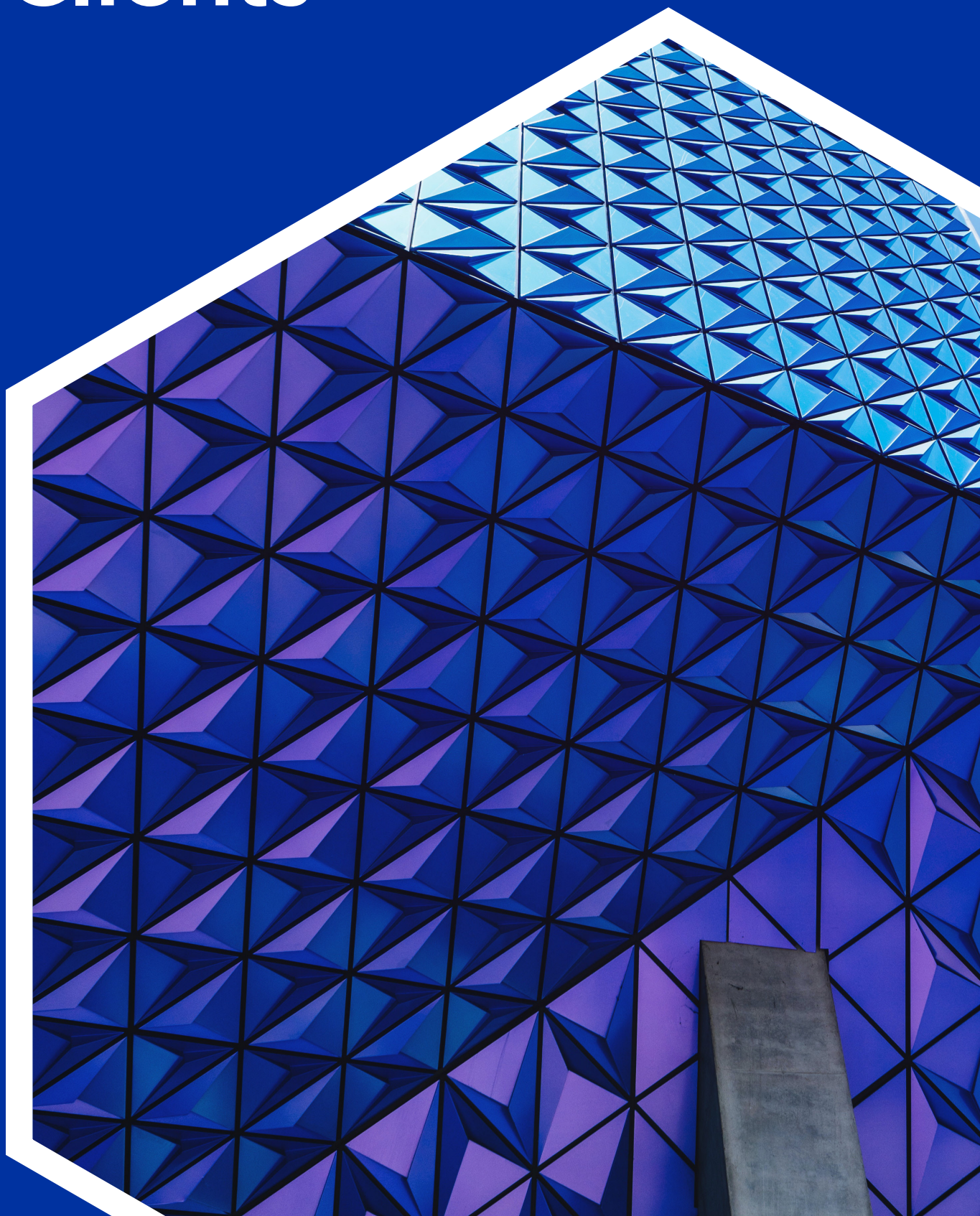


The Hub Playbook for

Public Sector Clients

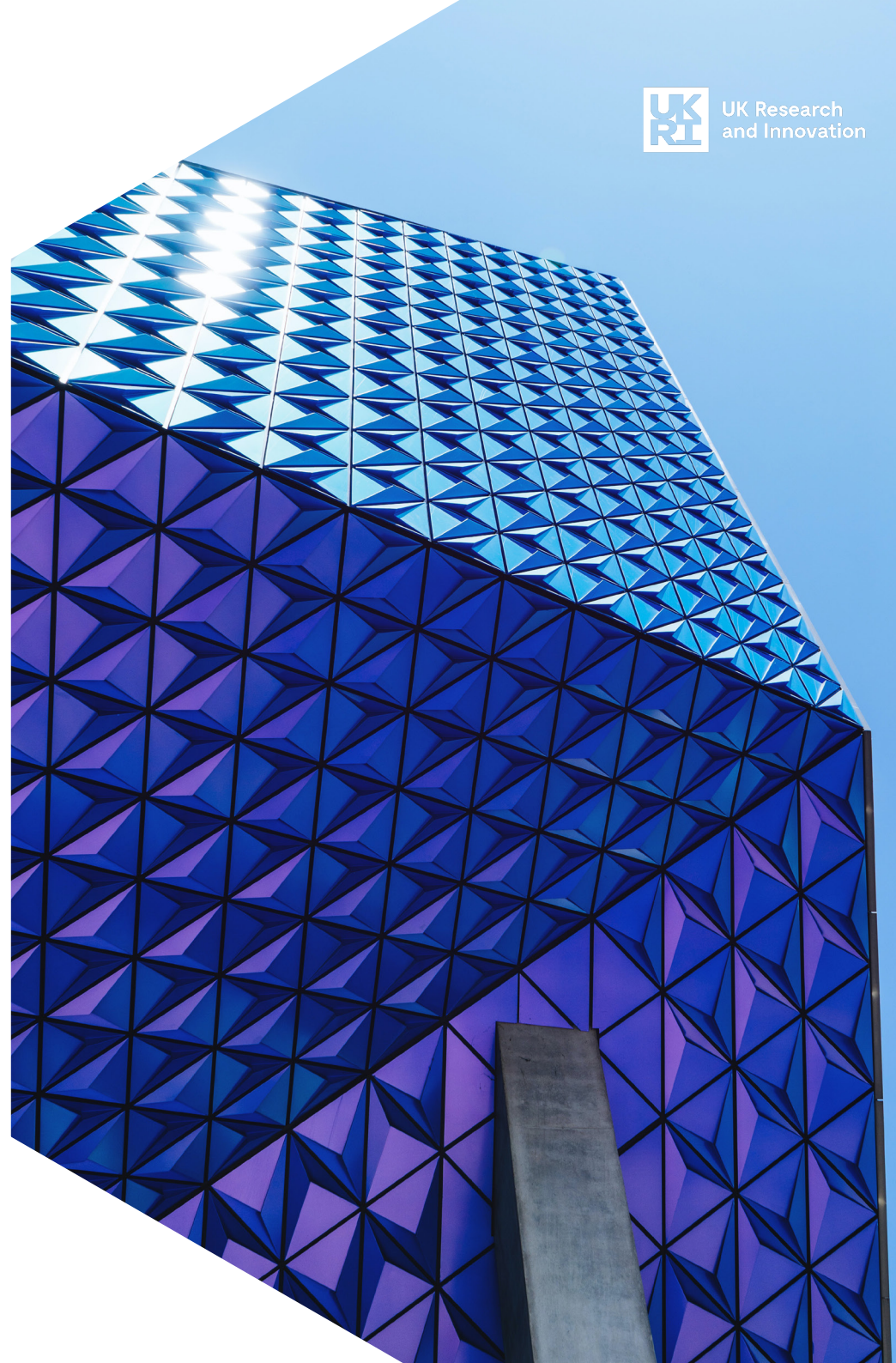


The Hub Playbook for Public Sector Clients

As part of the Transforming Construction Challenge, over the past four years the Hub has worked with government and industry to create solutions that support the transformation of the sector. New tools, processes and standards will boost productivity, supporting a more innovative, safer, higher quality, more sustainable sector ready to deliver the ambitions we have for our society, environment and economy.

The Hub's programme has focused on enabling the market to succeed. We have shaped the policy and regulatory environment, helping clients and policymakers to drive added value in the decisions they take. Our outputs will enable all parts of the supply chain to respond with innovative solutions that exploit the opportunities that new digital, data-centric and manufacturing approaches can bring.

This Playbook signposts how public sector clients can access the Hub's outputs, and implement and embed them into their projects and organisations. This Playbook clearly articulates from a client's perspective what each of the Hub's key outputs are, the key drivers behind their development, and the practical steps to take to accelerate and drive adoption within their organisation.



Value Toolkit



Value Toolkit

What is it?

The Value Toolkit is a pioneering suite of tools that can be used to embed value-based decision making in projects across the construction and built environment sector. Value-based decision making focuses on how an investment can deliver the best outcomes and thus value, rather than focusing exclusively on delivering to the lowest possible price.

Why do it?

The government is driving the construction industry to adopt value-based decision making through policies set out in the Construction Playbook and Transforming Infrastructure Performance Roadmap to 2030.

Both the public and private sector can apply the tools within the Value Toolkit on single projects, across programmes or at an enterprise level.

Use of the Value Toolkit will drive transformational change in the way all stakeholders in the sector are able to create better schools, hospitals, homes and buildings in the future.

The Toolkit can be used to help tackle the increasingly complex challenges our society now faces, from climate change to economic recovery in a post-pandemic world.

The role of public sector clients

Public sector clients can use the Value Toolkit to deliver better outcomes for infrastructure investment in line with current government policy. The Value Toolkit is a government funded industry-led initiative – with roots in the Construction Leadership Council’s Procuring for Value report – and set to deliver on the ambitions of the Construction Playbook and the IPA’s Transforming Infrastructure Performance Roadmap. It is aligned with Treasury’s Green Book, and supports clients to define value beyond cost, and work collaboratively with their supply chain to drive better social, environmental and economic outcomes from projects and portfolios.

The role of the client is to adopt the Value Toolkit to define, deliver and measure value created through infrastructure investment.

What practical help is available to public sector clients?

The Value Toolkit sets out a series of processes, tools and guidance and two interlinking activity streams: one covering value definition and measurement; the other through a client approach.

The Toolkit also provides a webapp to store the decision points and the evidence behind them, so that these are transferred at every handover point in the lifecycle of an asset. It includes training: [a two-day facilitator training course](#); e-learning for the supply chain on how to respond if a client is using the Value Toolkit; and e-learning for commercial teams looking to understand value-based decision making.

Public sector clients can access the training provided, ask existing partners if they have trained facilitators, and embed the process in projects.

What are my first steps?

Explore the applications of the Value Toolkit at project, programme or enterprise level.

Find out more about the Value Toolkit [here](#)

Product Platform Rulebook



Product Platform Rulebook

What is it?

Platform construction uses product platforms as standard, repeatable assets with interoperable components. Their use can reduce cost, waste, and carbon and help the infrastructure sector better deliver the future pipeline of projects and programmes.

Platform construction will drive transformational change in the way clients think about how our schools, hospitals, homes and buildings can be created in the future.

It is designed with built-in mechanisms for continuous improvement and the opportunity for synchronisation and streamlining as both capability and capacity grow.

A product platform is a kit-of-parts, associated production processes, and the knowledge, people and relationships required to deliver all or part of construction projects using a platform approach. It provides a stable core which is configured and combined with complementary components (via defined interfaces) to suit a particular project. A product platform also includes the processes, tools and equipment required for assembly.

Why do it?

The Rulebook has been created to support the implementation of the policies described in the Construction Playbook. It also enables the accelerated adoption of platform approaches described in Transforming Infrastructure Performance: Roadmap to 2030 (TIP). The needs of government, clients and industry lie at the heart of the Rulebook's development and its publication follows extensive stakeholder consultation and industry involvement. The Rulebook stands ready to be the blueprint for developing and implementing product platforms for current and future market players.

The role of public sector clients

Platform solutions represent a fundamental change requiring different behaviours from both the client and the supply chain. Product platforms rely on aggregated demand supported by harmonised and rationalised design requirements across a range of asset types and client organisations. Clients will have to provide confidence to the supply chain that the solutions they develop will have a market.

Clients will need to agree on suitable time frames for the publication of pipeline and requirements data. They will have to balance the need for continuous improvement with the need for stable demand.

Organisations across the client domain will be required to work together to agree common standards against which pipeline data and client requirements are communicated. This will need to be done collaboratively across the client base, away from the project environment.

What practical help is available to public sector clients?

The Construction Playbook outlines an intent to 'harmonise, digitise and rationalise demand' across individual projects and programmes. The Product Platform Rulebook provides guidance that enables and supports this approach. The Rulebook establishes eight rules which determine whether something can be considered a product platform or not and provides supporting explanations so that clients can choose a solution in line with government policy. The Product Platform Rulebook also contains recommendations for further action, case studies outlining best practice and ideas for further reading.

What are my first steps?

Public sector clients can consider the requirements for harmonisation of demand and act on [specification maturity recommendations](#), in conjunction with the Construction Playbook. They can use the Rulebook as an open access resource to educate, enable, and empower their management and staff. It outlines additional guidance, case studies and definitions.

Find out more about the Product Platform Rulebook [here](#)

Information Management



Information Management

What is it?

The Hub's Information Management project developed tools and guidance designed to support industry to adapt and thrive within an evolving digital landscape. Information management is the key to unlocking industry's potential, providing the Golden Thread that enables transformation to evolve and improve our infrastructure. The Hub-developed resources include: policies and standards; operating models, processes and tools; and a library of case studies and evidence to support business cases.

Why do it?

The future of construction and infrastructure is focused on digital advancement. There's no winding the clock back, only forward.

The government is driving the adoption of information management through policies set out in the TIP Roadmap to 2030 (Information Management Mandate) and the application of the UK BIM Framework, and through the introduction of the National Digital Twin Programme.

Enhanced information management practices and processes will enable construction companies to help build back better and promote a green industrial revolution in the transition to Net Zero.

By applying effective information management processes, the market can benefit from greater efficiencies, improved quality and consistency, reduced costs and increased resilience and agility.

Our research found that £6 of direct labour productivity gains can potentially be secured for every £1 invested in information management. Similarly, 1.6% to 18% costs savings at various stages of the asset lifecycle can potentially be secured for every £1 invested in information management.

The role of public sector clients

Through clear information management requirements, public sector clients can work with construction companies and other sector partners to develop the capability and capacity in information management needed to achieve policy goals and meet regulatory requirements.

Information management can lead to reductions of risk, rework and construction time – improving the efficiency of builds. In the design phase, improved visualisation and communication support collaboration between the design team and constructor so that issues can be identified early and mitigated. The use of information management and digital twins can be used to improve the whole-life social, economic and environmental outcomes from an asset, and across portfolios of assets.

What practical help is available to public sector clients?

The Hub was worked in partnership with industry, government and academia to produce open-source outputs that support public sector clients on the transformation journey. This includes: The UK BIM Framework – a series of guidance documents for using BIM in the UK; Digital Twin Navigator – an interactive guide for considering digital twins in business cases and capital project procurement; Energy and Carbon Framework – guidance that defines operation energy and carbon dioxide emissions; information exchanges for Government Soft Landings (GSL); Local Authorities Soft Landings Navigators – an interactive navigator for implementing GSL; LEXiCON – methodology for creating and managing Product Data Templates; Information Requirements Tool – to support client information managers; and a Skills and Competency Framework – guidance to support the development of information management capabilities. All of these resources can be adapted to suit the needs of public sector clients.

What are my first steps?

Develop clear information requirements using tools created for clients through our [information management programme](#). The UK BIM Framework has been designed to help public sector clients ensure their practices align with the government's information management mandate. The UK BIM Framework sets out the approach for implementing information management in the UK using the framework for managing information provided by the ISO 19650 series for Building Information Modelling (BIM). It includes:

- the published standards called upon to implement BIM in the UK
- the UK BIM Guidance Framework
- useful links to other resources

The UK BIM Framework will guide and support construction companies in implementing BIM. To understand how digital twins might add value to your project, use the [digital twin navigator](#).

Find out more about Information Management [here](#)

**Quality
Assurance**



Quality Assurance

What is it?

The Hub's work into quality assurance provides the guidance and tools for construction product manufacturers to deliver higher quality, safer, more sustainable outputs, whether a provider of traditional products or producer of offsite, platform-based solutions. It focuses on two main areas. Quality – CPQP offers a toolbox of resources to help manufacturers produce products and components in line with best practice quality standards, ensure legal compliance and improve the efficiency of their operations. Product verification and validation offers a clear route to product validation as part of a platform-based approach to construction. This helps ensure finished products meet all requirements set out at design stage.

Why do it?

Our tools and guidelines set the level of quality assurance and risk assessment that should be embedded within both the design and production stages of product manufacturing. They will help businesses conform with new standards such as BS 99001 and ensure compliance with legislation, including the new Building Safety Act. The Construction Playbook and Transforming Infrastructure Performance Roadmap to 2030 both set out a vision for a manufacturing-led construction sector. CPQP is part of a suite of tools that the Hub has developed to meet these ambitions.

The role of public sector clients

Clients should specify the use of construction products that have followed the Hub's quality assurance processes. The CPQP framework includes the creation of a live control document. This provides an audit trail as per the requirements of the Golden Thread. In parallel, a digital tool is in development that will monitor, track and measure the CPQP process. This removes risk from the process, helping manufacturers to comply with regulations and reducing the potential for product failures and warranty issues in the future.

What practical help is available to public sector clients?

The Construction Innovation Hub and partners across industry have developed the CPQP Quality Framework process that should be followed during the creation of new construction products. It includes five phases, ranging from product definition to product launch. A Verification & Validation Guide (VV) has been designed to help constructors efficiently and effectively navigate the verification and validation processes in line with shifting regulatory landscapes. The guide focuses on the testing of components and their integration as part of a system during the product development process. It is designed to fit within the CPQP framework.

What are my first steps?

Encourage the use of the Hub's quality assurance outputs throughout your supply chain. The Hub has created a range of resources to support [Quality Assurance and Product Validation and Testing](#) that are available open access. CPQP directly supports the Hub's Product Platform Programme. It provides practical tools for the quality assurance of product platforms developed using the guiding rules set out in the Hub's Product Platform Rulebook.

CPQP aims to ensure that quality is built into any new manufacturing processes and final products from the start and supports the creation of a live control document for the Golden Thread.

Find out more about [Quality Assurance here](#)

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The Construction Innovation Hub is a partnership between:



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