

**BIM Support Scope**

**Intro**

The Smart Motorways Programme Alliance (SMP Alliance) is built up of seven partners and multiple Supply Partners (supply chain) delivering to ISO 19650 Building Information Management standards.

We are looking for a consultant to assist the SMP Alliance with 3 key tasks:

1. Supporting us to review / finalise BIM Processes currently developed
2. Supporting us with any gaps and creating documentation of processes
3. Implement a platform where training can be undertaken and support provided for the adoption of the Alliance BIM ways of working.

**Background**

The SMP Alliance consists of Highways England and 7 partners including:

* Fluor (production management) #SMPAcareers
* Jacobs and WSP (digital enabled design) and
* Balfour Beatty, Costain and BAM Nuttall/Morgan Sindall joint venture (onsite Assembly Partners)

Our goal is to unite diverse teams, unleash fresh thinking and transform delivery. Collectively, we will design and construct the smart motorways programme over a 10-year period covering the Government’s Road Investment Strategy 2 and 3.

The SMP Alliance is transforming the way we deliver schemes by applying a programmatic approach, utilising digital rehearsals and embedding methods of construction such as off-site manufacture. There will be a greater emphasis on digital technology, increased efficiency, and standardisation. By driving value throughout the project lifecycle and promoting a better way of working by integrating a diverse supplier network to form a wider enterprise we will improve safety, create a better customer experience and deliver greater efficiency.

National Highways are on a BIM Journey with the implementation of ISO 19650 Standards across the whole of their schemes on the SMP Alliance. We are trying to achieve full embedment across our Production Hub, schemes and Supply Partners to deliver our schemes more effectively and efficiently. By having Alliance level Production methods and procedures this will enable us to standardise on our ways of working, standardise on training provided and have minimum standard systems implemented for staff to be trained and use.

**Scope**

1. Review and Finalise BIM Processes

The selected partner will take existing draft Alliance processes, review and finalise for the inclusion into our Alliance Integrated Management System AIMS (Alliance Integrated Management System). Process overview, swim lanes, inputs/ outputs, process activities and templates will need to be pulled together and if there are gaps then create be approved for the Alliance to use. There will be a need for workshops for information gathering and obtain input. Some documentation may have existing comments and our partner will need to address and update documentation where required. Processes will need to go through Alliance review process and the partner will be consultant to address all comments actions during the approval process. The consultant will additionally need to:

* ensure consistency throughout and use suitable Alliance templates.
* ensure Alliance terminology is used. Supplier needs to assure processes for compliance with ISO 19650.
* produce Appointed Party information including process methods and procedures that Alliance Supply Partners to work to
* produce Alliance formatted documents

Deliverables in MS Office format, together with pdf renditions.

Inputs:

* National Highways Contract Requirements
* existing Alliance draft BIM processes
* ISO 19650 Suite of Standards
* Alliance AIMS approval process
* Alliance AIMS templates
* Existing Alliance BIM templates

1. Digitising BIM Processes

Development of interactive process maps containing the BIM processes on our Alliance Integrated Management system (AIMS). This system is a hub to link all existing Alliance BIM relevant content in an easy navigation forum for users. Mobilisation Documentation should also be created containing a series of check-sheets that users can use to monitor progress and check off tasks completed, with the data available for reporting/ audit. We look to explore the exact nature of this platform with the consultant, however the platform should contain:

* the agreed BIM processes
* an overview of the BIM processes with clickable links to drill down into the processes I.e. Visio diagrams
* links to relevant further processes (see inputs below)
* links to existing Alliance tools (see inputs below)
* links to relevant training (see training deliverable below)
* progress check-sheets
* further information/ areas for development as proposed by the Consultant

Below is a non-exhaustive list of processes and Software applications which we have using on the Alliance as of today that could be linked from the system, provided for example:

* Agreed BIM Processes
* MDRM
* Level of Information Need
* Capability assessments
* ProjectWise
* Business Collaborator
* Business Information Framework
* IDP Tool
* Spatial Portal
* BIM contract requirements
* reporting requirements
* audit information

The deliverables will need to sit and function on AIMS. AIMS is hosted on Business Collaborator and will allow hyperlinks in pdfs to function. The consultant will need to work with the document management team to create interactive process maps. Deliverables to be in MS Office format, together with pdf renditions

1. Providing training and support to be rolled out across the Alliance

Development of a BIM training package that provides:

* Appreciation Training - ISO 19650 Appreciation Training via a platform and training certificates and recognition provided on completion
* Knowledge Training - Smart Motorways Alliance Training created for the Production methods and procedures which are hosted on our Alliance Information Management System (AIMS) This is to give awareness and use of Alliance specific implementation of BIM and available tools/ processes/ etc
* Skills Training – This will be provided by the Alliance subject matter experts for systems which we have implemented, and content is required to be linked to our training platform via links etc
* A way of tracking who has undertaken the training (this will likely be provided by the training system).

Ideally the Appreciation training and Knowledge training will be aligned and use as much existing industry BIM training as possible with Alliance customisation.

The package should include a range of different learning styles. Different pathways must be developed for different Alliance BIM roles (such as Alliance Hub, Scheme, Subcontractor). The package must be deployable on the Alliance's Learning Management System.

**Programme & Budget**

We have the following constraints:

* Review and Finalisation of the BIM Process is required by end of March 2023.
* A budget of £80,000: £50k available prior in 2022/23, £20k available 2023/24.

**Proposals**

We seek proposals from consultants on:

* Work that can be done within the constraints
* Proposed programme
* Proposal for interactive process map
* Proposal for training package
* Prices