

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

Water

Managing resources sustainably



Water

Managing resources sustainably

Artelia optimises water resource management by reconciling the development of human activities with the protection of natural environments.

Water is vital for humans but is an increasingly fragile resource. Threatened by **climate change**, population explosion and ever-growing urban development, conserving it is one of our key concerns.

For more than 90 years, Artelia has been assisting regional organisations with the optimisation of **water resource management** by balancing human development, risk management and protection of natural environments.

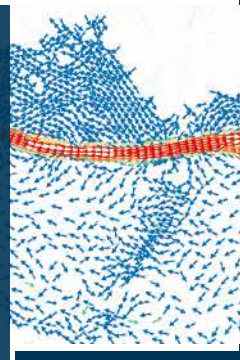
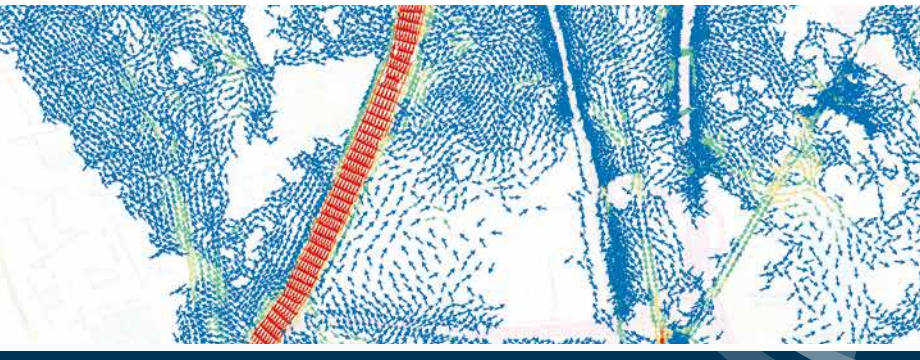
Artelia's hydraulics laboratory, numerical computation cluster and modelling activities are just a few examples of its continuous investment in innovation and R&D: its experts imagine, design and implement **hydraulic schemes** that are high-performance and environment-friendly.

OUR RESOURCES

A department dedicated to **numerical modelling**
A physical scale-model **laboratory**

CLIENTS AND PARTNERS

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



RIVER BASINS AND WATER RESOURCES

- . Integrated management plans
- . Assistance with public policies
- . Aquifer management
- . Water transfer systems
- . Conflict management between users

NATURAL RISKS - FLOODING

- . Prevention, forecasting and warning, protection
- . Statutory studies, flood-risk prevention and disaster contingency plans
- . River embankment safety
- . Flash floods and mudslides

RIVER DEVELOPMENT AND ENVIRONMENT

- . Management of floods/dry weather flows
- . River morphodynamics
- . Restoration of rivers and wetland areas
- . Hydraulic impact of infrastructure
- . Tourist activities

WATERWAYS

- . Canals, locks and regulation structures
- . Water management
- . Navigation

DAMS AND HYDRAULIC STRUCTURES

- . Hydroelectric dams
- . Multipurpose dams
- . Regulation structures and water intakes
- . Flood spillways
- . Pumping stations
- . Lifting and handling equipment
- . Safety, risk and hazard studies
- . Monitoring, rehabilitation

IRRIGATION AND RURAL DEVELOPMENT

- . Irrigation areas: creation, rehabilitation, modernisation
- . Hydraulic regulation systems
- . Economic and institutional studies

CLIMATE CHANGE

- . Assessment of the impact of climate change on different natural environments (oceans, rivers, lakes, wetlands, aquifers, etc.)
- . Adaptation strategies
- . Assistance with economic analyses

