

Report on measures for effective waterway management in Austria

Steering Group Meeting

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Principle approach of via donau: Integrated waterway management system

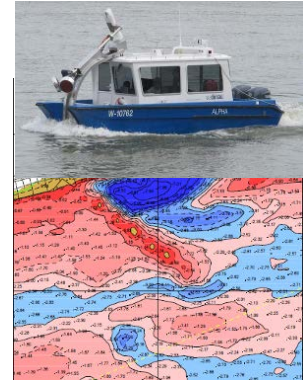


The customer is in the center of all reflections!

Integrated waterway management cycle

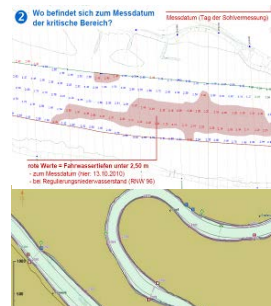
Survey

- Continuous monitoring and general survey of the fairway in order to identify shallow areas (fords)
- Detail survey of shallow areas in order to plan and monitor dredging measure



Inform

- Continuous information on the current status of the fairway infrastructure for the clients = navigation sector
- Different tools: NtS, DoRIS – website, locks, ECDIS,...



Plan

- Planning of necessary dredging works in identified shallow areas (fords), based on results of detailed survey
- Contracting of works -assignment of dredging company

Dredge

- Dredging of shallow area (ford) by assigned dredging company
- Monitoring (Success control) of works: Survey of dredged area
- Internal documentation and external communication to target groups (e.g. shipping companies)



Effective waterway management: Short term improvement measures (starting 2012)

- Pro active dredging (starting in September) before a potential low water period in autumn
- Improved display of shallow sections (trackplots) via the internet
- Updated internal directive for all surveying activities & revised legal framework for contracting of dredging works
- Publication of “Kennzeichnende Wasserstände der Donau 2010” in June 2012 (“Etiage Navigable et de Regularisation et haut niveau navigable sur le Danube”)
- Start of pilot project at “Bad Deutsch Altenburg”: Reconstruction of groynes & optimization of interaction to continuous maintenance works
- Start of project “water level forecast” with Technical University of Vienna (objective: at least reliable 3 days water level forecast)
- Start of internal projects: Creation of a comprehensive electronic waterway management system (EMS) & set-up of internal process management

Conclusions

1. Integrated waterway management is a continuous optimization task:

Doing the RIGHT things in the RIGHT way at the RIGHT time
– combining EFFECTIVENESS and EFFICIENCY!

2. via donau has set up an internal project: Customer-oriented & integrated waterway management:

- All internal procedures are considered and discussed, waterway management has to be understood as continuous improvement process
- via donau has an annual budget of about 10 millions € for waterway maintenance of the Austrian Danube stretch.

3. The Danube river is the most international river of the world (10 riparian countries): Therefore Danube waterway administrations should cooperate & learn from each other in order to achieve harmonised waterway standards along the Danube river!