Capability Statements

Route Migration Strategy Capability/Service

THE CHALLENGE

The complex nature of long term Route planning at the business, technical and supply chain levels is crucial in this era of rapid change, digitalisation and greater programmatic and technical real-time visibility. An improved means to establish a stakeholders-wide agreed set of controls, guidance and approaches in a complex environment is needed that can result is phased delivery with sufficient agile to achieve business case objectives and benefits.

Transport as a Service, Electrification with hybrid rolling stock, ETCS & Traffic Management and customer-centric digitalisation capabilities within major integrated infrastructure investments like HS1 & 2, CrossRail, Thameslink, East West Railway, East Coast Mainline require a Route Migration Strategy to ensure early coherence and agreement.

OUR SOLUTION

Our Migration Strategy Service provides a Route with the ability to deliver a coherent and consistent approach across Programmatic/Project, Systems Engineering, Enterprise Architecture and Asset Management methodologies. This service is specifically designed to enable time phase delivery where each phase delivers a fully operable part of the Route. Phasing decisions are based on stakeholder agreement on benefits, priorities and governance. The migration path realises benefits and enables capabilities at key phases.

This approach allows a Route to update all of its capabilities as modular and coherent work packages that deliver consistent and predictable end to end performance. The migration strategy service can be used with our Model Based Systems Engineering, Agile and LEAN project management, Systems Thinking and Open Architecture services to provide additional enablers to reduce situation complexity and delivery risk.

The objective is to address signalling, railway use (freight and passenger service), electrification, telecommunications, time tables, rolling stock and infrastructure upgrades together in order to transition Route through life management to a continuous and integrated upgrade cycle. The Route migration strategy uses stakeholder agreed risks, assumptions, issues, dependencies and opportunities (RAIDO) to manage Route planning, capability delivery and capability/technology roadmaps.

KEY SERVICE OFFERINGS

1) Stakeholder Workshops to identify key needs, RAIDO and problems to be addressed

2) Development and management of integrated PM. Sys Eng, Asset Mgt and Enterprise Architecture processes, methodology, governance and controls

3) Strategy formulation methods, techniques and approaches

4) Identification and development of a vision, objectives, principles, governance, processes and guidance for management of the Migration Strategy

5) Intelligent client support to assist our client's to deliver the Migration Strategy

Potential Users:
Routes

Business need
Implementation of a long term Route capability such as Transport as a Service, ETCS & TM, electrification and customer-centric digitalisation.

Why Frazer-Nash?
Frazer-Nash has developed methodologies across PM, Sys Eng, Enterprise Architecture and Asset Management disciplines. Concepts have been implemented and discussed in Defence. INCOSE/IRSE workshops and Route Migration studies. We are active members of the INCOSE Rail Interest Group and Transport Working Group.

Find out more
To find out more about our work and how we can add value to your business visit our website.

FRAZER-NASH
CONSULTANCY