Development of the instruments RMIS and RMOS

Computer simulation model & steering concept supporting the decision making process for redevelopment of the Waalhaven-Zuid area.

Problem statement
Space, the most tangible asset of the Port of Rotterdam Authority, will be very high on the agenda for the coming years. The amount of land that can be issued in tenure is becoming scarcer. Requests for land from potential customers are turned down more and more frequently. This also applies for already established companies that want to expand. This is unacceptable because Rotterdam wants to stay in the lead as the largest port in Europe. For this it needs room for growth and expansion. Increased and more efficient commercial use of space in the port area is the main goal. The Port of Rotterdam needs an instrument which provides insight into the financial feasibility of spatial redevelopment and allows for steering towards more intensive use of space by incorporating the available resources.

Objective
The objectives are threefold. The first is to contribute to the development of instruments and simulation technology to support planning decisions for integrated area development. The second is to develop a ready to use prototype instrument for decision making and a steering concept which address the decision making issues in the Waalhaven-Zuid plan area in particular. Finally, the third objective is to establish a new method of working which generates plans and facilitates making operational decisions resulting in more intensive use of space in the Rotterdam port area.

Results
- the interactive 3D computer simulation model RMIS
- the organisation concept RMOS for using the RMIS
- combined use of the model and the concept leads to content driven arguments which take the social dynamics into account
- improvement of the decision making process with regard to speed, measurability of the effectiveness and efficiency and the number of solutions
- the system can be used to assess the spatial and financial feasibility of the different aims of all those involved at an early stage

RMIS: Ruimte Management Informatie Systeem
RMOS: Ruimte Management Organisatie Systeem

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