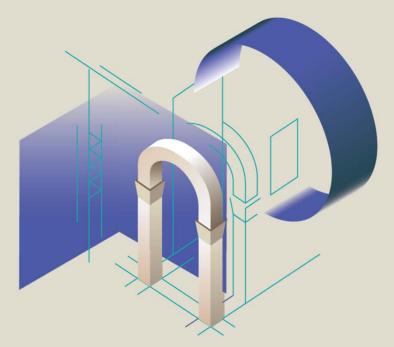
"Revolutionizing Design: The Potential of BIM in Modern Architecture for Public Properties" Rivoluzionare la Progettazione: Il Potenziale del BIM nell'Architettura Moderna per gli Immobili Pubblici

Janager - Agenzia del

SMARTCITY Execondruct congressuale De Pasquale



PATRIMONIO DIGITALE



Domonio



🕼 AGENZIA DEL DEMANIO

L' Agenzia del Demanio is a public economic body responsible for the management, rationalization and valorisation of the state's real estate assets: approximately 42 thousand assets worth 61 billion euros.

With more than a thousand employees, it is divided into 17 Territorial Directorates and a General Directorate:

The **Territorial Directorates**, present throughout the national territory, carry out the technical activities necessary for the **management** and **valorisation** of the State's real estate assets

The **General Directorate** is responsible for **directing**, **coordinating** and **controlling** the Agency's activities carried out by the territorial structures.



30.000 Buildings

61mld€ Value





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Heritage of historicalattrictalue



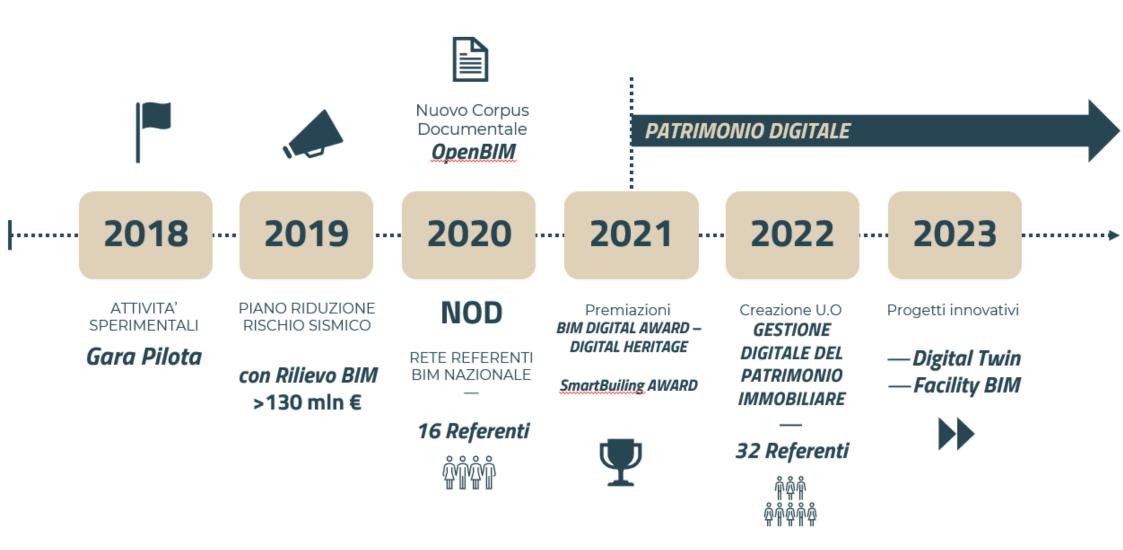
AGENZIA DEL DEMANIO



UNI EN ISO 19650:2019

Mission

AdD promotes, starting from 2018, the implementation of a procurement **information management system** that involves the entire life cycle of the Works, also through the application of **UNI EN ISO 19650**







AdD applies the information management process throughout the life cycle and transmits its information requirements thanks to a standard document corpus, customizable for:

- Type of property
- Type of service
- Design level
- Macro Uses/uses of BIM

DIGITAL CONSTRUCTION SITE

Information management of the executive phase - documentation

To structure the process, qualify the question and obtain coherent answers from the Operators

- **update** of the Guidelines for the production information BIMMS
- review of information specifications of AS-IS and DESIGN phase
- new information specification for Safety Coordinator and AS-BUILT
- new OGI templates

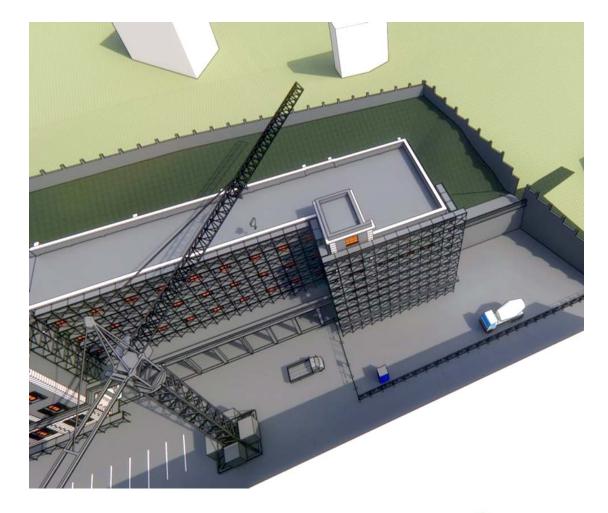




Safety Coordination for AdD

Obtain digital models, both in the design and execution phase, containing all the preparatory information for drafting the safety planning:

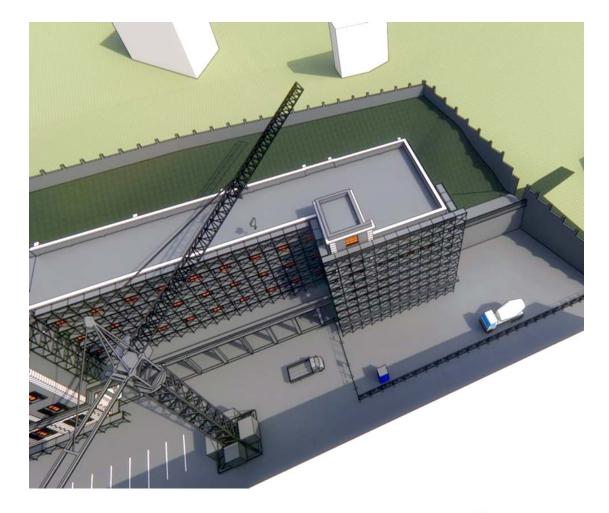
- identification of construction site area(s).
- identification of risks connected to the context and the related mitigation requirements.
- definition of prevention measures used to mitigate the risks related to processes and their interference.





Safety Coordination for AdD

- preparations
- equipment, systems and machines used on the construction site and the risks associated with their use;
- organization of the construction site (traffic, material storage and waste storage areas, etc.)
- collective protection means and services (signs, first aid, fire extinguishers, etc.)
- emergency management systems.





• estimate of **safety costs**.

Information requirement

The OE (CSE) is required to produce the Model(s) for Safety Coordination and related extraction (ex. views from the Model, two-dimensional graphics or documents, etc.) referring to the Milestones of the Works or specific processes considered of particular attention by the CSP for the correct execution of the same.

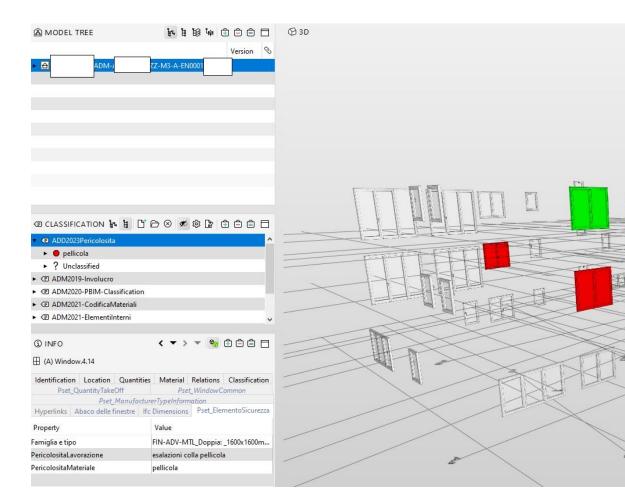




DIGITAL CONSTRUCTION SITE Information requirement

It must always be verified:

- the correct georeferencing and federation of disciplinary and interdisciplinary models.
- the temporal association of the model elements in the function of the executive activities, with particular attention the identification of the most phases.





AS BUILT **AS-BUILT for AdD**

Geometric-informative representation of what is actually constructed, supplied and installed in order to constitute a reliable database for the management of the Asset(s) during its life cycle.

Digital models for:

- management and maintenance needs;
- plan future re-design and maintenance
- coordinate the construction elements represented and the attached certifications





AS BUILT Information requirements

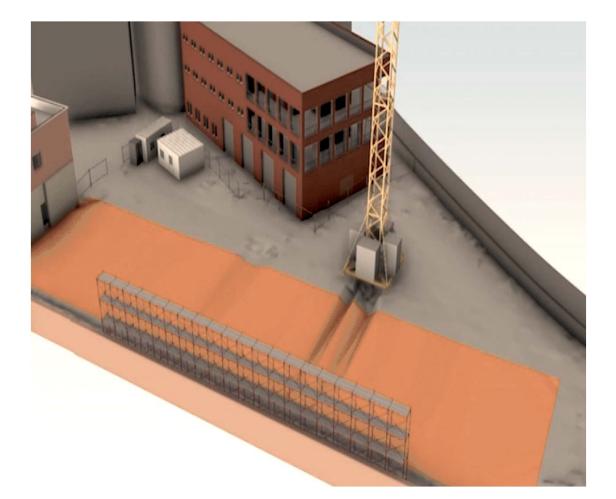
- The Geometric Requirement Level requested is the same as the detailed design but with the actual "position" of the modeled elements
- The alphanumeric Requirement Level requested is same as the detailed design integrated with parameters mainly linked to the real information of the elements: installer; producer; outcome of tests and inspections; etc.
- The Level of Documentation Requirements requested consists of product certifications and approvals; user manuals; etc.



Responsabilites of the Constructor

AdD requires to the contractor to **produce As-Built information models** in accordance with the company BIM process documents and according to a WBS (Work Breakdown Structure) organization of construction site activities defined and shared with the Contracting Authority.

The activity must be carried out by a qualified professional, and the constructor must provide to organize a **BIM team**.





SITE MANAGER

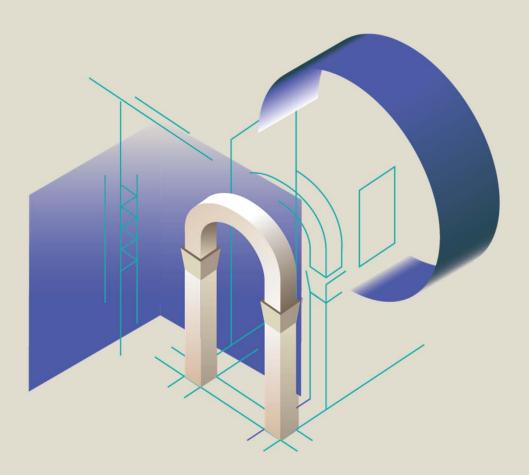
BIM responsabilities of the Site Manager

AdD, in this first phase of development of the information management process during the works phase, requests two activities:

- Update of the tender-based PIM, it means the Detailed Design, mainly in the case of variations.
- Verification of the As-Built information models created by the Contractor during the execution phase.







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