RIVER INFORMATION SERVICES ON THE ODRA RIVER

PIOTR DURAJCZYK
INLAND NAVIGATION OFFICE IN SZCZECIN
NETWORK OF EUROPEAN WATERWAYS

Źródło: K. Woś na podstawie European Agreement on Main Inland Waterways of International Importance (AGN)
RIS IN POLAND

• PILOT IMPLEMENTATION OF RIS ON THE LOWER ODRA ENDED IN 2013.

• THE SYSTEM CONSISTS OF THE VARIOUS DEVICES AND SOFTWARE TO COLLECT AND TRANSMIT THE DATA:
  • INLAND ECDIS CHART PRODUCTION AND DISTRIBUTION SYSTEM,
  • RADIO TRANSMISSION NETWORK,
  • AIS INFRASTRUCTURE AND MONITORING SYSTEM,
  • VHF RADIO NETWORK,
  • NETWORK OF HYDRO METEO SENSORS,
  • NETWORK OF CAMERA’S,
  • RADARS,
  • DGPS INFRASTRUCTURE,
AIS INFRASTRUCTURE AND MONITORING SYSTEM

- AUTOMATIC IDENTIFICATION SYSTEM (AIS), WHICH CONSISTS OF TWO BASE STATIONS.
RADIO TRANSMISSION NETWORK

- RIS required installation of masts and building of main connection points.
RIS SENSORS
Źródło: Urząd Żeglugi Śródlądowej w Szczecinie

16/12/2013
VHF

Żródło: Urząd Żeglugi Śródlądowej w Szczecinie
1. Dąbie Lake from the border with the interim maritime waterway [9.5 km]

2. Odra River from the town of Ognica to the Klucz-Ustowo Ditch i further as Regalica River to the Dąbie Lake [44.6 km]

3. West Odra:
   a. from weir in the town of Widuchowa (704.1 km Odry) to the border with interim maritime waterway [33.6]
   b. Klucz-Ustowo Ditch connecting Odra East and Odra West [2.7 km]

4. Parnica River and Parnicki Ditch from the Odra West to the border with interim maritime waterway [6.9 km]
PROVIDED SERVICES 1/2

• **VESSEL TRACKING AND TRACING – VTT:** For constant monitoring of water traffic and transferring information to RIS users. In Poland skippers make decisions concerning navigation independently, therefore RIS operators may not give navigation orders or recommendations.

• **NOTICES TO SKIPPERS – NTS,** provision of information about traffic and waterways, water levels, weather reports, and in winter – ice reports.
Provided Services 2/2

Inland Electronic Navigational Charts with bathymetry

- created in the standard: 2.3
- updated as needed
- validity (e.g. the location of navigation beacons) is revised by RIS operators at least once every month
- free to download from website:

www.szczecin.uzs.gov.pl
PRODUCTION OF IENC’S

Geo Swath + Multibeam Echosounder

L: 14,0 [m]
B: 3,89 [m]
H: 3,60 [m]
D: 0,90 [m]
Engine: 2 x 232 [kW]

H. Jedrzychowski
POLISH PRIORITIES FOR DIGITALIZATION OF INLAND NAVIGATION IN 2014-2020
By the end of 2020 the area covered by the RIS system in Poland will have been enlarged and new serviced will be available for users.

New services:
- water level predictions;
- bridge clearance information,
- legal bulletin;
- reports on incidents and accidents in the RIS-controlled area;

Total area covered by RIS in 2020: 242,9 km
New projects in 2019: Regional Operational Programme

**CCTV**
- exchange of camera points;
- purchase of a professional central image registration system with software enabling sharing of access for other public administration;
- installation of devices and software.

**AIS:**
- purchase and additional sets of AIS base stations to supplement the area of limited radio wave propagation;
- installation of devices;
- software installation and integration with the existing sensor network.
THE EMMA PROJECT

Aims of the project

• Strengthening of inland waterway and coastal transportation in public perception
• Promotion of better integration of inland waterway and coastal transportation in transport chains of the Baltic Sea Region as well as in EU strategies
  ➢ Investigation of regional challenges that hinder better integration of the inland vessel in transport concepts/chains
  ➢ Development of solution approaches
  ➢ Promotion of cooperation between separate interest groups (organisations and association)
• Enhancement of the modal split in the Baltic Sea Region
THANK FOR YOUR ATTENTION!

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