

COVADEM



Smart solution for real time collection of ship & river data



Innovation

- Co-operative depth measurements
- Integral river-condition-related performance monitoring



Emission reduction

- Optimise cargo volume and fairway capacity use and thus increase efficiency
⇒ more cargo per voyage and less voyages
- Optimise speed and energy consumption by using historic performance data and real-time & forecast river condition information
- Building vessel-specific operational performance datasets to be used by the vessel owner to assess and optimise future on-board innovations



Milestones

- 2018** — Launch and development of services
- 2020** — Upscaling network; focus on the Rhine
- 2024** — Add new fairway infrastructure

Inland waterways & ports in action

COVADEM



Technology brief

- Modern IWT vessels can gain more than €25k/y by optimising cargo volume and fairway condition-optimised operation, with huge environmental benefits as a bonus. This only requires improved information and interrelated metrics
- CoVadem, a SaaS based service, adds value to inland vessels by smartly enabling optimisation of cargo revenue and reduction of risk, energy costs & climate impact. No investment required, as it works on a subscription basis
- CoVadem collects, analyses, combines and distributes vessel-sourced measurements to provide a fairway covering information service with best available real time and forecast information on available depths
- Access via an online information platform, CoVadem Services, and ECDIS compatible bENC service, as an information layer providing depth information on any ECDIS ENC
- The basis is a fleet of IWT vessels sharing sensor data with CoVadem Servers
- Measuring vessels are equipped with a small and secure data collection device, the CoVadem Box, paid by CoVadem
- Measuring vessels own their data. Vessel specific data are not shared with any 3rd parties and are treated anonymously



Required for deployment

- Upscaling of the measuring network to at least 250 vessels
 - join CoVadem fleet of measuring vessels at no cost
 - discounted introduction offers of CoVadem Services presently available
 - measuring vessels get additional discounts on CoVadem Services
- Further development of services, further calibration and validation of data
- Development and introduction of automated bENC production and ECDIS integration



More information

Meeuwis van Wirdum

- www.covadem.com
- info@covadem.com



Green Inland Shipping Event

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