



maritime planning & development



ROYAL HASKONING

thinking in
all dimensions

maritime planning & development



Clockwise from left: Felixstowe Port, UK; Strategic Development Plan, Port of Cork, Ireland; Ennore Coal Port Development, India.

from trade volumes to port layouts

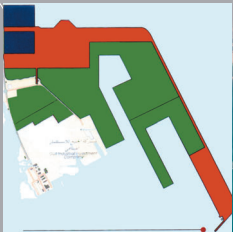
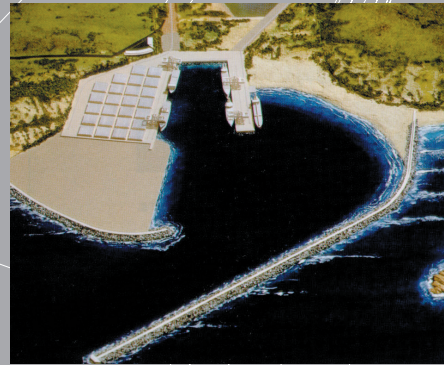
planning

Development and master planning encompasses a wide range of activities. They range from creating simple port or shipyard layouts to examining the complex interaction of national and international economics, and the effects these have on the demand for facilities. Planning from Royal Haskoning, through Posford Haskoning Ltd., and Haskoning Nederland B.V., enables our clients to exploit the maximum potential of their facility with confidence. Our maritime development planners, economists and transport and shipping specialists focus on preparing robust trade forecasts, expansion plans, facilities and services that meet the stakeholders' objectives.

approvals

Gaining planning approval and completing an environmental assessment is critical in any development initiative. Our urban and regional planning specialists and environmental scientists are fully familiar with national and international planning and environmental assessment requirements, including those of the international funding agencies.

Our combined expertise is targeted towards balancing development with conservation, so that projects can be realised in the most sustainable manner possible.



Clockwise from top left: Massawa Port Master Plan, Eritrea; Coega Container Port Development, South Africa; Estate Development Planning for the Port of Tema, Ghana; Hidd Port Development, Bahrain.

business structures & funding

arrangement

A port's success largely depends on the compatibility between its institutional arrangements, the business drivers and its local environment. Changing shipping patterns, increasing trade volumes and factors such as the increasing importance of containerisation have changed the business environment for many ports. Our experts provide services to both public and private parties, including the identification of a preferred ownership strategy and the formulation of strategic plans. We also advise on organisational reforms, port marketing and financial administration, deliver training programmes and assist on human resource planning.

financing

Through detailed evaluation we aim to reduce the risk of development. Our philosophy in making recommendations is based on 'what would WE do under the specific circumstances identified'.

We can also investigate opportunities for risk sharing through equity participation, or help to arrange project finance through our local, regional and international networks. Our specialists can advise on the latest grant and funding opportunities as well as which banks or institutions might be willing to become involved in maritime development.

Royal Haskoning is an independent, worldwide operating consultancy that has its origins in a firm established in 1881 in the Netherlands. The consultancy now has a staff of 3,000 who together combine a wide range of knowledge and experience. Rooted in a technical background, our consultancy services focus on the broad field of the interaction between people and their environment, in the fields of spatial development, infrastructure & transport, architecture & building, mechanical & electrical services, environment, water, coastal & rivers and maritime.

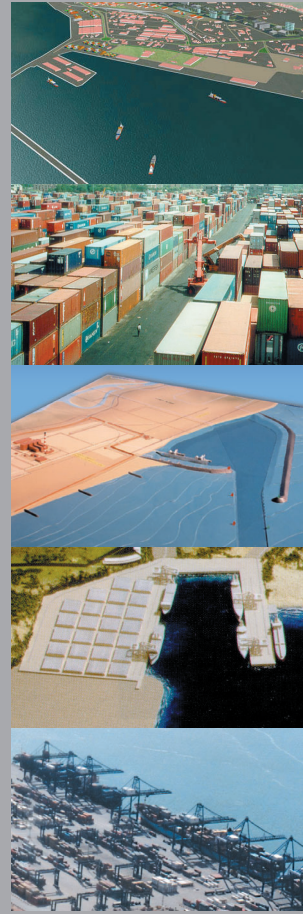
We are committed to working enthusiastically with our clients to achieve sustainable solutions in an increasingly complex society. The expertise and experience of our professionals in a variety of disciplines allow us to

consider all technical, logistical, architectural, legal, organisational, social, environmental and economic aspects of your project, in order to develop sustainable and practical solutions. Royal Haskoning has subsidiaries and partners throughout the world. Through our branch and project offices in Europe and overseas, we have access to all major international markets. This way, Royal Haskoning offers multidisciplinary and integrated services locally, based on experience built globally. With our personal service in consultancy, we contribute effectively to the successful planning, design, implementation, commissioning and operation of projects and programmes and enhance our clients' work with added value.

Royal Haskoning, through Posford Haskoning Ltd., and Haskoning Nederland B.V. is a member of:

- ACE The Association of Consulting Engineers
- BCCB British Consultants & Construction Bureau
- PIANC International Navigation Association
- ICHCA International Cargo Handling Co-ordination Association
- CIRIA Construction Industry Research Information Association British Section
- ICID International Commission on Irrigation and Drainage
- IEMA Institute of Environmental and Management Assessment
- FIDIC International Federation of Consulting Engineers

Royal Haskoning, through Posford Haskoning Ltd., or Haskoning Nederland B.V. is registered with: African Development Bank, Asian Development Bank, Caribbean Development Bank, European Bank for Reconstruction and Development, European Development Fund, International Development Bank, Islamic Development Bank, Kuwait Fund for Arab Economic Development, Department for International Development, United Nations Development Programme World Bank, and many other Funds and National Authorities.



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