

INTRODUCTION

NETWORK BACKGROUND

In the development of the active travel network, Arup has undertaken regular engagement with local authorities and key stakeholders within the SEStran region throughout the period 2023-2023 as individual routes within the network progress. This ensures that any routes taken forward to feasibility or detailed design across the region have the support of the local authority officers.



Each of the routes are broadly following the RIBA design stages before reaching construction and usage:

0. Strategic Definition
1. Preparation and Briefing (feasibility study)
2. Concept Design
3. Spatial Coordination/ Developed Design
4. Technical Design
5. Manufacturing and Construction
6. Handover
7. In Use

We are currently at stages 1 and 2.



| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--|--|---|--|---|---|--|--|
| Strategic Definition | Preparation and Briefing | Concept Design | Spatial Coordination | Technical Design | Manufacturing and Construction | Handover | Use |
| Projects span from Stage 1 to Stage 6; the outcome of Stage 0 may be the decision to initiate a project and Stage 7 covers the ongoing use of the building. | | | | | | | |
| The best means of achieving the Client Requirements confirmed <small>If the outcome determines that a building is the best means of achieving the Client Requirements, the client proceeds to Stage 1</small> | Project Brief approved by the client and confirmed that it can be accommodated on the site | Architectural Concept approved by the client and aligned to the Project Brief <small>The brief remains "live" during Stage 2 and is derogated in response to the Architectural Concept</small> | Architectural and engineering information Spatially Coordinated | All design information required to manufacture and construct the project completed <small>Stage 4 will overlap with Stage 5 on most projects</small> | Manufacturing, construction and Commissioning completed <small>There is no design work in Stage 5 other than responding to Site Queries</small> | Building handed over, Aftercare initiated and Building Contract concluded | Building used, operated and maintained efficiently <small>Stage 7 starts concurrently with Stage 6 and lasts for the life of the building</small> |
| Prepare Client Requirements Develop Business Case for feasible options including review of Project Risks and Project Budget Ratify option that best delivers Client Requirements Review Feedback from previous projects Undertake Site Appraisals <small>No design team required for Stages 0 and 1. Client advisers may be appointed to the client team to provide strategic advice and design thinking before Stage 2 commences.</small> | Prepare Project Brief including Project Outcomes and Sustainability Outcomes , Quality Aspirations and Spatial Requirements Undertake Feasibility Studies Agree Project Budget Source Site Information including Site Surveys Prepare Project Programme Prepare Project Execution Plan | Prepare Architectural Concept incorporating Strategic Engineering requirements and aligned to Cost Plan , Project Strategies and Outline Specification Agree Project Brief Derogations Undertake Design Reviews with client and Project Stakeholders Prepare stage Design Programme | Undertake Design Studies , Engineering Analysis and Cost Exercises to test Architectural Concept resulting in Spatially Coordinated design aligned to updated Cost Plan , Project Strategies and Outline Specification Initiate Change Control Procedures Prepare stage Design Programme | Develop architectural and engineering technical design Prepare and coordinate design team Building Systems information Prepare and integrate specialist subcontractor Building Systems information Prepare stage Design Programme <small>Specialist subcontractor designs are prepared and reviewed during Stage 4</small> | Finalise Site Logistics Manufacture Building Systems and construct building Monitor progress against Construction Programme Inspect Construction Quality Resolve Site Queries as required Undertake Commissioning of building Prepare Building Manual <small>Building handover tasks bridge Stages 5 and 6 as set out in the Plan for Use Strategy</small> | Hand over building in line with Plan for Use Strategy Undertake review of Project Performance Undertake seasonal Commissioning Rectify defects Complete initial Aftercare tasks including light touch Post Occupancy Evaluation | Implement Facilities Management and Asset Management Undertake Post Occupancy Evaluation of building performance in use Verify Project Outcomes including Sustainability Outcomes <small>Adaptation of a building (at the end of its useful life) triggers a new Stage 0</small> |

SESTRAN STRATEGIC NETWORK

VIRTUAL ROOM | FIFE FEASIBILITY STUDIES

