

## BRIEF SUMMARY

### of the Realisation Concept Royal Haskoning

Following the invitation of Hamburg Port Authority to participate in the Market Consultation process for the development of a concept for the Central Terminal Steinwerder (CTS) in Hamburg, Royal Haskoning immediately put together a competent, focussed and determined team to develop a functional yet innovative concept for this area of the port.

Our submission features unique innovative ideas and represents what we believe to be the future in port developments and therefore was named “Port Evolution”.

Having identified the need for container handling capacities in Hamburg and gaining an appreciation of the unique position of the Port of Hamburg, the Haskoning project team focussed on several distinct areas:

1. Developing a fully functional container terminal
2. Maximising sustainability and environmentally friendly equipment
3. Public access for recreation with added educational value regarding the environmental as well as the technical features of the development

The above was implemented through Port Evolution and our Green Ports initiative by focussing on sustainable construction, sustainable equipment, energy efficiency, emissions management and carbon footprint reduction.

In our concept, we make use of the pre-defined CTS area, reshaping it so that a channel is maintained around the new terminal to effectively create a peninsula and to allow a development which is accessible for the public by means of water taxis whilst permitting HPA to use the area for a fully functional, high capacity container terminal (3.5 mill. TEU p.a.).

It is envisaged to create a truck free terminal which operates fully automatically. This requires realisation of an inland container depot where all empty containers as well as containers directed for local distribution are handled. Delivery of containers to this depot would be exclusively by train; for distribution from the depot, trucks are required.

Other key features of our CTS concept are:

- Container handling equipment electrically powered were possible
- Containers distributed by train and feeder ships only
- Example project with educational and recreational value
- Integrated transport system
- CO2 neutral and environmentally friendly terminal
- Creation of electricity by using renewable energy sources
- Introduction of a Waterwall on the East side of the terminal area
- Maximised use of recycled material
- Creation of direct and indirect employment
- Construction of a landmark building for terminal administration
- Concept highly flexible
- Affordable phased terminal development
- Large number of ecological advantages

Royal Haskoning's concept combines the above features in an unprecedented way. We believe that the CTS concept as presented in our booklet fully benefits both, the Port of Hamburg as well as the City of Hamburg and represents a landmark development which will be recognised world wide.