

Spatial Vision and Associated Action Plan for a durable Development of the Spuikom (Flushing Basin) of Oostende



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Client: Ministry of the Flemish Community, Division of Waterways in the Coastal Zone

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Budget: € 12 500

Location: Ostend, Belgium

Partners: Euras, Groep Planning

Assignment:

Following a workshop on the old flushing basin (Spuikom) in Ostend a managerial commission has been created. This commission launched an assignment for a study to provide a sustainable and integrated development scheme. The purpose of this project was to develop a long-term view and produce an appropriate action plan for the flushing basin area in Ostend taking into account the various existing and future users' functions.

Scope of Services:

- Integrated view of area, specifically oriented towards water related infrastructure
- Action plan for water management
- Dredging strategy
- Sustainable and integrated management

Technical Description:

The multidisciplinary team formed by Groep Planning, Soresma-haecon and Euras was appointed to execute this project. Based on the global inventory of the flushing basin's actual situation, a more thorough expert analysis was performed regarding :

- planning and landscape integration
- traffic expertise
- ecological vicinity

- identification of actual and potential end users
- views and suggestions developed by the stakeholders
- economical preconditions with potential for alternative energy
- water related infrastructure



Jetty for sailing activity on the south side

An overall integrated view on the area has been formulated based on the inventory, a synthesis of the actual situation and future objectives. Together with the feedback of the managerial commission a wide social concertation platform for this view was created. The final assignment for this project was to provide a further interpretation translated into an action plan for this view on the global area.

The Soresma-haecon team executed the analysis and studies regarding all water related aspects in particular :

- description of salt and fresh water exchange with special attention to the effective water level management
- spatial and temporal segmentation of sediments spread over the bottom of the flushing basin
- inventory of existing bank constructions and specific description of the beach protection structures and the various jetties
- feasibility analysis of renewable sources of energy at the flushing basin (wind turbines or tidal power plant).



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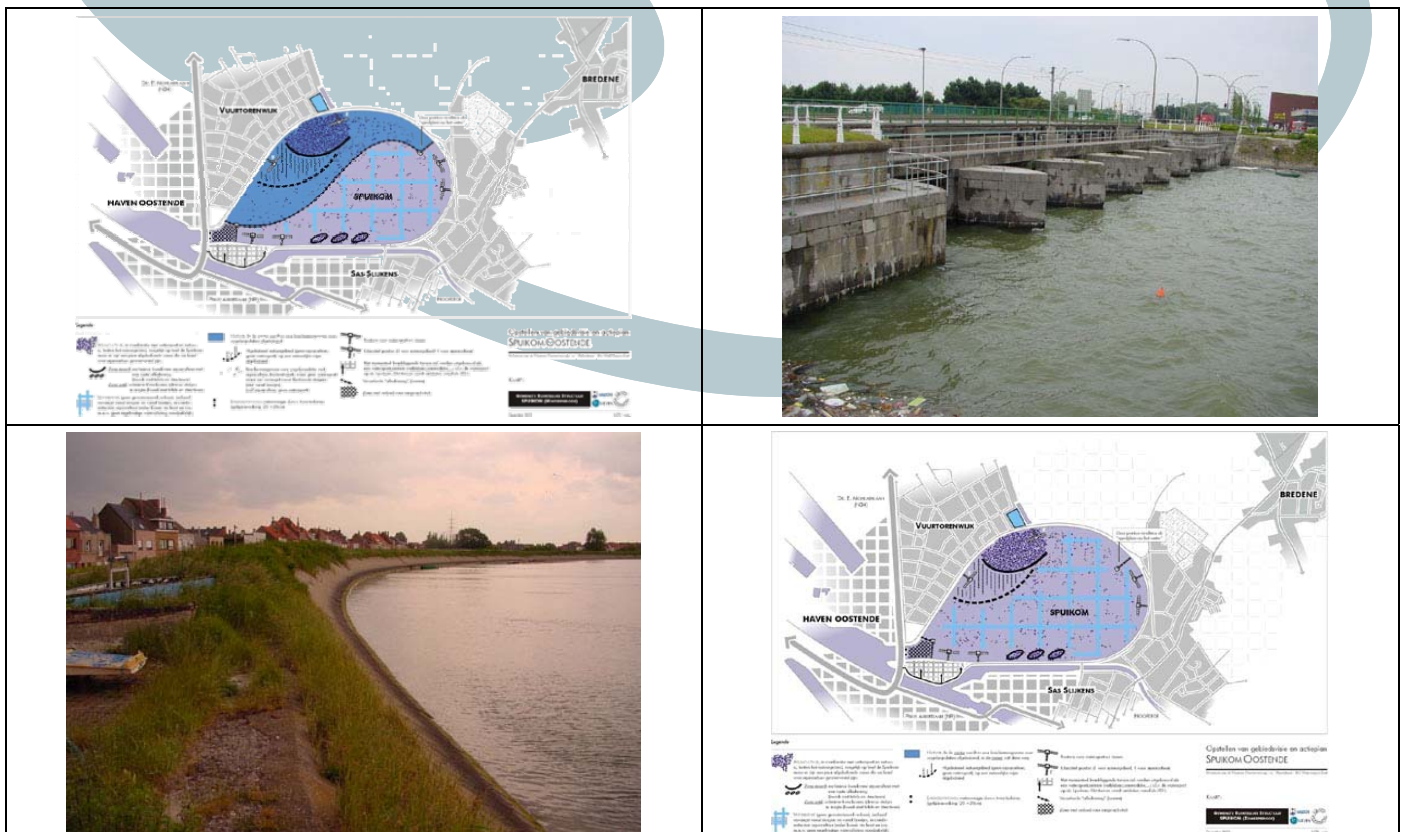
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Looking at these hydraulic aspects a specific number of specific potentialities/threats have been formulated, which were part of the action plan :

- continuous monitoring of the water level and management based on the water quantity and water quality
- adapted jetties in relation with the water level management, based on the users' demands and the environmental constraints
- appropriate dredging strategy taking into account the ecotoxicological threat of polluted sediments.



Northern slipway



Visualisation of spatial vision and associated action plan