

Table 2: Comparison of MML's scope of services with RIBA Plan of Work, UK government's (NBS) Digital Plan of Work (dPoW)*, and BS EN ISO 19650-2: 2018.

*Source: based on RIBA Plan of Work 2013 Guide: Information Exchanges [<https://www.taylorfrancis.com/books/mono/10.4324/9780429347085/information-exchanges-richard-fairhead>] by Richard Fairhead

	PRE-DESIGN		DESIGN			CONSTRUCTION	HANDOVER	IN-USE
RIBA PoW 2013	Stage 0: Strategic Definition	Stage 1: Preparation and Brief	Stage 2: Concept Design	Stage 3: Developed Design	Stage 4: Technical Design	Stage 5: Construction	Stage 6: Handover and Close-Out	Stage 7: In Use
	Identify client's Business Case and Strategic Brief and other core project requirements	Initial Project Brief, which includes high-level information and key project decisions	Final Project Brief; Concept Design, which includes outline building services design; Project Strategies; Cost Information	Coordinated architectural, structural, and building services design; updated Cost Information	Completed Technical Design, comprising documents developed to communicate and describe the construction requirements	As-constructed Information includes model data, drawings, documents, and schedules issued for construction, and updated to reflect the as-constructed building from the point of view of all construction disciplines, giving an accurate representation of the facility and its operational systems	Updated as-constructed Information	As-constructed Information updated in response to ongoing client feedback and maintenance or operational developments
			Tendering can occur at any time from stage 2 to stage 4 depending on the procurement route					
RIBA PoW 2020	Stage 0: Strategic Definition	Stage 1: Preparation and Briefing	Stage 2: Concept Design	Stage 3: Spatial Coordination	Stage 4: Technical Design	Stage 5: Manufacturing and Construction	Stage 6: Handover	Stage 7: Use
	Client Requirements Business Case	Project Brief Feasibility Studies Site Information Project Budget Project Programme Procurement Strategy Responsibility Matrix Information Requirements	Project Brief Derogations Signed-off Stage Report Project Strategies Outline Specification Cost Plan	Signed-off Stage Report Project Strategies Updated Online Specification Updated Cost Plan Planning Application	Manufacturing Information Construction Information Final Specifications Residual Project Strategies Building Regulations Application	Building Manual including Health and Safety File and Fire Safety Information Practical Completion certificate including Defects List Asset Information	Feedback on Project Performance Final Certificate Feedback from light-touch Post-Occupancy Evaluation	Feedback from Post-Occupancy Evaluation Updated Building Manual including Health and Safety File and Fire Safety Information as necessary
			Tendering can occur at any time from stage 2 to stage 4 depending on the procurement route					
AIA (USA)	NOT USED	NOT USED	Schematic Design	Design Development	Construction Documents	Construction	NOT USED	NOT USED

	1: Assessment and need	2: Invitation to tender	3: Tender response	4: Appointment	5: Mobilisation	6: Collaborative production of information	7: Information model delivery	8: Project close-out	
BS EN ISO 19650-2: 2018	<p>Appoint individuals to undertake the information management function</p> <p>Establish the project's information requirements</p> <p>Establish the project's information delivery milestones</p> <p>Establish the project's information standard</p> <p>Establish the project's information production methods and procedures</p> <p>Establish the project's reference information and shared resources</p> <p>Establish the project's CDE</p> <p>Establish the project's information protocol</p>	<p>Establish the appointing party's exchange information requirements</p> <p>Assemble reference information and shared resources</p> <p>Establish tender response requirements and evaluation criteria</p> <p>Compile information on the invitation to tender</p>	<p>Nominate individuals to undertake the information management function</p> <p>Establish the delivery team's (pre-appointment) BIM execution plan</p> <p>Assess task team capability and capacity</p> <p>Establish the delivery team's capability and capacity</p> <p>Establish the proposed delivery team's mobilisation plan</p> <p>Establish the delivery team's risk register</p> <p>Compile the delivery team's tender response</p>	<p>Confirm the delivery team's BIM execution plan</p> <p>Establish the delivery team's detailed responsibility matrix</p> <p>Establish the lead appointed party's exchange information requirements</p> <p>Establish the task information delivery plan(s) (TIDPs)</p> <p>Establish the master information delivery plan (MIDP)</p> <p>Complete appointment documents for the lead appointed party</p> <p>Complete appointment documents for the appointed party</p>	<p>Mobilise resources</p> <p>Mobilise information technology</p> <p>Test the project's information production methods and procedures</p>	<p>Check availability of reference information and shared resources</p> <p>Generate information quality assurance check</p> <p>Review information and approve for sharing</p> <p>Information model review</p>	<p>Submit information model for authorisation by lead appointed party</p> <p>Review and authorise the information model</p> <p>Submit information model for appointing party acceptance</p> <p>Review and accept the information model</p>	<p>Archive the project information model</p> <p>Compile lessons learned for future projects</p>	
dPoW*		Data drop 1 Represents the first required exchange of developed information in the dPoW process and comprises modelled response to the plain language questions (PLQs). BSI defines PLQs as those the employer asks the supply chain inform decision-making at key stages of an asset life cycle or project	Data drop 2 Specifies level of definition required to tender the design, i.e., level 2 federated model information	Data drop 3 Assumes that the design developed in stage 2 will typically be developed by a contractor as part of a tender process prior to the stage 2 data drop. Information at this stage is to support the agreed maximum price			Data drop 4 Maintenance and operational information required to use the finished facility properly		
MML's scope			Preliminary design	Detailed design; Design coordination	Preparation and implementation of BIM and procurement support	Principal designer responsibilities	Development of the Defence-Related Environmental Assessment Methodology (DREAM)		