

UCL EIR Appendix 3, BIM Key Performance Indicators					
8 KPI Themes	Ref.	UCL Project BIM Execution Plan Content consideration to enable maturity measure	Mapping Ref	Framework Level?	UCL BIM Maturity Tests
1 BIM Procurement / Employer Engagement	1.1	Confirm that the UCL Employers Information Requirements (EIR) template has been made bespoke to the project and the requirements are understood by the bidder.	1A	No	UCL Employers Information Requirements (EIR) template has been made bespoke to the project. UCL Employers Information Requirements (EIR) template has been made bespoke to the project and understood
1 BIM Procurement / Employer Engagement	1.2	Set out any specifically identified Government Soft Landings (GSL) requirements for the project and the bidders proposal to implement UCL GSL	1D	No	The EIR includes any/all project specific Government Soft Landings (GSL) requirements.
1 BIM Procurement / Employer Engagement	1.3	Confirm your understanding and proposal regarding legacy site / building information and the strategy towards validating existing information and supplementing through measured survey (pointcloud etc) if required.	1E	No	Where specific surveys are required, the purpose, format and extent of the surveys has been made clear in the EIR (for example point cloud surveys).
2 BIM Delivery	2.1	State how you intend to streamline design activities for this project in your delivery plan	2A	No	Evidence of cohesive and streamlined activities
2 BIM Delivery	2.2	Set out your major construction milestones and the relationship with IDP and model creation	2A	No	Evidence of relationship between PIM / Data-Set sequence and Construction Delivery (i.e. workpackage led)
2 BIM Delivery	2.3	Describe how the BIM process may be broken down into smaller constituent EIR / BEP parts and any perceived savings through reduced volume of RFI for this project	2A	Yes	The supplier has delivered BIM processes, via the constituent parts, as described in their tender response.
2 BIM Delivery	2.4	State your approach to standard design elements and any improvements to build / assembly output quality as a result	2A	No	Evidence of standard design elements and improvements to build / assembly output quality as a result
2 BIM Delivery	2.5	Describe your design for offsite manufacture and proposals for innovation in quality, design and assembly	2A	Yes	Evidence of design for offsite manufacture and proposals for innovation in quality, design and assembly as a direct result of PIM usage
2 BIM Delivery	2.6	Set out your supplier management strategy, including capability assessments and levels of BIM adoption	2A	Yes	Evidence of a clear supplier management strategy, including capability assessments and levels of BIM adoption
2 BIM Delivery	2.7	Describe your proposed utilisation of standard Object Library components, assemblies and naming convention	2C	No	BIM Object Library referencing system to components and assemblies has been used, as described in the tender response.
2 BIM Delivery	2.8	Confirm that the native models, processed models and COBie outputs will be in accordance with the EIR (IDP)	2A	No	Confirmation required
2 BIM Delivery	2.9	Describe how design management coordination and optimisation will be achieved (and any enhanced accuracies with off-site / on-site Construction sequencing)	2D	Yes	Design management coordination and optimisation has been carried out as described in the tender response.
2 BIM Delivery	2.10	Identify how you intend to effectively implement and manage the PIM during the construction, commissioning and FM operational phases using alignment management tools (i.e. 4D time) and the extent of Schedule/Register automation	2E	Yes	Commissioning has been, or is, planned to be supplied as described in the tender response.

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2 BIM Delivery	2.11	Describe your proposal for utilising PIM data for Health & Safety responsibilities under CDM 2007	2F	Yes	O&M information has been, or is, planned to be supplied as described in the tender response.
2 BIM Delivery	2.12	Confirm your approach to comply with PAS1192Pt5 with regard to physical and system based data security including business continuity planning e.g. PIM data loss / rework for this project	NEW	Yes	Emergency preparedness – data loss etc
2 BIM Delivery	2.13	Describe your outline BIM Execution Plan, appropriate to the level of complexity, graphical modelling, data exchanges and risk for this project?	2I	No	The Post BIM Execution Plan (BEP) is comprehensive, providing sufficient information about how what the client requires is to be delivered and it includes confirmation of format(s).
2 BIM Delivery	2.14	Demonstrate how you intend to practically manage a PIM model(s) / data set of this size and scale	2I	Yes	Sensible method statement offered for size and complexity of project
2 BIM Delivery	2.15	State your risk and issue management plan for identifying, managing and mitigating the potential risks or issues associated with using a PIM Data-Set for this size of project.	2I	Yes	Does the Bidder's proposal set out a clear and robust plan for identifying, managing and mitigating the risks associated with using a BIM model for a project of this scale as required by the question?
3 Data, Verification and Validation	3.1	Describe your proposal for quality assurance and liaison with the Client / end users when incorporating PIM data into an Asset Information Model (for FM Operations, and other UCL Asset Management purposes)	3B	Yes	Data is being provided in COBie to BS 1192-4.
3 Data, Verification and Validation	3.2	State your proposed workflow and systems for verifying generated and received project data against the IDP	3C	Yes	Information received has been verified as being complete.
3 Data, Verification and Validation	3.3	State your proposed workflow and systems for validating generated and received project data	3D	Yes	Information received has been validated as being accurate.
3 Data, Verification and Validation	3.4	Describe how you intend to feed back Information verification issues back to the supplier (files and data in place)	3E	Yes	Information verification issues have been reported back to the supplier (if none answer is yes).
3 Data, Verification and Validation	3.5	Describe how you intend to feed back Information validation issues back to the supplier (suitability of data content)	3F	Yes	Information validation issues have been reported back to the supplier (if none answer is yes).
4 Collaborative working	4.1	Describe how you intend to manage information flows and collaboration between all appointed parties using a Common Data Environment (CDE) to PAS1192-2 throughout the project and after practical completion.	4A	Yes	Supplier team are collaborating using a Common Data Environment (CDE) to PAS1192-2.
4 Collaborative working	4.2	State your iterative clash detection and mitigation processes and how you intend to ensure compliance, accuracy, reliability for graphical and non-graphical project data	4C	Yes	Iterative clash detection and mitigation processes are clearly set out and are being adhered to.
4 Collaborative working	4.3	Set out how you intend to record and demonstrate to UCL potential financial savings to the project by identifying risks and mitigations with BIM tools and processes (such as clash detection).	4D	Yes	It can be proven that risks are being identified have been mitigated and potential savings are being made by the use of clash detection processes.
4 Collaborative working	4.4	Confirm the parties and named persons who will be responsible for modelling and management the production activities, and authorising content	New	No	Clear roles and responsibilities have been articulated within the BEP

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5 Visualisation / Stakeholder Engagement	5.1	State your proposed frequency and methods for design / UCL client team reviews using federated model/data.	5A	Yes	Regular integrated team reviews, including the client team, have taken place, using federated model/data.
5 Visualisation / Stakeholder Engagement	5.2	Set out how you intend to capture and record all pertinent GSL activities throughout the project and share at the required data exchange points.	5C	Yes	The federated model/data is being used as part of GSL processes.
6 Discipline based model authoring	6.1	Describe how you plan to share team cost avoidance measures through clash detection reporting	6C	Yes	Clash mitigation, where relevant, has resulted in the production of revised discipline models.
6 Discipline based model authoring	6.2	How will access be made available to the UCL to PIM generated drawings and documents?	6E	Yes	Drawings and documents are accessible via the model.
7 Construction	7.1	What is your intention regarding visual scheduling and workpackage sequencing from the PIM data-set?	7B	Yes	Visual scheduling / sequencing has been carried out.
7 Construction	7.2	To what extent will the Operations and Maintenance Manual be PIM Data-Set based?	7D	Yes	Model based O&M Manual.
7 Construction	7.3	Provide an example of a recently delivered (last 3 years) PIM to AIM project, where you have exchanged Model and COB-UK-2012 data to RIBA Stage 6. (UCL are asking for a demonstration pack including: EIR, BEP, Native Model, COBie-UK-2012, 2D plans, elevations. The example can be from other suitable public or private sector commissions to demonstrate BIM workflow competence and experience)	ALL	Yes	Offers an opportunity to demonstrate with a practical handover, competence and experience to back up previous tender responses
8 Model based estimating and change management	8.1	Set out how you intend to use the PIM Data-Set for quantity take-off activities	8A	Yes	Model used for quantity take off.
8 Model based estimating and change management	8.2	How will you use the PIM data-set for cost estimating activities	8C	Yes	Model used for cost estimating.
8 Model based estimating and change management	8.3	Describe how you will use the PIM data-set for value engineering and alternative design option planning activities and highlighting the highest impact elements / areas to target?	8D	Yes	Change management / value engineering, including proposed design enhancements and what-if scenario cost impacts, assessed using modelling.
8 Model based estimating and change management	8.4	How do you intend to capture and present the added value of cost avoidance through reduced rework?	8C	Yes	The extent to which a common sense approach is taken to offering UCL visibility on BIM benefits for project team and organisation using change management data