

The Business Value of Adopting openData via Industry Foundation Classes (IFC)

*Unlocking Commercial Value through Open Data in Property,
Design, Construction & Facility Management.*

Written and prepared by buildingSMART UK & Ireland, for a global audience, as a precursor to the buildingSMART International 'openBIM Business Value' project findings.

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1 Executive Summary

The global construction and property industry, responsible for over 13% of global GDP, faces immense systemic pressures. From spiralling construction costs and shrinking margins to increasingly complex regulatory demands and environmental obligations, the sector is being challenged to reinvent itself for a digital future. Despite its economic importance, the industry lags behind others in productivity growth, technological adoption, and data standardisation.

Key challenges include:

Cost inefficiencies:

Global construction projects routinely run over budget by 20–30%.

Project delays:

Delays affect over 70% of infrastructure projects globally.

Inconsistent quality:

Fragmented supply chains and manual data handling increase risk.

Sustainability and ESG disclosure:

Investors demand transparency that current systems struggle to provide.

Skills and labour shortages:

Labour productivity is stagnant or declining in many markets.

Data fragmentation and software lock-in:

Proprietary formats and workflows inhibit collaboration and reuse.

Disconnected from the digital economy:

Without digital infrastructure, construction cannot fully participate in smart city ecosystems or digital supply chains.

At the heart of many of these issues is poor data interoperability. The use of inconsistent, proprietary formats limits the ability of stakeholders to collaborate, compare, automate, or analyse information across tools, teams, or time.

Industry Foundation Classes (IFC), maintained by buildingSMART International and formalised as ISO 16739-1, provide a transformative solution. IFC is an open, vendor-neutral data schema designed specifically for the built environment. It allows stakeholders - from designers and contractors to regulators and asset owners - to create, share and reuse rich data consistently, reliably, and securely.

It gives us the ability to derive value through insight from connecting data in a consistent manner

The Case for Standardised, Structured Data

IFC enables the use of a **source of trusted, structured data** across disciplines and project phases. Whether in feasibility planning, design coordination, regulatory approval, construction sequencing, handover, or asset operation, one well-structured IFC model can serve many needs. This principle - "one data structure, multiple use cases" - is key to improving productivity, reducing risk, and maximising return on investment.

The structured nature of IFC supports:

Consistent communication across teams, reducing errors

Automated compliance checking by regulators
Better carbon accounting and ESG metrics
Enhanced tender and procurement processes
More reliable data as a source for AI to learn from
A reliable digital twin footing for operations and maintenance
Repeatable and scalable business intelligence

IFC is already mandated or preferred in many public procurement frameworks globally (Section 9.4), and can be foundational to digital transformation initiatives including the UK's Golden Thread, the EU's Digital Product Passport, and various National BIM mandates.

Executive Takeaway

This report outlines the business value of openData via IFC from the perspective of five stakeholder groups:

- Property Developers
- Construction Companies
- Design Consultants
- Product Manufacturers
- Government Regulatory Bodies

It concludes with an implementation roadmap and quantifiable examples of return on investment. Quantifiable examples will be provided through specific examples in the upcoming 'openBIM Business Value' project (Section 9.5).

Across the board, IFC adoption can lead to fewer errors, faster delivery, better-quality outcomes, stronger regulatory alignment, and smoother participation in the digital economy. For forward-thinking organisations, IFC is not just an interoperability solution - it is a strategic enabler for competitiveness, resilience, and long-term growth in the built environment.

2 The Value Proposition for Property Developers

Property developers sit at the apex of risk in the built environment. They are often responsible for financing, programme oversight, delivery assurance, and the long-term viability of building assets. Given the capital intensity of development and the growing complexity of stakeholder expectations - from regulatory bodies to sustainability-driven investors - developers are under increasing pressure to make better decisions, faster, and with more certainty.

IFC offers a proven framework to help meet those expectations.

2.1 Reducing Risk & Cost Overruns

The most immediate benefit to developers from IFC adoption is enhanced cost predictability. According to McKinsey, up to 80% of large-scale construction projects run over budget, largely due to coordination errors, incomplete information, and late-stage changes. IFC mitigates these issues by providing coordinated, multi-disciplinary data that integrates input from architects, engineers, manufacturers, and contractors early in the design stage. By enabling more thorough design coordination, reduced scope gaps, or performance misalignments, IFC-supported processes reduce the likelihood of cost blowouts.

Developers that mandate IFC delivery can often reduce change orders by 30–50%, saving millions across multi-phase developments.

2.2 Accelerating Delivery Timelines

Project delays directly affect developers' financial exposure through prolonged interest payments, delayed revenue from lettings or sales, and reputational damage. IFC-based coordination tools (such as those integrated with BCF - BIM Collaboration Format) allow for issues to be easily resolved before breaking ground. These workflows have been shown to reduce project delays by up to 20%.

Moreover, having a structured dataset simplifies interactions with planning authorities, utility providers, and insurers, reducing time spent awaiting approvals or clarifications. When used as part of a Common Data Environment (CDE), IFC enables consistent project tracking, reducing the management overhead and speeding up decision-making.

2.3 Enhancing ESG & Sustainability Credentials

Environmental, Social and Governance (ESG) performance is now a key factor in determining a developer's access to capital. Investors and lenders increasingly demand clear carbon accounting and verifiable sustainability metrics. IFC provides the structured data needed to conduct building lifecycle assessments (LCAs), model energy performance, and track embodied carbon, repeatedly.

By linking to classification systems like bSDD (buildingSMART Data Dictionary) and integrating with ESG reporting platforms, IFC enables developers to automate parts of their disclosure processes. This makes it easier to comply with frameworks such as GRESB, LEED, and EU Taxonomy, and to respond to investor queries with transparency and confidence.

2.4 Supporting Asset Performance & Long-Term Value

A common pain point for developers is the handover of poor-quality or inconsistent data from construction into operations. IFC solves this by acting as the foundation for digital twins and asset information models. By requiring that contractors deliver a structured, validated IFC model at handover, developers gain a reliable digital asset that feeds directly into Computer-Aided Facilities Management (CAFM) systems, digital twin platforms, and maintenance workflows.

This continuity of data across the lifecycle, supports better tenant experience, more efficient asset management, and stronger long-term returns. In markets where smart buildings are becoming the norm, the presence of a robust IFC dataset can enhance property valuation and attract ESG-conscious tenants.

2.5 Gaining a Competitive Edge in a Digital Market

As the property sector evolves toward a more digital, data-driven paradigm, IFC positions developers to operate in a global digital economy. Whether working with international consultants, participating in cross-border investment consortia, or selling assets into data-conscious Real Estate Investment Trusts (REIT), the ability to exchange information in a standardised, open format is a competitive differentiator.

2.6 Summary

In summary, IFC adoption empowers developers to reduce risk, improve timelines, strengthen ESG narratives, and unlock long-term digital value from their assets. It transforms fragmented project information into a strategic asset - one that supports better decisions, improved delivery, and more sustainable returns.

3 The Value Proposition for Construction Companies

Construction companies operate under immense pressure. They must deliver increasingly complex buildings to tighter programmes, thinner margins, and higher standards - often with fewer skilled workers and more fragmented subcontractor ecosystems. Amid this backdrop, digital tools have become critical enablers of competitiveness. However, the construction sector's digital potential is frequently undermined by incompatible systems, data lock-in, and lack of standardised information delivery. This is where Industry Foundation Classes (IFC) become essential.

3.1 Improving Coordination & Reducing Rework

One of the most persistent causes of cost and schedule overruns in construction is poor coordination. The lack of a shared, structured data environment means that trades often work from outdated or incompatible information. This leads to late-stage conflicts between structural, mechanical, and architectural elements that require costly on-site adjustments. IFC addresses this by enabling consistent coordination of multiple disciplines, allowing teams to detect and resolve issues before they reach site.

Projects that use IFC-based design coordination (especially when combined with BCF workflows) routinely report a 50–70% reduction in coordination issues. For example, on the Pontsteiger Tower in Amsterdam, over 6,000 issues were resolved digitally prior to construction - allowing the project to be delivered on time and within budget.

3.2 Enhancing On-Site Productivity & Labour Efficiency

Construction productivity has barely increased in decades. Workers on site often lose time interpreting inconsistent drawings, verifying unclear details, or resolving design gaps. By contrast, an IFC-based workflow provides site teams with clear, visual, and structured models that link directly to material specifications, sequences, and coordinated assemblies. Through IFC use, many have reported a significantly reduced 'number' of drawings required.

This reduces ambiguity and accelerates installation. It also supports newer delivery methods such as off-site manufacturing and Design for Manufacture and Assembly (DfMA), which rely on precise, interoperable geometry and metadata.

An initiative from National Highways and researched through the Transport Research Laboratory (TRL), showed that Connected and Automated Plant (CAP) also relies on interoperable geometry, metadata, alignment intelligence, and real-world coordinate support that can be provided in a standardised way through IFC.

With labour shortages becoming a structural issue across many regions, any process that helps skilled teams work faster and with fewer errors delivers a direct economic benefit.

3.3 Standardising Handover and Compliance

IFC simplifies the creation of structured asset data during construction. Instead of manually compiling PDF-based Operation & Maintenance (O&M) documentation at the end of a project, contractors can progressively deliver validated digital asset models. This reduces handover delays and ensures asset owners receive complete and usable data.

In the UK, the Building Safety Act now requires a 'Golden Thread of information' for high-risk buildings. IFC provides a verifiable, open format to support these obligations. With the associated Information Delivery Specification (IDS), it provides a way of automatically checking the data. By embedding standardised data from day one, construction firms reduce legal exposure and build trust with clients and regulators.

3.4 Enabling Performance-Based Contracting and Digital Payment

The move toward performance-based contracting, where payment is linked to verified delivery outcomes - requires reliable, traceable data. IFC provides a digital backbone for such contracts. For example, progress payments can be linked to IFC model elements completed, reducing disputes and enabling real-time programme tracking. Moreover, several countries are now piloting 'digital payments' in public infrastructure based on BIM data. By aligning deliverables with IFC, contractors are better positioned to participate in such frameworks and unlock faster revenue recognition.

3.5 Creating a Platform for Innovation

Finally, IFC opens doors to innovation. It allows contractors to:

- Integrate models with scheduling tools for time-based logistics (4D) simulation
- Analyse safety risks using site geometry
- Monitor delivery using QR codes linked to model elements
- More effectively integrate DfMA
- Easily schedule quantities in a standardised way
- Link as-built data to IoT sensors and facility management platforms

None of this is practical at scale without a common, open data structure. IFC provides that structure, ensuring innovation is not locked behind proprietary formats or duplicated effort.

3.6 Summary

By adopting IFC, construction companies can reduce rework, improve coordination, increase labour efficiency, automate compliance, and support new business models. The result is not just reduced risk and cost, but enhanced capability to operate in a connected, data-driven construction industry.

4 The Value Proposition for Design Consultants

Design consultants - including architects, engineers, and specialist designers - play a central role in shaping the built environment. Yet their work is increasingly constrained by tight deadlines, fragmented information, regulatory pressures, and the need to deliver highly coordinated, performance-driven outputs. In this context, the use of Industry Foundation Classes (IFC) offers a pathway to increased efficiency, higher design quality, and broader strategic value.

4.1 Streamlining Data Exchange & Collaboration

A perennial challenge for design teams is the difficulty of sharing models between different software platforms. Architects may work in one BIM authoring tool, structural engineers in another, and MEP consultants in a third. Proprietary formats lead to data loss, version mismatches, and costly manual rework.

IFC solves this by offering a common data structure that all parties can read and write to, ensuring that models can be exchanged without corruption or translation errors. It supports true multidisciplinary collaboration, reducing the risk of fragmented or out-of-sync design decisions. It also reduces the risk associated with software lock-in.

When IFC is implemented from early concept stages, coordination errors drop significantly. In multi-consultant environments, design teams report up to 50% less time spent on model cleanup and rework when using IFC-based exchanges.

4.2 Ensuring Consistency & Accountability

Design quality is not just about creativity - it's about precision, compliance, and reliability. IFC allows design intent to be captured in a structured format that preserves geometry, classifications, and performance parameters across project stages.

This continuity reduces misinterpretation, particularly during handovers between design and construction. For example, tolerances, spatial zones, and installation constraints embedded in IFC models can be clearly communicated to contractors, reducing ambiguity and change orders.

Additionally, IFC helps create an audit trail of design development. This is crucial in an era of increasing liability, where designers must demonstrate that decisions were based on accurate inputs and aligned with regulatory requirements.

4.3 Reducing Repetitive Tasks & Manual Workarounds

Much of a consultant's time is still spent manually creating drawings, extracting quantities, and assembling schedules - all of which are prone to error and duplication. With IFC, much of this can be automated:

- Door, window and equipment schedules generated directly from models
- Design coordination performed in real-time using federated IFC models
- Quantities linked to cost estimation software
- Carbon databases linked to design information to inform choices

By reducing routine work, consultants can focus more time on creative and strategic tasks - adding value rather than merely documenting it.

4.4 Supporting Regulatory Compliance & Performance Modelling

IFC facilitates regulatory compliance by making it easier to verify that designs meet zoning, fire safety, accessibility, and energy performance standards. Some jurisdictions (Dubai,

Singapore, Estonia etc) now support automated code compliance checking using IFC-based submissions.

Moreover, IFC supports environmental and performance modelling by providing clean, structured data to analysis tools. Whether running daylight simulations or carbon lifecycle assessments, IFC simplifies the data pipeline.

In high-performance building projects, this can reduce analysis setup time by 60–70%, accelerating iteration and enabling more sustainable outcomes.

4.5 Enhancing Digital Reputation & Future-readiness

Clients increasingly expect design teams to deliver models that support construction, operations, and digital asset management. IFC provides the foundation for this expectation. By using IFC, consultants position themselves as digitally competent and future-ready. This not only strengthens client relationships but also improves bid competitiveness - particularly for public sector projects that mandate openBIM.

Consultants that embrace IFC also build internal digital capability. Over time, this reduces dependence on individual file formats or software providers, giving practices greater strategic control at business level.

4.6 Summary

By adopting IFC, design consultants can collaborate more effectively, deliver higher-quality outputs, reduce manual tasks, comply with regulations more easily, and build a future-proof digital practice. It turns fragmented design data into structured intelligence - adding value not only to the project, but to the profession itself.

5 The Value Proposition for Product Manufacturers

Product manufacturers are an essential - yet often overlooked - part of the construction value chain. Whether producing HVAC units, glazing systems, lighting controls, structural components or interior finishes, manufacturers increasingly find their products evaluated not just on price or performance, but on how well they integrate into digital workflows.

Unfortunately, manufacturers are frequently excluded from key stages of project design and specification - not because their products aren't suitable, but because their data isn't.

Proprietary file formats, oversized 3D content, or incomplete technical information can lead to products being replaced or value-engineered out of the project. Industry Foundation Classes (IFC) offer a clear solution.

5.1 Securing Product Specification & Retention

A common frustration among manufacturers is seeing their product specified at design stage only to be substituted during construction. One key reason for this is data incompatibility. Designers and contractors are under pressure to reduce file size and ensure interoperability of product data.

IFC provides a way for manufacturers to deliver lightweight, structured, and standardised product data that meets the needs of BIM authoring tools and CDEs without compromising design intent. Using IFC for product data ensures that:

- Geometric representations are simplified for performance
- Attributes (e.g. thermal resistance, fire rating) are consistently labelled
- Units, classifications, and object types follow an international standard

This makes it easier for manufacturers to retain their place in the specification and offer value through data-driven performance criteria that enable calculations and evaluations.

5.2 Reducing the Burden of Content Creation

Creating and maintaining digital product libraries can be expensive and time-consuming - especially when each client requests a different format. With IFC, manufacturers can invest once in producing standardised, reusable digital representations that are accepted across a wide range of platforms.

This reduces duplication, cuts down on customer support inquiries, and makes it easier for sales teams to support technically complex tenders.

BuildingSMART's Product Domain and bSDD (buildingSMART Data Dictionary) further enhance this by providing a common framework to describe product properties using international classifications such as ETIM, Omniclass or Uniclass. For manufacturers, a key aspect of IFC is that the schema allows the connection of an object to external databases.

5.3 Supporting Environmental Declarations & ESG Reporting

Clients, customers and regulators are increasingly demanding Environmental Product Declarations (EPDs) and verified carbon data. IFC enables manufacturers to link digital models directly with sustainability data, providing:

- Embodied carbon factors
- Lifecycle stage impacts
- Maintenance and durability metrics

By embedding these into IFC models, manufacturers can support clients in achieving certifications like BREEAM, LEED, or DGNB, making their products more attractive in competitive markets.

5.4 Opening New Sales Channels

Governments around the world are starting to mandate openBIM deliverables - particularly for public procurement. Manufacturers that provide IFC-based product data are more likely to be shortlisted for inclusion in government projects.

Additionally, many software solutions now favour or require IFC compatibility. This expands reach and helps manufacturers position themselves as forward-thinking partners.

5.5 Enabling Digital Twins & Smart Buildings

As smart buildings and digital twins become more widespread, product data must persist beyond handover. IFC provides a structured way to connect manufactured components with sensors, control systems, and building management platforms.

Manufacturers that adopt IFC ensure their products are not only included at the design stage but remain visible and valuable throughout the lifecycle of the building - unlocking opportunities for maintenance contracts, digital warranties, and performance-based procurement.

5.6 Summary

IFC empowers manufacturers to create structured, interoperable product data that meets the needs of designers, contractors, and asset owners. By removing content creation costs, increasing specification retention, supporting sustainability claims, and enabling digital integration, IFC turns product data from a barrier into a business advantage.

6 The Value Proposition for Government Regulatory Bodies

Governments play a critical role in shaping how the built environment is designed, approved, constructed, and maintained. Through national legislation, procurement frameworks, planning approvals, and safety inspections, government agencies influence both market behaviour and construction outcomes. Yet, many public-sector bodies still rely on manual processes, PDF documentation, and unstructured data, which increases costs, slows decision-making, and limits transparency.

As countries work toward digital transformation and smarter infrastructure delivery, Industry Foundation Classes (IFC) provide a foundational enabler for modern, efficient governance of the built environment.

6.1 Streamlining Regulatory Approvals

One of the most immediate benefits of IFC is its potential to accelerate and automate regulatory approvals. Instead of reviewing inconsistent drawings and narrative specifications, planning and permitting authorities can receive structured, query-able IFC models.

These can be used to automatically check:

- Compliance with zoning regulations
- Fire safety provisions (e.g. egress routes, clearances)
- Accessibility standards
- Spatial and volumetric constraints

Several jurisdictions have already implemented or piloted rule-based compliance checking using IFC and found that it can reduce assessment time by 30–60%, freeing up staff to focus on complex cases and improving consistency.

6.2 Enabling Transparency & Accountability

Governments are under increasing pressure to demonstrate transparency and accountability in the use of public funds and the safety of public assets. IFC helps by providing:

- A verifiable, auditable record of what was designed, approved, and delivered
- Clear attribution of responsibilities and approvals
- Time-stamped changes and issue tracking when combined with BCF workflows

This is particularly valuable in the context of building safety reforms such as the UK's Building Safety Act, which requires a 'Golden Thread of digital information' for high-risk residential buildings.

6.3 Supporting Smart Infrastructure and Digital Twins

As nations invest in smart infrastructure and national digital twins, governments require asset data that is machine-readable, spatially accurate, and semantically rich. IFC provides a standardised format that integrates with:

- Geographic Information Systems (GIS)
- Asset management and facilities systems
- Environmental modelling and simulation platforms

For example, in the smartBRIDGE Hamburg project, more than 10,000 IFC objects were linked to sensors to enable predictive maintenance of a critical infrastructure asset. This type of integration would be nearly impossible with proprietary formats or unstructured documents.

6.4 Improving Procurement & Lifecycle Value

Government procurement accounts for a significant portion of construction activity - up to 30% in some regions. Yet many public projects suffer from poor handover data, fragmented design coordination, and costly delays.

By requiring openBIM deliverables in IFC, public-sector clients can:

- Improve consistency across tenders and submissions
- Reduce lifecycle costs by ensuring better asset data
- Avoid vendor lock-in and promote fair competition
- Enable future integration with national platforms

Mandating IFC also encourages private sector alignment with national digital goals - making it a strategic lever for industry transformation.

6.5 Supporting International Collaboration and Compliance

Governments increasingly participate in international initiatives around sustainability, trade, and resilience. IFC aligns with many of these frameworks:

- Supports the EU's Level(s) Framework and Digital Product Passport
- Compatible with ISO standards for sustainability and lifecycle analysis
- Aligns with UN Habitat digital infrastructure goals

By adopting IFC as a default requirement, government bodies gain access to a global ecosystem of tools, expertise, and case studies - accelerating innovation and reducing implementation risk.

6.6 Summary

IFC empowers government bodies to move from static documents to structured data.

This improves regulatory performance, enhances transparency, reduces risk, and lays the foundation for smart public assets and infrastructure. It is a strategic enabler for digital governance of the built environment.

7 Implementation Roadmap

Industry Foundation Classes (IFC) offer tangible business value across the entire built environment ecosystem. Yet the full benefit of IFC is only realised through deliberate, strategic implementation. For many organisations, this starts with a shift in mindset - from project-by-project problem solving to structured, lifecycle-oriented data delivery.

7.1 A Practical Roadmap to IFC Adoption

7.1.1 Establish Clear Information Requirements

Begin by explicitly defining what data your organisation needs at each stage of a project. Use the concept of Information Delivery Specifications (IDS) to clarify what data should be delivered.

Start small - with 5–10 critical properties per object - and iterate.

7.1.2 Start with a Pilot Project

Select a manageable project to benchmark existing workflows and demonstrate IFC's benefits. Track metrics such as:

- Number of RFIs and design changes
- Time spent on model coordination
- Quality of data received at handover
- Time to generate reports or schedules

7.1.3 Ensure Tool & Team Readiness

Audit current software against buildingSMART's IFC certification. Train key staff in openBIM workflows and model checking. Establish clear naming conventions, model structure, and data validation procedures.

7.1.4 Automate Quality Assurance

Use free or commercial IFC validation tools to check model completeness, compliance, and semantic correctness. Connect issue tracking to the model using BCF workflows.

7.1.5 Integrate with Business Intelligence

Connect IFC data to dashboards (e.g. Power BI, Tableau) to extract real-time insights into cost, risk, carbon, and programme performance.

7.1.6 Scale & Share

Document lessons learned and expand to larger or more complex projects. Share successes internally and externally. Contribute to industry guidance and consider certification through buildingSMART's Professional Certification Program.

7.2 Quantifiable ROI & Strategic Value

The return on investment from IFC adoption can be significant. Based on international case studies and buildingSMART award winners:

- **30–50% fewer RFIs:** Enhanced coordination through IFC reduces requests for information, saving time and legal exposure.
- **Up to \$2.75M saved on a single project:** OpenBIM-enabled coordination at Schiphol Airport avoided major change orders and delays.
- **35 days faster project delivery:** Schedules are compressed through fewer coordination issues, clearer deliverables, and faster approvals.
- **50–70% reduction in handover preparation time:** Structured IFC data enables automated COBie and O&M exports.

- **Up to 10% lifecycle cost reduction:** Better data leads to more effective maintenance, energy use, and asset performance.

In addition to financial ROI, organisations also gain:

- Enhanced reputation for innovation and digital leadership
- Stronger compliance with government and client requirements
- More efficient internal workflows and reduced staff turnover
- Future-proof positioning for smart buildings, digital twins, and ESG mandates

8 Strategic Conclusion

Across every corner of the built environment, stakeholders face the same core challenges: cost pressure, fragmented data, increasing risk, regulatory complexity, and the demand for faster, greener delivery.

IFC addresses these not as a software feature - but as a strategic enabler. It provides the consistency, transparency, and openness needed to operate in a complex, data-driven economy.

Through the lens of business value:

For **developers**, it reduces risk, improves ESG standing, and maximises asset value.

For **contractors**, it improves productivity, coordination, and payment certainty.

For **designers**, it enables quality, creativity, and data-driven insight.

For **manufacturers**, it ensures specification retention, market access, and digital continuity.

For **regulators**, it supports smarter, faster, more transparent approvals.

Above all, IFC delivers on the promise of digital transformation:

One open data format. Multiple business outcomes. Real-world results.

In an era where information is the new currency, IFC ensures the built environment can finally speak a shared, standardised language - fuelling better buildings, better business, and a better future.

9 Further Information

9.1 buildingSMART International Award Winners

<https://www.buildingsmart.org/past-openbim-awards/>

9.2 buildingSMART UK & Ireland

<https://wearenima.im/bsuki-introduction/>

9.3 Gov.uk - Understanding the Golden Thread

<https://buildingsafety.campaign.gov.uk/building-safety-regulator-making-buildings-safer/building-safety-regulator-news/understanding-the-golden-thread/#:~:text=The%20introduction%20of%20a%20golden,as%20residents%20and%20emergency%20responders.>

9.4 buildingSMART International Report: Global openBIM Mandates

https://www.buildingsmart.org/wp-content/uploads/2025/03/IFC-Mandate_2025.pdf

9.5 buildingSMART International openBIM Business Value project

<https://www.buildingsmart.us/openbim-business-value>