
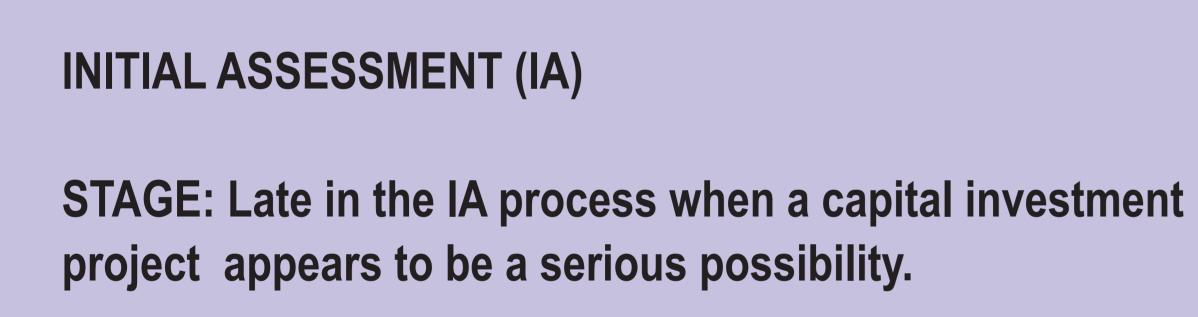
## NHS Scotland, Building Information Modelling (BIM) Strategy – Asset Lifecycle Process Map



## KEY DESIGN INFORMATION EXCHANGE DELIVERABLES



KEY DESIGN INFORMATION EXCHANGE

Methodology: Desktop assessment based on submitted information, supplemented by conversations with project team to clarify any matters.

## Submission requirements

- Completed NDAP submission proforma identifying key contacts and dates.
- Design Statement in line with the enclosed guidance, and a note of the persons (name and role) involved in the development of the statement – i.e. those stakeholders represented in the development of both the agreed non-negotiables and the benchmarks.
- Commitment to BREEAM Healthcare Initial list of relevant design guidance to be followed – SHPNs,
- SHTMs, SHFNs, HBNs, HTMs, HFNs, Activity Data Base (see section 1.1). Initial NHS Scotland AEDET or equivalent healthcare Design
- Quality Indicator (DQI) to assess /benchmark the existing facilities, where current clinical service is being delivered.
- Information to be provided in an agreed electronic format e.g. Word / PDF



KEY DESIGN INFORMATION EXCHANGE

**OUTLINE BUSINESS CASE (OBC)** 

STAGE: Early in the OBC process an informal consultation on site selection and strategic briefing considering:

Site Feasibility Studies or Masterplan

- (≤1:1000). Where a project is one of a series, or a major development, being considered for a site, a masterplan is required to demonstrate the potential interaction on other services.
- Analysis of site option(s) (≤1:500). in terms of potential for achieving the project's non-negotiables criteria and benchmarks established in the design statement and the inherent design risks (i.e. where the site presents difficulties in achieving the benchmarked standards).
- List of relevant design guidance to be followed SHPNs, SHTMs, SHFNs, HBNs, HTMs, HFNs, (see section 1.1). Including a schedule of any key derogations.
- Evidence that Activity Data Base (ADB) will be fully utilised during the preparation of the brief and throughout the design
- and commissioning process.
- Information to be provided in an electronic format:

electronic format

Geometric models: proprietary 3D BIMs with 2D PDFs cut from

the models to the above noted levels of definition / scales. Non-graphical information to be provided in an agreed

Drop 2

KEY DESIGN INFORMATION EXCHANGE

**OUTLINE BUSINESS CASE (OBC)** 

STAGE: Late in the development of the OBC, when the design is becoming formed but is still open to influence – consultation and response to use in Business Case Stage.

**Methodology:** One of the following – as advised in the response to IA submission.

• Desktop assessment based on submitted information, supplemented by conversations with project team to clarify any matters. • Panel assessment, based on submitted information and supplemented by presentation by, and discussion with, project team • including designers.

**Submission requirements** For all projects

 Completed submission proforma identifying key contacts and dates. Design Statement, with any updates in benchmarks highlighted.

• Evidence of completion of self assessment on design in line with the procedures set out in the design statement. Completed AEDET review at current stage of design development.

• Evidence of consultation with Local Authority Planning Department on their approach to site development and alignment with Local Development Plan. • Extract from draft OBC detailing benefits and risks analysis (appendix 3 in SCIM).

 Photographs of site showing broader context. BREEAM Healthcare pre-assessment.

• Evidence that relevant DDA, Dementia, Health Promotion and Equality requirements has been incorporated.

• Evidence that Activity Data Base (ADB) is being fully utilised during the preparation of the brief and throughout the design and commissioning process •

• Updated list of relevant design guidance to be followed (see section 1.1) Including a schedule of derogations in relation to these. For capital investment schemes and projects likely to go through Frameworks, HUB or traditional procurement, the following information

 Developed brief. • Outline design study showing proposals considered and favoured development option (RIBA Stage 2: Concept design, plus key elements at Stage 3: Developed design; e.g. ≤1:200, plus key spaces ≤1:50 ).. Plans should be rendered to distinguish between

main use types (circulation, consult, etc) so that orientation and aspect of areas can be considered. • Outline Design study should be coordinated and include relevant multi-discipline input, including but not limited to: Architecture, Building Services, Structural, Fire, Landscape design concepts; including diagrams and sketches demonstrating the key proposals to assess alignment with brief.

• BREEAM Healthcare assessment (including relevant energy model information e.g. BRUKL) • 3D models of design intent for key spaces identified in Design Statement.

For NPD schemes, the following information • Developed Conventionally Procured Asset Model in line with guidance.

Information to be provided in an electronic format:

Geometric models: proprietary 3D BIMs with 2D PDFs cut from the models to the above noted levels of definition / scales. Federated model in an agreed format e.g. Industry Foundation Class

Non-graphical information to be provided in an agreed electronic format e.g. COBie as per PAS1192-4



**FULL BUSINESS CASE (FBC)** 

KEY DESIGN INFORMATION EXCHANGE

STAGE: Late in the development of the FBC, when the design is becoming formed but is still open to influence.

Methodology: One of the following – as advised in the NHSScotland Design Assessment Process's response to the OBC submission: • Desktop assessment based on submitted information, supplemented by conversations with project team to clarify any matters. • Panel assessment, based on submitted information and supplemented by presentation by, and discussion with, project team including designers.

Submission requirements For all projects

 Completed submission pro-forma identifying key contacts and dates. Design Statement, with any updates in benchmarks highlighted.

• Evidence of completion of self assessment on design in line with the procedures set out in your design statement. • Extract from draft FBC detailing benefits and risks analysis (appendix 3 in SCIM).

 Completed AEDET review at current stage of design development. • 3D models of design proposals for key spaces identified in Design Statement.

• Updated list of relevant design guidance to be followed (see section 1.1) and schedule of any derogations in relation to these. BREEAM Healthcare assessment (including relevant energy model information e.g. BRUKL) • Evidence that relevant DDA, Dementia, Health Promotion and Equality requirements has been incorporated.

• Evidence that Activity Data Base (ADB) is being fully utilised during the preparation of the brief and throughout the design and commissioning process

For capital investment schemes and projects likely to go through all procurement, the following information is required to allow the panel to establish that the developed proposals are living up to the promise of the outline proposals at OBC stage and that the technical matters are being addressed.

• Final Design study showing developed proposals (RIBA Stage Stage 3: Developed design, plus key elements at Stage 4: Technical design; e.g. ≤1:200, majority of spaces ≤1:50, plus key elements ≤1:20 ).. Key drawings, (construction details/specs need not be submitted) including

 Site layout showing wider context and landscape proposals Plans rendered to distinguish between use types (circulation, consult) Elevations/ Sections showing design in context

 Building Services Report and Layouts Structural/ Civil Report and Layouts

 Landscape Report and Layouts Specialist Report and Layouts

• 3D visualisations of the building in context – including key approaches perspectives from a human eye height Confirmation of Planning Permission and Building Regulation compliance.

For NPD schemes, the above information, should be partially submitted prior to preferred bidder status to allow an NDAP pre-assessment. This may be used by client and bidders to assist in their selection process of the preferred bidder. Following selection, a FBC assessment will be carried out on the preferred bidder's Final Design Study. However it is anticipated, this could simply be a confirmation or minor adjustment of the pre-assessment report.

Information to be provided in an electronic format: Geometric models: proprietary 3D BIMs with 2D PDFs cut from the models to the above noted levels of definition / scales. Federated

model in an agreed format e.g. Industry Foundation Class Non-graphical information to be provided in an agreed electronic format e.g. COBie as per PAS1192-4

KEY DESIGN INFORMATION EXCHANGE HANDOVER AND CLOSE OUT

Information as set out in the Employers Information Requirements (EIR)

STAGE: Prior to operation

**Foundation Class** 

Geometrical models, federated models and linked data e.g. operation and maintenance manuals plus relevant record survey (e.g. point clouds) all with agreed classification.

Geometric models: proprietary 3D BIMs with 2D PDFs cut from the models plus federated model in an agreed format e.g. Industry

Drop 5

Non-graphical data – cleansed and mapped to AMS / CAFM systems Information to be provided in an electronic format:

Non-graphical information to be provided in an agreed electronic format e.g. COBie as per PAS1192-4 Associated record information eg. point cloud surveys.