

# High-level introduction and summary of the SFT Infrastructure Technology Navigator



# Introduction

The Scottish Futures Trust (SFT) has developed an online toolkit designed to help the public sector to improve the performance of its built assets through the use of digital technologies.

The site is available at:

<https://infratech.scottishfuturestrust.org.uk/>

The technologies referenced within the site relate to those that are required to read, reference or create new information and support improved performance.

THE CONSTRUCTION INNOVATION HUB IS DELIVERED BY:



# Background to the Infrastructure Technology Navigator

The Scottish Futures Trust (SFT) promote the idea that the performance of tomorrow's infrastructure will be improved by technology that allows us to plan and invest effectively.

The SFT seek to realise the potential benefit of technology to infrastructure performance now, and into the future, by:

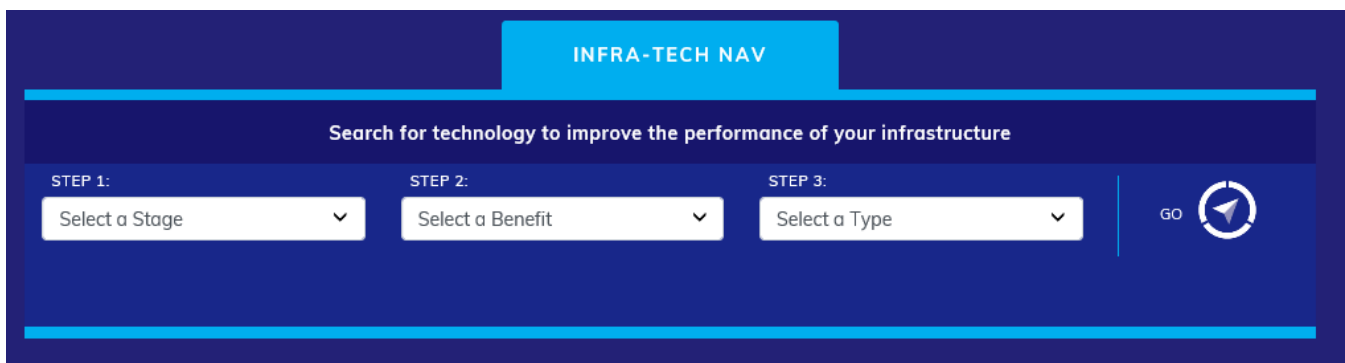
- identifying and raising awareness of beneficial technologies;
- unlocking investment;
- overcoming complex implementation;
- enabling better insight and utilisation of data;
- supporting upskilling and developing new expertise.

The SFT's Infrastructure Technology Navigator is a free, open-source tool developed in partnership with industry and the public sector, that supports the selection of existing and new technology to improve infrastructure performance. The Infrastructure Technology Navigator links the needs of public-sector bodies to technology solutions that can support how they plan, deliver and manage their assets.

# How does the Infrastructure Technology Navigator work?

The navigator quickly links users to a list of performance improvements that can be enabled through infrastructure technology.

Users can search by project stage, benefit or technology type.



The screenshot shows the 'INFRA-TECH NAV' interface. At the top, there's a blue header with the title 'INFRA-TECH NAV'. Below it, a search bar prompts the user to 'Search for technology to improve the performance of your infrastructure'. The search process is divided into three steps: STEP 1: 'Select a Stage', STEP 2: 'Select a Benefit', and STEP 3: 'Select a Type'. Each step is represented by a dropdown menu. To the right of the dropdowns is a 'GO' button with a magnifying glass icon. The entire interface is set against a dark blue background with light blue accents.

The navigator then provides guidance, benefits and templates to assist users with implementing these technologies. Once users have identified a performance improvement that they want to implement, they can select this and add it to their own technology stack. This will enable users to store relevant technologies that they are interested in for future reference.

The navigator is based on a framework that considers the required processes, skills and personnel, and data needs to enable the value-driven selection of technology solutions. Once a user selects a performance improvement, the navigator will define the technology and provide the associated guidance. The guidance is divided into the following areas:

- Overview;
- Benefits/Return on Investment;
- Process & People Requirements;
- Data Requirements;
- Technology Requirements;
- Useful Links & Documents;
- Where a performance improvement can be delivered by multiple technology providers, the navigator will point users to industry databases or existing supplier databases.

Additionally, the site includes a Baseline Skillset Tool, which provides a consistent and easy-to-use assessment of the skills of project leaders to inform training, upskilling and resource allocation and which can identify opportunities for collaboration.

My TechStack

STAGE

BENEFIT

TECH TYPE

GO

MENU

## TECHNOLOGY ENABLED PERFORMANCE IMPROVEMENTS

### MY TECHNOLOGY STACK

Name

David Philp

Organisation

CDBB

MY TECHNOLOGY STACK

Assess & develop skills of project leaders

Improve construction monitoring & validation - Dynamic Visual Monitoring

Improve information management & collaboration

STAGES	BENEFITS	TECHNOLOGY TYPES
Planning	Reduce Waste & Carbon	Database Systems
Invest	Reduce cost	Information Management & Analytics
Delivery	Improve outcomes for users	Enhanced Computer Modelling
Manage	Improve delivery time	Reality Capture & Lazer Scanning
	Improve asset performance	Digital Tools & Apps
	Increased social value	Virtual & Augmented Reality
	Improve construction quality	Robotics & Drones
	Support upskilling & training	

# Use by other home nations and organisations

The SFT Infrastructure Technology Navigator delivers real value by providing a helpful resource to raise awareness, unlock investment and help identify value-adding technology that can be adopted within any public-sector or procuring organisation (appointing party). Use of the tool is especially valuable when compiling organisational-level technology stacks. The tool is open and freely accessible following registration.