Flagship Project Innovative Danube Vessel

Preparation of EUSDR "flagship project“: **Innovative Danube Vessel**

- Study commissioned by PAC 1a (via donau) on behalf of DG REGIO
- Overall objective: **Elaboration** and **development** of **innovative vessel** and **technology solutions** with high potential for implementation on the Danube
- Analysis of **solutions** derived **from existing R&D projects** with respect to their potential for implementation and further development in the Danube region
- **Provision** of **recommendations** for further **technology development** within the framework of the Danube Region Strategy
- Project duration: 18 months (until end of 2013)

Figure 3.2: Main engine with complete installation. Figure 3.3: Exhaust output section.

Figure 3.4: Urea injection and PM filter burner. Figure 3.5: Urea tank in the aft ship.

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via donau has commissioned a consortium of inland waterway shipping experts to elaborate guidelines and recommendations for the INNOVATIVE DANUBE VESSEL.

"INNOVATIVE" is understood in this case to be "BETTER than the existing fleet", both in terms of

1. ENERGY EFFICIENCY and
2. COST EFFICIENCY.

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- The identification and selection of promising technical and operational solutions will be based on performance indicators reflecting economic efficiency and environmental performance.
- The assessment of the proposed solutions will deliver costs-benefit assumptions, ranking of impact, clustering into short-, mid-, and long-term perspectives, and the description of necessary legal and market framework.

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- The assessment of technologies and of vessel concepts will involve experts from vessel operators in order to ensure high practicability of the proposed solutions as well as further market acceptance.
- The results of the study shall enable vessel operators to invest into improved vessels in order to gain in efficiency and to reduce adverse environmental impact of navigation to a minimum

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The benefit of innovative ships compared to the existing fleet will become evident by

- advantages in cost and performance
- Reduced environmental impact
- Stimulation for the modernisation of the Danube fleet
- European added value

The project started work in July 2012 and will deliver results in December 2013.