

SONEUK



Interaction with SCAEF

29th Dec 2017

SCAEF office, Kathmandu

SONEUK overview

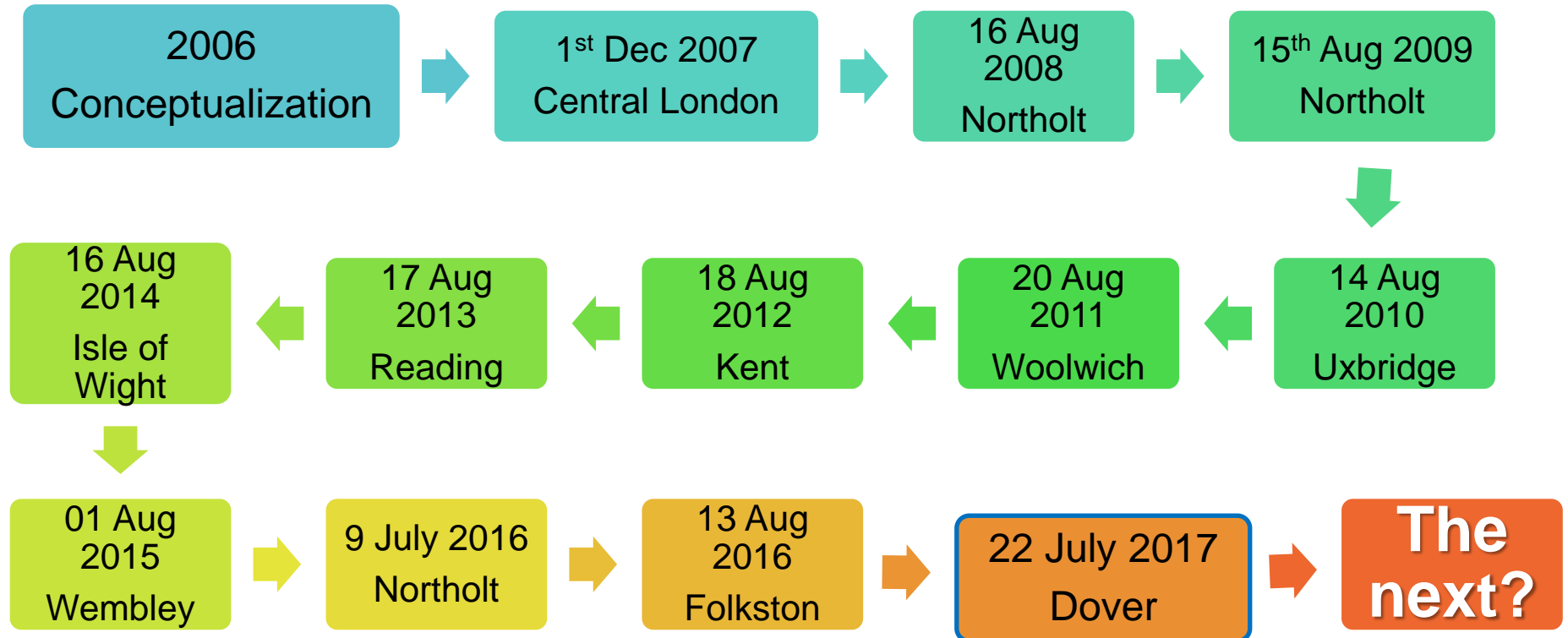
by

Ghanashyam Paudyal, BE (Civil) MSc (Eng), CEng MICE, MIEAust CEng

President

Society Of Nepalese Engineers in UK

Recalling the Past: Annual Gatherings



Society Of Nepalese Engineers in UK

SONEUK – Current Organisation



Society Of Nepalese Engineers in UK

SONEUK – Advisory Board



- Mr. Ganesh Thapa, CEng MICE, Principal Civil Engineer, TS Partnership
- Dr. Hom Nath Dhakal, CEng, FHEA, FIET, MASC, Reader, University of Portsmouth
- Dr. Keshab Bhattarai, CEng MIEI, MCIWEM C. WEM, Principal Hydrologist, Jacobs UK
- Dr. Keshab Dahal, FHEA, MSMIEE, Professor, University of the West of Scotland
- Mr. Krishna Kishor Shrestha, CEng MCHIT, Sr. Road Renewal Engineer, CH2M Hill Ltd
- Mr. Nabaraj Adkhikari, CEng MICE, Sr. Highway Engineer, Jacobs
- Mr. Rajesh Pathak, CEng MICE, Project Manager, Bechtel Corporation
- Mr. Raj Kumar Tripathi, Senior Engineer, BAM

Society Of Nepalese Engineers in UK

Project Practice in the UK

RIBA plan of work



The RIBA Plan of Work 2013 organises the process of briefing, designing, constructing, maintaining, operating and using building projects into a number of key stages. The content of stages may vary or overlap to suit specific project requirements. The RIBA Plan of Work 2013 should be used solely as guidance for the preparation of detailed professional services contracts and building contracts.

www.ribaplanofwork.com

Stages	0	1	2	3	4	5	6	7
Tasks	Strategic Definition	Preparation and Brief	Concept Design	Developed Design	Technical Design	Construction	Handover and Close Out	In Use
Core Objectives	Identify client's Business Case and Strategic Brief and other core project requirements.	Develop Project Objectives, including Quality Objectives and Project Outcomes, Sustainability Aspirations, Project Budget, other parameters or constraints and develop Initial Project Brief. Undertake Feasibility Studies and review of Site Information.	Prepare Concept Design, including outlining proposals for structural design, building services systems, outline specifications and preliminary Cost Information along with relevant Project Strategies in accordance with Design Programme. Agree alterations to brief and issue Final Project Brief.	Prepare Developed Design, including coordinated and updated proposals for structural design, building services systems, outline specifications, Cost Information and Project Strategies in accordance with Design Programme.	Prepare Technical Design in accordance with Design Responsibility Matrix and Project Strategies to include architectural, structural and building services information, specialist subcontractor design and specifications, in accordance with Design Programme.	Offsite manufacturing and onsite Construction in accordance with Construction Programme and resolution of Design Queries from site as they arise.	Handover of building and conclusion of Building Contract.	Undertake In Use services in accordance with Schedule of Services.
Procurement *Variable task bar	Initial considerations for assembling the project team.	Prepare Project Roles Table and Contractual Tree and continue assembling the project team.	The procurement strategy does not fundamentally alter the progression of the design or the level of detail prepared at a given stage. However, Information Exchanges will vary depending on the selected procurement route and Building Contract. A bespoke RIBA Plan of Work 2013 will set out the specific tendering and procurement activities that will occur at each stage in relation to the chosen procurement route.			Administration of Building Contract, including regular site inspections and review of progress.	Conclude administration of Building Contract.	
Programme *Variable task bar	Establish Project Programme.	Review Project Programme.	Review Project Programme.	The procurement route may dictate the Project Programme and may result in certain stages overlapping or being undertaken concurrently. A bespoke RIBA Plan of Work 2013 will clarify the stage overlaps. The Project Programme will set out the specific stage dates and detailed programme durations.				
(Town) Planning *Variable task bar	Pre-application discussions.	Pre-application discussions.	Planning applications are typically made using the Stage 3 output. A bespoke RIBA Plan of Work 2013 will identify when the planning application is to be made.					
Suggested Key Support Tasks	Review Feedback from previous projects.	Prepare Handover Strategy and Risk Assessments. Agree Schedule of Services, Design Responsibility Matrix and Information Exchanges and prepare Project Execution Plan including Technology and Communication Strategies and consideration of Common Standards to be used.	Prepare Sustainability Strategy, Maintenance and Operational Strategy and review Handover Strategy and Risk Assessments. Undertake third party consultations as required and any Research and Development aspects. Review and update Project Execution Plan.	Review and update Sustainability, Maintenance and Operational and Handover Strategies and Risk Assessments. Undertake third party consultations as required and conclude Research and Development aspects. Review and update Project Execution Plan, including Change Control Procedures.	Review and update Sustainability, Maintenance and Operational and Handover Strategies and Risk Assessments. Prepare and submit Building Regulations submission and any other third party submissions requiring consent. Review and update Project Execution Plan.	Review and update Sustainability Strategy and implement Handover Strategy, including agreement of information required for commissioning, training, handover, asset management, future monitoring and maintenance and ongoing completion of 'As-constructed' Information. Update Construction and Health and Safety Strategies.	Carry out activities listed in Handover Strategy including Feedback for use during the future life of the building or on future projects. Updating of Project Information as required.	Conclude activities listed in Handover Strategy including Post-occupancy Evaluation, review of Project Performance, Project Outcomes and Research and Development aspects. Updating of Project Information, as required, in response to ongoing client Feedback until the end of the building's life.
Sustainability Checkpoints	Sustainability Checkpoint – 0	Sustainability Checkpoint – 1	Sustainability Checkpoint – 2	Sustainability Checkpoint – 3	Sustainability Checkpoint – 4	Sustainability Checkpoint – 5	Sustainability Checkpoint – 6	Sustainability Checkpoint – 7
Information Exchanges (at stage completion)	Strategic Brief.	Initial Project Brief.	Concept Design including outline structural and building services design, associated Project Strategies, preliminary Cost Information and Final Project Brief.	Developed Design, including the coordinated architectural, structural and building services design and updated Cost Information.	Completed Technical Design of the project.	'As-constructed' information.	Updated 'As-constructed' information.	'As-constructed' information updated in response to ongoing client Feedback and maintenance or operational developments.
UK Government Information Exchanges	Not required.	Required.	Required.	Required.	Not required.	Not required.	Required.	As required.

*Variable task bar - in creating a bespoke project or practice specific RIBA Plan of Work 2013 via www.ribaplanofwork.com a specific bar is selected from a number of options.

© RIBA

Society Of Nepalese Engineers in UK

Project Practice in the UK

FIDIC Forms of Contract



Project Practice in the UK

Specification Format

National Building Specifications



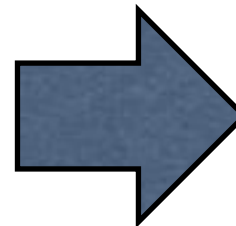
The screenshot shows the NBS Create software interface. The main window displays a project titled "Lakeside Restaurant - NBS Create". The interface includes a menu bar (File, Home, Insert, Review, Office Masters, Update, View, Manage) and a ribbon with various tool icons. The central workspace shows a hierarchical tree structure for "Internal floor tiling system" with sub-items like "Suitability of bases for tiling", "Cementitious adhesives", "Ceramic tiles", "Masonry plugs", "Metal section movement joints", "Product samples", and "Smoothing or levelling underlayment". A right-hand pane shows "NBS Guidance" for "Floor tiling systems" with a search bar and a list of sections including "Scope", "General guidance", "Selection of tiles", "Floor tiling generally", "Selection of bedding systems", "Health and safety", "Environmental", and "Contractual arrangements".

Society Of Nepalese Engineers in UK

Project Practice in the UK

Method of Measurement, BOQ Format

SMM7, CESMM4 to NRM3



nrm 3

RICS new rules
of measurement

Order of cost estimating and
cost planning for building
maintenance works

Society Of Nepalese Engineers in UK

International Practice for Larger Projects National Instrument 43-101



(national instrument for the *Standards of Disclosure for Mineral Projects, CANADA*)

General Mineral Project Development Stages	Defined Stages in NI 43-101	Resource & Reserve Categories		Other Information	Relevant Documents	
		Disclosure Permitted	Disclosure Prohibited		NI 43-101 & SEC Parts	Guidelines
Acquisition of Tenements		None	All	Historic estimates (if applicable)	2-4	
Exploration	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Early Exploration Property</div> ↓ <div style="border: 1px solid black; padding: 2px; display: inline-block;">Exploration Information</div>	None	All	Potential quantity & grade expressed as ranges	2.3(2), 3.1, 3.2, 3.3	CIM Exploration Best Practice
Concept / Scoping	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Preliminary Assessment</div>	Measured, Indicated & Inferred Resources	Mineral Reserves	Preliminary economic analysis of mineral resources	2.3(3), 3.1, 3.2, 3.4 CP 1.7	CIM Estimation of Mineral Resources & Mineral Reserves Best Practice
Pre Feasibility	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Preliminary Feasibility Study</div>			Underground mining method or pit configuration. Mineral processing method	2.3(1), 3.1, 3.2, 3.4	
Feasibility	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Feasibility Study</div>	Measured, Indicated & Inferred Resources Proven & Probable Reserves	Inferred Resources- in economic evaluations	Detailed mine plan, social, environmental & financial studies.		
Construction	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Development Property</div>			See Item 25 of Form 43-101F1		
Production	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Production Property</div>			See Item 25 of Form 43-101F1		
Closure						

Society Of Nepalese Engineers in USA

International Practice for Larger Projects



JORC Code

(Joint Ore Reserve Committee), Australia

Australasian Code for Reporting of
Exploration Results, Mineral Resources
and Ore Reserves



Society Of Nepalese Engineers in USA

Some Thoughts...



- Professional Development & Accreditation
 - PD facilitation and Requirement
- Bridging Expertise
 - Tunnel, High Rise Bridges, Mining, Oil and Gas
- Database of Nepalese Engineers Diaspora
 - Connections, Knowledge & Skill Transfer
- Joint Projects / Technical & Professional Works with SCAEF
 - Possibilities, MOU

Society Of Nepalese Engineers in USA

Thank you!

Ghanashyam Paudyal
gpaudyal@soneuk.org,
07889154722



Society Of Nepalese Engineers in UK