

Artelia, an independent multi-disciplinary engineering & project management company

Consulting - Master planning & feasibility
Design & engineering - Construction & project management
Asset & facility management - Turnkey solutions



Building construction
Multi-site programmes
Industry
Water
Maritime
Environment
Energy
Transport
Urban development



The Artelia Group has been granted the following certifications*: ISO 9001 | ISO 14001 | ISO 45001

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Maritime

Designing efficient and environmentally-friendly schemes





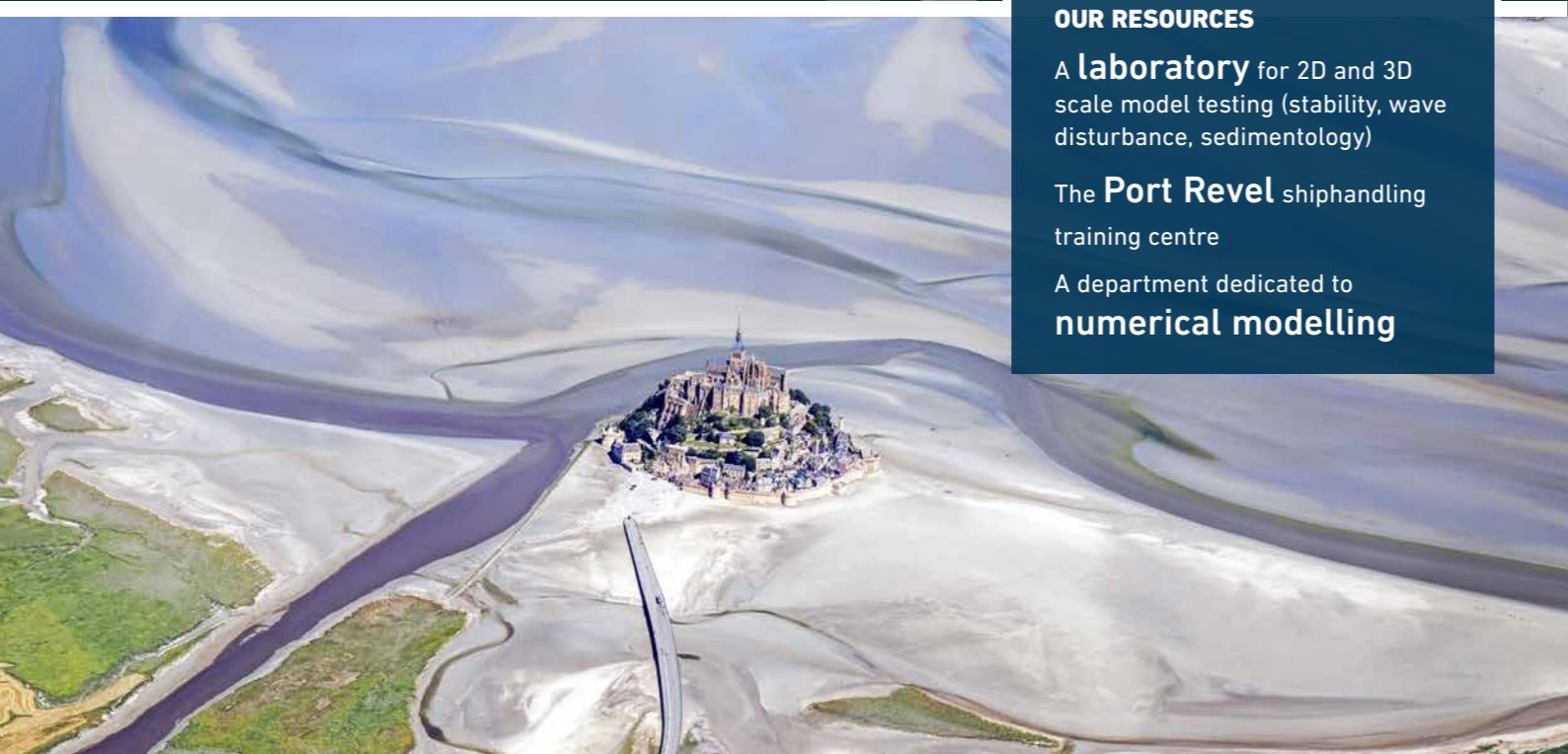
Artelia is a partner of choice when it comes to the engineering aspects of port and coastal infrastructure and environmental consultancy for coastal and estuarine areas.

Maritime areas are sites of dynamic natural exchanges and rich sources of biodiversity, but they are threatened by increasing demographic pressures in coastal areas: by 2035, more than 75% of the world's population is likely to live less than 100 km from a coast.

With its expertise in **hydrodynamics, sediment dynamics** and **civil engineering**, Artelia is a partner of choice when it comes to the engineering aspects of port and coastal infrastructure and environmental consultancy for coastal and estuarine areas.

The Group designs commercial ports, industrial, energy and ore terminals, intakes and outfalls, coastal protection structures and seafront tourist and urban development projects throughout the world.

Lastly, Artelia devotes considerable resources to research in order to harness the energy potential of oceans through the development of innovative **marine energy** solutions.



OUR RESOURCES

A **laboratory** for 2D and 3D scale model testing (stability, wave disturbance, sedimentology)

The **Port Revel** shiphandling training centre

A department dedicated to **numerical modelling**



CLIENTS AND PARTNERS

- . Public-sector owners
- . Local authorities
- . Private developers
- . Industries
- . Turnkey and EPC contractors
- . Construction companies
- . Operators
- . Banks and insurance companies

COASTS, BAYS AND ESTUARIES

- . Coastline management, coastal protection and development
- . Estuarine morphodynamics
- . Restoration of coastal and estuarine ecosystems
- . Wetlands, man-made mud flats, depolderisation,
- . Environmental impact of development works
- . Sea water quality

URBAN AND TOURIST DEVELOPMENT SCHEMES

- . Sea fronts
- . Marinas and marina villages
- . Man-made islands and beaches
- . Tourist development

COASTAL RISKS

- . Evaluation of extreme events
- . Climate change
- . Coastal risk prevention plans
- . Coastal structures and protections safety

OUTFALLS, WATER QUALITY

- . Design of water intake and outfall structures
- . Modelling of heated and saline water recirculation risks
- . Bathing water quality
- . Sea outfalls for urban effluent
- . Dumping of dredged materials

PORTS

- . Commercial ports
- . Cruise ship terminals
- . RoRo and ferry terminals
- . Marinas and fishing ports
- . Dry ports
- . Port planning
- . Optimisation of operations

BREAKWATERS, SEA DEFENCES

- . Rubble-mound breakwaters and sea walls
- . Quays, wharfs, complex jetties
- . Non-invasive protection technologies
- . Stability and durability of structures

SPECIALISED TERMINALS AND COASTAL INDUSTRIAL SITES

- . Container terminals
- . Ore, oil and gas terminals
- . Industrial terminals
- . Process water for coastal factories and power plants
- . Onshore installations, lifting and handling equipment in ports
- . Man-made industrial islands

SHIPS AND FLOATING STRUCTURES

- . Harbour access
- . Mooring and berth stability
- . Unloading on buoys, transshipment
- . Navigation aids and shiphandling training

MARINE ENERGY

- . Offshore wind farms
- . Marine energy (tide, currents, waves)
- . Wave and marine thermal energy
- . Design and study of submarine cables and landfall structures