

buildingSMART CANADA **NEWSLETTER**



**WINTER
2024**

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Reflecting on Our Achievements Building a Smarter Future for Canada

As we close another transformative year, I am filled with pride reflecting on the accomplishments of buildingSMART Canada. This past year has been marked by significant progress in advancing openBIM initiatives and fostering stronger connections within our industry, both nationally and globally.

Two key accomplishments were the release of reports for the National Research Council. First, the **Open BIM Implementation for Canada's Road Map**, earlier this year, a benchmark of BIM adoption in Canada and openBIM implementation internationally. This report has already become a go-to reference for practitioners and policymakers across the country. Second, the recent release of the **Digital Construction Platform Report**, which aims to digitalize processes and offer services to Canadian built asset industry stakeholders by providing standardized frameworks to facilitate desired outcomes and identify essential services and resources to support them.



Claudia Cozzitorto
President, buildingSMART Canada

Earlier this year, we launched the **Members Portal and Digital Library**, a hub for Canadian professionals to access invaluable resources, including reports, tools, and media content. This initiative underscores our commitment to supporting our members with up-to-date knowledge and practical guidance.

The buildingSMART Canada streams at two major events; **Geomatics Expo** in Calgary and the **Geolignite Conference** in Ottawa, allowed us to make steps to bridge BIM and GIS domains, fostering collaboration and innovation across these domains. We also made great strides in education and certification. The **Foundation Certification Program** has grown significantly, this growth ensures that more Canadian professionals are equipped with the knowledge and skills needed to implement openBIM standards effectively.

Finally, I want to extend my heartfelt gratitude to our outgoing long-standing board members, Bill Moore and Susan, for their visionary leadership and immense contributions over the years, both mentors to me, their dedication has been instrumental in shaping the organization we are today.

None of this would be possible without the unwavering support of our members, volunteers, and partners. Together, we are building a smarter, more connected, and resilient Canada. I look forward to working with all of you as we tackle the opportunities and challenges of the year ahead.

Here's to an exciting year ahead as we continue building smarter, together!

Warm regards,
Claudia Cozzitorto
President, buildingSMART Canada

A Message from the Board of Directors



2024 has been a transformative year for buildingSMART Canada (bSC). Our organization has been diligently implementing critical changes to transition from a primarily volunteer-based structure to a self-sustaining entity. This evolution includes the capacity to contract internal operations to a service provider, ensuring greater continuity and stability.

With the growing success of our project delivery initiatives, bSC recognized the need for operational enhancements to strengthen transparency, accountability, and conflict-of-interest guidelines. These measures are vital as we align with the evolving requirements of government and industry.

The Board of Directors is pleased to announce that Claudia Cozzitorto to lead buildingSMART Canada as its new CEO. Claudia's unanimous appointment by the Board is a testament to her vision, dedication, and exceptional contributions to bSC. As CEO, Claudia brings extensive expertise and a proven track record of fostering collaboration, driving innovation, and achieving measurable outcomes for the organization. While we regretfully accepted Claudia's proposal to resign as a Director of the Board to assume this new role, we are confident that her leadership as CEO will propel bSC to even greater heights. Congratulations Claudia.

The Board of Directors is also pleased to announce the elected board leadership for 2025:

- President: John Hale
- Vice President: Patrick Lalonde
- Treasurer: David Watson
- Secretary: John Paul Ventrella

As we look ahead to 2025, the Board remains committed to advancing our mission and seizing the opportunities that lie before us. We invite you to join us as we continue to grow and make a difference in the industry.

Sincerely,

The Board of Directors
buildingSMART Canada

Welcome New Members to the Board

John Paul Ventrella



John Paul has significant experience representing both Plaintiffs and Defendants in a wide range of legal matters involving construction related disputes, shareholder disputes, oppression remedy claims, real property claims, professional liability, and employment litigation.

While John Paul has a proven track record of being effective in the Courtroom, his clients appreciate his ability to resolve matters in an efficient and cost-effective way, whenever possible, through negotiation and alternative dispute resolution.

Prashant Shukle



Prashant Shukle is the Director General of the Canada Centre for Mapping and Earth Observation, one of the Government of Canada's lead organizations in the area of Earth Observations, Geographic Information Systems, and Geospatial Data and Service Solutions.

Mr. Shukle is also responsible for the GeoConnections program, which is responsible for ensuring Canadians are among the world's leaders in using and sharing all forms of geospatial data and enabling its use seamlessly with a variety of technologies, and across multiple industrial applications. He is also accountable for the Natural Resources Canada chain of satellite receiving stations, one of which is located at Inuvik and is strategically positioned to make Canada a geospatial data and technology destination for the world.

Dr. Stephen Fai



Dr. Fai is a well-respected academic in the areas of Heritage Scanning, BIM, Digital Twins, Digital Fabrication and Digital Storytelling. Stephen Fai is the Director of the Carleton Immersive Media Studio (CIMS), a research centre dedicated to the advanced study of innovative, hybrid forms of representation that can both reveal the invisible measures of architecture and animate the visible world of construction.

At CIMS, Fai explores an ongoing project around "Imagining Canada's Digital Twin" is an important example of the applied innovation work coming from this lab. Fai is also an associate professor in the Azrieli School of Architecture and Urbanism in the research-intensive Faculty of Engineering and Design, where he teaches in the design studio and in the PhD program.

Re-Elected Members to the Board

Dr. Erik Poirier



Dr. Poirier is an academic with L'École Technologie Supérieure (ÉTS) in Montreal. He is a founding member of buildingSMART Canada and has served on the Board throughout. Erik participates in international standards development through ISO, CEN, bSI and OGC, including as Chair of the SCC Mirror Committee for ISO TC59/SC13.

Erik's leadership and strategic advice to the Board and the executive is highly valued. Erik regularly makes connections for bSC and promotes open standards through his research projects and teaching role. Erik has been a key contributor to the bSC Affiliates program, particularly the Group BIM du Québec.

John Hale



John Hale is a founding member of buildingSMART Canada and currently sits on the Board. He has served in various leadership positions and strives to bring his passion to the table for better industry results.

John has spent his career within the federal government. His background with GIS and geospatial business processes is the cornerstone of his engagement in BIM, including participation on the OGC joint working group for GIS & BIM integration.

Thank You! Nominations Committee

The Nominations Committee conducted a thorough review of candidates for the Board of Directors. This process included examining CVs to evaluate qualifications and alignment with organizational needs, followed by interviews to explore candidates' motivations and commitment. This comprehensive evaluation ensures that only the most qualified and mission-driven individuals are considered, reinforcing the organization's commitment to success.

Thanking Outgoing Board Members

2024 marks a significant milestone for the board of directors of buildingSMART Canada with two of its founding members stepping down after over a decade of hard work and dedication to the organization's mission. Indeed, it is with tremendous respect that the buildingSMART Canada board says thanks to Susan Keenlside and Bill Moore, as they both have decided to move on to focus on personal projects, while giving the opportunity to others to participate on the buildingSMART Canada board of directors.



Bill Moore

Bill Moore is a founding board member, having served buildingSMART Canada since its foundation in 2011. He acted as the President of the Board of directors from 2017 to 2023 and was heavily involved in the Institute for BIM in Canada, acting as its Chair from 2015 to 2018. In addition, Bill was heavily involved within buildingSMART International, acting as its Treasurer and member of the board of Director from 2016 to 2022. This involvement was recognized with Bill being named as one of bSI's first Fellows.

Bill has greatly contributed to the advancement of BIM in Canada, actively participating in the ISO TC59 / SC13 Mirror Committee for the Standards Council of Canada for several years and participating in the development of the Canadian Annex to ISO 19650 part 2. He is also the chairman and founder of the Calgary BIM Community, having established one of Canada's first BIM communities in 2007. We sincerely thank Bill for his commitment to buildingSMART Canada and for his hard work in supporting the advancement of BIM in Canada.

Thanking Outgoing Board Members



Susan Keenlside

Susan Keenlside is a founding board member, having served buildingSMART Canada since its foundation in 2011. She is one of the founding members, having participated in the initial discussions to establish the Canadian chapter of buildingSMART. She has been heavily involved in both the chapter as well as within the international community, acting as a great ambassador for Canada at the international level, namely leading the buildingSMART International Awards for several years. Due to this involvement and vision, Susan has been recognized amongst the first buildingSMART International Fellows.

Susan was one of the initial members of the Technical Advisory Committee for the Institute for BIM in Canada (2010-2014) and a member of the ISO TC59 / SC13 Mirror Committee for the Standards Council of Canada since 2013. Susan has greatly contributed to the advancement of BIM in Canada, namely actively participating in the development of the Canadian Practice Manual for BIM and acting as the academic coordinator for the Algonquin College BIM Lifecycle Management Graduate Program from 2013 to 2019. We thank Susan wholeheartedly for her passion and dedication to the advancement of BIM in Canada and her support for buildingSMART Canada.

Digital Construction Platform

The National Research Council of Canada (NRC) has collaborated with buildingSMART Canada to define its Digital Construction Platform (DCP) and develop a research and development (R&D) roadmap to deliver it. The primary objectives of the NRC DCP project are:

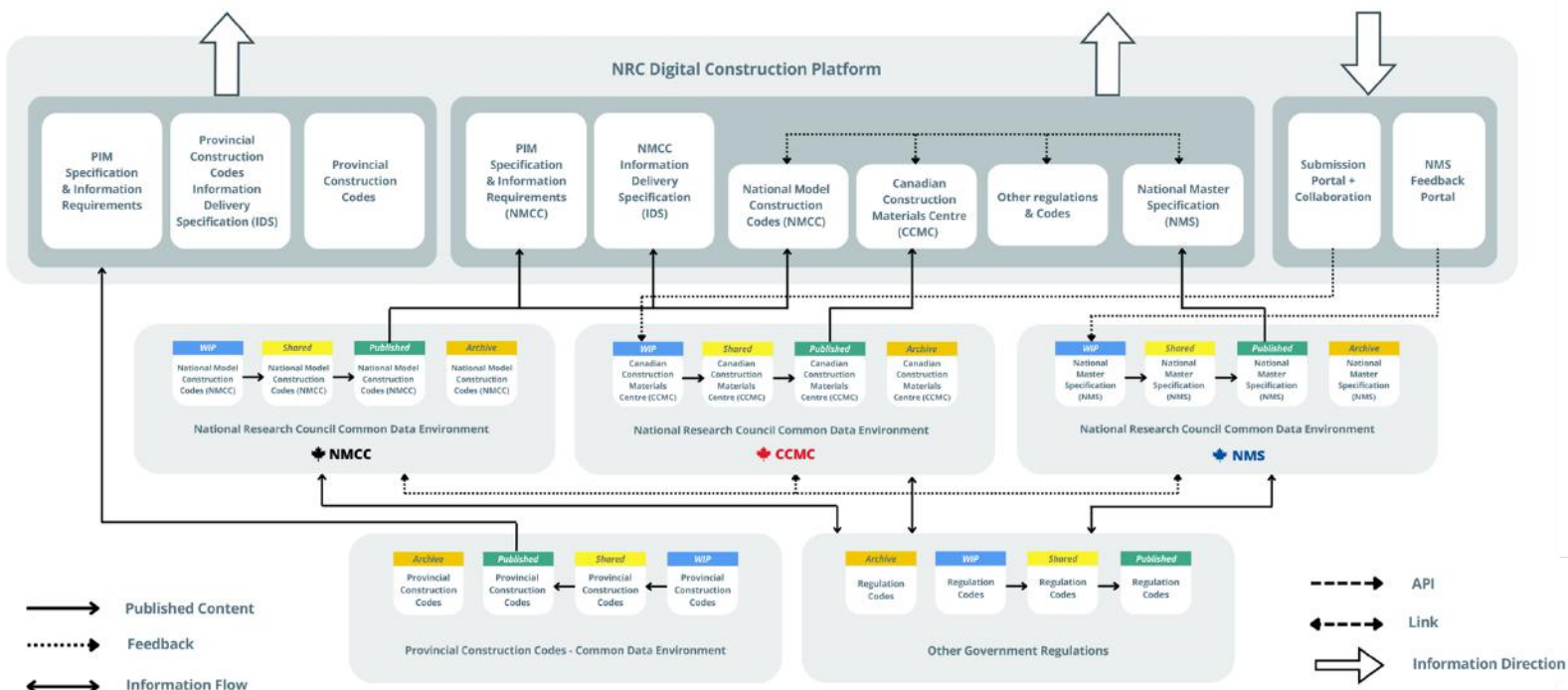
- To develop a robust digital infrastructure that supports the management and dissemination of construction codes, standards, and specifications in digital and machine-readable formats.
- To enhance interoperability among various digital tools and platforms used by industry professionals, regulatory bodies, and government agencies.
- To promote sustainability through the integration of decarbonization strategies within the construction sector.
- To streamline regulatory compliance processes using automated tools and enhanced collaboration features.
- To promote and enable collaboration across NRC departments while centralizing and ensuring access to key resources.
- To establish a foundational architecture and resource pool for the development of interoperable platforms and software tools within the Canadian built asset industry.



Read the full report here 

The report includes a high-level overview of current work in digital ecosystems for the built asset industry, as well as machine-readable building codes, automated code compliance checking, and e-permitting. A current state analysis of NRC's three key resource areas for the construction sector: the National Master Construction Codes (NMCC), the National Master Specifications (NMS), and the Canadian Construction Materials Center (CCMC) evaluations, focuses on their development and dissemination processes. The report presents the NRC DCP's target state across its three tiers: the Common Data Framework, the Digital Ecosystem, and the Digital Services and Functions, illustrated through specific user scenarios. The platform's requirements are discussed throughout. Finally, the report outlines and discusses the R&D roadmap and implementation plan.

The report is significant as it lays out a plan to deliver a digital ecosystem, the DCP, to enhance the efficiency, transparency, and sustainability of the Canadian built asset industry. The proposed DCP is designed to be modular and scalable, leveraging widely accepted resources, standards, and services to ensure a robust and interoperable ecosystem. Once deployed, the NRC DCP will enhance the efficiency, transparency, and sustainability of the Canadian built asset industry. Key outcomes of the DCP include the successful integration of digital specifications, automated compliance checking, and improved data management practices. The DCP will facilitate better stakeholder collaboration and support the decarbonization goals of the construction sector.



bSC Strategic Priorities 2025

Modernize BIM Contract Documents Package

- **Guidance Document**
- **IBC 100-2014** (BIM Contract Appendix)
- **IBC 201-2014** (Level of Development and Authorized Uses)
- **Model Element Table**



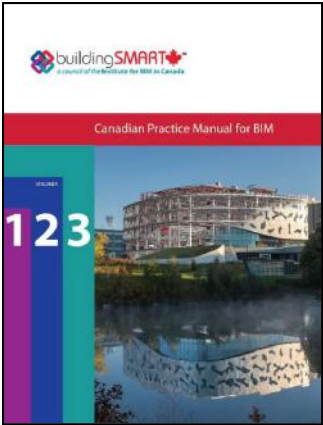
The contract appendix, originally created in 2014, was developed by practitioners and legal experts to outline requirements for building information modeling (BIM) and digital delivery. Although it remains a valuable document, it needs updating to reflect current industry standards, definitions of information levels, and the influence of ISO19650. The appendix includes a level of development table, which can be used alongside or instead of industry LOD tables in BIM execution plans. The goal is to update, normalize, and make the appendix applicable across the industry.

ISO 19650 Guidance

While international standards like ISO 19650 are valuable, making them relevant and understandable for Canada is crucial. This involves adapting global nomenclature to local terms like client, consultant, and contractor. The challenge in Canada includes addressing provincial differences to create a truly Canadian guidance document. The mission is to integrate ISO 19650 into everyday dialogue and communication in Canada, as part of the next bSC roadmap. This roadmap involves six core streams: engage, develop, educate, deploy, evaluate, and sustain. It is a continuous process that acknowledges past achievements, changes, and future goals, requiring regular updates and planning.



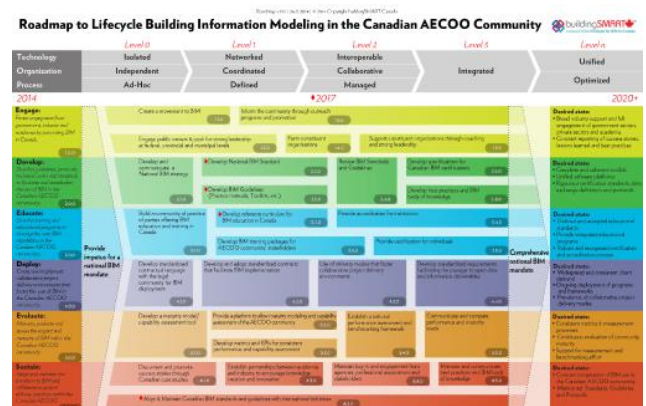
Updates to The Canadian Practice Manual for BIM



The Canadian Practice Manual for BIM by buildingSMART Canada is a comprehensive guide designed to support the broad adoption of Building Information Modeling (BIM) in the Canadian architecture, engineering, construction, owner, operator, and municipality (AECOOM) sectors. This manual provides a general background on the uses and benefits of BIM and offers detailed guidance on how to implement BIM within organizations and across collaborative projects. Although this knowledge base has been documented, but it needs updating to stay current with changing times, technologies, and capabilities. Open BIM is recognized globally, and the challenge is to integrate it into Canadian practices. This involves rationalizing its use in applications, model purposes, lifecycle delivery, and operations to create a valuable reference for Canadian practitioners.

Roadmap for BIM

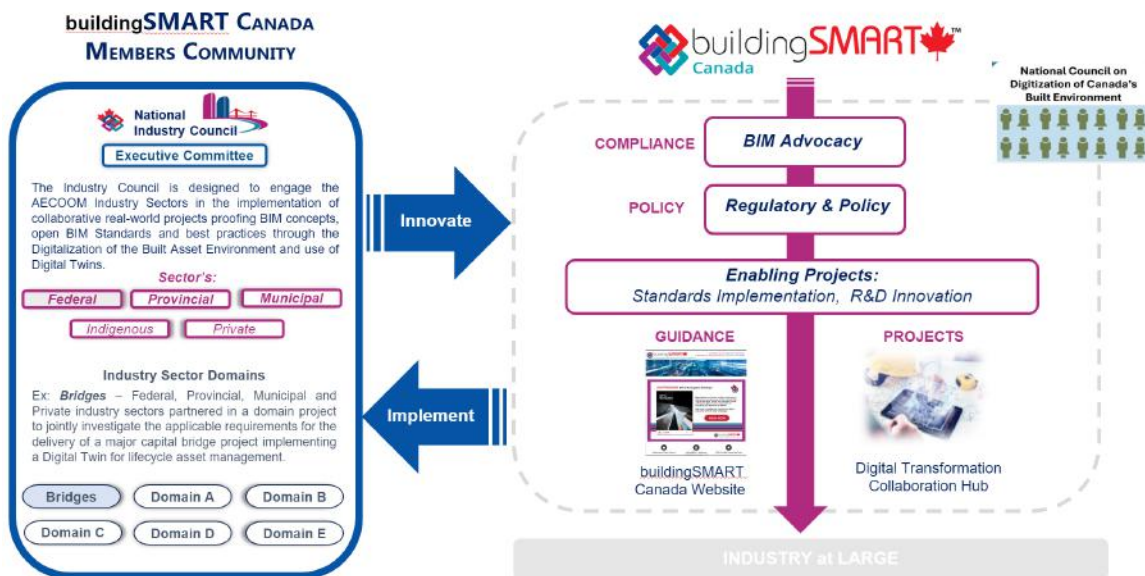
The AEC industry in Canada must digitally transform to improve its performance and contribution to societal, environmental, and economic development. To achieve this, more collaborative approaches to project delivery using BIM tools, technologies, and processes are necessary, aligned with similar global initiatives. That's why we've developed this BIM roadmap to prompt, guide, and sustain this transformation. The roadmap is seen as a continuous, never-ending guidance path for the industry's growth. It aims to acknowledge past achievements, recognize changes, and set future goals. This roadmap needs to be regularly revisited and updated to remain relevant and effective over time.



National Industry Council

The National Industry Council program aims to implement projects by engaging industry, academia, and Building Smart. The program faced three main challenges: restructuring the organization to address project requirements, structuring membership to be integral to projects, and ensuring effective project delivery. The concept involves engaging various sectors (federal, provincial, municipal, First Nations) through a domain process, starting with the bridges domain.

The first project, the Bridges project, involved significant collaboration with government levels and highlighted common challenges and requirements across organizations. The roadmap includes infrastructure R&D, procurement guidelines, use case developments, and integration projects.



Infrastructure Roadmap Develop a comprehensive infrastructure roadmap with input from all government levels.

BIM for Bridges Procurement Guidelines Develop and disseminate clear guidelines for BIM procurement processes.

Use Case Development Create and document detailed use cases for BIM across the asset lifecycle.

Integration Projects Launch projects focusing on developing needed resources for the integration of BIM with GIS and improving information exchange processes.

Subject Mater Experts

buildingSMART Canada aims to address the need for delivering various projects within a mainly volunteer-based organization by contracting work to ensure high-quality service delivery. This involves creating a roster of subject matter experts (SMEs) and developing a fair, independent, and transparent process for managing projects. A committee has been formed and is working on establishing project requirements, processes, and templates, with plans to call for interested SMEs soon. The goal is to build a robust structure that allows for efficient and effective project delivery, leveraging the expertise of SMEs to meet the evolving needs of the industry. Stay tuned for more info coming in 2025 on how you can get involved.



**it's that time
join or renew**

**bSC
Membership**

Become a member of the bSC Community



We are updating our membership to give members more!

Our members are the heart of buildingSMART Canada. To ensure maximum value and engagement as we grow, we're updating our membership structure in 2025 to align better with our mission of leading open data standards adoption for Canada's digital transformation.

This new structure is designed to provide enhanced benefits and opportunities for our members, including increased access to cutting-edge resources, exclusive industry insights, and greater networking possibilities. By refining our membership tiers, we aim to cater to a diverse range of professionals and organizations who share our vision of fostering innovation through open data standards. Our goal is to create a more inclusive and dynamic community that can effectively contribute to Canada's digital economy and infrastructure development. Stay tuned for more detailed announcements on the upcoming changes and how you can maximize your involvement with buildingSMART Canada

Membership Includes:

- Exclusive access to buildingSMART Canada resources and publications.
- Discounts on events, training, and certification programs.
- Opportunities to participate in working groups and committees.
- A platform to share your expertise and insights with a broader audience.

As a member you will:

- **Be a part of Community:** You will be part of a dynamic community dedicated to improving the built environment through open standards and collaborative innovation.
- **Have access to Cutting-Edge Resources:** Stay ahead with the latest tools, standards, and best practices in the industry.
- **Participate in Networking Opportunities:** Connect with industry leaders, professionals, and innovators from across Canada and beyond.
- **Evolve through Professional Development:** Enhance your skills and knowledge through exclusive workshops, webinars, and training sessions.
- **Influence the Future:** Contribute to the development of open standards that shape the future of the built environment.

For more information, visit:
buildingsmartcanada.ca/members

NEW Membership Profiles



buildingSMART Canada in supporting and serving the broader industry sectors offers through its website access to publicly available national and international information on openBIM and BIM Standards



Individual

An Individual Member is given the opportunity to participate with industry peers in a collaborative environment supporting information sharing, as well as BIM social and technical events.



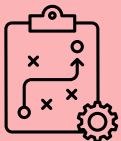
Organization

Organizations who want access to curated and exclusive industry publications, resource, and participate in a community that supports interoperability and best practices for the Digitalization of the Built Asset Environment in Canada.



Innovator

An Organization to join as an Industry Council Member to engage with peer members, supported within a project delivery framework, to conceptualize, plan, and implement industry sector domain building and infrastructure BIM process and standards. Connect with clients, customers, and users within the industry domains. Build awareness and positive brand recognition through advanced community engagement and marketing opportunities.



Strategic

A Strategic Organization of buildingSMART Canada wishes to be recognized as a Patron of BIM and an Advocate for the Digitalization of the Built Asset Environment. Connect with clients, customers, and users within the industry domains. Build awareness and positive brand recognition through advanced community engagement and marketing opportunities.

For more information, visit:
buildingsmartcanada.ca/members

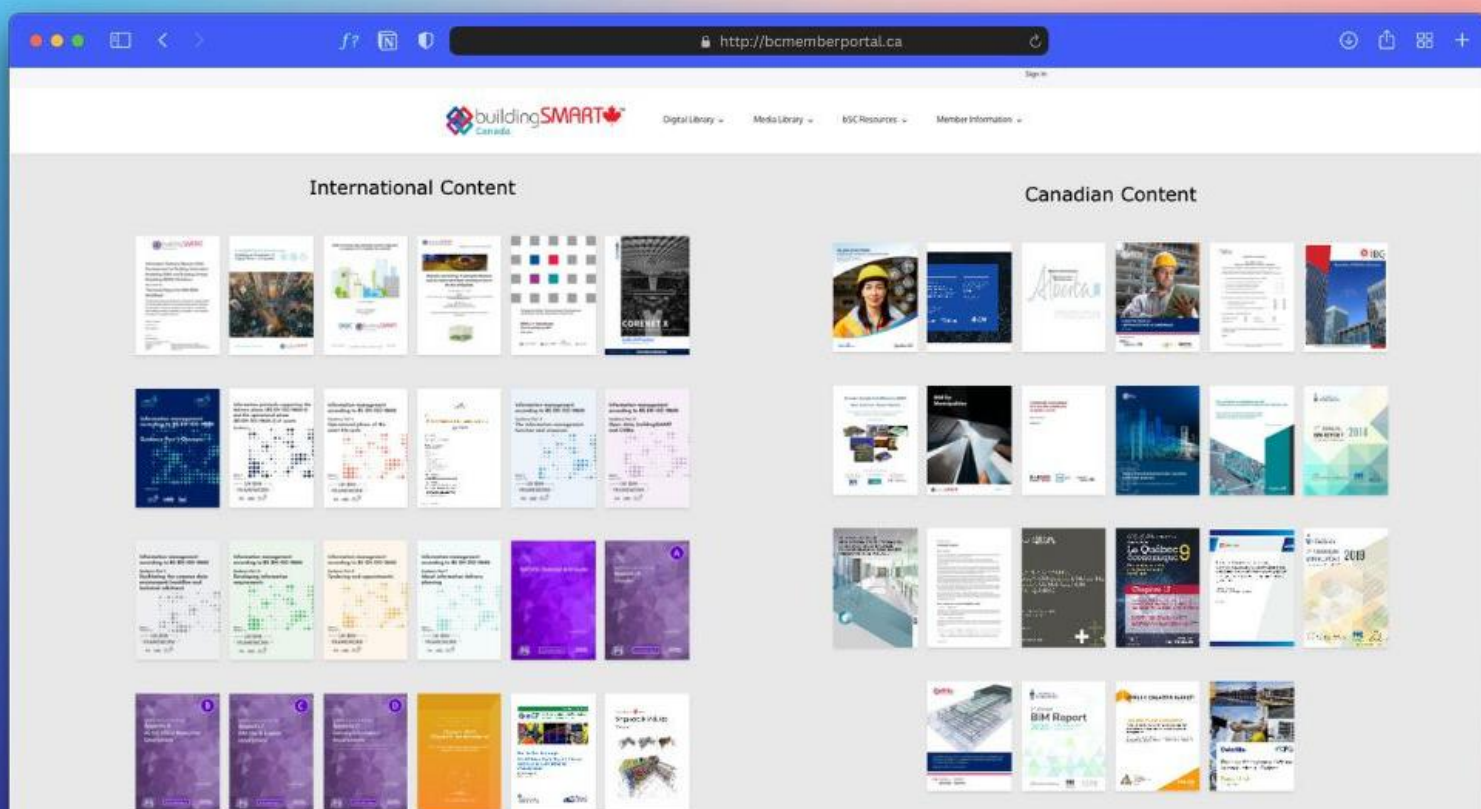
Members get access to the bSC Digital Library

The bSC Digital Library is an exclusive platform with a vast array of digital resources. Members will have access to the latest publications, essential documents and certifications, insightful videos, newsletters, and engaging podcasts tailored specifically for our community.

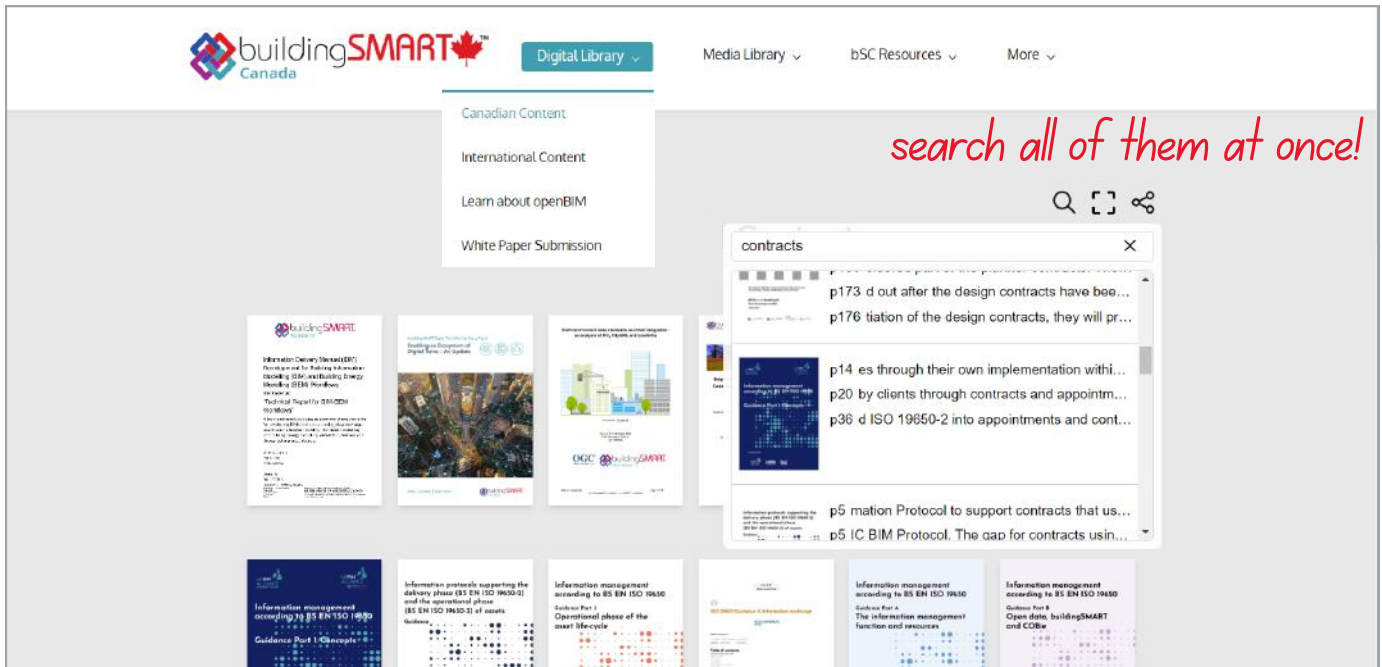
By becoming a member, you gain access to a wealth of information right at your fingertips. Our Digital Library is designed to enhance your knowledge, support your professional development, and keep you informed about the latest industry trends and standards.

Join bSC today, log in to the Digital Library, and explore, discover, and share the comprehensive resources available to you. Embrace this opportunity to stay ahead in the ever-evolving world of building information modeling (BIM) and digital construction.

this is a pretty awesome resource



Canadian / International / openBIM content



buildingSMART Canada Digital Library

Media Library bSC Resources More

Canadian Content
International Content
Learn about openBIM
White Paper Submission

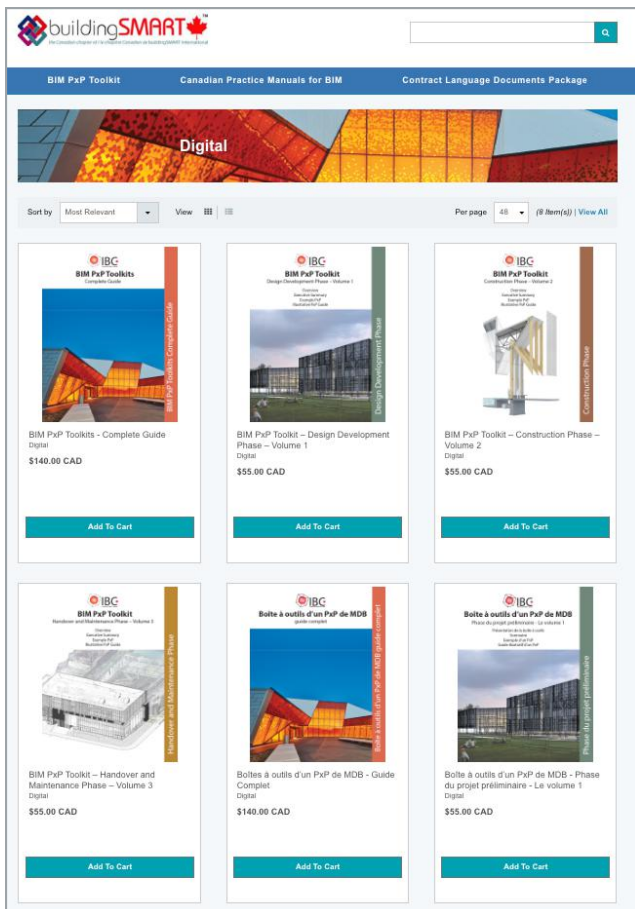
search all of them at once!

contracts

p173 d out after the design contracts have bee...
p176 tiation of the design contracts, they will pr...

p14 es through their own implementation withi...
p20 by clients through contracts and appointm...
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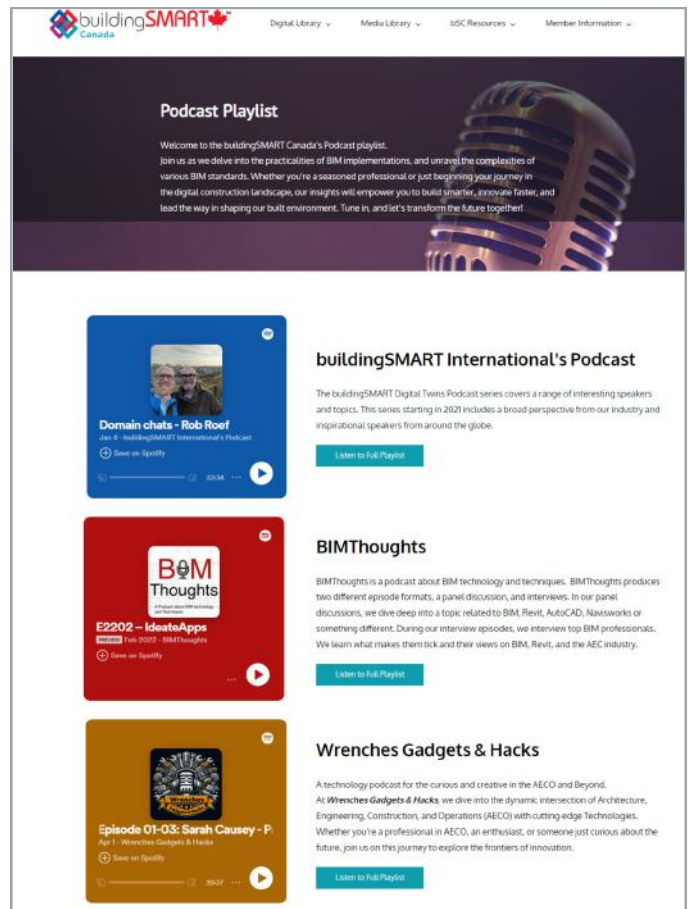
buildingSMART Canada

BIM P&P Toolkit Canadian Practice Manuals for BIM Contract Language Documents Package

Digital

Sort by Most Relevant View Per page 48 (9 Item(s)) View All

<p>IBC BIM P&P Toolkits</p> <p>BIM P&P Toolkits - Complete Guide Digital \$140.00 CAD</p> <p>Add To Cart</p>	<p>IBC BIM P&P Toolkit</p> <p>BIM P&P Toolkit - Design Development Phase - Volume 1 Digital \$55.00 CAD</p> <p>Add To Cart</p>	<p>IBC BIM P&P Toolkit</p> <p>BIM P&P Toolkit - Construction Phase - Volume 2 Digital \$55.00 CAD</p> <p>Add To Cart</p>
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buildingSMART Canada Digital Library Media Library bSC Resources Member Information

Podcast Playlist

Welcome to the buildingSMART Canada's Podcast playlist. Join us as we delve into the practicalities of BIM implementations, and unravel the complexities of various BIM standards. Whether you're a seasoned professional or just beginning your journey in the digital construction landscape, our insights will empower you, to build smarter, engage faster, and lead the way in shaping our built environment. Tune in, and let's transform the future together!

buildingSMART International's Podcast

The buildingSMART Digital Twins Podcast series covers a range of interesting speakers and topics. This series starting in 2021 includes a broad perspective from our industry and inspirational speakers from around the globe.

Domain chats - Rob Roof
Jan 8 - buildingSMART International's Podcast
Listen to Full Playlist

BIMThoughts

BIMThoughts is a podcast about BIM technology and techniques. BIMThoughts produces two different episode formats, a panel discussion, and interviews. In our panel discussions, we dive deep into a topic related to BIM, Revit, AutoCAD, Navisworks or something different. During our interview episodes, we interview top BIM professionals. We learn what makes them tick and their views on BIM, Revit, and the AEC industry.

E2202 - IdeateApps
Feb. 2022 - BIMThoughts
Listen to Full Playlist

Wrenches Gadgets & Hacks

A technology podcast for the curious and creative in the AECO and Beyond. At *Wrenches Gadgets & Hacks* we dive into the dynamic intersection of Architecture, Engineering, Construction, and Operations (AECO) with cutting edge Technologies. Whether you're a professional in AECO, an enthusiast, or someone just curious about the future, join us on this journey to explore the frontiers of innovation.

Episode 01-03: Sarah Causey - P
Apr 1 - Wrenches Gadgets & Hacks
Listen to Full Playlist

Professional Certification

The rapid global adoption of Building Information Modeling (BIM) presents obstacles related to terminology, competency, and consistency. To address these challenges, buildingSMART Canada champions buildingSMART International (bSI) openBIM® standards and provides the bSI Professional Certification program as a benchmark for BIM proficiency. This program benefits professionals, employers, and client organizations within the built asset industry by fostering transparency and maintaining consistency.

The Professional Certification Program supports the standardization of openBIM® training, advocates for international best practices, and raises awareness about buildingSMART and its innovative solutions.



easy (free) way to start



The Entry level introduces open standards and openBIM concepts in a simple, clear and straightforward matter. It is aimed at working professionals and students in the built asset industry who have little or no experience with BIM. This program offers free online educational resources (self-paced training) and a free 5-question online exam managed on this website. This exam will be launched in 2024.



The Foundation level addresses the needs of individuals operating at a basic level. The training helps building owners, designers, consultants, builders and project managers understand the opportunities collaboration within a virtual, openBIM environment offers.

every BIM expert should get this certification

[Learn more about professional certifications](#)

Benefits for Learners

1. **Global Recognition:** Attain internationally recognized certification in openBIM principles.
2. **Quality Assurance:** Showcase your competence and expertise in the built asset industry.
3. **Up-to-Date Knowledge:** Access standardized training aligned with the latest industry developments and best practices.
4. **Structured Evaluation:** Undergo a rigorous testing and qualification process to validate your skills.
5. **Flexible Options:** Choose from a wide array of training concepts and specialized areas offered by our extensive network of training partners.
6. **Online Certification:** Optional registration of your certificate in an [online database](#) for verification.
7. **Career Advancement:** Enhance your professional profile and open doors to new opportunities in the global industry.

Certified Training Providers



[Learn more about professional certifications](#)

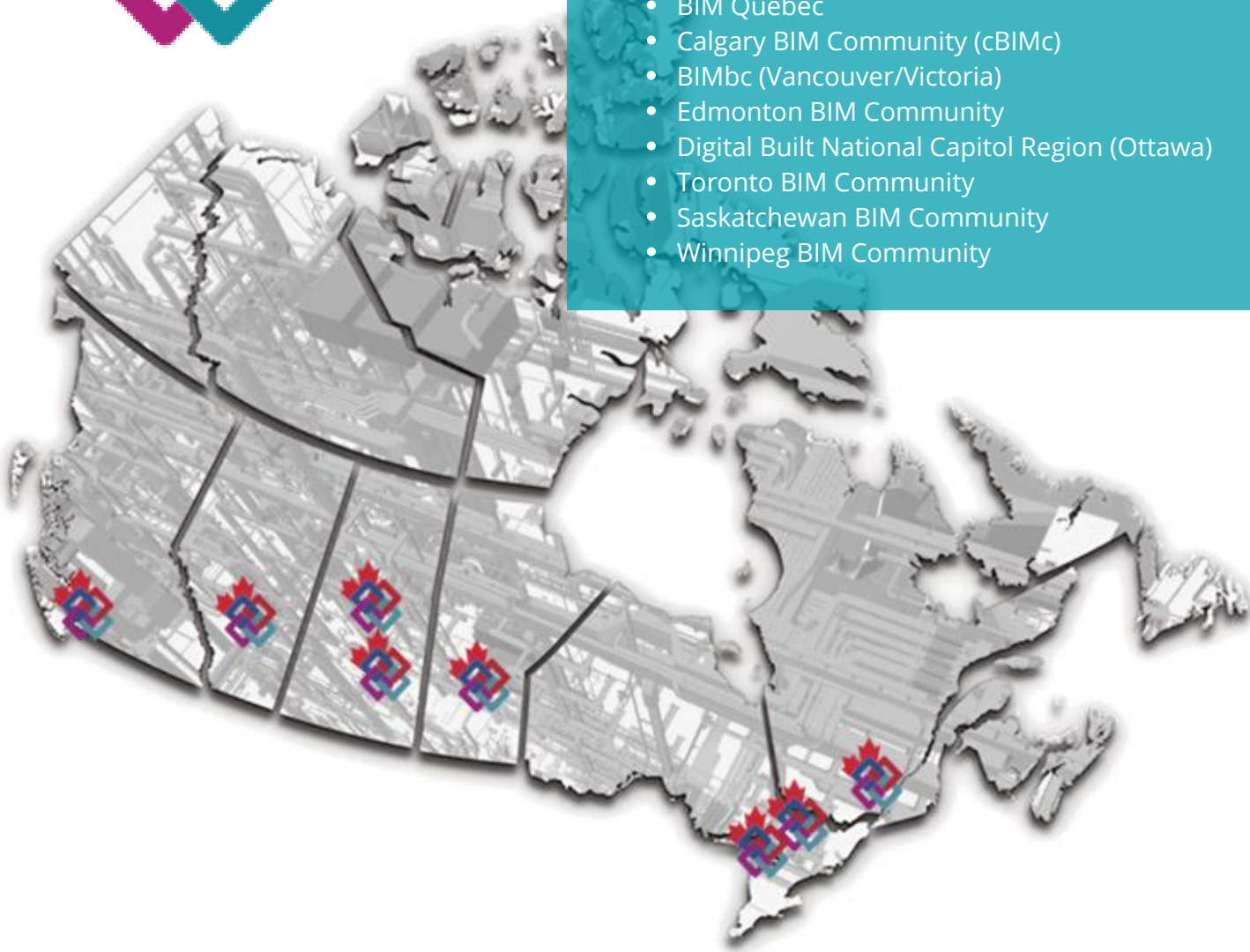
Affiliates

buildingSMART Canada's affiliate program connects local and regional BIM communities from across the country. United by their goal to build and strengthen the Canadian community for a better built environment, the affiliates help support innovative project delivery practices based on openBIM standards.



Affiliates across Canada

- BIM Québec
- Calgary BIM Community (cBIMc)
- BIMbc (Vancouver/Victoria)
- Edmonton BIM Community
- Digital Built National Capitol Region (Ottawa)
- Toronto BIM Community
- Saskatchewan BIM Community
- Winnipeg BIM Community



Don't forget to engage with your local Affiliate

Thank-you to our Members

Strategic Members



Industry Council Members



Initiative Members



bSI Members supporting the Canada Chapter





Join the
community
become a member