

Implementing Process Management in a joint venture

A strategic approach to Business Process Management (BPM)

The HS2 London tunnels route

Delivering the HS2 London tunnels programme



The HS2 London tunnels

Delivering the HS2 London tunnels programme

- SKANSKA Costain STRABAG Joint Venture (SCS JV) is part of an incredible journey, creating the London tunnels section of a new high-speed railway (HS2)
- SCS JV is constructing 13 miles (20 km circa) of twin-bore tunnels on the HS2 route to its southern terminus at Euston. As 95% of this journey will be in tunnel, we will run six Tunnel Boring Machines (TBMs), of which five will operate simultaneously.
- SCS JV is operating from 23 work sites in a 13 miles (20km circa) route, employing 2500+ people and working with about 300 contractors
- The SCS JV logistics hub operations is removing excavated earth through dedicated tunnels and conveyors and removed off site by trains. Using 8 trains a day it removes 20 lorries from the road, saving 40% in CO2 emissions.

Your speaker

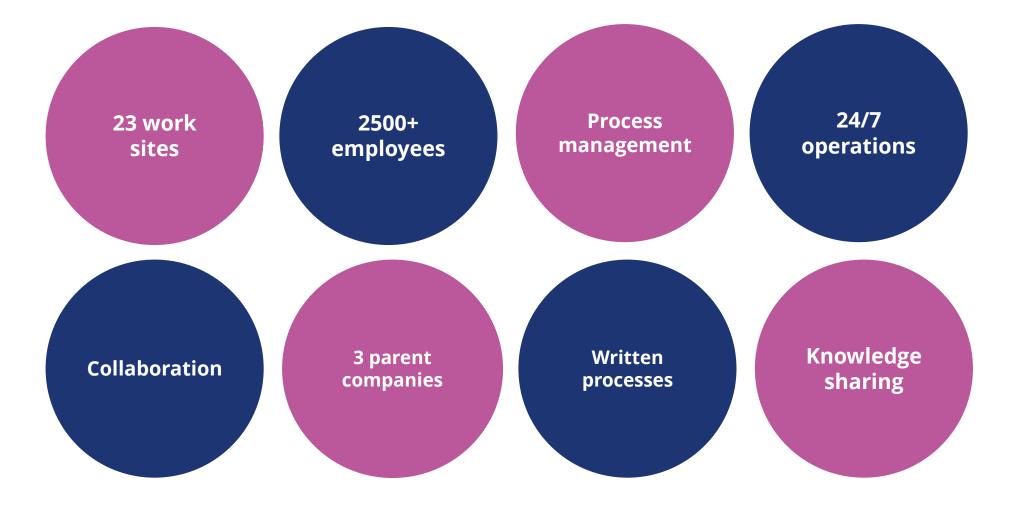


Angelo Vinci

Service Improvement Manager – at SKANSKA Costain STRABAG Joint Venture – SCS JV

- 10+ years experience in Business Process Management and Improvement
- 15+ years experience in the service industry, incl. Probation, Home Office and Royal Navy
- 3 years in wholesale trade and retail

The challenge



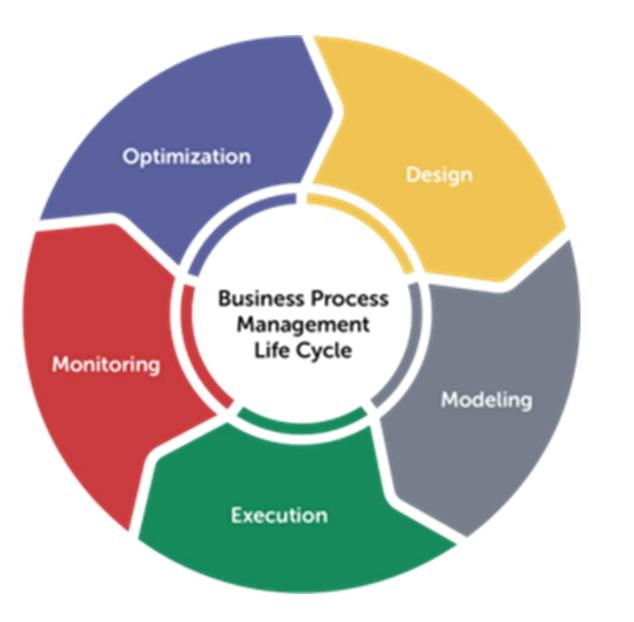
The response

Implementing a Business Process Management framework that offered:

- dynamic process mapping capabilities
- great user experience
- ability to map an edit processes quickly
- ability to align it to existing official documentation



Business Process Management



Business Process Management (BPM)

The BPM project was established in May 2021 with the aim of:

- driving process consistency
- providing a single source for all key SCS processes
- promoting collaboration across teams
- improving user experience, support and adoption

BPM key elements

Strategic approach

The BPM project and framework aligned to strategic intent and priorities BPM system needed to be easy to use for both modelers and end users. It needed to provide ability to link to existing documentation and create compelling artifacts

User experience

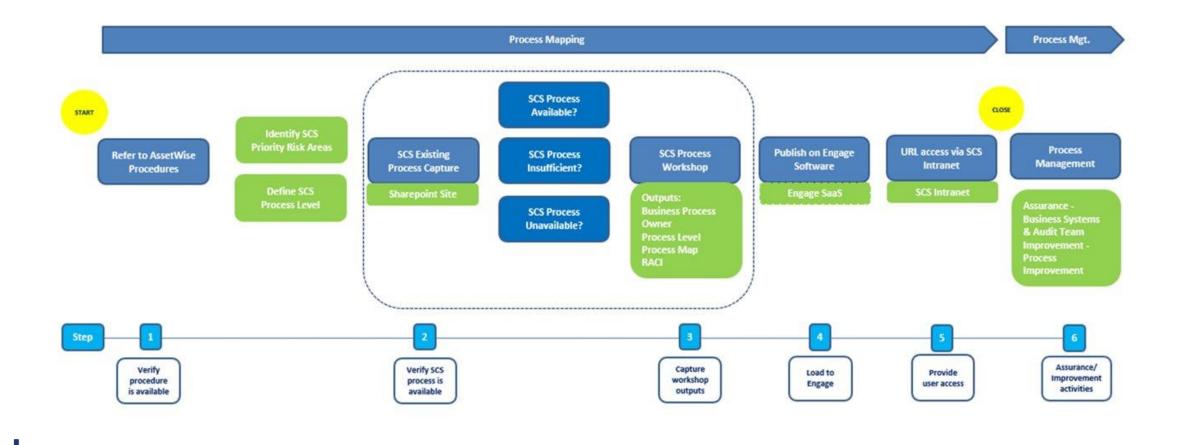
It needed to be planned and controlled properly to prevent a 'free for all' approach.

Clear planning

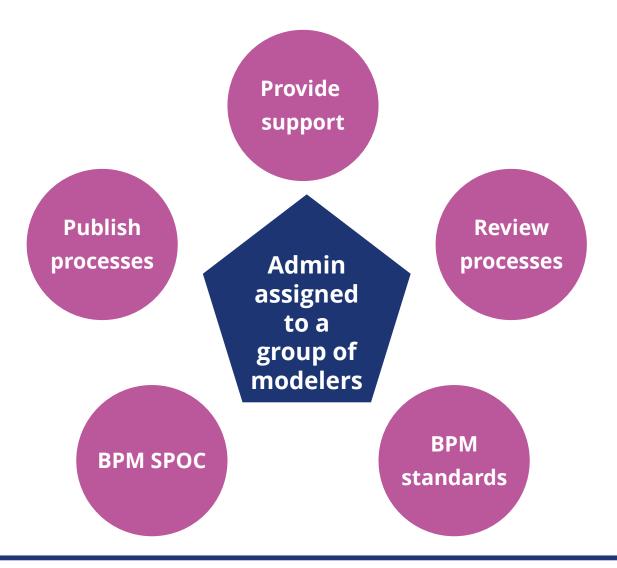
and governance

BPM approach

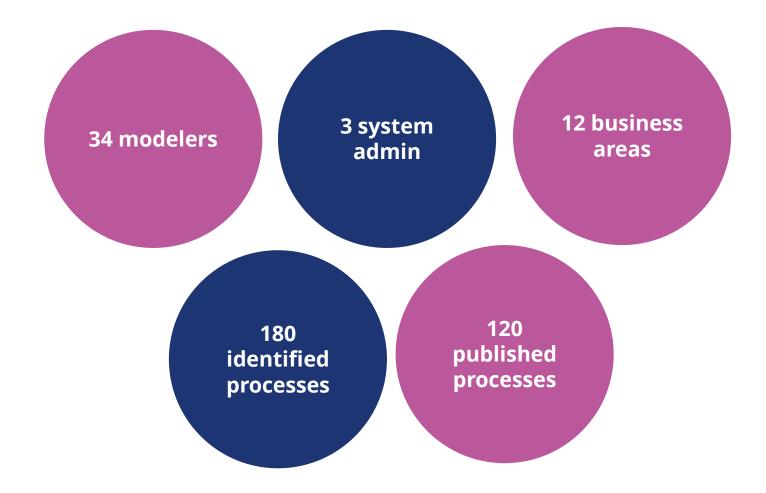
Designed an approach aligned with how official documentation is managed

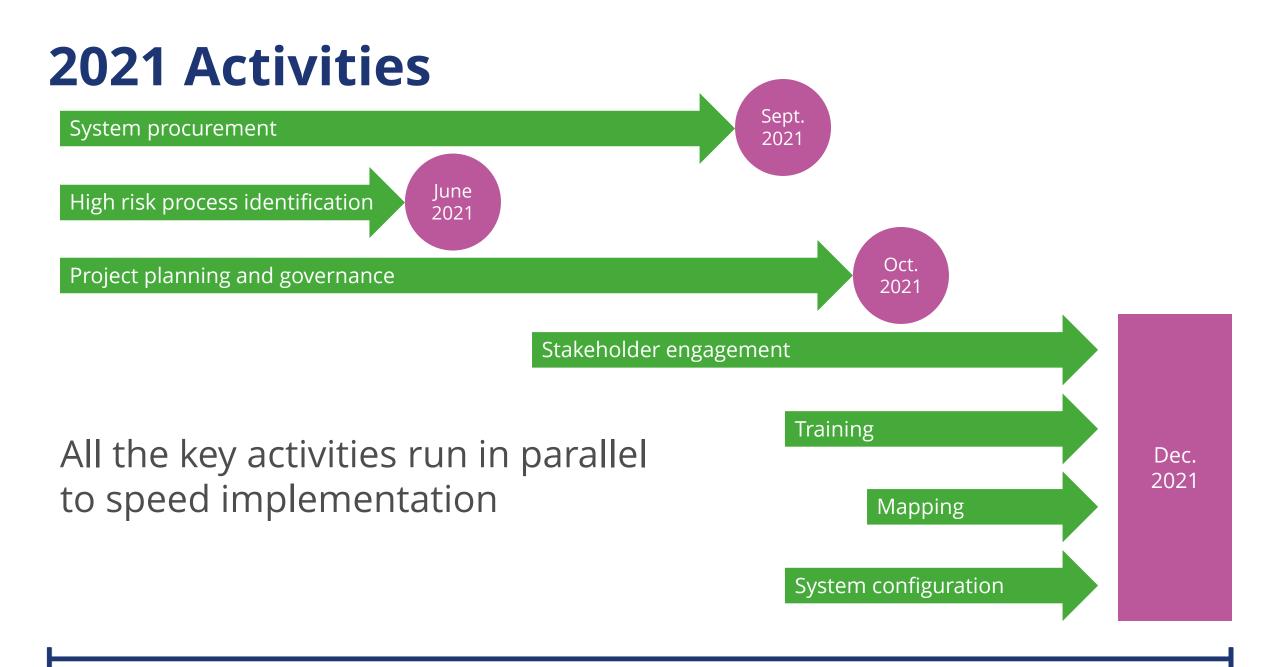


Modelers support

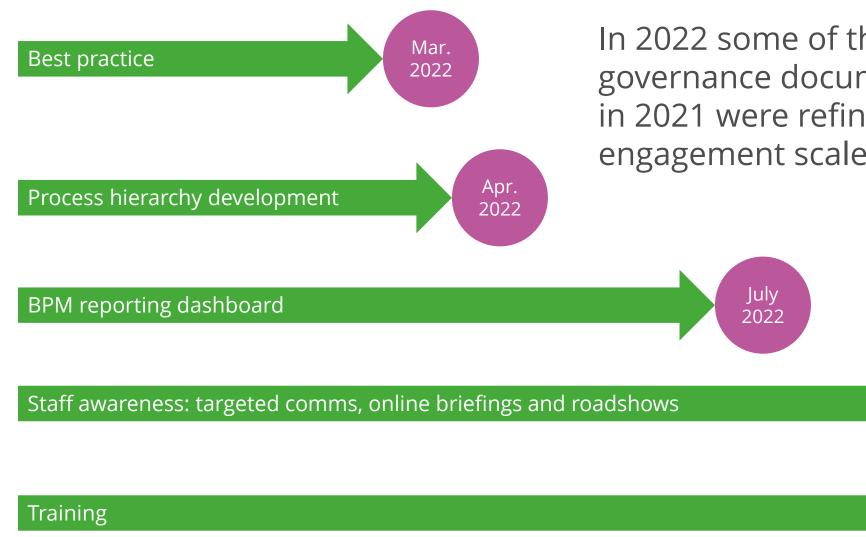


BPM facts and figures





2022 Activities



In 2022 some of the project and governance documentation developed in 2021 were refined and staff engagement scaled up

Dec.

2022

Dec.

2022

Examples of project and governance artifacts

Scoping document

- A simple straight forward scoping document aligned to strategic intent and priorities of the organization.
- Project activities/tasks were documented and managed through Teamboard

Passionate about excellence

Business Process Management – Phase 1

Project Objectives

- Identify process priority areas for review
- Identify process ownership (sponsor and
 - BPO=business process owner)
- Drive consistency
- Provide a single source for SCS processes
- Easy to access processes
- Promote collaboration across teams and organisations
- Improve user experience, support and adoption

Phase1 Project key milestones



Outputs

- Process areas matrix
- Standard process hierarchy
- Consistent process maps
- Process Management standards
- RACI for each process
- Interactive graphical user interface
- Link processes to SCS procedures
- Process cost identification



Project Manager Angelo Vinci

In scope

- · Processes identified as a priority area
- · Process mapping and data
- Engage process set up
- · Training and user guides
- · Users set up on Engage Process
- · Engage Process promotion and adoption activities
- · Support process implementation

Out of scope

- Procedures
- · Process documentation (e.g. plan, deliverables)
- Performance metrics
- Process analysis
- Process Improvement
- Design & Technical Assurance

Key Stakeholders

- Business Process Owners and their teams
- Business Systems & Audit
- IT
- Comms and Marketing team
- Project Improvement Team





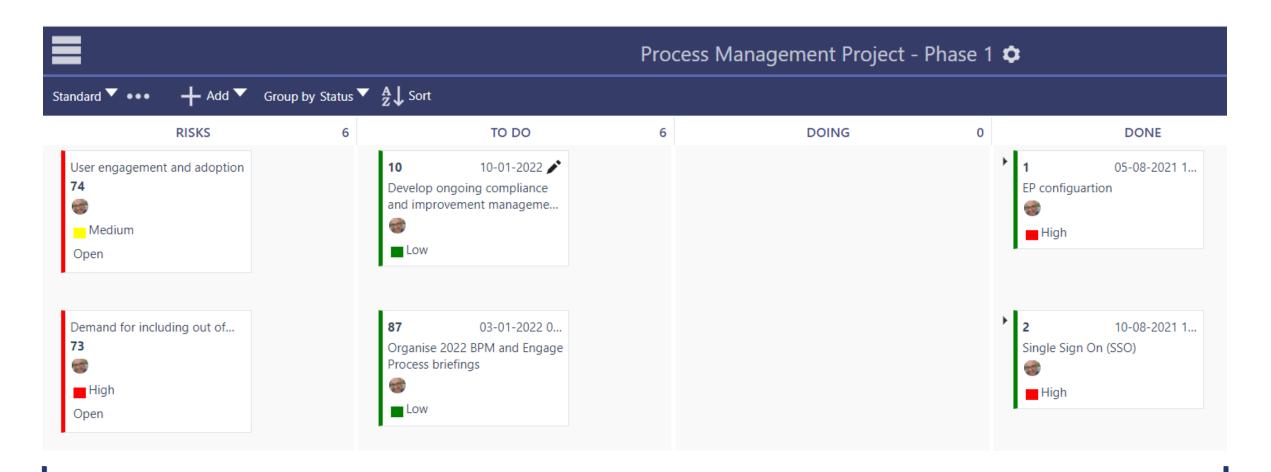
Project Plan

Initially the project plan was based on an Excel spreadsheet.

				Process manage	ment Pha	ase1_impler	nentation					
Ref T	Project stage	Action	Comments	Due date	Priority	Owner 🗸	Lead 🗸	Other key stakeholders	Resolution	¥	Status 🗸	Date last reviewer
A-001	Procurement	Solution selection	IT led this action, but was supported by BSA and Project Improvement	Jun-21	High						Completed	14/07/2021
A-002	Procurement	Contract negotiations with supplier		Jul-21	High						Open	14/07/2021
A-003	Procurement	Contract signing		Aug-21	High						Open	14/07/2021
A-004	Procurement	SCS JV Recommendation Report on process modelling tool	The contract agreement is for 5 years and due to this a recommendation report needs to completed and submitted to IPLT for approval as for standard governance procedure.		High						Open	14/07/2021
A-005	Operating Model	Identify implementation project manager	This is key as Engage needs only one point of contact during roll out and implementation. This person should also be responsible for driving and coordinating all process mapping and management activities.	Jul-21	High						Completed	14/07/2021
A-006	Pre-implementation	Develop implementation plan with RAID log		Jul-21	High						Completed	21/07/2021
A-007	Pre-implementation	Develop high level comms plan		Jul-21	Medium						Open	14/07/2021
A-008	Operating Model	Identify Senior System Owner		Jul-21	High						Completed	21/07/2021
A-009	Operating Model	Identify overall system lead and Engage relationship manager	It should be one person and ideally the project manager to ensure consistency post phase 1.	Jul-21	High						Completed	14/07/2021
A-010	Pre-implementation	Identify System Admin users	Not more than 3 people with ability to manage the solution, e.g. run reports, amend job roles list, add users to solution, manage dashboard	Jul-21	High						Completed	14/07/2021
A-011	Pre-implementation	Identify Modeler users	These are those that will map the processes and work with BPO	Jul-21	High						Open	14/07/2021
A-012	Pre-implementation	Set up training dates for both System Admin	Ideally during the 1st week of August.	Jul-21	High						Completed	14/07/2021
A-013	Pre-implementation	Set up training dates for modeler users		Jul-21	High						Open	14/07/2021
A-014	Pre-implementation	Provide Engage with list of System Admin and Modeler users	Important to set up on system correctly and provide right level of access	Jul-21	High						Open	14/07/2021
A-015	Training	Train System Admin users		Aug-21	High						Open	14/07/2021
A-016	Training	Train first cohort of modeler users		Aug-21	High						Open	14/07/2021
A-017	Training	Train second cohort og modeler users		Sep-21	Medium						Open	14/07/2021
A-018	Pre-implementation	Liaise with Engage on training delivery requirements	There is a level of customisation that Engage provide to the trainig to ensure it fits with want their clients want to achieve. Useful things to feed into the customisation piece would be RACI, process management standard (incl. the approach you Gary created). This could be done before or after service kick off activity.	Jul-21	High						Open	14/07/2021
A-019	Operating Model	Define a RACI	It's important to define roles and responsibilities with	Aug-21								14/07/2021
€ →	Action Plan	Risks Issues Assumptions Dependencies	Requests for Change Lessons and Successes	\oplus						4		

Teamboard planning

When contract was signed and access to EP granted the plan moved into Teamboard



1 Reporting perio	d:	Overa	all status of the proje	ct
Business Proce (BPM) – phase 2		it	Project lead: Angelo Vir Sponsor: Scott Murray	ıci
Indicate below by adding ' 'Completed' under the cor		ou are	at. If one stage has beer	completed, please add
Define	Discover		Develop	Deliver

SKANSKA	COSTAIN	STRABAG	Working in partnership with	HS2
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Action	Lead	Comments

Planned actions

Action	Lead	Comments

Risks and issues

What is it?	Status	Comments

Sponsor reporting

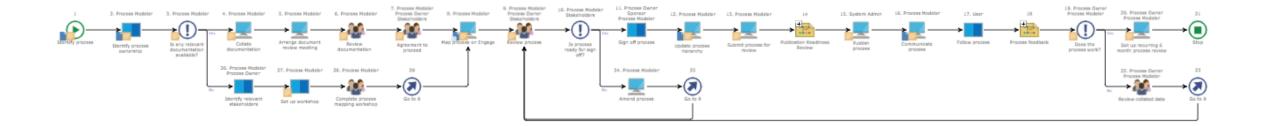
Template used for reporting progress to the sponsor during the BPM sponsor bi-weekly meetings

What challenges have you encountered?

What has been achieved so far?

How to map a process

- Developed mainly to provide modelers with what to consider when mapping a process
- Linked all best practice documents created to support process mapping standardisation



Process hierarchy

It is the key document where identified processes are documented and managed from

	Process ownership			SCS Proc	ess Hierarchy			Proce	ss mapping		Public Readiness		Process pub	lished
Business area	Business Area director	Business Process Owner	Level 0	Level 1	Level 2	_	Process Modeller	Start date	Forecast finish date	Actual finish date	Reviewer	Date Completed	Forecast date Actual d	late
	· · · · · · · · · · · · · · · · · · ·	Ŧ	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		T	*	¥	*	· · · · · · · · · · · · · · · · · · ·	·	Ŧ	*	
People	Name of director goes here	Name of process owner	People	Recruitment	Permanent staff recruitment			10/01/2022	28/02/2022		2 Angelo Vinci	07/06/2022	00/40/0004	00/10/0004
People	Name of director goes here	Name of process owner	People	Labour management	Labour recruitment			22/09/2021	08/10/2021	08/10/2021	1 Angelo Vinci	08/10/2021	08/10/2021	08/10/2021
People	Name of director goes here	Name of process owner	People	Labour management	Timesheet process			01/02/2022	30/06/2022		Angelo Vinci	0.4100.0000	10/00/0000	10/00/0000
People	Name of director goes here	Name of process owner	People	Labour management	Off-hiring labour			04/07/2022	15/09/2022	24/08/2022	2 Angelo Vinci	31/08/2022	16/09/2022	13/09/2022
People	Name of director goes here	Name of process owner	People	Labour management	Quarterly labour review			04/07/2022	15/09/2022	24/08/2022	2 Angelo Vinci	31/08/2022	16/09/2022	13/09/2022
People	Name of director goes here	Name of process owner	People	Labour management	Labour Upskill			01/10/2021	30/12/2021	03/12/202	1 Angelo Vinci	03/12/2021	03/12/2021	03/12/2021
Commercial	Name of director goes here	Name of process owner	Procurement and Supply Chain	Supply chain	Business Assurance			11/10/2021	01/11/2021	02/12/2021	Angelo Vinci	02/12/2021	02/12/2021	02/12/2021
Commercial	Name of director goes here	Name of process owner	Procurement and Supply Chain	Procurement	Subcontract Procurement			01/10/2021	22/10/2021	02/03/2022	Angelo Vinci	23/02/2022	31/10/2021	02/03/2022
Commercial	Name of director goes here	Name of process owner	Procurement and Supply Chain	Procurement	Materials Procurement			18/10/2021	01/11/2021	12/05/2022	Angelo Vinci	17/05/2022	27/05/2022	26/05/2022
Commercial	Name of director goes here	Name of process owner	Procurement and Supply Chain	Procurement	Plant Hire Procurement			25/10/2021	08/11/2021	12/05/2022	Angelo Vinci	17/05/2022	27/05/2022	26/05/2022
Operational Excellence	Name of director goes here	Name of process owner	Project Improvement	Business Improvement	How to map a process			01/10/2021	14/10/2021	14/10/2021	1 Angelo Vinci	26/10/2021	22/10/2021	26/10/2021
Operational Excellence	Name of director goes here	Name of process owner	Project Improvement	Business Improvement	Improvement project journey			10/12/2021	31/01/2022	31/01/2022	2 Angelo Vinci	31/01/2022	31/01/2022	31/01/2022
Operational Excellence	Name of director goes here	Name of process owner	Project Improvement	Innovation	How to process an Innovation			01/10/2021	03/12/2021	06/12/2021	1 Angelo Vinci	08/12/2021	08/12/2021	08/12/2021

Engage Process hierarchy

ں ب	B			
File	Home	Layout	Design	Analysis
🖌 Cut 🖹 Cop	y - I:	New Style	Properties	Manual
A	ctions	Project	Diagram	
Proje	ct		₹×	

- ₽ Search project
- 🕨 📕 Tables
- 🕨 📁 Business Systems & Audit
- Construction Management
- 🕨 📕 Environment & Sustainability
- 🕨 📕 Finance

🕶 듵 Health & Safety

- 🕨 📕 Incident Management
- 🕨 📕 Operational Control
- Planning and Safe System of Work
- 🕨 🧰 IT
- 🕨 📕 Logistics
- 🕨 💼 MEP
- 🕨 📕 People
- Procurement & Supply Chain
- 🕨 📕 Project Controls
- 🕨 📕 Project Improvement
- 🕨 📁 Risk management
- 🕨 📕 Temporary Works
- 🕨 📕 Utilities

- The folders

 hierarchy in the Modeler is an exact replica of the process
 hierarchy,
 including sub folders
- And it was replicated on the Viewer App home page



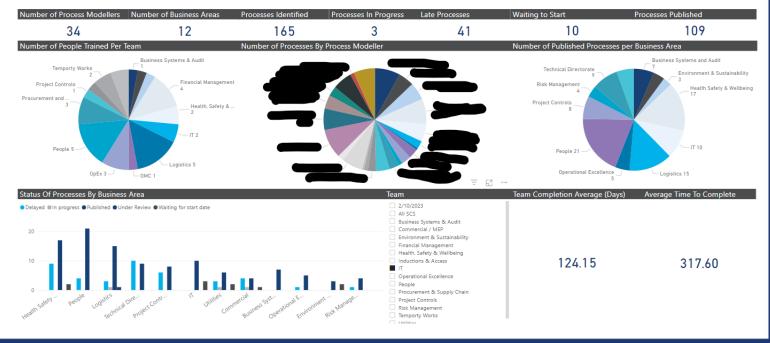
Reporting dashboard

- The process hierarchy provides all the data for the dashboard
- It updates daily
- It is used for reporting at senior leadership level
- It is accessible to all employees



To suggest a process for mapping or any queries regarding the BPM project please email engageprocess@scsrailways.co.uk

To access and navigate all published processes follow this guidance - Engage Process Viewer Access



Working in HS2

Roles and responsibilities

It highlights the responsibilities associated with key BPM roles

Resources Services offer

Business Process Owner (BPO)

Who is it?

The Director/Head of a Service/Department where the processes sit.

Accountabilities:

- Process objectives
- Process design
- Process documentation (e.g. guidance, procedures etc.)
- Process sign off
- Process communication
- Process compliance
- Provide process modeler resources
- Agree process priorities
- Process initiatives sponsor

Business Process Modeler

Who is it?

The person nominated by the BPO to map relevant processes and capture relevant process data

Responsibilities:

- Document and maintain the process
- Capture process data
- Train and advice users on process
- Engage with relevant stakeholders including BPO to ensure process is accurate
- Communicate process
 changes

Support the BPM project offers

BPM SME

Who is it?

The perso<u>n that has:</u>

- in depth understanding of Engage Process
- in depth understanding of process management

Accountabilities:

- System admin
- Support to Business Process Modelers
- BPM project manager
- Stakeholders engagement
- Users adoption
- Ongoing relationship with Engage Process

System Admin

Who is it?

The person (not more than 3) that have access to Engage Process admin centre and are able to configure the software, incl. assigning licences.

Accountabilities:

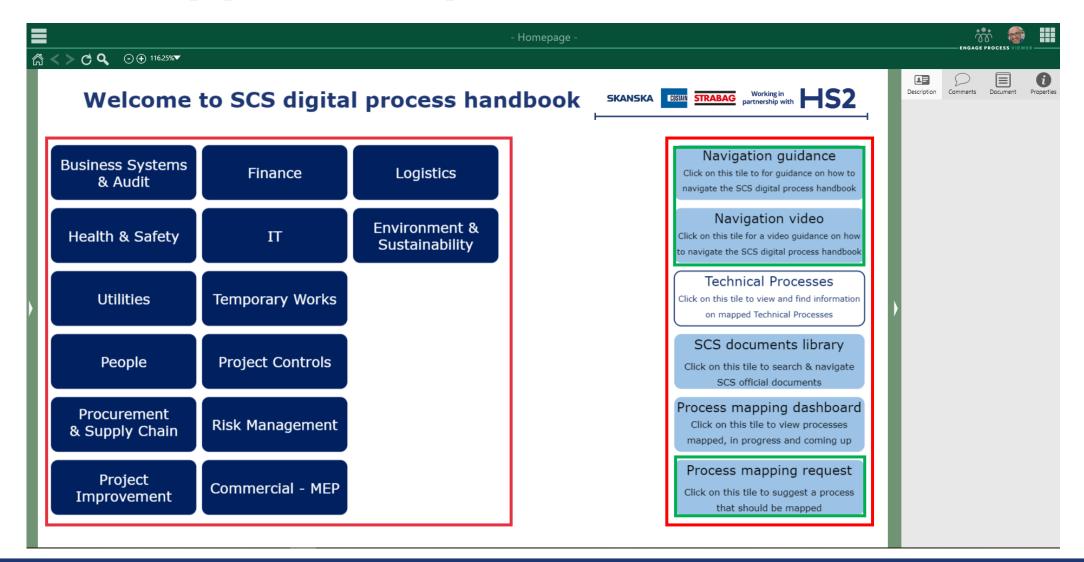
- System configuration
- System admin
- Process publication
- Licences administration
- Users support

User engagement

User engagement activities



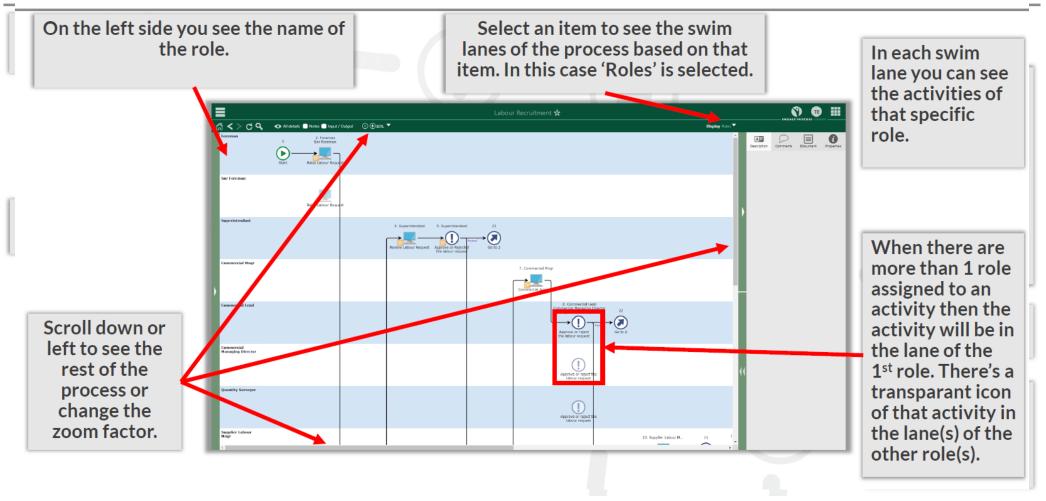
Viewer App development



Navigation guidance

How to read/use Swim Lanes?





Navigation video



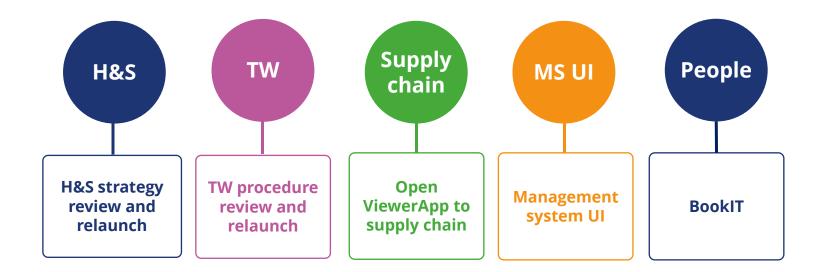
Process request form

A simple Microsoft Form to either request a briefing or suggest processes.

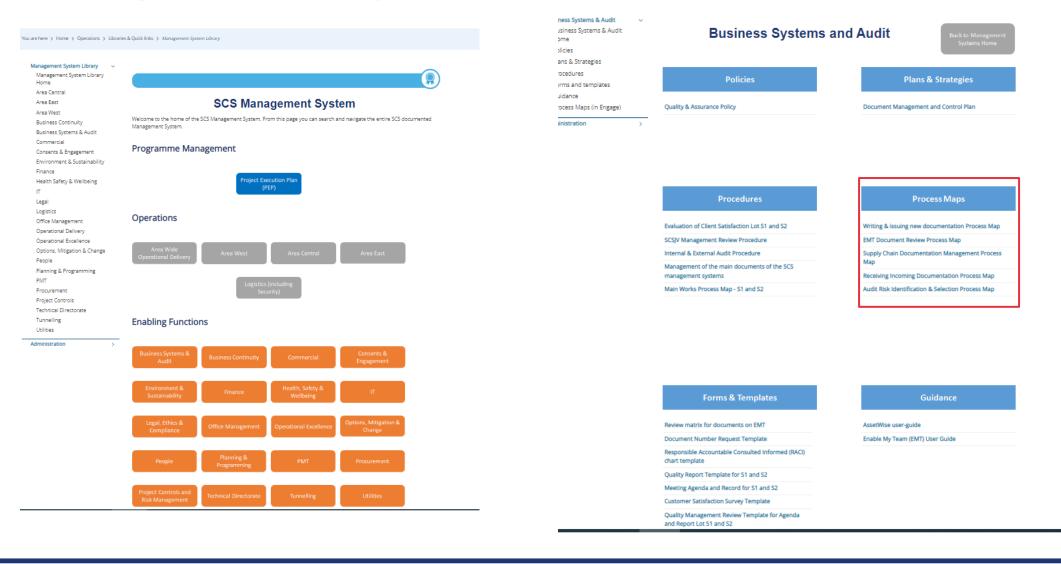
It is available from the ViewerApp homepage

li, Angelo. When yo	u submit this form, the owner will see you	r name and email address.	
1. What SCS pro	e <mark>ss would you like to see on Enga</mark>	ge?	
Enter your answ	er		
2. Would you like	the Engage team to run a briefing	g for your team/department/area	1?
O Yes			
O No			
2 Mbat further i	nformation would you like to know	about Engage?	





Management system UI



Thank you