

viadonau

via donau – Österreichische Wasserstraßen-Gesellschaft mbH

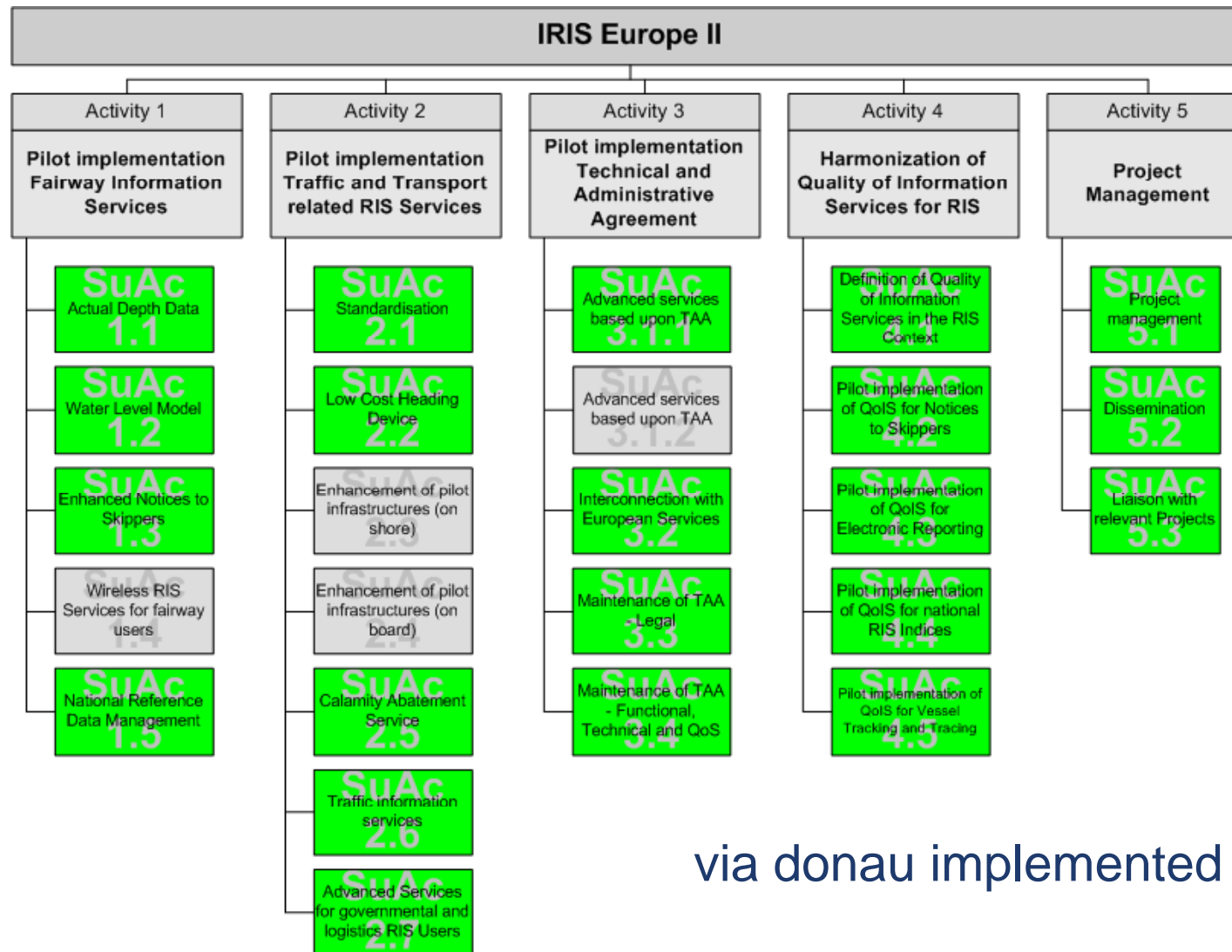
IRIS Europe II project results within Austria

Mario Kaufmann
Final Event
01.12.2011, Duisburg



Implementation of
River Information Services in Europe

Overview



via donau implemented ...

SuAc 1.1 Actual Depth Data

Results Austria:

- Implementation and calibration of new Multi-beam echo-sounding equipment
- New hydrographic acquisition and data processing software implemented (automatic cleaning method helps)
 - to process the large amount of multi beam data
 - reduces time between data acquisition and provision of depth information within Inland ENC's
- Depth data was generated and prepared for the Water Level Model pilot stretch

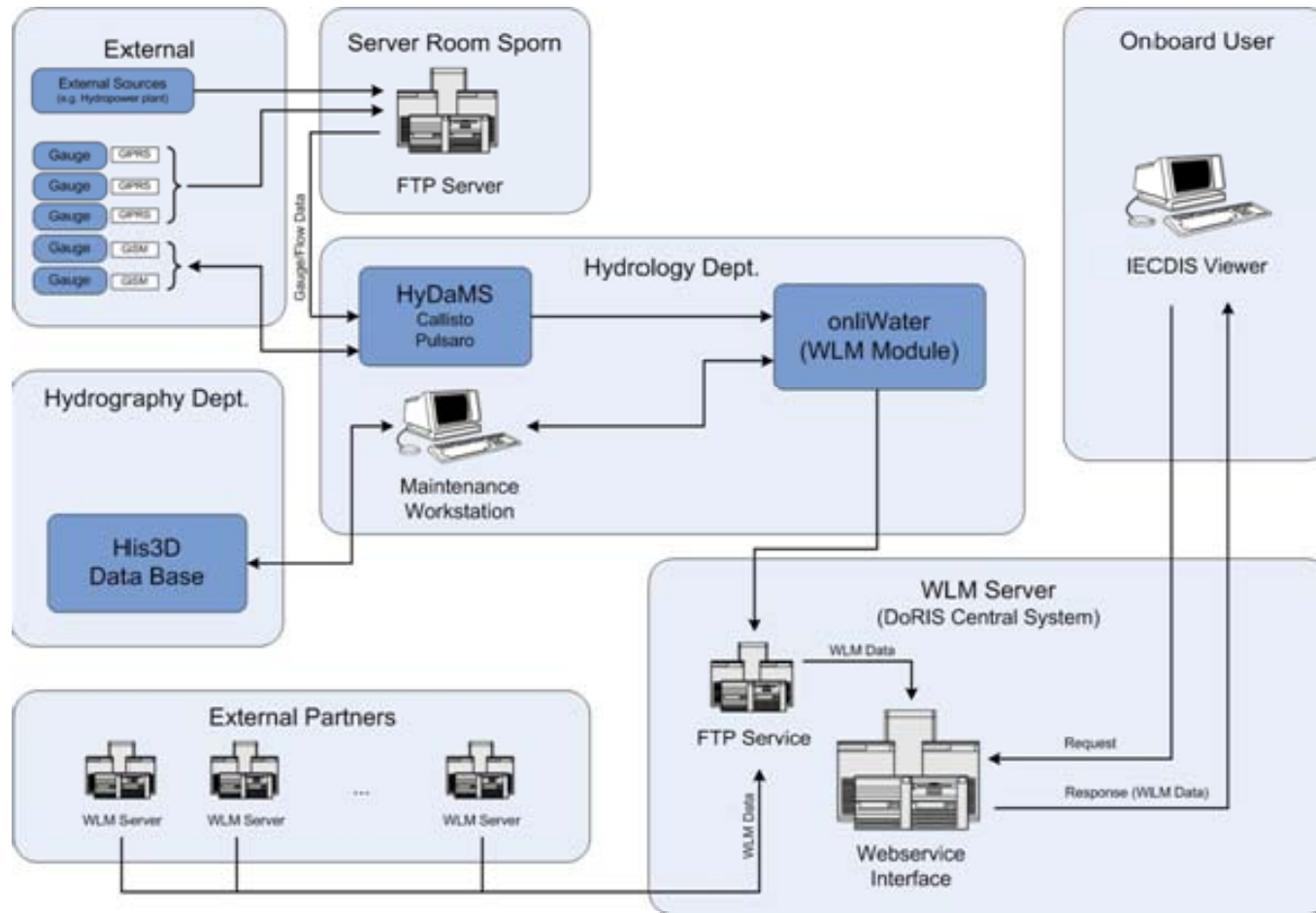
SuAc 1.2 Water Level Model

Results Austria:

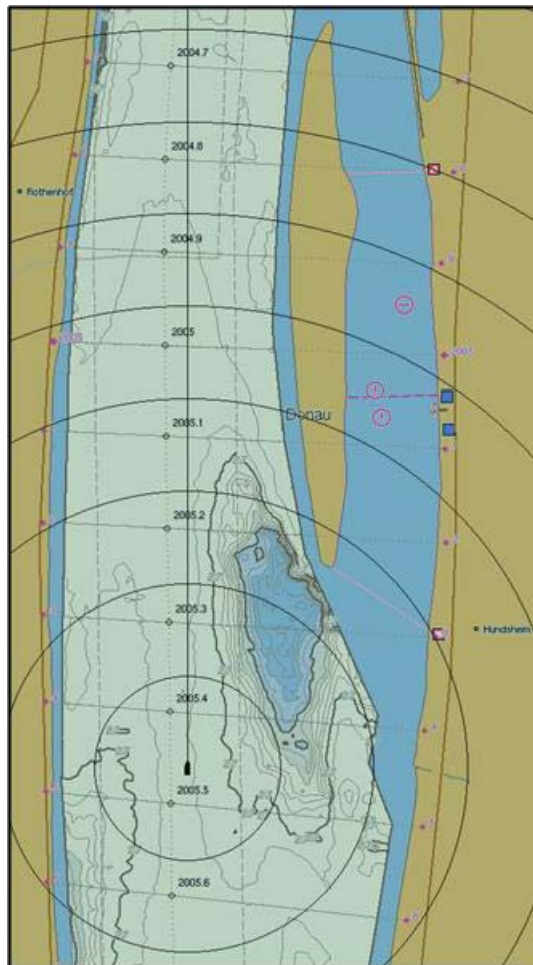
- Water level model service provision online since April'11
 - Generation of water level model data
 - Data transfer to Webservice
 - Webservice
- Water level measurements
 - Determining the accuracy of the modeling
- Field tests in August and September 2011
 - Testing data interface
 - Test of three ECDIS viewer prototypes in the field

SuAc 1.2 Water Level Model

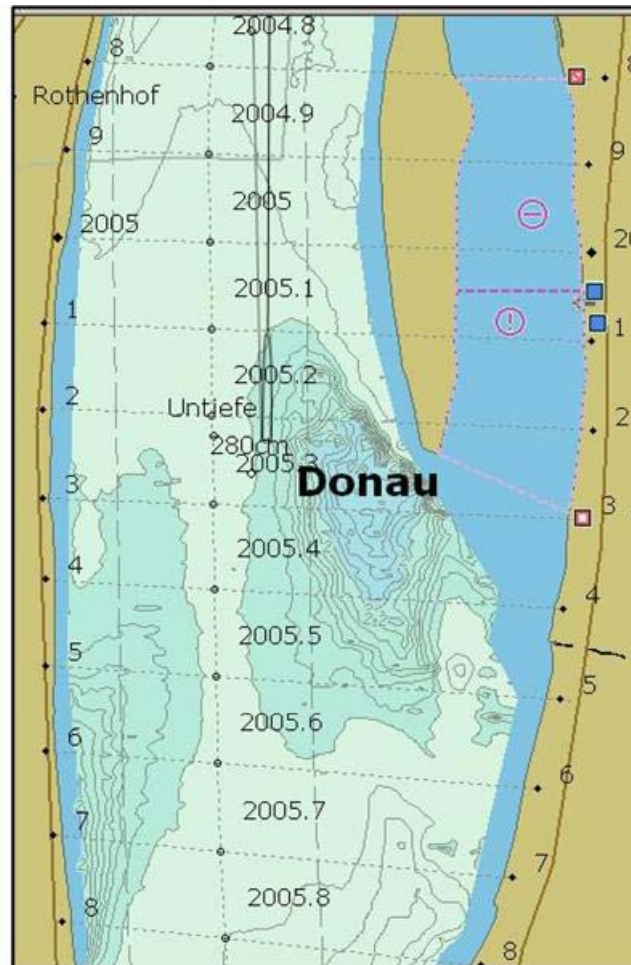
Results Austria: Pilot setup



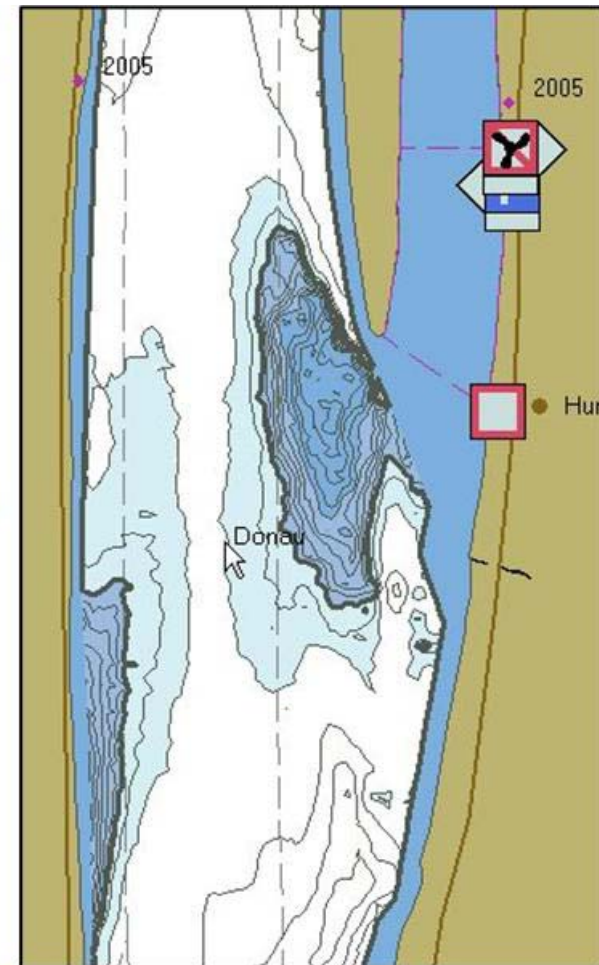
SuAc 1.2 Water Level Model



Innovative Navigation



Periskal



Tresco Engineering

SuAc 1.3 Notices to Skippers

Results Austria:

- Enhanced NtS application based on latest standards in operation since March 2011 using/supporting:
- Messages: FTM, WRM, ICEM, EICEM, WEICEM, FWI, WERM
- Search for messages from other countries (pilot)
- Improved usability
 - e-mail subscription service
 - web search mask and display
 - editor web interface

SuAc 1.3 Notices to Skippers

Results Austria:

Nachrichten für die Binnenschifffahrt

Email

Passwort

Anmelden [↗](#)

Registrierung E-Mail-Service [↗](#)

Passwort vergessen [↗](#)

Suche nach Wasserstraßen- und verkehrsbezogenen Nachrichten

Wasserstraßenabschnitt

Bereich von Stromkilometer von Gültig von Gültig bis

Bereich bis Stromkilometer bis Herausgabe von Herausgabe bis

Wasserstr. und verkehrsbez. Nachrichten

Nummer (der Nachr)

Deutsch (de)

Slovenčina (sk)

English (en)

Deutsch (de)

Français (fr)

Nederlands (nl)

magyar (hu)

русский (ru)

Български (bg)

română (ro)

čeština (cs)

hrvatski (hr)

Српски (sr)

Search for messages from other countries

Fairway and traffic related messages

All message types

Messages from other countries

The notices are retrieved directly from the authorities of the respective countries. In case the service is not available please visit the respective, national website.

Country Message type

Germany Fairway and traffic related message (FTM)

Waterway Valid from Valid till

Danube 14.11.2011 14.12.2011

River km from River km to Date issue from Date issue till

2201.0 2414.0

Search Reset

Identification	Date issue	Valid from	Valid till			
2275 / 01 / 2011, Blockage; Work	11.11.2011	11.11.2011		text	code	xml
2274 / 00 / 2011, Blockage; Work	11.11.2011	15.11.2011	17.11.2011	text	code	xml
2248 / 00 / 2011, Blockage; Calamity	07.11.2011	08.11.2011		text	code	xml
2238 / 00 / 2011, Announcement; Dredging	04.11.2011	07.11.2011		text	code	xml
2236 / 00 / 2011, Announcement; Info Service (not safety relevant and not needed for voyage planning)	03.11.2011	05.11.2011	29.11.2011	text	code	xml
2236 / 00 / 2011, Announcement; Info Service (not safety relevant and not needed for voyage planning)	03.11.2011	05.11.2011	29.11.2011	text	code	xml

Wasserstraßenabschnitt	Herausgabe	Gültig von	Gültig bis				
Donau	16.11.2010	16.11.2010	30.11.2010	text	pdf	code	xml
Donau	16.11.2010	24.11.2010	09.12.2010	text	pdf	code	xml
Donau	16.11.2010	02.11.2010	31.03.2011	text	pdf	code	xml
ung Donaukanal	10.11.2010	10.11.2010	11.11.2010	text	pdf	code	xml
Donau, Donaukanal	04.11.2010	09.11.2010	22.11.2010	text	pdf	code	xml
Donau	25.10.2010	26.10.2010	26.10.2010	text	pdf	code	xml

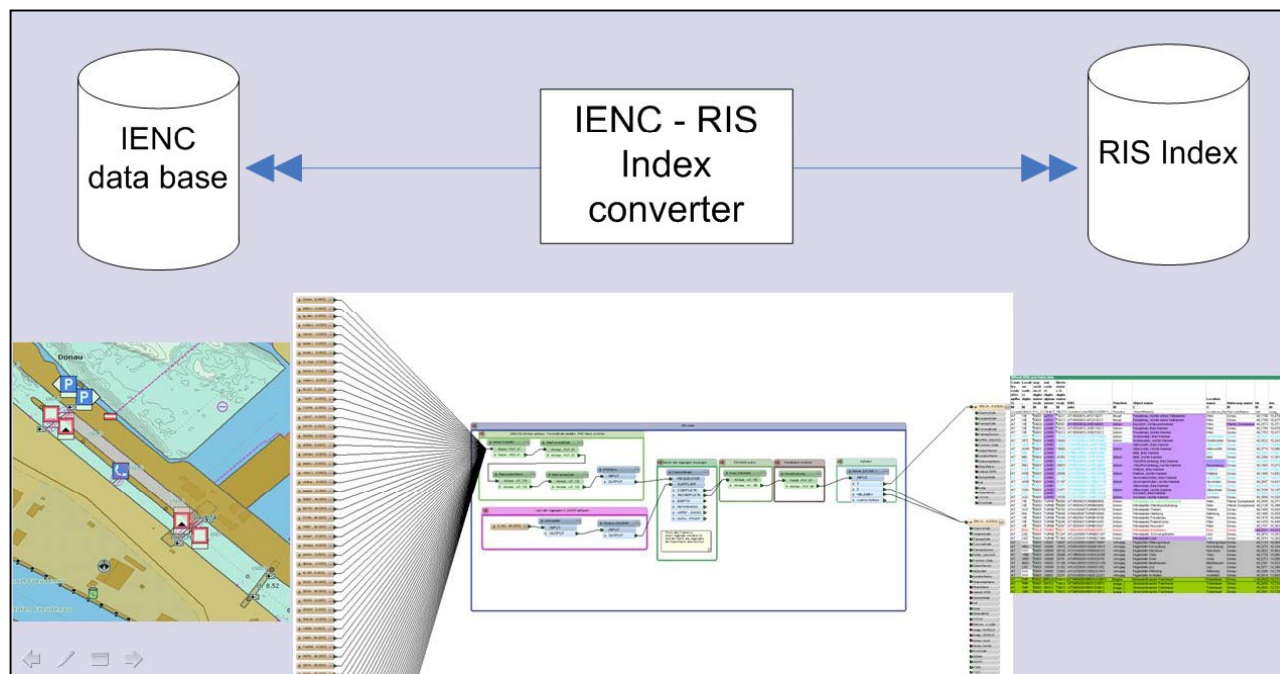
viadonau / bm

berste Schifffahrtsbehörde gemeinsam mit via donau im Namen des Bundesministeriums für Verkehr, Innovation und Technologie
 ertaubt werden.
 oph Plasil (christoph.plasil@via-donau.org) oder DI Bernd Birkhuber (bernd.birkhuber@bmvi.gv.at). Für die Richtigkeit der

SuAc 1.5 Reference Data Mgmt

Results Austria:

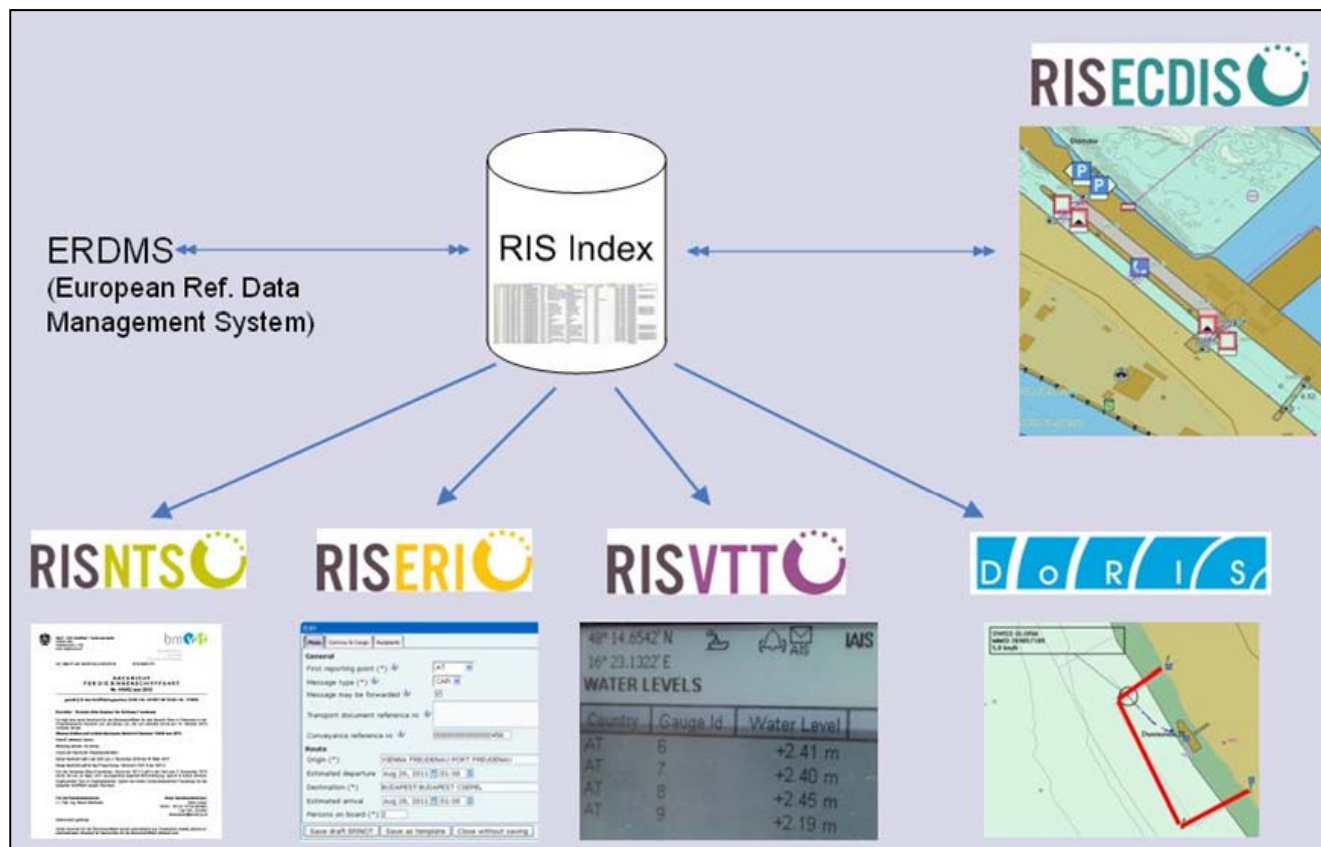
- IENC \leftrightarrow RIS Index converter by means of FME SW
 - Export of IENC objects into RIS Index
 - Import specific object attributes from Excel into IENCs
 - Generation of all hectometers within IENCs



SuAc 1.5 Reference Data Mgmt

Results Austria:

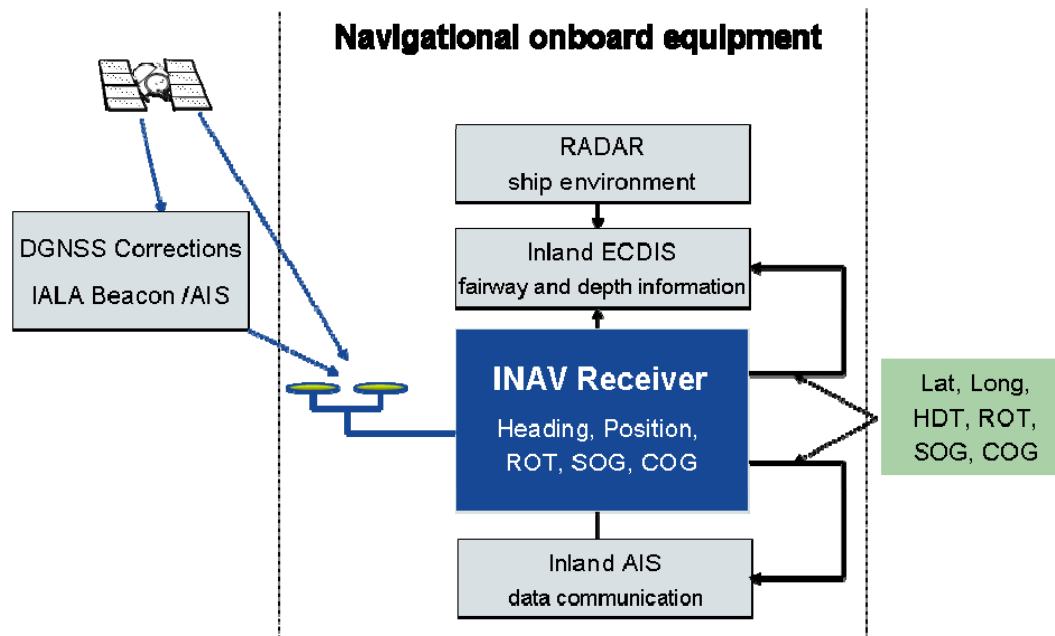
- Main objective and focus for the future: Harmonization of used reference data in national infrastructure



SuAc 2.2 Heading Information

Results Austria:

- Investigation of already existing requirements towards heading and rate-of-turn information within Inland navigation
- Rough outline of an Inland Navigation Receiver
- Test and evaluation of existing heading devices



91 Michael Hoppe / Mario Wellerberg

SuAc 2.5 Calamity Abatement Service

Results Austria:

- Updated emergency reporting application (GUI)
- International exchange of emergency reports
- Interface to AIS infrastructure (broadcast of safety related AIS message)

Inbox	Search	Traffic Data	Transport Data	Vessel Data	ERI Report	Address list	Emergency	Emergency Data	Grant access to own vessels	My Data
-------	--------	--------------	----------------	-------------	------------	--------------	------------------	----------------	-----------------------------	---------

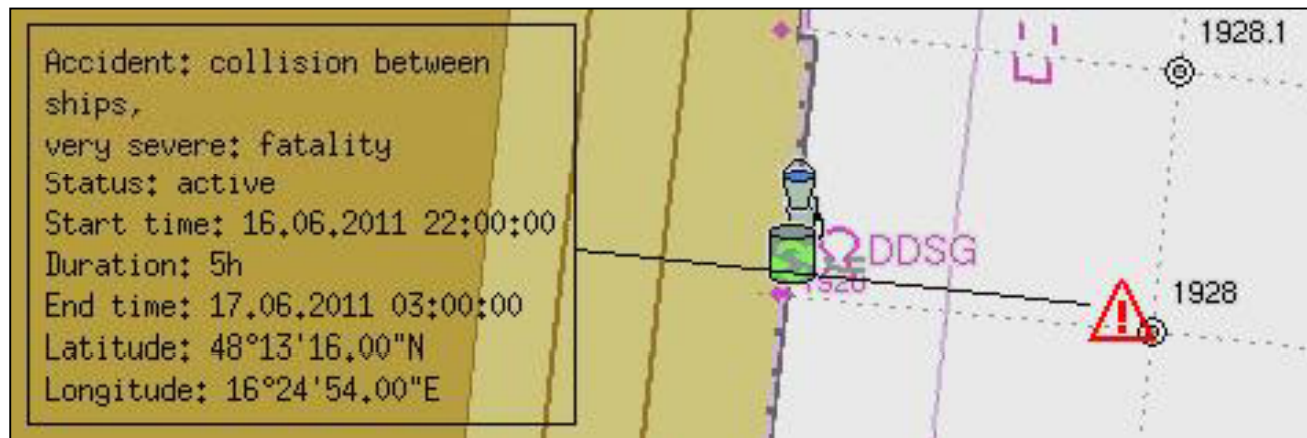
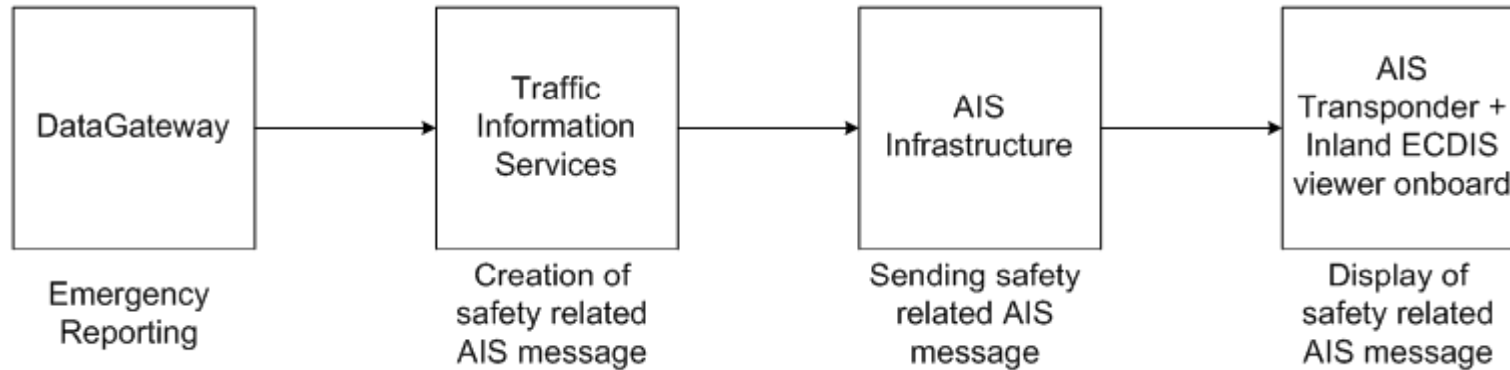
From: To: Status:

Accidents:

Status	Type of accident	Severenesses	Vessels	Time	SRM Status
<input checked="" type="radio"/> Active <input type="radio"/> Over	<ul style="list-style-type: none">• near accident• contact with infrastructure or bank	<ul style="list-style-type: none">• breakdown necessitating shore assistance• structural damage rendering the ship non-navigable	<ul style="list-style-type: none">• ENI90200003	Oct 5, 2011 2:28:00 PM	
<input checked="" type="radio"/> Active <input type="radio"/> Over	<ul style="list-style-type: none">• explosion on the waterway• falling in water	<ul style="list-style-type: none">• malfunctioning waterway infrastructure allowing vessel traffic• malfunctioning waterway infrastructure disabling vessel traffic	<ul style="list-style-type: none">• ENI90200003• ENI90200004	Oct 5, 2011 3:00:00 PM	

SuAc 2.5 Calamity Abatement Service

Results Austria:

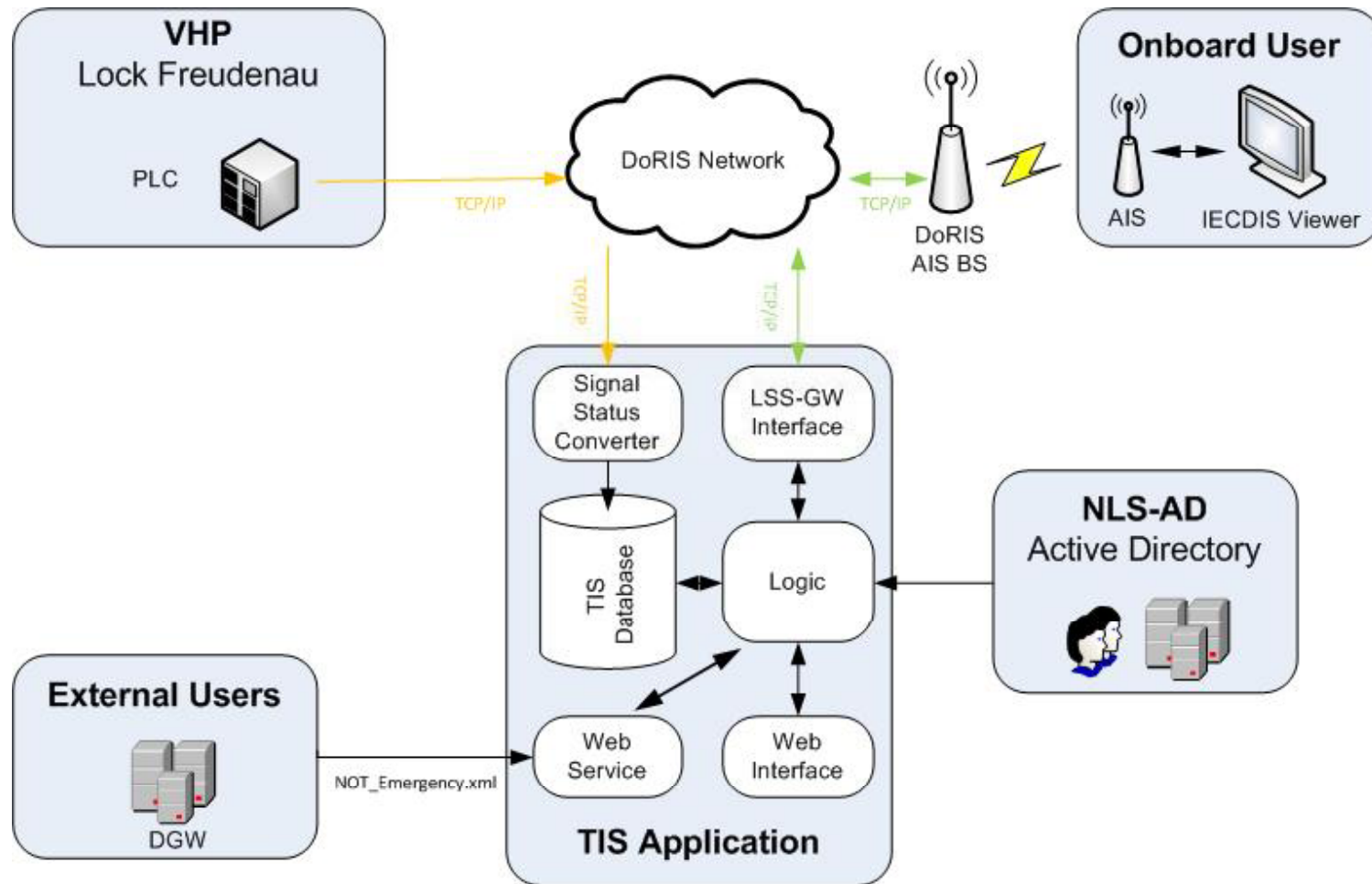


SuAc 2.6 Traffic Information Services

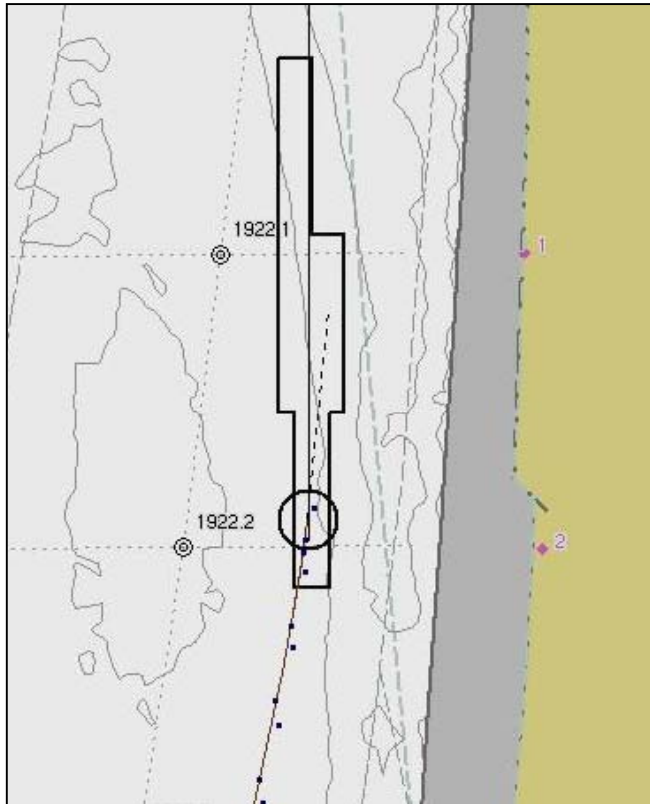
Results Austria:

- Pilot implemented at lock Freudenuau (Vienna)
- Radarpilot 720° adapted to handle new AIS messages
- DoRIS system adapted to handle new AIS messages
- Laboratory and live tests have been executed
- Findings of pilots are documented
- All messages proved feasibility and usefulness during pilot testing

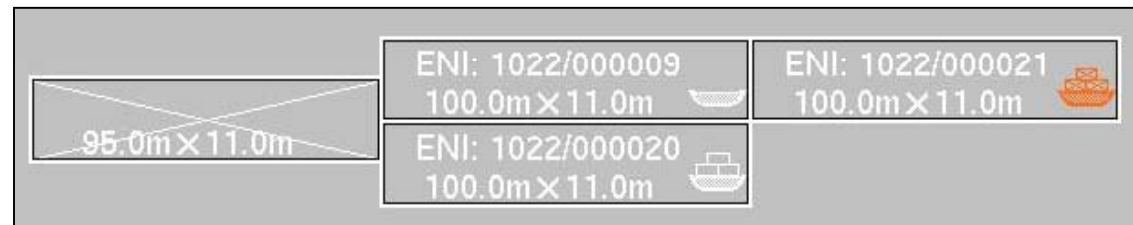
SuAc 2.6 Traffic Information Services



SuAc 2.6 Traffic Information Services

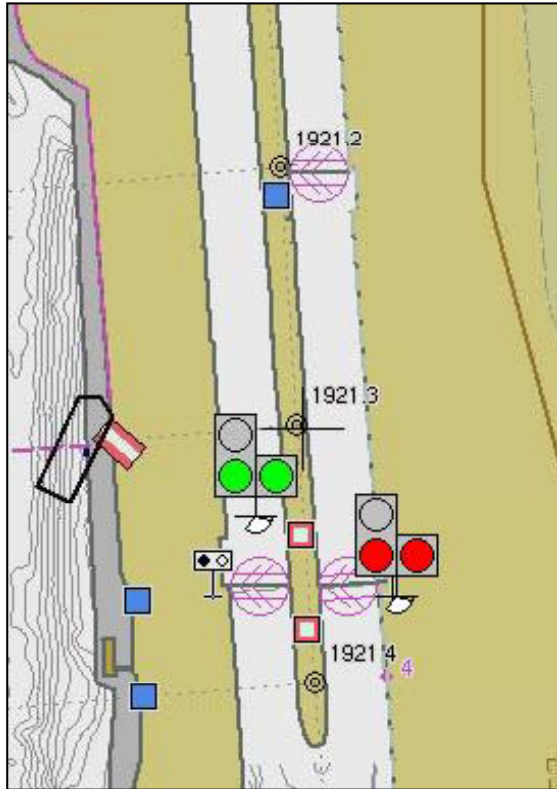


Convoy display on board

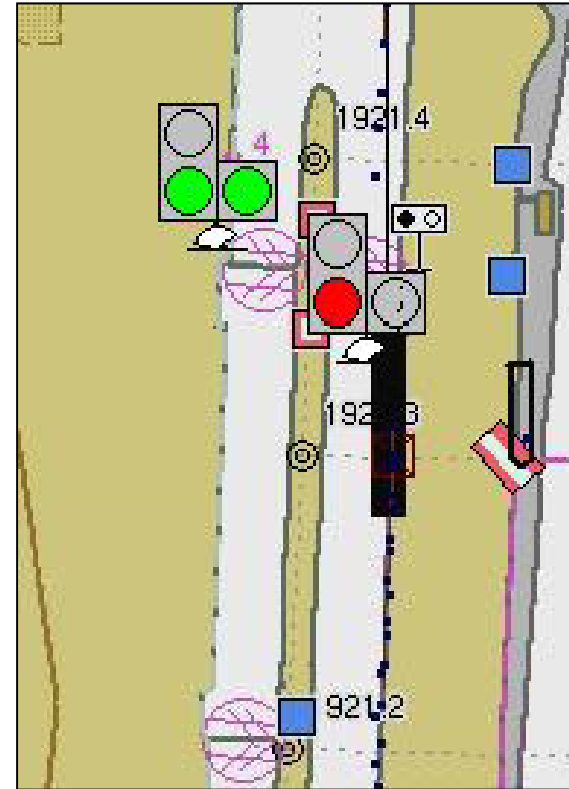


Convoy display on shore
(web interface)

SuAc 2.6 Traffic Information Services

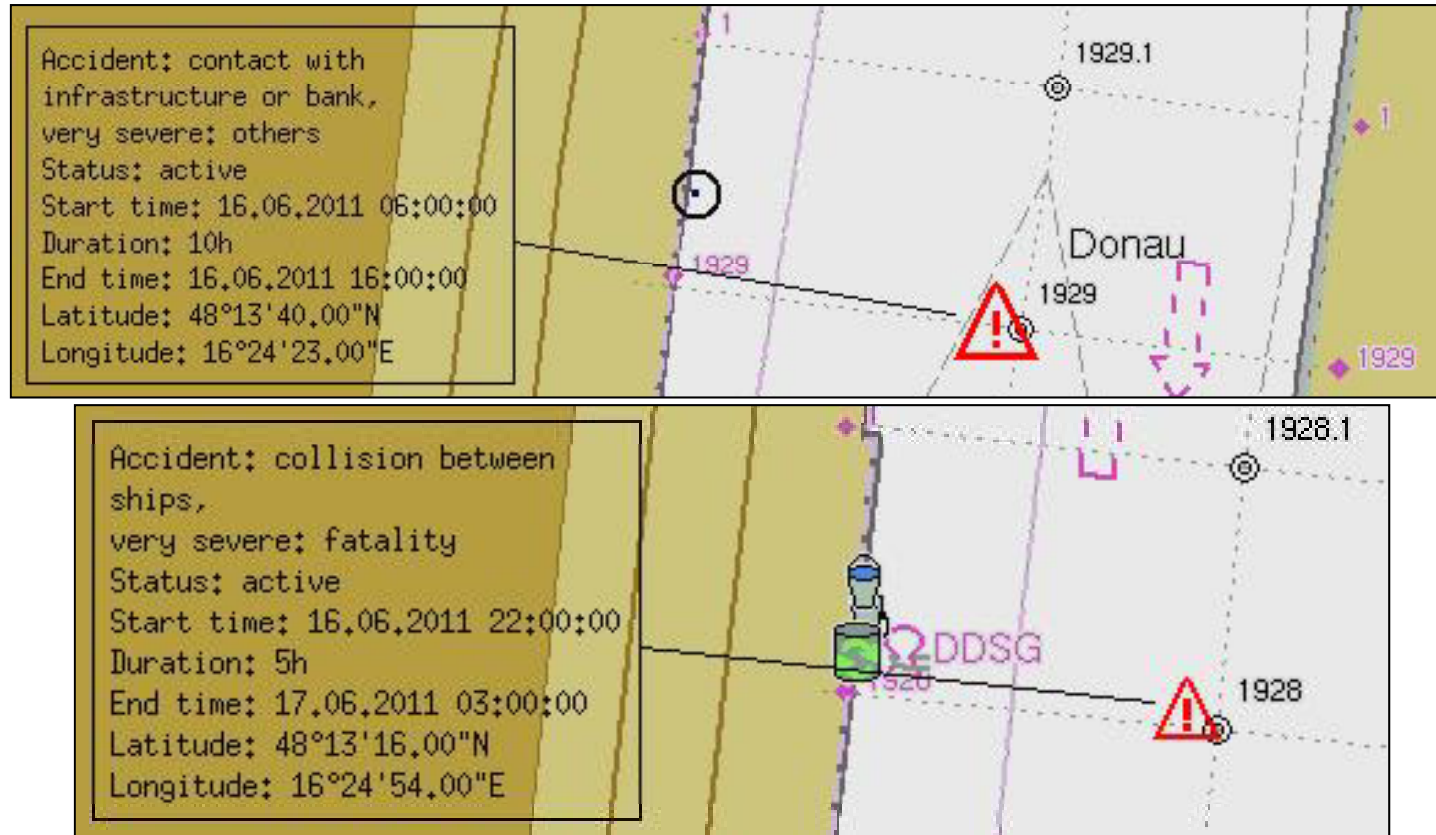


Entrance lights lock
Freudenau downstream



Entrance lights lock
Freudenau upstream

SuAc 2.6 Traffic Information Services



Various Standardized Safety Related Messages

SuAc 2.7 Electronic Reporting

Results Austria:

- Updated electronic reporting application (GUI)
- International exchange of ERINOT reports
- Pilot operation started in 2nd half 2011 and will be continued

Edit

Main **Convoy & Cargo** Recipients

Convoy

Vessel name	Vessel Id	Length [m]	Width [m]	Draught [m]	Max. Tonnage [t]	Height [m]	Shiptype
ATVESSEL04	ENI90200004	400	400	400	400	0	8440

Add Vessel Edit Vessel Remove Vessel

Total length [m] (*) 400 Max. Draught [m] (*) 400

Total width [m] (*) 400 Convoy type (*) MOTOR FREIGHTER, TU

Maximum tonnage (*) 400

Consignments

Vessel name	Loading	Discharge	Class	Number	Cargo Name	Weight [t]
ATVESSEL04	LINZ COMMERCIAL P:LAG FRIESACHER	KREMS:HAFEN KREMS WIENCONT TERMINAL	ADLR/IMO	1006	ARGON, COMPRESSED	1234

Add Cargo Add Simplified Cargo Details Remove Cargo

Number of blue cones (*) 1

Container Matrix

Load: 20Ft: 0 30Ft: 0 40Ft: 0

Empty: 20Ft: 0 30Ft: 0 40Ft: 0

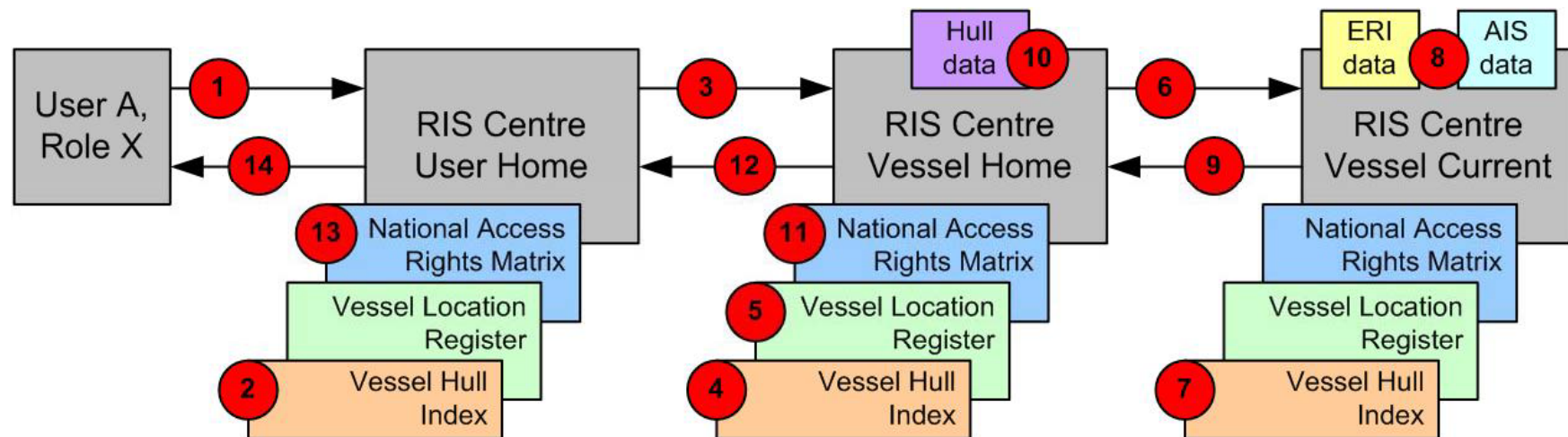
Save and publish Save without publish Close without saving

(*) Mandatory field

SuAc 3.1.1 internat. RIS Data Exchange

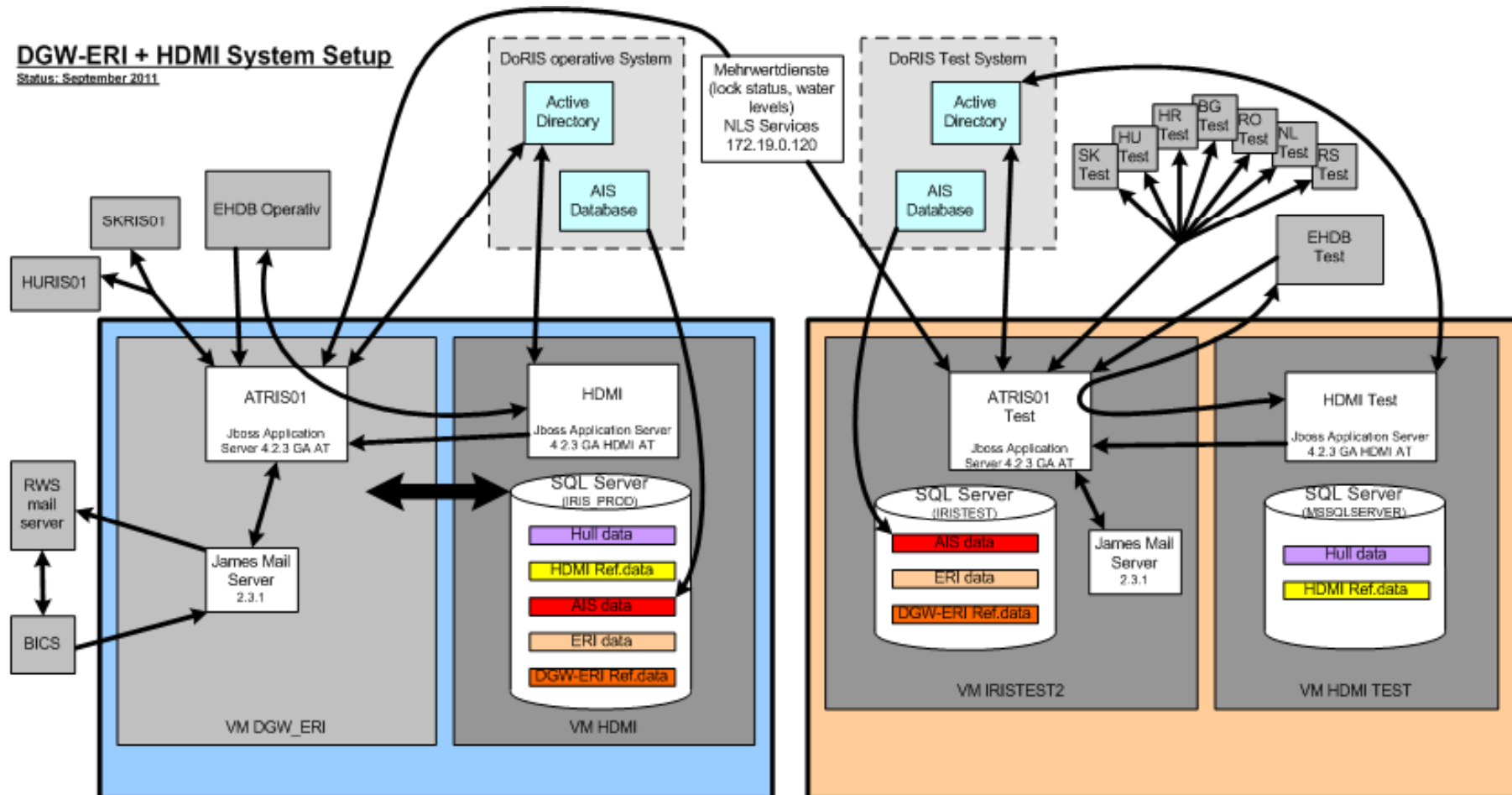
Results Austria:

- Updated national DataGateway based on latest version of RIS Data Exchange Reference Documentation
- Execution of detailed interconnection test workshops with other countries (SK, HU, HR, BG)
- Pilot operation started in 2nd half 2011 and will be continued



SuAc 3.1.1 internat. RIS Data Exchange

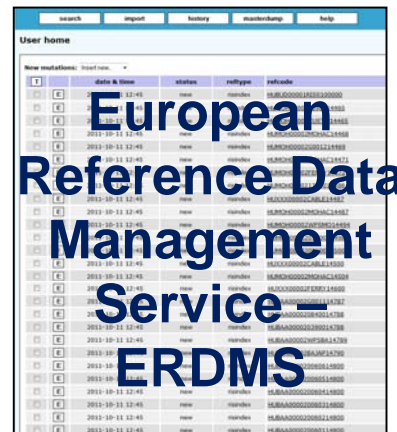
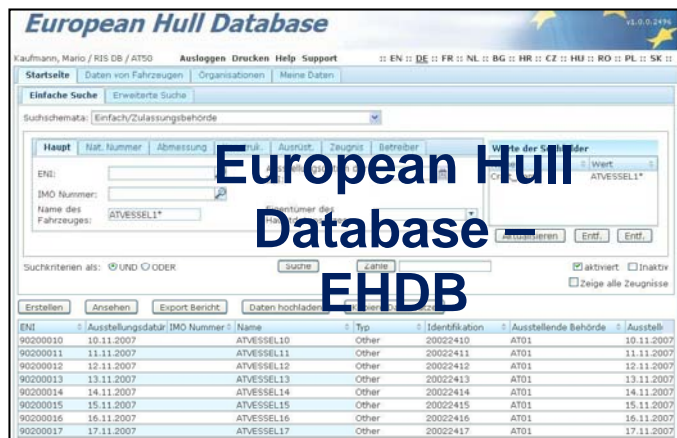
Results Austria:



SuAc 3.2 Interconnection to EU Services

Results Austria:

- Interconnection to European Hull Database established by means of webservices and in operation
- Interconnection to European Position Information Service established by means of webservices and in test operation
- Interconnection to the European Reference Data management System is executed by usage of the GUI (detailed feedback and recommendations for improvements were provided)



SuAc 3.3 Legal Aspects

Results Austria:

- Chair of the legal task force
- Establishment of a legal basis for the operation of the European Hull Database
- Establishment project solution for the international RIS data exchange as well as preparation (and establishment) of mid-term solutions
- Elaboration of an awareness paper motivating towards the establishment of a legal basis for international RIS data exchange on European level

SuAc 3.4 RIS Data Exchange Specifications

Results Austria:

- Chair of the technical RIS data exchange task force
- Update of the RIS Data Exchange Reference Documentation
- Coordination of implementation, interconnection and testing the international RIS data exchange among several countries
- Management of change requests

Ac 4 QoS for RIS

Results Austria:

- Elaboration of an approach for the definition of quality requirements for RIS services together with SuAc 4.1 partners
- Elaboration of draft quality requirements for vessel tracking and tracing
- Contribution to the elaboration of draft quality requirements for Notices to Skippers, Electronic Reporting and the RIS Index

SuAc 5.1 Project Management

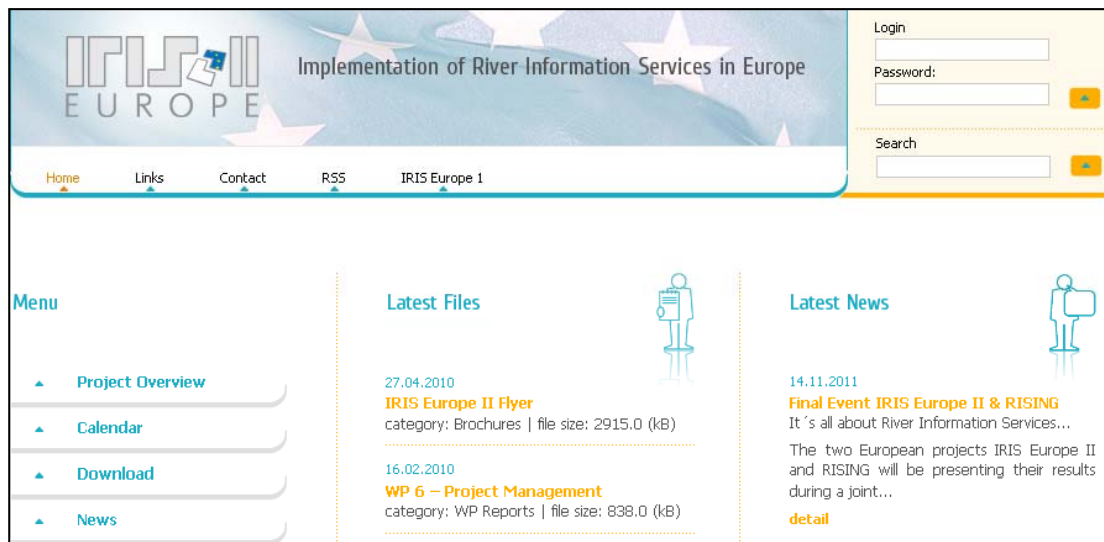
Results Austria:

- via donau is official Coordinator of the IRIS Europe II project nominated by the TEN-T EA and thus responsible for the communication with the TEN-T EA incl. all preparations (e.g. consolidation of Action Status Reports, update of project budget tables, etc.)
- via donau is member of the Project Management Team and thus also responsible for the proper management (monitoring of technical progress, organisation of activity coordination and steering committee meetings, etc.)

SuAc 5.2 Dissemination

Results Austria:

- via donau specified, implemented and maintains the official project website www.iris-europe.net



- via donau has elaborated and published the initial project brochure in 2009

SuAc 5.2 Dissemination

Results Austria:

- via donau contributed to other dissemination activities (final project brochure, final event, presentations at various conferences and meetings)



SuAc 5.3 Liaison with other initiatives

Results Austria:

- Due to the fact that via donau is also involved in most of the identified relevant other initiatives (RISING, PLATINA, NEWADA, RIS expert groups, e-Freight, etc.), via donau ensured to a considerable part, the proper cooperation with these initiatives and therefore contributed to a coordinated execution of tasks of common interests

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www.iris-europe.net

