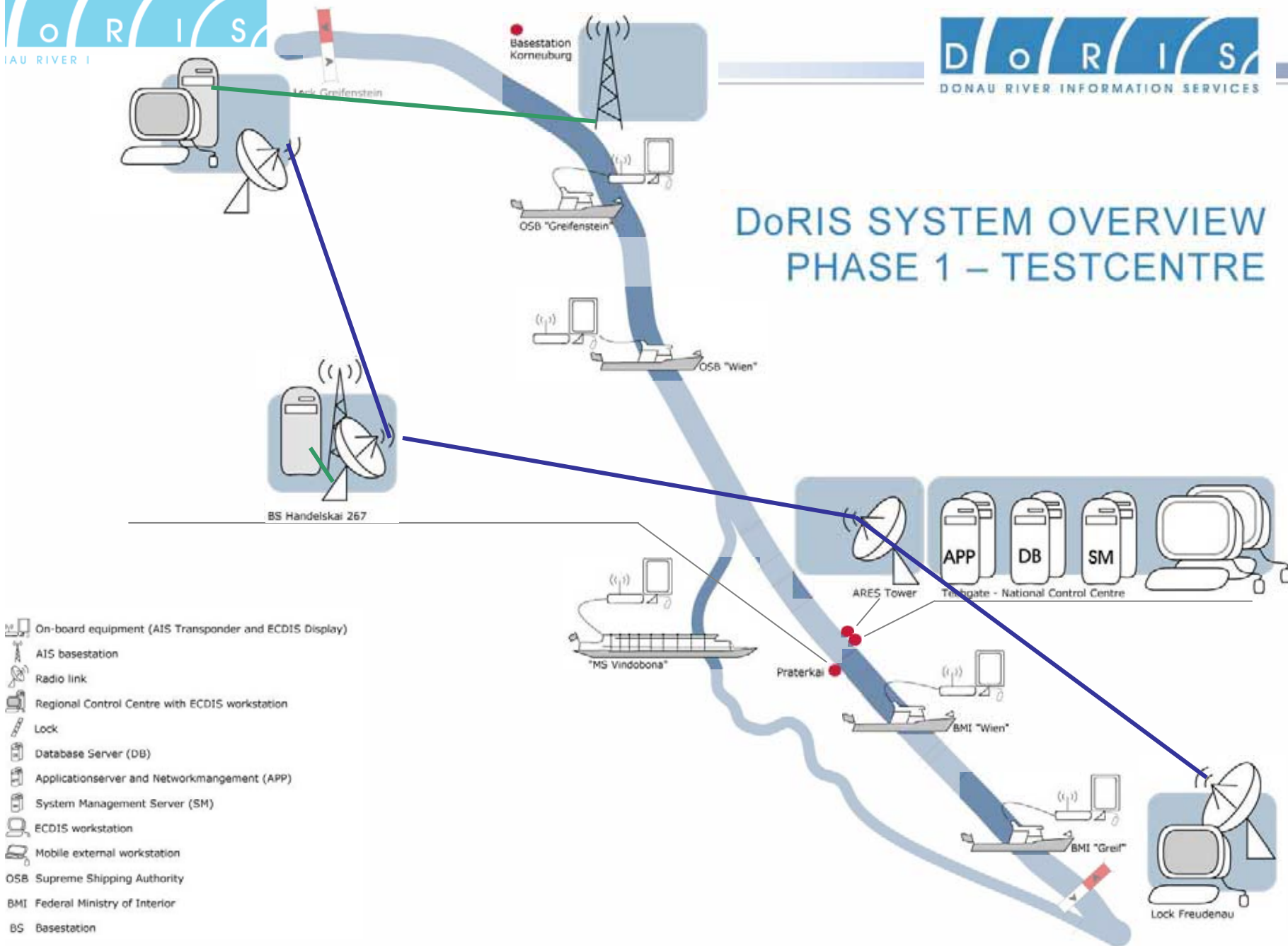


DoRIS SYSTEM OVERVIEW PHASE 1 – TESTCENTRE

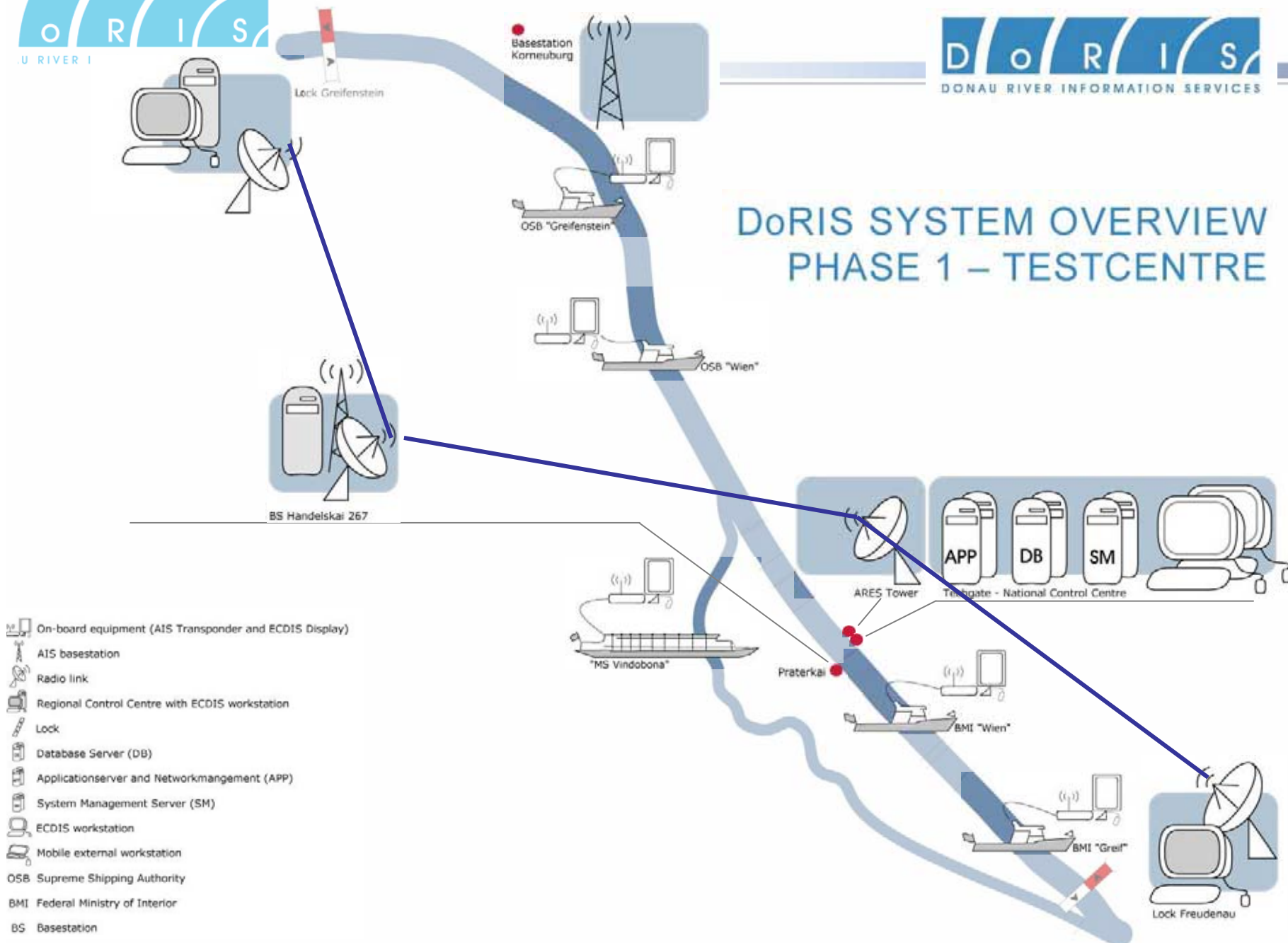
-  On-board equipment (AIS Transponder and ECDIS Display)
-  AIS basestation
-  Radio link
-  Regional Control Centre with ECDIS workstation
-  Lock
-  Database Server (DB)
-  Applicationserver and Networkmangement (APP)
-  System Management Server (SM)
-  ECDIS workstation
-  Mobile external workstation
-  OSB Supreme Shipping Authority
-  BMI Federal Ministry of Interior
-  BS Basestation
















DoRIS SYSTEM OVERVIEW PHASE 1 – TESTCENTRE

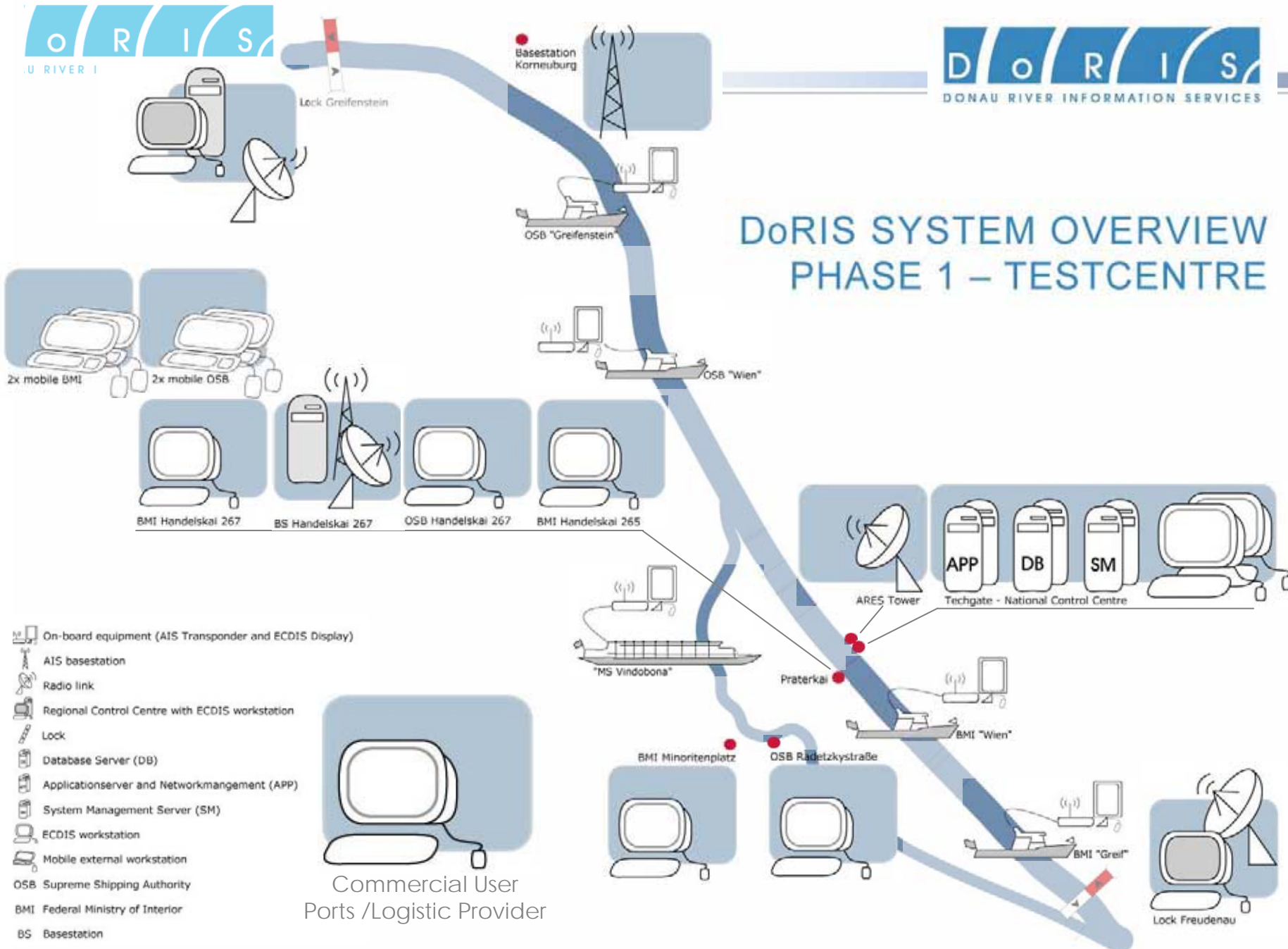


DoRIS SYSTEM OVERVIEW PHASE 1 – TESTCENTRE



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DoRIS SYSTEM OVERVIEW PHASE 1 – TESTCENTRE



2x mobile BMI
2x mobile OSB

BMI Handelskai 267
BS Handelskai 267
OSB Handelskai 267
BMI Handelskai 265

ARES Tower
Techgate - National Control Centre
APP
DB
SM

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Commercial User
Ports /Logistic Provider

- Retrieve selected Ship Location and related Ship Information (from Database)
- Monitor selected Ship Movement on Waterway (Fleetmanagement)
- Integrate Real Time Ship Data in Logistic Provider Services



Visit to the National Control Centre (NCC)

Demonstration of Operation in NCC

- Tactical Traffic Image (TTI) in real time
- TTI with Past Track Data from Database
- Ship Traffic Data including Location, Identification and Data on hazardous Goods
- System Management and System Monitoring
- Access to selected Ship Traffic Data for Commercial Users and Ports (Web-Interface)
- Manage Personal Data from Crew Members and Passengers via GPRS



- Demonstration on Board
 - Ship-Tour with TTI Radarpilot with Inland ECDIS
 - Ship Client SW for Personal Data Handling
 - Safety Relevant Messages, transmitting and receiving
- Visit to land based Equipment
 - Communication Radio Infrastructure at the Praterkai OSB
 - External Workstation of the OSB with TTI (Austrian Supreme Shipping Authority)



Let's go ...



Let's go ...



- Regional Control Centre in Lock Freudenau and Lock Greifenstein
- 2 AIS-Basestations only, for Length > 33 km of Danube
- Generation of DGPS in every BS
- Real Time and Past Tracks in relevant Range
- Redundant Connection to Data Network
- Autonomous Operation and Storage of Data during xx Hours



- Traffic Monitoring with Tactical Traffic Image
- Monitoring Transport of dangerous Goods
- Traffic and Lock Management
- Enhanced Handling with Personal Data via additional GPRS-Communication Links
- Traceability of events leading to accidents.

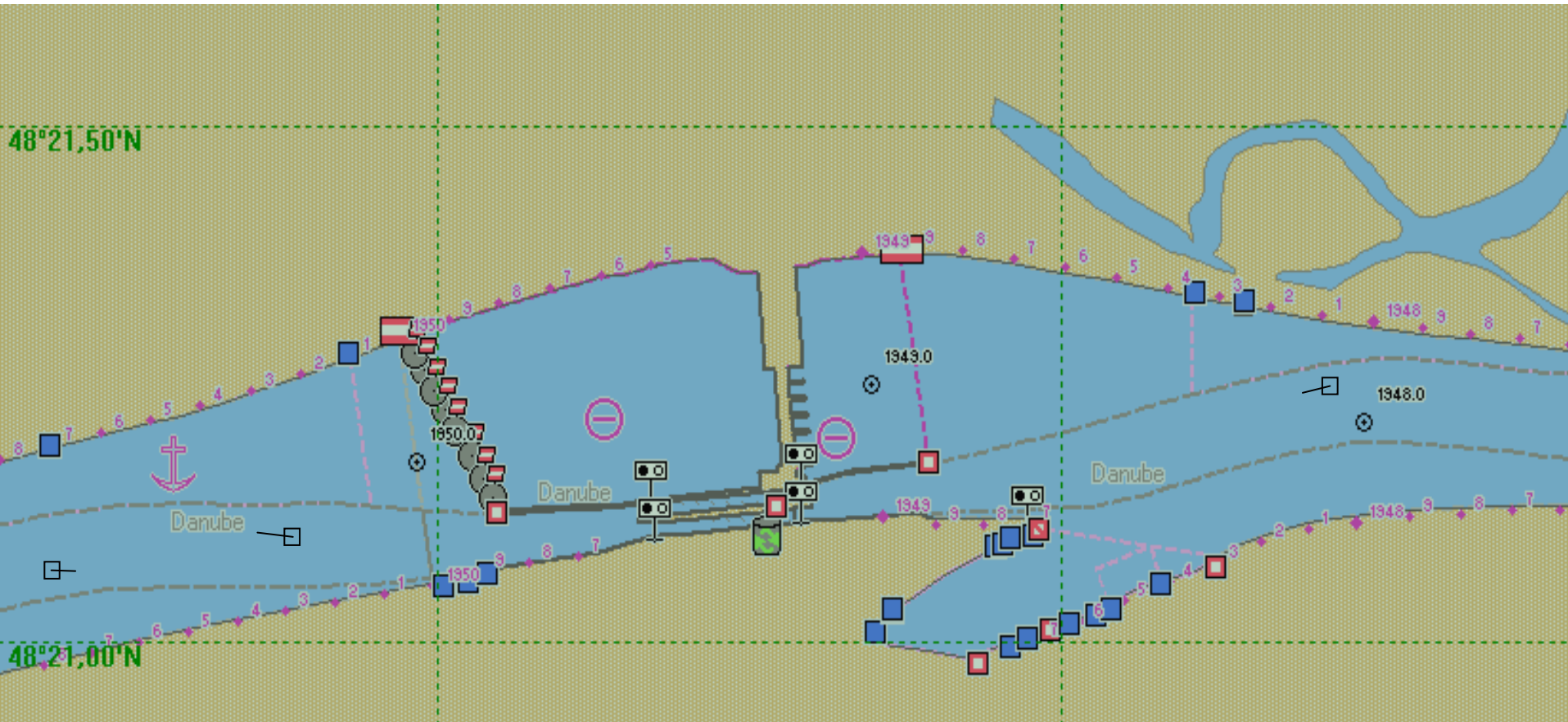


- AIS
- Inland ECDIS
- GPS and DGPS
- TCP/IP and SNMP
- IMO-Transponder Interoperability

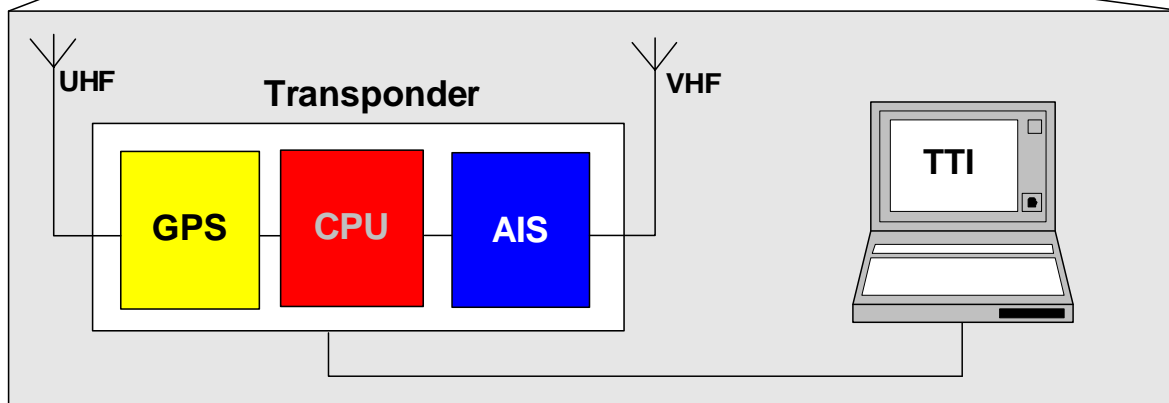
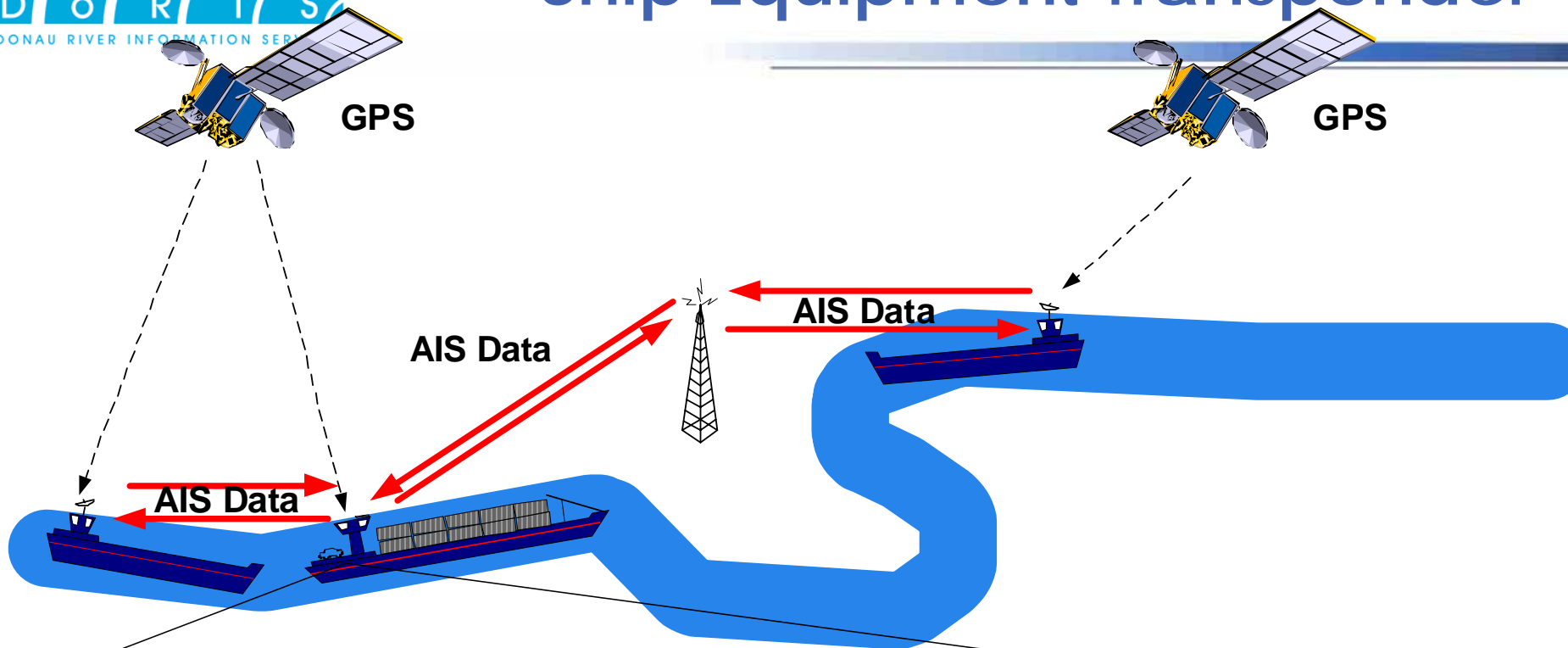


- Client-Server-Concept with Central Database
- Redundant System Architecture for high Reliability
- Real Time Monitoring and Storage of Ship Movement together with Identification (TTI)
- Retrieve and display Past Tracks of selected Areas and Time Windows (historic TTI)



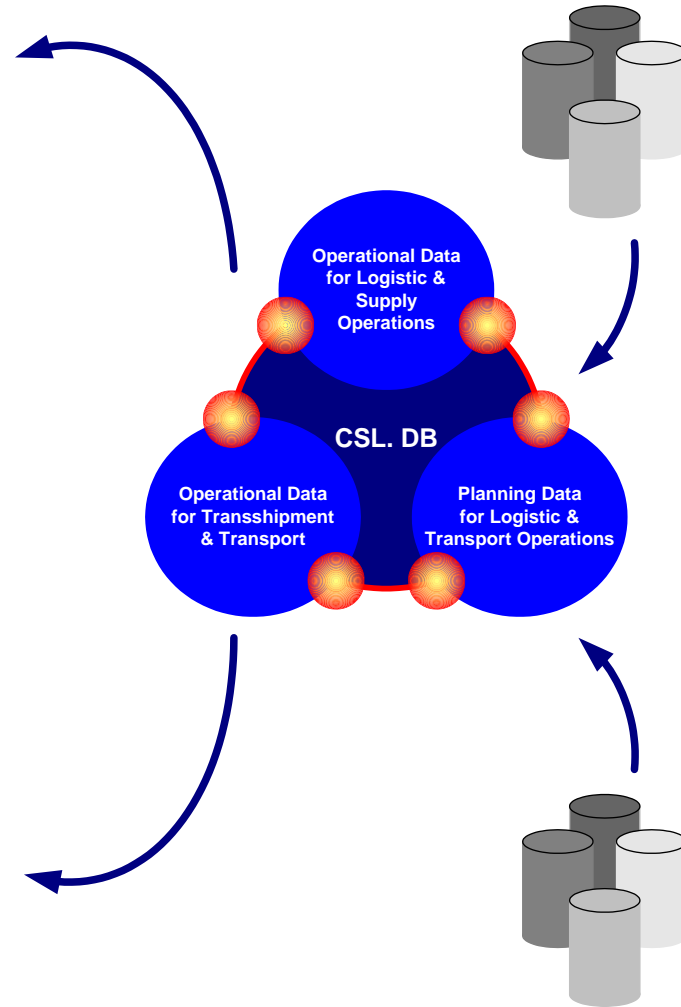
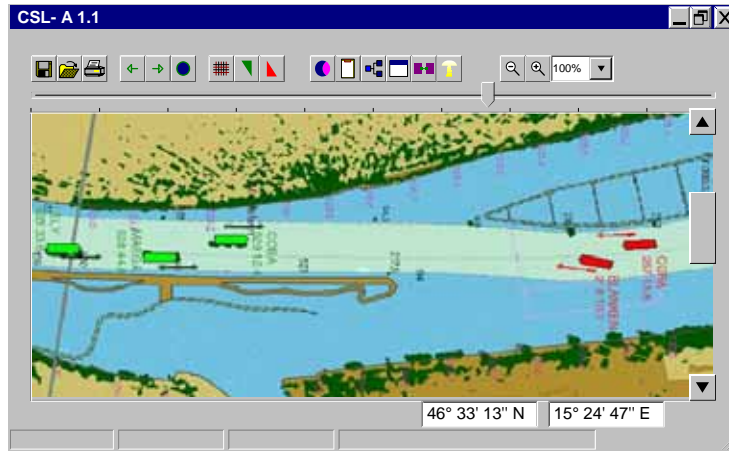
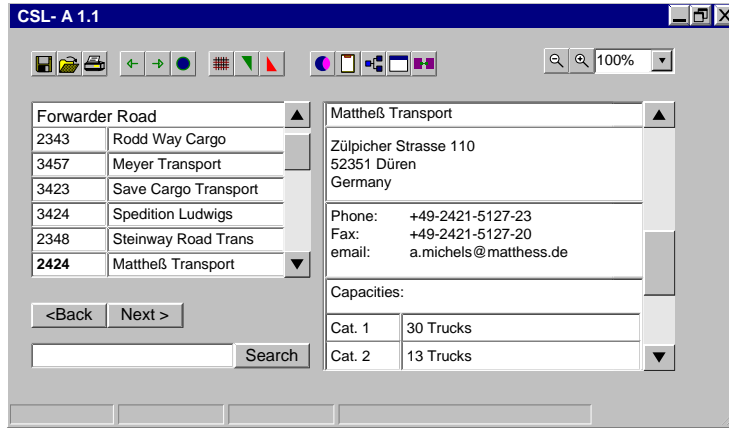


Ship Equipment Transponder



Tactical Traffic
Image – TTI,
Inland-ECDIS



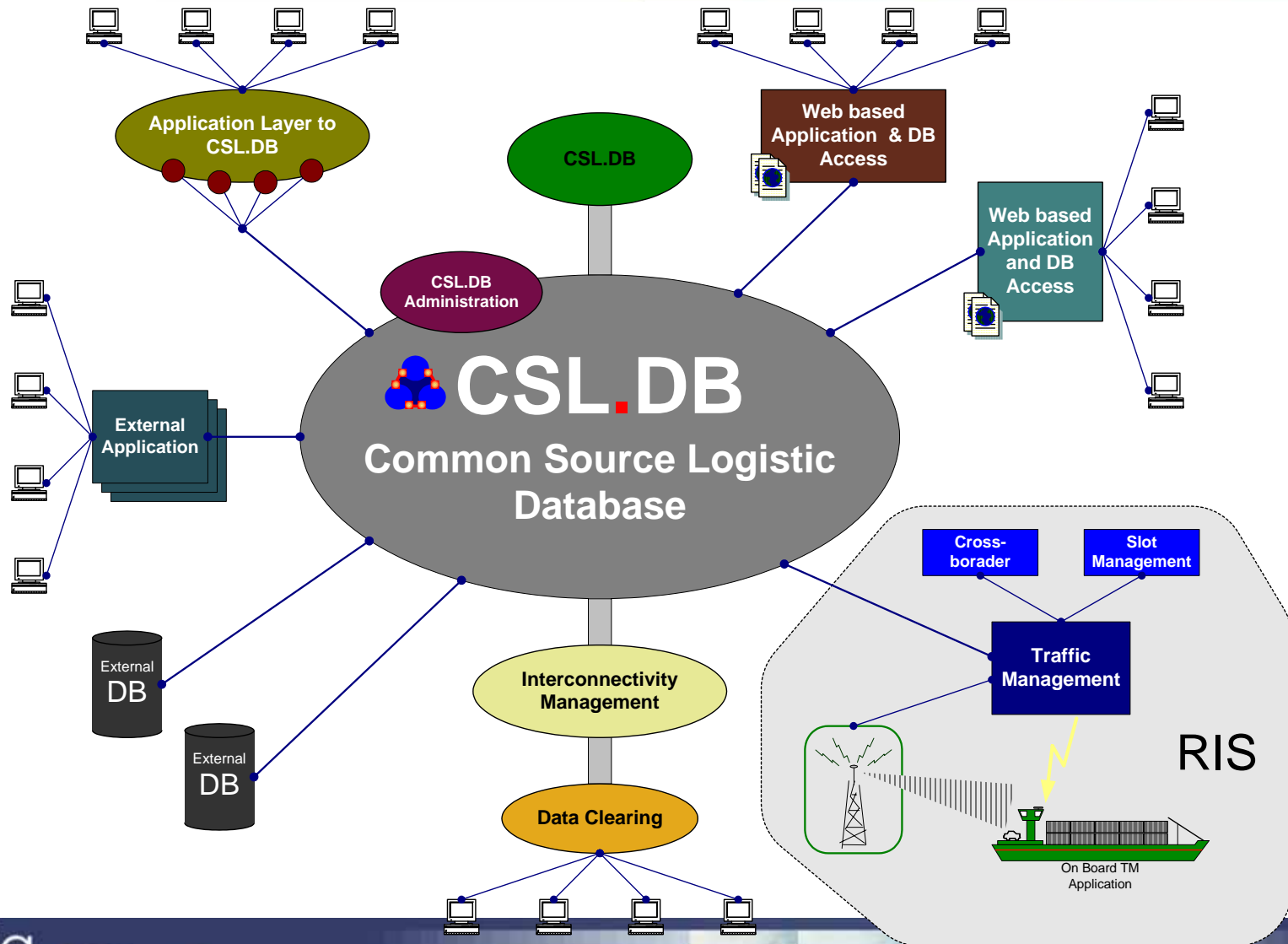


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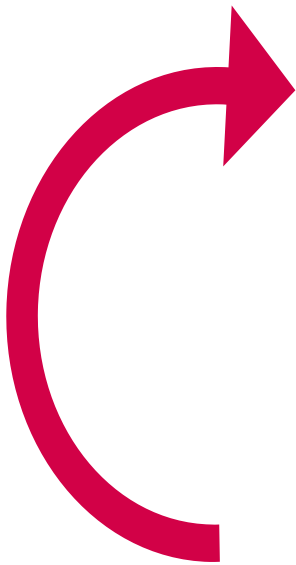
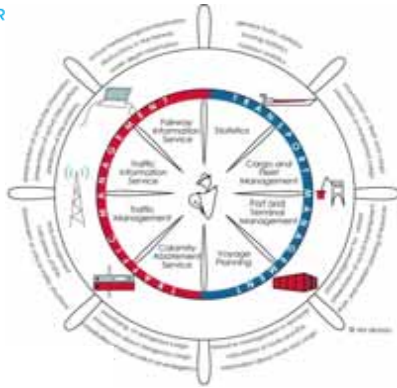
CSL.DB – General Architecture





Telematic Systems and Information Services in order to increase the safety and efficiency of inland waterway transport





- Traffic Information Service
- Traffic Control
- Fairway Information Service
- Calamity Abatement Service





- Cargo and Fleet Management
- Port and Terminal Management
- Voyage Planning
- Statistics

