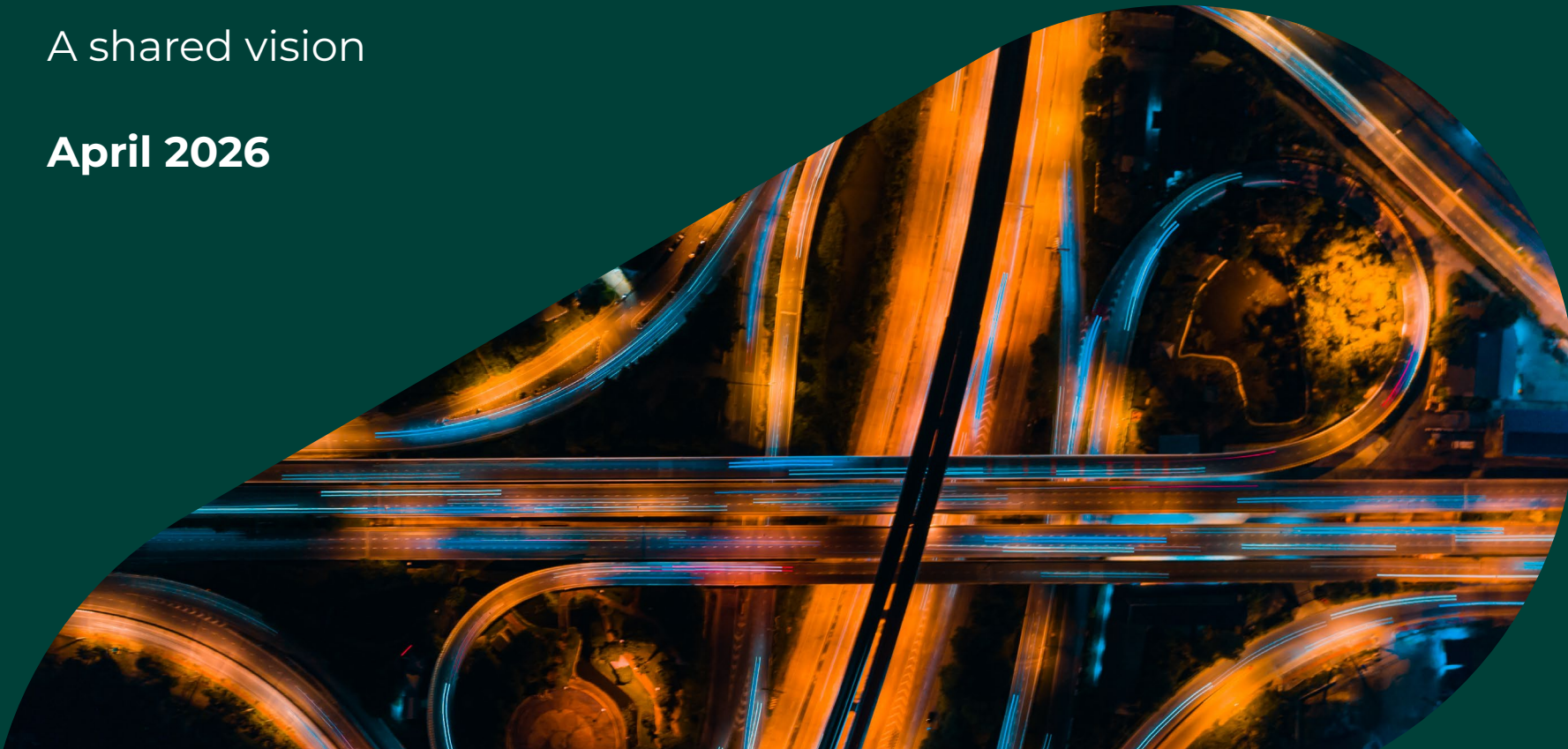


Transport Infrastructure Information Management

CATAPULT
Connected Places

A shared vision

April 2026



UK BIM leadership has not translated into transport outcomes – and billions are at stake

The UK mandated Building Information Modelling (BIM) for public sector projects in 2016 and Information Management in 2021.

That has not resulted in the transport sector consistently applying best practice and benefitting.

Norway is leading in applying a model-based approach consistently to deliver road and rail infrastructure, reducing their project delivery costs by more than 10%¹.

Over the next ten years, £113 bn is committed to transport in the national infrastructure pipeline, with whole-life costs even greater.

Decisions made now determine whether future operators inherit trusted, usable asset information – or unmanaged risk.



What future do we want for transport asset information management?



¹ Internal Report, Statens Vegvesen (Norwegian Public Roads Administration). [Summarised in this article](#)

A shared vision

Working together, transport asset owners, managers, and delivery bodies can ensure that major infrastructure investment delivers its full whole-life value to the public, supported by trusted digital information as well as physical assets.



“ Strong Information Management is essential to unlock the full value of transport investment in a digital, AI-enabled future.

Shared knowledge

A shared vision allows stakeholders to share insights, challenges, and best practice to accelerate the realisation of the vision.

Shared eco-system

The eco-system supporting road and rail infrastructure often overlap – having a shared vision provides a consistent message for the sector.

Shared public good

A modern transport system integrates multiple modes. A shared vision for how assets are delivered and operated across modes supports a resilient, integrated system.

Vision

By 2030, transportation infrastructure in the UK will be planned, delivered and operated using asset-centred information management. Information will be **integrated and available where it is needed**, **delivered using defined practices**, **guided by clear leadership and defined ownership**, and **used with confidence** to improve delivery time, cost, quality, and operational performance.

**Integrate and
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**Define
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**Lead and own
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Integrate and use trusted information

Trusted asset information is integrated, interoperable and available where and when it is needed, enabling clients and suppliers to make informed decisions across delivery and operations.

Principles

The right information is available for the right purpose

Information is proportionate, trusted and available when and where it is needed, so delivery teams, frontline teams and asset managers can act with confidence.

Trusted information is shared through consistent and connected systems

Information is open, connected and accessible through a coherent approach to interoperability enabling a reliable source of truth for asset information.

Information remains useful across the asset lifecycle

Information is created, maintained and updated so that it supports design, construction, handover and operations to support the performance of transport infrastructure over its whole life.

Information is connected across assets and systems

Information is brought together across assets, systems and organisational boundaries to support a strategic and holistic understanding of asset performance and risk.



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Define information delivery

Requirements, procurement, standards and assurance are aligned so that the right information is defined, delivered and used across the asset lifecycle.

Principles

Information requirements are defined clearly and consistently

Clients define what information is needed, why it is needed, when it is needed and how it will be used across delivery and operations.

Commercial arrangements enforce good information delivery

Procurement and contractual arrangements incentivise the creation, exchange and handover of information that is usable, interoperable and aligned to whole-life needs.

Standards and assurance support consistent delivery

Standards, review processes and assurance activities are aligned so that information quality, usability and compliance are maintained across asset lifecycles.

Information delivery is built into delivery processes

Clear processes, plans and governance arrangements are in place so that information is consistent, coordinated and transferable through delivery, handover and operations.



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Lead and own information outcomes

Clients and suppliers provide clear leadership and ownership of information requirements, responsibilities and outcomes across delivery and operations.

Principles

Clients define information needs in line with intended outcomes

Asset owners and clients set a clear strategic direction for information management, define outcomes required from projects and create the conditions for consistent delivery, handover and operations.

Ownership is clear across the delivery chain

Roles, responsibilities and decision-making authority for information management are explicit across clients, suppliers and operators, with ownership maintained from design through to operations.

Leadership aligns delivery and operations around shared information needs

Leaders align project delivery and operational teams around a shared set of information needs so that information created during projects supports long-term operational use and resilience.

Leadership of change is visible

Leaders champion information management, assign accountable owners and sustain momentum by setting priorities, governance processes and engagement initiatives so that new ways of working become standard practice.



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Build confidence and capability

Clients and suppliers provide clear leadership and ownership of information requirements, responsibilities and outcomes across delivery and operations.

Principles

Digital asset information is valued and used as part of everyday practice

Organisations expect good information to be created, shared and used routinely in day-to-day decisions and ways of working.

Capability is built at every level

Leaders, managers, specialists, and frontline teams all have the knowledge and confidence to work effectively with digital information.

Clients and suppliers are equipped to deliver

Client organisations and supply chains have the capability to meet digital information requirements consistently through delivery, handover and operations.

Confidence through use, learning, and collaboration

Teams understand the value of good information, trust it, and use it in day-to-day decisions. Clients, supply chain partners and industry bodies strengthen practice by actively sharing learning across organisations and the wider sector.

Benefits

The potential benefits resulting from this vision include:

Better productivity and value for money

Digital construction methodologies have achieved up to 40% reductions in unbudgeted change, up to 10% contract value savings through improved construction coordination, and a 7% reduction in overall project delivery time². Information management for infrastructure owners can secure between £6.90 and £7.40 in direct cost savings for every £1 invested³.

Better quality, fewer errors and less rework

Error reduction is a major driver for adoption. Norway reported costs due to change orders falling from around 19% of project value to below 8%⁴ by adopting a digital model-based approach to road construction.

Stronger operational performance and risk management

The Centre for Digital Built Britain also identified increased efficiency, reduced risk, improved compliance and enhanced resilience as benefits of Information Management.

Support for lifecycle and net zero outcomes

Information Management is a key enabler of whole-life asset management and net zero, with design and construction information underpinning methods to calculate embodied carbon, improve energy efficiency, and understand whole-life carbon footprints.

² [Building Information Modeling \(BIM\): Benefits, Risks and Challenges](#). Stanford CIFE

³ [The Value of Information Management in the construction and infrastructure sector](#). KPMG. Atkins.

⁴ Internal Report, Statens Vegvesen (Norwegian Public Roads Administration). [Summarised in this article](#)

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