

## Annex 1 "Project special requirements template"

Control points	Conceptual BIM	Interim BIM	Detailed BIM	Approved BIM	Construction (BIM updating, BIM supplementing) <sup>3</sup>	As-built model (as-built model) <sup>3</sup>	Asset information model <sup>3</sup>
<b>Deadline<sup>1</sup></b>					Continually	Until commissioning the facility	Until handing over the works and/or the facility to the customer
<b>Deliverables: 3D BIM models</b>							
<i>3D BIM models/Level of Development:</i>							
Architectural solutions (Interior, Equipment location, Building acoustics)*							
General plan, landscape							
Building structures							
HVAC (heating, ventilation, climate control)*							
Internal water supply and sewerage*, external water supply and sewerage, rainwater drainage networks							
Internal power supply, external power supply							
Electronic communication systems (Access control, Security alarm, Electronic communication networks, Control and automation systems, Video surveillance)*, External electronic communication systems							
Thermal mechanics							
Fire detection and emergency alarm systems							
Federated model							
Others...							
...							
<b>Other BIM deliverables</b>							
Photogrammetry							
Laser scanning							
4D: simulation of the construction process							
4D: logistics, waste management, intensity							
4D: updating and status management							
4D: constructability analysis							
Environmental accessibility analysis							
Acoustic analysis							
Analysis of flow of people and escape route options							
Fire simulation							
Lighting simulation							
Security analysis							
Location analysis							
Analysis of exposure to sunlight							
Construction site risk analysis							
Energy efficiency analysis							
Sustainability analysis							
5D							
Visualisations							
Virtual reality							
Augmented reality							
Cost management							
Sample models for facility management							
...							

<sup>1</sup> Design phase is defined in months from the moment of signing the contract, for each project individually

<sup>2</sup> Design parts in parentheses may be divided into separate models

<sup>3</sup> Updating and supplementing information under author supervision

		<b>Level of information requirements for the design:</b>		
BIM delivery type	design-build / design-bid-build / design	Data groups	Yes/No	
		MAS	Yes	
CDE provision type	Split-cycle CDE / Full-cycle CDE	Architectural solutions, Windows and doors	Yes <sup>4</sup>	
		Architectural solutions, Finishing	Yes <sup>4</sup>	
		Architectural solutions, space ID	Yes	
		Architectural solutions, construction elements	Yes <sup>4</sup>	
Person in charge for the provision of CDE (in the case of full-cycle CDE)	Customer / Supplier / N/A	Building structures	Yes <sup>4</sup>	
		internal power supply, VS, Electronic communication systems, Cable ladders	Yes	
		Mechanical, electrical and plumbing	Yes	
Person in charge for the provision of laser scanning	Customer / Supplier / N/A	Asset information	Yes	
		<b>Technical parameters (if laser scanning is provided by the Customer)</b>		
		Laser scanner parameters	Ranging error <sup>1</sup>	
			3D point accuracy	
Point cloud parameters	Registration deviations			
	Point cloud density			

<sup>4</sup> For elements to be reconstructed and restored, a smaller amount of information is possible, subject to prior agreement with the customer.