



# waterside development



**ROYAL HASKONING**

thinking in  
all dimensions

# waterside development



*Clockwise from above: Brighton Marina, UK; Brighton Marina aerial photograph, UK; Portsmouth Gunwharf Quays, UK.*

## making the right decisions at inception

Wherever you are in the world, the demand for leisure, residential and commercial development along the water's edge means that these locations attract a financial premium. At the same time, the natural environment for which the waterside is particularly prized is very sensitive to change. Development therefore demands that a balance is reached between the often-conflicting environmental and financial considerations. This balance can be achieved through the diligent exercise of a wide range of skills, especially at the inception stage.

Royal Haskoning, through Posford Haskoning Ltd., and Haskoning Nederland B.V., offers its depth of expertise and experience to all aspects of the inception process, including:

- Site selection and evaluation
- Environmental appraisal and consultation processes
- Feasibility studies
- Flood risk assessment
- Master planning and outline design
- Cost estimates, funding and grants
- Licence applications and statutory approvals



*Clockwise from above: Palm Island Development, Dubai; Haslar Marina, UK; Sentosa Development, Singapore.*

## design that blends aesthetics & practicality

The design of each facility must be integrated to provide a pleasing unity to the development. Facilities must also be robust enough to endure the often-challenging environmental conditions at the water's edge. A typical scheme might comprise some or all of these facilities:

- Residential, retail and yachting facilities
- Breakwaters, revetments and quays
- Pontoons and moorings
- Buildings, roads, drainage and ancillary services

Each marina, harbour and waterside scheme will require a wide range of specialist investigation and design skills.

In completing many successful projects, Royal Haskoning has developed the complete range of skills necessary to undertake all aspects of waterside design, including:

- Environmental impact assessments
- Geotechnical and contaminated land investigations
- Bathymetric and topographical surveys
- Wave, siltation and hydraulic studies
- Architectural and building design
- Infrastructure and utilities design
- Spatial development and planning



*Clockwise from above: Portsmouth Gunwharf Quays, UK.; Douglas Harbour bridge, Isle of Man; Littlehampton Harbour aerial view, UK.*

## safe implementation in challenging environments

The involvement of a wide range of interest groups in the development of many waterside projects – operators, developers, architects, contractors, designers and environment specialists – calls for an integrated approach to the implementation process.

This approach will ensure that the primary goals and aspirations are carried through from inception to completion, and are realised within the agreed budget and programme.

Innovative thinking is often called for in the development of contract arrangements to ensure that the project focus remains.

Royal Haskoning draws on extensive experience of successfully partnered and incentive-driven contracts to deliver complex multidisciplinary projects, often in the most challenging of environments. The implementation services we offer include:

- Project planning
- Contract documentation
- Tendering and procurement
- Project management
- Cost control
- Site supervision
- Contract administration
- Planning supervision



*Clockwise from above: Aberystwyth Harbour, UK.; Pwllheli Harbour, UK.; East Cowes Marina, Isle of Man.*

## managing effective waterside facilities

Increasing demands are being made on the management of marinas, harbours and waterside estates. The market place is developing rapidly, while there is an increasing awareness of flood risk, and ever burgeoning environmental and safety legislation. Royal Haskoning has the experience of more than 100 completed schemes to draw on and unparalleled knowledge in this field. With this experience, we are able to assist marina operators and managers in ensuring that their facilities remain fully effective and compliant with newly introduced legislation.

We can identify opportunities for enhancements in operational methods and increases in effectiveness in many ways:

- Operational support
- Facilities management
- Planned maintenance
- Structured development
- Legislative compliance

Contact us for further information about inception, design, implementation or management services, or to discuss how we can help you achieve your objectives.

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 your 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 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.



# thinking in all dimensions

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