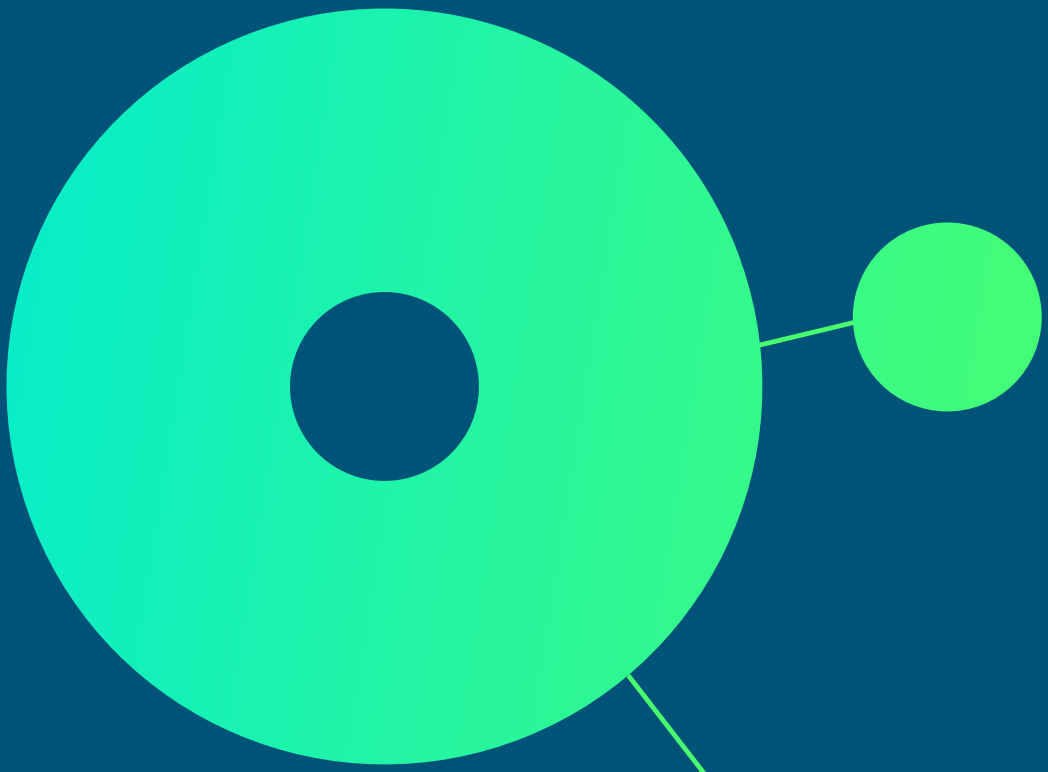
WHITE PAPER



mezzoteam

KEY CRITERIA FOR CHOOSING YOUR COMMON DATA ENVIRONMENT

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THE CONTEXT

Construction projects are generating more and more information that is necessary for the optimisation of the design, the construction and the operation of the structures. This information comes from various sources and must be shared with a large number of stakeholders.

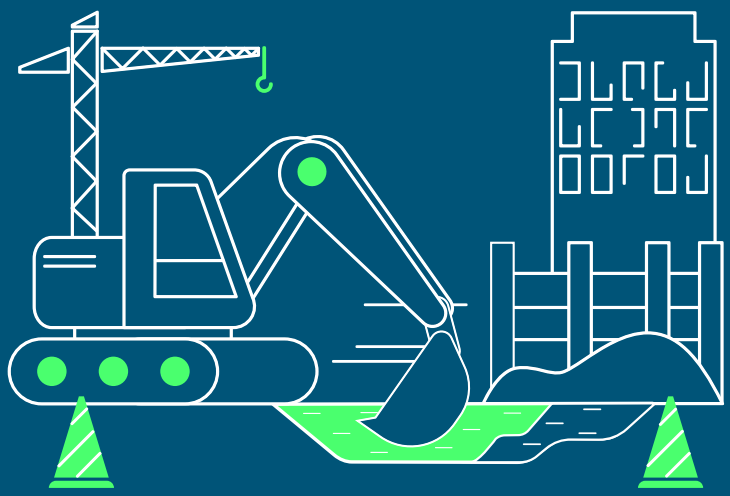
The risks are:

- dispersion or loss of information,
- unauthorized access,
- the inability to guarantee the reliability of the data,
- the difficulty of efficiently finding the right information.

A Common Data Environment (CDE) is a digital space where information related to the construction project is stored and accessible to stakeholders according to their role **(project owner, project manager, contractors and their subcontractors).**
A CDE allows you to share, organise, consolidate and exchange all data and documentation relating to a construction project: BIM models, plans, contracts, reports, estimates, detailed material specifications, etc.

By becoming the sole source of project data, a CDE facilitates collaboration between the various project participants and ensures data reliability, traceability and security.

But how can you be sure to choose the right CDE according to the requirements of your project? What criteria should you take into account? Find the answer in our checklist!



CDE: THE ESSENTIAL CHARACTERISTICS

Process automation

Workflow automation must include the management of serial and parallel validation circuits, the automatic association of workflows with documents and models thanks to metadata, the fine-tuned and differentiated management of deadlines according to the approvers, and automated distribution, rights management, information processing and annotations.
Automation must also offer the possibility to assign tasks on demand, to create a chain of processes with each other and allow tasks to be assigned to users, groups and organisations.

Information and access rights management

Construction projects involve a multitude of information and actors (project managers, operators, companies, etc.). In order to ensure that everyone has access to the latest version of the document and only to the information they are authorised to consult, a CDE solution must integrate optimal rights management, interconnection and automation.

Automated dashboards for simplified project management

Automated dashboards allow you to see all the metrics of the operation at a glance. Real-time data updates help prevent delays and analyse the gaps between project expectations and the day-to-day reality of the site in order to improve the overall efficiency of each player.

BIM management

As a central element of the construction project, the BIM model is a powerful medium for data sharing and communication. Your CDE must offer optimal accessibility to the BIM models for all project stakeholders. They must be able to compile, explore, consolidate, visualise, analyse, interact with the working and production environments and manipulate the models without difficulty through an easy-to-use interface and with the help of adapted BIM tools (Revit extension, BCF project review, etc.):

- Compile: assemble and link several models
- Explore: navigate through the model, effectively managing the display of objects according to their classes/types and properties
- Consolidate: perform project reviews by creating, processing and tracking BCF annotations (standard developed by BuildingSMART)
- Analyse: access, query, verify and exploit properties (quantities, costs, materials...)

Project directory

By offering the possibility of adding participants to the project, the directory will define the ownership of the information and the attachment to coherent groups of people who produce it (issuing groups) and distribute it (functional groups).

The automation of the assignment enables optimal distribution to the client and to all the stakeholders that will have the right to consult and act on the document, so as to better structure the project.

In addition to listing the users, the directory must enable the participants to be organised by different types of grouping (organisation, roles) in order to facilitate the management of rights, distribution, task assignment and the many departures and arrivals over the duration of an operation.

The backbone of the project

A CDE must be able to integrate the ecosystem of tools used by the various participants in the project: the design tools, of course, but also the site monitoring solution, the internal applications for managing partners (engineering, control offices, reprographers), etc.

It is therefore important to check that the chosen CDE has connectors and integration with the tools used. And to cover all eventualities, the availability of an open API ensures the sustainability of the investment and the reversibility of the project data.

Data security

As a single source of data for all project stakeholders, a CDE must guarantee an optimal and adapted level of security by modulating or superimposing the following characteristics:

· Authentication rules: strong passwords or SSO (Single Sign-On)

· Highly secure hosting (ISO 27001)

· Cloud or On-Premises

· Data encryption

SMART

The «Smart» criteria to:

- Facilitate collaboration through a single platform (CDE)
- Enable an efficient BIM approach
- Help you improve the performance of your projects and better control your value chain by reducing costs, delays and defects

EDM

- Metadata on models and documents
- Automatic coding
- Logical tree structures
- Rights management by model or document
- Dynamic rights management
- Automatic status management
- Predefined validation circuit
- User-selected validation path
- Automatic assignment of the circuit
- Instant notifications
- Periodic alerts
- Periodic reminders
- Traceability of information
- Management of links between documents (package management, summary documents)
- Multilingual interface
- Autonomy of solution administration
- Project directory

SMART

BIM

- IFC support / supported versions
- Customisation of BCF fields
- BCF field additions
- Link note / objects
- Note localisation
- Import Export BCFZip
- Import Export Excel
- Management of federated models
- Management of models configuration
- Standard level management
- Export of object data
- Queries, analysis and control of BIM data
- BIM property editing
- BCF project review
- Integration of modelling applications
- ISO 19650 compliance

SAFE

The «Safe» criteria:

- A level of security and sovereignty in line with the projects requirements
- In the Cloud or On-Premises
- Located in France

- GDPR compliant
- Identified personal data controller
- Hosted in Europe
- Redundant data centres
- ISO 27001 compliant
- SSO single sign-on
- SSL (https) connection only
- Encryption / Cybersecurity
- SNC SecNumCloud
- Deployment: Cloud or On-Premises

SUSTAINABLE

The «Sustainable» criteria to:

- Support you in improving the impact of construction and in responding to this dual societal and regulatory challenge
- Adapt the CDE's functionalities to help monitor and improve environmental performance

- Host with environmental standards
- Possibility to retrieve EPD files directly in the CDE
- Dematerialisation of exchanges
- Notification and alert emails without attachments
- PDF stamping: only one paper copy for the site
- Improved coordination and elimination of documentation errors

SYNERGISTIC

Synergistic criteria for making the CDE the backbone of the project:

- By facilitating the integration of data from a maximum number of tools
- By allowing you to remain in your production tools
- By using open and shared business formats (e.g. project review in BCF)
- By integrating data from business applications for a smooth experience

- Automated periodic reporting
- Simplified reporting: interconnection with PowerBI
- Customizable dashboards (documents, templates, BCF notes)
- Open API
- BCF server
- Ecosystem of partners and solutions connected
- Strong BIM/EDM integration

WHO ARE WE?

Mezzoteam, one of the French leaders in the CDE (Common Data Environment), is the backbone of projects, enabling more than 60,000 users to collaborate throughout the construction and operation of structures.

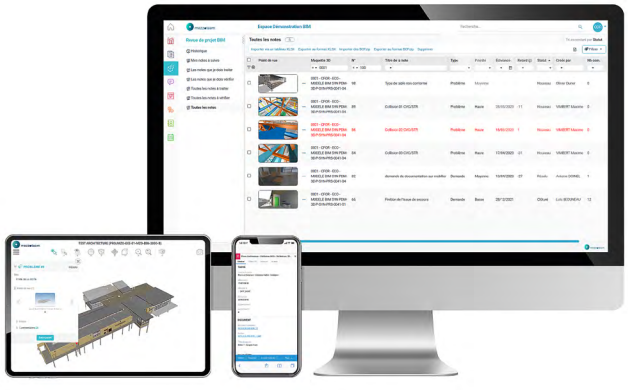
All projects are different, which is why Mezzoteam is unique.

What do the Toulouse metro, the ADP Group's CDG 2B terminal, the Samaritaine and the Hinkley Point nuclear power plant have in common? All these projects are managed within Mezzoteam. For over 35 years, the Mezzoteam teams have been able to develop their software to meet the expectations and needs of all projects in all their diversity. Whether the project is BIM or not, whether the client wants a cloud or on-premises solution, whether the parameters are standard or customised, whether the users are project managers, engineering consultants, construction companies or operators: Mezzoteam adapts to all situations to enable each participant to collaborate effectively and manage all the data relating to their project or work.

Mezzoteam's vision: the most efficient, secure, interoperable and sustainable CDE

Innovation and R&D are at the heart of Mezzoteam's DNA. From the initial drawing cabinet to today's complete CDE, Mezzoteam is dedicated to improving the performance and efficiency of project management and collaboration, particularly via BIM (IFC viewer, project review in BCF, REVIT plug-in, etc.) and performance analysis (KPIs, dashboards).

Moreover, because of its ability to be deployed in the cloud or on-premises, and to meet the most highest requirements of its clients in terms of security and sovereignty, Mezzoteam is also the favourite solution for the most sensitive projects. And because collaboration is part of Mezzoteam's DNA, the software integrates with clients' tools and systems, from Revit to reprographic tools, including OPR and site monitoring software.



35 years of experience

50 countries

60 000 users

CONTACT US

www.mezzoteam.fr

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