Status of Inland ENCs in Europe

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Inland ENC
Harmonization Group

RISECDIS

European inland waterways

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Inland ENCs and Inland ECDIS in Europe

- IEHG is currently only dealing with the standardization of Inland ENCs
- The European countries have also developed a common standard for chart viewers
- The standard is based on the maritime S-52 standard for Electronic Chart Display and Information Systems (ECDIS)
- The European "Inland ECDIS standard" contains the Product Specification for Inland ENCs and the Performance Standard and test procedures for Inland ECDIS applications

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Legal Status of Inland ENCs in Europe

Inland ECDIS Standard Edition 2.0

- Adopted as mandatory regulation for the river Rhine by the Central Commission for Navigation on the Rhine (CCNR) in 2006, all amendments of the EG until version 1.2.2 have been adopted, too
- Adopted as recommendation for all inland waterways by the Economic Commission for Europe of the United Nations (UNECE) in 2007
- Adopted as recommendation for the river Danube by the Danube Commission in 2008
- The European Union planned to publish a binding regulation, but had internal problems (missing human ressources)

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Legal Status of Inland ENCs in Europe

Inland ECDIS Standard Edition 2.3 (latest edition)

- Adopted and published by the Central Commission for Navigation on the Rhine (CCNR)
- Adopted by the Economic Commission for Europe of the United Nations (UNECE)
- The Danube Commission recommends to use always the latest version which is published by UNECE
- The European Union has announced to publish this version as a binding Commission Regulation; IENCs have to be produced within 30 months after the publication for all inland waterways of the European Union of class Va and above (suited for vessels/convoys with a length of more than 85 m)

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Country	class	coverage	published	available for free	used version of standard
Austria	Va +	Full (330)	yes	www.doris.bmvit.gv.at	2.1
Belgium (Flanders)	IV - Va +	Full (472)	yes (with exception of 1 sea harbours)	http://is.vlaanderen.be/html_nl/vismodern/index.htm www.vts-scheldt.net	2.0 / 2.1
Bulgaria	Va +	full	planned	www.appd-bg.org	2.1
Switzerland	Va +	full (Rhine)	yes	www.portofbasel.ch	2.0
Czech Rep.	IV	Full (305)	yes	www.iaydis.cz	2.0
Germany	Va +	3000/4000 km	yes	www.elwis.de, free webviewer	1.02, 2.0 and 2.1 (Main, MDK, Danube)
France	Va +	215 km	yes	www.vnf.fr	2.1
Croatia	IV +	full	yes	www.crup.hr	2.1
Hungary	Va +	Full (379)	Yes(edition 2007)	www.pannonris.hu	1.02, 2.1 in preparation
Luxemburg	Va +		yes	no	1.02
Netherlands	IV +	1700/2000l	yes	www.risserver.nl	2.1 (bathymetry added in 1.02)
Poland	Va +	100	planned	Not decided yet	2.1
Romania	Va +	1167	yes	www.afdj.ro/not free for Black Sea Canal	2.1
Serbia	Va +	full	yes	www.plovput.rs	2.1
Slovakia	Va +	full	Under disc.	yes	1.02
Ukraine	Va +	full	yes	no	1.02

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Implementation of Inland ENCs in Europe

- More than 11000 vessels equipped with Inland ENCs (6000 commercial vessels)
- Three certified applications for navigation mode (with radar overlay, > 818 in use)
- All applications are compatible with edition 2.0 and 2.1
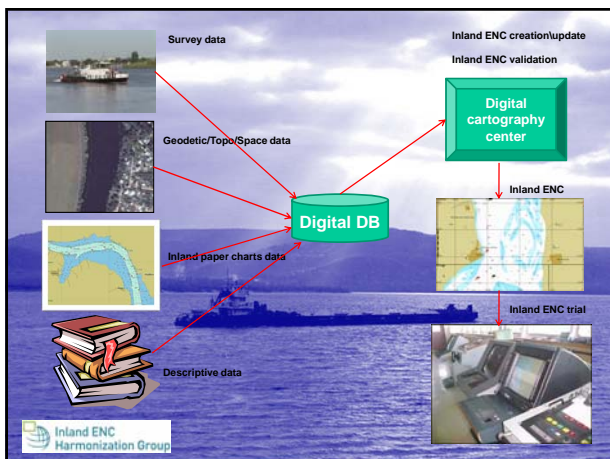- Adaptation to edition 2.3 partly done, partly in preparation

Questions ?

More Information at: http://www.ris.eu

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ВНУТРЕННИЕ ВОДНЫЕ ПУТИ РОССИЙСКОЙ ФЕДЕРАЦИИ

According to Federal Task Program on implementation of GLONASS on transport, 26 000 km of inland waterways were surveyed, equipped and covered with Inland ENCs.

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Survey data

Inland ENC creation\update

Inland ENC validation

Digital cartography center

Geodetic/Topo/Space data

Inland ENC

Digital DB

Inland paper charts data

Inland ENC trial

Descriptive data

Inland ENC
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Inland ENC validation

Inland ENC trial

Inland ENC distribution

Inland ENC Harmonization Group

Do you have questions?

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