

A strong ambition

By anticipating a Dynamic Digital Twin right from the design phase, Artelia provides a tool to steer performance of your project, to optimise operating costs and asset value as high as possible.

The Dynamic Digital Twin is the digital representation of the physical reality of a work based on:

- The operation of a completely digitalised documentation, as well as the continuous updating of all equipments.
- The monitoring of all equipment, installations, floors equipped with sensors and actuators.
- The integration of technical, regulatory and financial data related to the project.

A core BIM Department
located in France

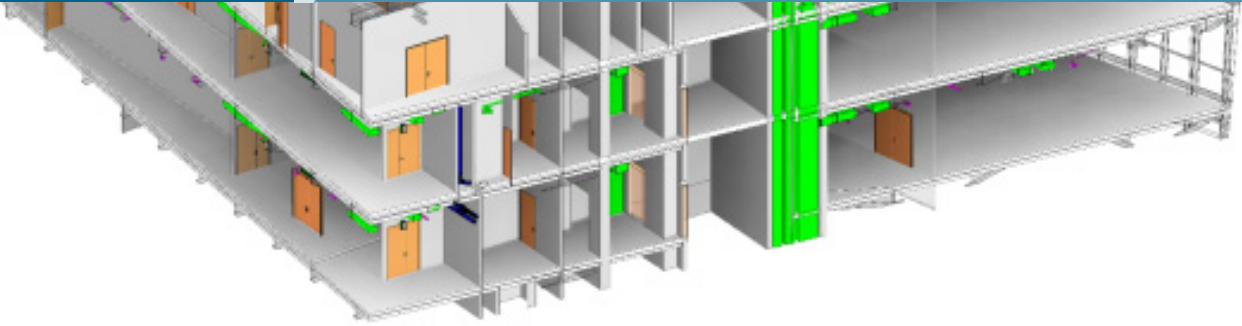
Additional workforce:

100+
Modellers

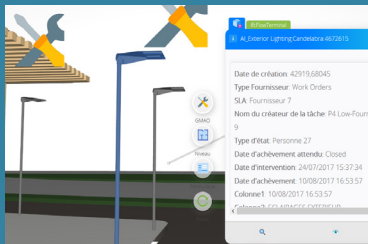
20+
BIM Managers
BIM Coordinators

The Dynamic Digital Twin supports the creation of a reliable maintenance logbook. It offers the opportunity to establish a unique reference system as well as a collaborative platform. It gives multiple stakeholders a shared framework to improve their objectives:

- . Updating the file of subsequent interventions
- . Traceability of regulatory obligations
- . Optimisation of maintenance
- . Optimisation of operations (occupancy rate, users satisfaction)
- . Watch on aging and damage prevention



Artelia has an extensive network of partners in the construction and digital sectors. The group is renowned in these innovative fields as a developer and operator.



Our approach

Identify your priorities according to your challenges and expected returns on investment.

Create a pilot programme to validate and specify your objectives.

Build the phases of a project by associating the best partners.

Support your project throughout its lifecycle, ensuring your independence by mastering the various stakeholders.

A set of powerful and complex digital tools

The creation of our Dynamic Digital Twin system is based on a progressive approach. It is founded on a high level of ambition thanks to the continuous progress made in four key digital skills:

- The modelling of structures particularly through BIM, a smart process using the programming of objects allowing the creation of drawings, 3D visualisation and functional diagrams from a common database.
- Capturing data from connected objects (IoT) and from measurement or digitalisation techniques (scans, drones, optics fibre).
- The consolidation of data in a database, their processing through data sciences, their sharing by means of platforms linking the most diverse sources (technical documentation, geographical information system, external databases).
- The development of user-accessible applications in a complex digital environment.

A high-level approach

Artelia is a partner that brings together in the same team:

- Practitioners in the design, construction and operation of all types of works.
- Experts with digital skills in modelling, IoT and data capture, data consultation and processing, application development.
- Consultants whose mission is to set up a cloud infrastructure upfront, to ensure security and maintenance 24 hours a day from a digital solution.

Artelia works with the best partners specialised in one of the project's issues, major reference digital services companies and start-ups.

