

Entwicklungsgesellschaft mbH für Telematik und Donauschifffahrt

Implementation of Inland ECDIS

Co-operation meeting between RO, UA and BG

Romania - July, 15th 2003

v:adonau

Terms and history of Inland ECDIS

- ECDIS = Electronic Chart Display and Information System
- ENC = Electronic Navigation Chart
- 1996 – IHO passes the maritime ECDIS Standard
- 2001 – CCNR passes the Inland ECDIS Standard
- Recommended by the Danube Commission and UN/ECE for...
 - Implementation of digital navigation charts
 - International exchange of waterway related data
- 2003 – North America and Europe decide upon a common Inland ECDIS product specification and a generic data set.

Contents of charts

Display base:

Riverbanks, shoreline constructions, Groins

Fairway, waterway axis

Notice marks, buoys, restricted areas

Bridges, locks, cables overhead, dangerous zones above and under water surface

Display standard:

Areas of restricted usage

Anchorage areas and berths for commercial navigation

Stationing of kilometers ashore

Display all:

Additional information

- Paper charts
- Digital data (DXF, DGN etc.)
- Lists of buoys, notice marks etc.

!!!Coordinates in Inland ECDIS are in WGS84 !!!

Way of distribution

- Charts are provided for free (e.g. Internet) – AT
 - Taxes for development are already paid
 - Users get quick and free access to charts → accepted quickly
 - Independent of software suppliers
- Charts are sold by contracted companies – DE
 - Charts are only published by software suppliers directly → copy protection

Steps of implementation

- **COMPRIS – WP3**
 - Sample data sets
 - Help for conversion and implementation provided
(Tresco, SevenCs, via donau, bmvit etc.)
- **D4D (Data warehouse for Danube waterway)**
 - Digital data exchange and automatic conversion of GIS data into ENC.s.
 - Co-operation possible, way of handling is open question
- **Ongoing updating of ENC.s**
 - Extension of information and updating to keep information actual
 - Integration of e.g. touristic data or detailed data of harbours

Open tasks within COMPRIS

- Partners in countries:
 - Bulgaria: TU Varna, Transproekt
 - Romania: Iptana, (LDRAGalati), (ITS Romania), (PU Bukarest)
 - Ukraine: Proekt, ONMU, (ONMA)
- Deliveries necessary for each country by end of August:
 - Short description of concept for ENC production
 - Small sample stretch of Danube in Inland ECDIS format
- Proposal for Ukraine and Bulgaria:
 - Set up co-operation with partners in COMPRIS
 - Implement small ENCs at border sections with Romania to check compatibility of coordinate systems

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