ISO 19650
In Five Minutes

Why Care?  What Is ISO 19650?  ISO 19650 Resources

We seem to each project from scratch

Quotes from BIM professionals
I’m always missing information!

Quotes from BIM professionals
Soooo many clashes!

Quotes from BIM professionals
Far too much remodeling

Quotes from BIM professionals
Communication, errr. Well. It’s pretty bad in AEC.

Quotes from BIM professionals
"Always starting from scratch"
"Updates are time consuming"
"Out of Sequence work"
"Too Many Clashes"
"Too much rework!"
"Missing information"
"Tools not integrated"
"Difficult to manage Information"
"Standards not standard"
"Scattered Information"
"Schedule Conflicts"
"Poor communication"
Let’s introduce ISO 19650!
What is ISO 19650?

“Outlines the concepts and principles for information management (BIM)”
What is ISO 19650?

“Applied to all types of assets (projects)”
What is ISO 19650?

“A unified approach”
But don’t we already have BIM standards in the US?
BIM Standards, Guidelines and Templates


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So why should we care about ISO 19650?
What is ISO 19650?

ISO 19650 standards are “International” - being adopted by many countries.
NIBS will work with CDBB to adapt the UK program model and materials as a guide to developing a U.S. national roadmap aligned with the international standard for ISO 19650.
OK! They’re important - but what actually are they?
Let’s take a look!
Main Process (the beating heart of ISO 19650)

Activities for assessment and need

Activities for invitation to tender

Activities for tender response

Information management during the delivery phase of assets

Key
1.1 appoint individuals to undertake the information management function
1.2 establish the project’s information requirements
1.3 establish the project’s information delivery milestones
1.4 establish the project’s information standard
1.5 establish the project’s information production methods and procedures
1.6 establish the project’s information delivery procedures
5.1.2 Establish the project’s information requirements
1.7 establish the project’s information delivery milestones
1.8 establish the project’s information production methods and procedures

The appointing party shall establish the project’s information requirements, as described in ISO 19650-1:2018, 5.3, to address the questions to which the appointing party needs answer(s) at each of the key decision points throughout the project.

In doing this, the appointing party shall consider:

- the project scope;
- the intended purpose for which the information will be used by the appointing party;
- the project plan of work;
- the intended procurement route;
- the number of key decision points throughout the project;
- the decisions that the appointing party needs to make at each key decision point; and
- the questions to which the appointing party needs answers, to make informed decisions.
But we’ve got time, right? Let’s go step by step...
<table>
<thead>
<tr>
<th>Key</th>
<th>Task</th>
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</thead>
<tbody>
<tr>
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Purpose of INFORMATION on the project!

WHAT WILL BE BUILT:

ITEM DESCRIPTION

Project justification (business need that this project is intended to address)

Project description (brief summary of the project)

Project deliverables required delivery

Cost of scope by remaining cost of

Project objectives considered for

Cost Objective

Schedule

Acceptance criteria

Acceptance criteria

Activity

START

END

OWNER

Preparation and brief

Invitation to tender

Tender response

Appointment of design consultants

Delivery of brief

Acceptance of brief

Collaborative production of information

Delivery of development design

Appointment of main contractor

Delivery of technical design

Information model delivery

Assessment and Need | Invitation to Tender | Response

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Information Exchanges

<table>
<thead>
<tr>
<th>plannerly</th>
<th>Plan</th>
<th>Scope</th>
<th>Schedule</th>
<th>Track</th>
<th>Verify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Estimate</td>
<td>Nov 15 - Dec 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEP Coordination</td>
<td>Jan 24 - Mar 31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asset Handover</td>
<td>Jun 27 - Oct 1</td>
<td></td>
<td></td>
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Assessment and Need | Invitation to Tender | Response

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Project’s Information Standards

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<thead>
<tr>
<th>Function</th>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information management</td>
<td>ISO 19650 Series</td>
<td>Collaborative production of architectural, engineering and construction information. Organization and digitization of information about buildings and civil engineering works, including building information modeling (BIM)</td>
</tr>
<tr>
<td>National Annexes</td>
<td>For example: UK Annexes</td>
<td>Additional details required to clarify implementation within a specific country</td>
</tr>
<tr>
<td>Means of structuring and classifying information</td>
<td>Uniform standard data classes, Table 21, Navi Solutions, Discipline, Other...</td>
<td>Classification used for categorizing scope of work and model deliverables</td>
</tr>
<tr>
<td>Method of assignment for level of information need</td>
<td>ISO 17412-1</td>
<td>Building Information Modelling - Level of Information Need - Part 1: Concepts and principles - using the Plannerly Scope module</td>
</tr>
<tr>
<td>Accuracy and Tolerance</td>
<td>USNID LOA / BS 5905</td>
<td>When capturing the existing asset information, the geometry being reproduced shall take into account the construction tolerances outlined within the USNID LOA / BS 5905, as relevant</td>
</tr>
<tr>
<td>Space Numbering</td>
<td>ISO 4157-2</td>
<td>Space numbering convention for room names and numbers</td>
</tr>
<tr>
<td>Naming of Containers</td>
<td>ISO 19650 - National Annex</td>
<td>The agreed convention for the naming of information container identification</td>
</tr>
<tr>
<td>Type and Component Naming</td>
<td>ISO 4157-1</td>
<td>The agreed type and component naming convention. All primary designations shall be written in full</td>
</tr>
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USC Architecture


clive@plannerly.com
**Key**

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**1.5** establish the project’s information production methods and procedures

- establish the project’s reference information and shared resources
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### Capture, Security, Distribution, Review, Delivery, Approval

- **Assessment and Need**
- **Invitation to Tender**
- **Response**

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**2021 Architecture**

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Common Data Environment (CDE)

We will establish a Common Data Environment (CDE) to support the collaborative production and sharing of information on this project. We may appoint a third party to host, manage or support the CDE. The CDE will be in place prior to issuing the invitation to tender with this RfI.

CDE REQUIREMENT DETAILS
All Information Containers will have a unique ID The unique ID shall be agreed and documented along with the fields separated by a delimiter
All Information Containers will have the following attributes assigned: Status (Suitability, Revision and Classification)
Information containers to transition between states Work in Progress, Shared and Published
User and state of transition between each state Record of when the state changed (From Work In Progress to Shared) and who made the change
Access restrictions at an Information Container level Control over who has access to each Information Container

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Assessment and Need | Invitation to Tender | Response

Information Protocol and additional Contract Language
Where do you find each or the Information Particulars?

<table>
<thead>
<tr>
<th>Term</th>
<th>Particulars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appointment</td>
<td>[Describe appointment and Parties]</td>
</tr>
<tr>
<td>Appointing Party</td>
<td>[Name of Appointing Party] OR [Appointing Party’s name]</td>
</tr>
<tr>
<td>Appointer</td>
<td>[Name of Appointer]</td>
</tr>
<tr>
<td>Appointee</td>
<td>[Name of Appointee]</td>
</tr>
<tr>
<td>Works</td>
<td>[Describe]</td>
</tr>
<tr>
<td>Level of Information Needed</td>
<td>[Refer to document/part thereof]</td>
</tr>
<tr>
<td>Exchange Information Requirements</td>
<td>[Refer to document/part thereof]</td>
</tr>
<tr>
<td>BIM Execution Plan</td>
<td>[Refer to document/part thereof]</td>
</tr>
<tr>
<td>Project’s Information Production Methods and Procedures</td>
<td>[Refer to document/part thereof]</td>
</tr>
<tr>
<td>Project’s Information Standard</td>
<td>[Refer to document/part thereof]</td>
</tr>
<tr>
<td>Master Information Delivery Plan</td>
<td>[Refer to document/part thereof] OR [If not applicable to Appointee] (N/A)</td>
</tr>
<tr>
<td>Task Information Delivery Plan</td>
<td>[Refer to document/part thereof] OR [If not applicable to Appointee] (N/A)</td>
</tr>
<tr>
<td>Risk Register</td>
<td>[Refer to document/part thereof]</td>
</tr>
<tr>
<td>High Level Responsibility Matrix</td>
<td>[Refer to document/part thereof]</td>
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<td>Mobilization Plan</td>
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WHAT?
Let’s keep going...
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Level of Information Need: Geometrical Information, Alphanumerical Information, Documentation Requirements

Assessment and Need | Invitation to Tender | Response

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![plannerly](plannerly.com)

We seek to capture the capability of the supply chain to deliver on the project. The prospective Lead Applicant Party shall complete the remaining sections within this RFP to submit a BIM Execution Plan to be assessed against the information requirements of this project.

This is an opportunity to demonstrate existing capability and knowledge that will benefit the execution of our project information requirements. Any sections (required to be completed) which are left blank will score zero.

<table>
<thead>
<tr>
<th>ROLE</th>
<th>NAME</th>
<th>PROOF OF COMPETENCY (doc or Task)</th>
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<tbody>
<tr>
<td>Information Manager 1</td>
<td></td>
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<tr>
<td>Information Manager 2</td>
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Creating **BID DOCUMENTS** (tender)

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Nearly finished...
Assign “Editor” Permission To Prospective Team Member(s)

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Assess Capability - Ask and Answer Questions

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Assessment and Need | Invitation to Tender | Response

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Resource Planning, Software, Hardware and Testing

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**Risk: Potential Project Threats and Mitigation**

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<tr>
<th>Item</th>
<th>Description</th>
<th>Impact (Low/Med/High)</th>
<th>Probability (Low/Med/High)</th>
<th>Priority (Yes/No)</th>
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<tr>
<td>Duration estimates</td>
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<td>Budget</td>
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<tr>
<td>BIM schedule</td>
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<tr>
<td>Too Many Clashes</td>
<td>When combining models we might experience 1,000’s of instances where two or more objects are trying to occupy the same space. Resolving too many clashes will result in increased time and effort to resolve.</td>
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<td>Cost Estimates</td>
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<td>Too Much BIM</td>
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<td>Too Little BIM</td>
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<td>BIM Too Soon</td>
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<td>BIM Too Late</td>
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Compile BID (tender) Responses

Key:
- appoint individuals to undertake the information management function
- establish the project’s information requirements
- establish the project’s information delivery milestones
- establish the project’s information standard
- establish the project’s information production methods and procedures
- establish the project’s reference information and shared resources
- establish the project’s common data environment
- establish the project’s information protocol
- establish the appointing party’s exchange information requirements
- assemble reference information and shared resources
- establish tender response requirements and evaluation criteria
- compile invitation to tender information
- nominate individuals to undertake the information management function
- establish the delivery team’s (pre-appointment) BIM execution plan
- assess task team capability and capacity
- establish the delivery team’s capability and capacity
- establish the proposed delivery team’s mobilization plan
- establish the delivery team’s risk register
- compile the delivery team’s tender response

BUT DON’T WORRY!
There is an ISO 19650 Templates Team!

Over 223 review teams from over 47 countries!

<table>
<thead>
<tr>
<th>Country</th>
<th>Team Name</th>
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</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>SmartLeanBIM® ISO 19650 Reviewers</td>
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<tr>
<td>Colombia</td>
<td>SmartLeanBIM® ISO 19650 Reviewers</td>
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<tr>
<td>Costa Rica</td>
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<td>Czech Republic</td>
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<td>Denmark</td>
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</table>

- 100% Volunteer Group
- 223 Teams
- 47 Countries represented

Join the review team?: plannerly.com/reviewer


clive@plannerly.com
OpenBIM approach to ISO 19650 workflow

Two Resources: Explainer Videos plannerly.com/what-is-iso-19650 Join Templates Team plannerly.com/reviewer

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Please read about them in the conference schedule!
ISO 19650
In Five Minutes