

buildingSMART CANADA NEWSLETTER



**WINTER
2023**

Table of Contents

2023 Annual General
Meeting | P. 3 - 5

bSC National Summit | P. 6 - 10

Affiliates | P. 11 - 12

Goals and Plans 2024 | P.14 - 20

Reflecting on a Remarkable Year and Welcoming New Leadership

buildingSMART Canada Members,

As we stand at the threshold of a new year, I am filled with deep gratitude and reflection for the extraordinary journey we have undertaken as a community. It is both a privilege and a pleasure to look back on the incredible strides we have made over the past 12 months and to acknowledge the collective effort that has defined buildingSMART Canada.

As the original president who has had the honor of serving in this role for the past seven years, this message is particularly poignant for me. Together, we have weathered challenges, celebrated successes, and, most importantly, positioned buildingSMART Canada to achieve its mission.



"Throughout 2023, we've achieved milestones that stand as testaments to our shared commitment and dedication. From organizational restructuring to implementation of programs that have strengthened our position, your unwavering support has been the driving force behind our collective success."

William (Bill) Moore
Outgoing President, buildingSMART Canada

As we approach the transition to a new year, I am humbled to announce my step into the role of Past President as of January 1, 2024. Serving as your president has been a privilege, and I am filled with immense pride as I reflect on the growth and impact we've achieved together.

In welcoming the new year, I am equally delighted to introduce Claudia Cozzitorto as our incoming president. With her wealth of experience and fresh perspectives, Claudia is well-equipped to guide buildingSMART Canada into the future. I have every confidence in her ability to lead with integrity and passion, and I invite you to join me in extending a warm welcome to Claudia.

As we celebrate the achievements of the past and eagerly anticipate the opportunities of the future, I extend my heartfelt thanks to each and every one of you for your dedication, hard work, and belief in our collective mission. My journey with you does not end but takes on a new form, and I am excited to continue contributing in my new role.

Here's to a joyful holiday season, a prosperous New Year, and the continued success and growth of buildingSMART Canada.

Warmest regards,



William (Bill) Moore

2023 Annual General Meeting

The Annual General Meeting (AGM) serves as a pivotal moment in the life of buildingSMART Canada, providing an invaluable opportunity for us to come together, reflect on our achievements, and chart the course for the future.

One of the most significant aspects of this year's AGM was the election of the new Board members. Our Nominations Committee has meticulously identified a slate of highly qualified nominees, each with a proven commitment to our cause. Your vote played a crucial role in shaping the leadership that will guide us through the challenges and triumphs that await us in the coming year.



AGM Highlights

- 1. Report on the Year's Activities :** As we take a moment to look back on the past year, it is with a sense of accomplishment and pride that we reflect on the milestones and developments shared by our President and Executive Director.
- 2. Financial Report:** The Treasurer's report covered YE 2022, YTD 2023, and Budget 2024, highlighting our positive cash flow changes and increased projects (9 in 2023, 1 already for 2024). We've also seen heightened involvement in the MIC council and successful certification rollout, contributing to increased engagement and membership
- 3. New Board Members:** The Nominations Committee, under its defined mandate and membership, effectively guided the nominations process with clear selection criteria. We're pleased to introduce the new Board members, reflecting our community's collective decision.
- 4. Goals and Plans for the Upcoming Year:** In the upcoming year, we aim to build on our successes, focusing on strategic growth, enhanced member engagement, and the launch of innovative projects.

Welcome Our New Board Members!

Nomination process

The Nominations Committee of our organization successfully executed its mandate and membership composition as outlined in the By-Laws. This involved a notable shift to a new annual election cycle for Board positions, which are now held for 2-year terms, with an option for unlimited re-election based on a merit-based assessment using board-approved criteria. When selecting candidates for the Board of Directors, the committee focused on identifying individuals who are strategic, influential, and connected, with a strong ability to drive bSC objectives and a commitment to promoting diversity, equality, and inclusion.

The nomination process was comprehensive: it began with a general call of interest, followed by the submission of CVs and survey responses, and culminated in interviews. This thorough approach ensured that only the most qualified individuals were recommended to the Board. The process concluded with a vote by all members-at-large of buildingSMART Canada, marking a significant step in our organizational development and member participation.

We are pleased to present the distinguished members of this year's Nominations Committee:

- **Bill Moore - President**
- **Susan Keenlside - Chair, Board Member**
- **Gord McElravy - Vice Chair, Board Member**
- **Adil Rauf - Member-at-large**
- **Arash Shahi - Board Member**

Elected board of directors



Brent Mauti

Chief Technology Officer
Turner Fleischer Architects Inc.



Mark Cichy

Director of Design Technology
HOK



Patrick Lalonde

Director
EllisDon



Jonathan Murphy

Managing Director
Geolgnite



Kelby Hamilton

Director General
PSPC

Re-elected board of directors



Gord McElravy

Vice Chair, Board
Member at bSC



David Watson

Treasurer, Board
Member at bSC

Incoming President

We are delighted to announce the appointment of Claudia Cozzitorto as our new president, effective from the beginning of 2024!

Claudia Cozzitorto is an accomplished architect and passionate advocate for openBIM. Claudia's expertise in BIM has led her to become a leading voice in the Canadian architecture community. Her work at buildingSMART Canada and tBIMc has helped to advance the use of BIM in Canada and ensure that the AECO industry is poised to embrace new technologies and processes in the years ahead.

As a former board member of the Institute for BIM in Canada (IBC) Steering Committee and a BIM subject matter expert for the Canadian Handbook of Practice, Claudia has spoken at several conferences about openBIM and technology's influence on architectural practice.



Claudia Cozzitorto

A message from our incoming president:

I am honored to take on this role within the buildingSMART Canada community. Bill Moore's role as president has been an example of true leadership, he has been for driving real innovation in Canada. As the founding president of bSC he has made meaningful impacts at all levels including bSI and cBIMc as well as the IBC. Bill you have been a mentor to me, and many others, starting something is no small feat, it has been a big job with many ups and downs along the way. My goal is continue to build on the vision and mission of this organization, to bring value to the members who have supported bSC and grow the digitalization effort.

Our vision and mission at bSC is focused on the standardization of process and data exchange and we tend to talk about technology a lot, but it really is about people. It is this community locally, nationally, and internationally and the connections that create change, that move us forward. I encourage all members to get involved, it is through participation that we truly reap the benefits of being part of a collective of subject matter experts that are driving incremental change. It is our members that maintain the spirit of innovation all year long. And that is what maintains the spirit of innovation.

Innovation does not happen in one monumental step; it is a series of incremental changes demonstrated through collaboration. I look forward to everything in the coming years, the value of standardization and digitalization of all sectors participating in the built asset registry is now being truly realized. We are entering an exciting time.

2023 bSC National Summit

The buildingSMART Canada National Summit is a flagship event, bringing together professionals, thought leaders, and innovators from all corners of the nation. This year's summit proved to be an exceptional gathering of minds, effectively promoting collaboration, sharing knowledge, and fostering the advancement of BIM and digital transformation within the construction and building sector. The energy and insights shared by all who attended have set a new benchmark for future events in our industry.



Event Highlights

- 1. Keynote Speakers:** We were honoured to have industry-leading keynote speakers at our event. Their insightful presentations on the future of BIM and construction technology were truly enlightening and inspiring.
- 2. Interactive Workshops:** Our attendees actively participated in a series of hands-on workshops and demonstrations, gaining practical experience with the latest BIM technology, software, and best practices.
- 3. Networking Opportunities:** It was wonderful to see professionals, experts, and peers from diverse backgrounds come together, sharing ideas and forming valuable connections that will surely benefit their future endeavours.
- 4. Panel Discussions:** The panel discussions were a major highlight, delving into critical topics such as BIM implementation, standards, sustainability, and more. The exchange of knowledge and perspectives was truly remarkable.
- 5. Exhibition Area:** Our exhibition area showcased the latest products and services from industry-leading vendors, providing attendees with a glimpse into the future of building technology.

Summit Speakers

Canadian BIM Adoption: A National Overview



Bill Moore
President
buildingSMART Canada



Yasir Sultan
Program Director for Construction Sector
Digitalization and Productivity, Ph.D
National Research Council Canada



Kelby Hamilton
Director General of Technical Services
in the Real Property Services Branch,
Public Services & Procurement Canada



Dale Booth
Owner, President,
Innovation Seven - T.I.7 Inc.

Creating a BIM Roadmap for the Canadian Built Environment



John Hale
Chief CAD/BIM,
Department of National Defense



Erik Poirier
Director, M.Sc, Ph.D,
buildingSMART Canada

Digital Twin Use Cases and Industry Insights



Stephen Fai
Director & Professor,
Carleton Immersive Media Studio (CIMS)



Akira Jones
Director, Digital Services, P.Eng.
H.H. Angus

Reaching Decarbonization Sustainability Goals with Digital Twin Technology



Farzad Jalaei
Ph.D, P.Eng,
National Research Council Canada



Jean Carrière
Independent Consultant,
Jean Carrière



Krigh Bachmann
Associate, Leader of Digital Innovation
DIALOG

[Click here to access detailed PowerPoint presentations from each session of the summit](#)

Introduction to openBIM



Claudia Cozzitorto
M.Arch, B.Arch Sci, OAA, MRAIC, LEED AP
buildingSMART Canada



Saman Davari
Building & Architectural Engineer
AECO Innovation Lab

Advancing Industry-Municipal Collaboration and Workflow Efficiency with BIM



Arash Shahi
CEO, Founder, Ph.D, P.Eng, PMP,
AECO Innovation Lab



Bill Moore
Technical Services Production Manager
Associated Engineering



Dmitriy Kharena
Planning Policy Researcher,
City of Richmond Hill



Lisa Prime
Chief Planner, MCIP RPP, LEED AP
City of Cambridge



Ralph Kaminski
Director & Chief Building Official
Town of Oakville



Tamer El-Diraby
Professor
University of Toronto

BIM as a Legal Document: Exploring Digital Seals & the BIM Contract Appendix



Patrick Drolet
CEO, MBA, Ing., CISSP, PMP, CBAP
Notarius



Mike Shook
Diploma Architectural Technology, CanBIM CP, LEED AP
J.L. Richards & Associates Ltd.



Jim Bedrick
Senior Industry Advisor, FAIA
Strategic Building Innovation

Relieving Industry Pressures: Upskilling Professionals



Mark Anderson
Director of Business Development,
AECO Innovation Lab



Partick Lalonde
Director, Virtual Design and Construction
EllisDon



Richard Lyall
President,
RESCON



Steven Spry
Senior Project Manager, BIM Special Project
Innovation Seven - T.I.7 Inc.



Marina Ramos
B. Arch, LEED® Green Associate,
BIM & Scheduling Manager
Clark Construction Management

Summit Highlights

First Day - November 29

This year's national summit was a pivotal convergence of industry leaders, policy makers, and professionals, focusing on the digital transformation within Canada's built environment. Key sessions on two consecutive days provided valuable insights into the adoption of BIM and Digital Twin technologies, shaping the sustainable future of construction and infrastructure management.

The summit kicked off with a deep dive into "**Creating a BIM Roadmap for the Canadian Built Environment**," where research findings on Canada's digital transformation, particularly in BIM and ISO 19650 standards, were presented. This session focused on the challenges, standards, and technologies related to BIM use, emphasizing the government's role in its advancement.

This was complemented by "**Canadian BIM Adoption: A National Overview**," which fostered active discussions on collaborative project delivery through BIM tools and processes. The session sought input to shape the BIM roadmap and discussed actionable steps for digital transformation in Canada.

"**Digital Twin Use Cases and Industry Insights**" took centre stage later, showcasing the potential of digital twins in construction and facility management. The session included a global directory of digital twin use cases and tools for planning digital transformations. An inspiring session, "**Reaching Decarbonization Sustainability Goals with Digital Twin Technology**," addressed the integration of digital twin technology in achieving sustainability and decarbonization goals in the construction industry. It highlighted the implementation of openBIM standards and processes aimed at lifecycle assessment of built assets.



[Click here to access detailed PowerPoint presentations from each session of the summit](#)

Summit Highlights

Second Day - November 30

The second day began with "**Introduction to openBIM,**" discussing the emergence of openBIM in the global built asset industry. The session offered insights into the advantages, challenges, and international open standards of openBIM, as well as best international practices to inform Canadian adoption. Following this was a panel discussion on "**Advancing Industry-Municipal Collaboration with BIM**" that explored how BIM is refining workflows in municipalities worldwide, featuring a case study on its use in a large municipal infrastructure project. The sessions continued with "**BIM as a Legal Document: Exploring Digital Seals & the BIM Contract Appendix,**" delving into the legal aspects of using BIM as a contract document and discussing USA experiences with openBIM-driven approval processes. The summit wrapped up with "**Relieving Industry Pressures: Upskilling Professionals.**" This session addressed the challenges faced by professionals in the evolving AECO industry and offered a broad range of topics, including recommended skills, industry requirements, and practical solutions to meet the changing demands of the industry.



Networking Event at the Summit



The networking cocktail event at the summit, presented by tBIMc, and sponsored by LandLogic was an outstanding success!

The evening was marked by lively discussions and networking opportunities, allowing members of the BIM/AEC community to connect and share insights. The event also introduced our new board members and featured special announcements, highlighting key developments and future plans. It was a memorable evening that reinforced the spirit of collaboration and innovation within our community.



[Learn more about all the bSC affiliates!](#)

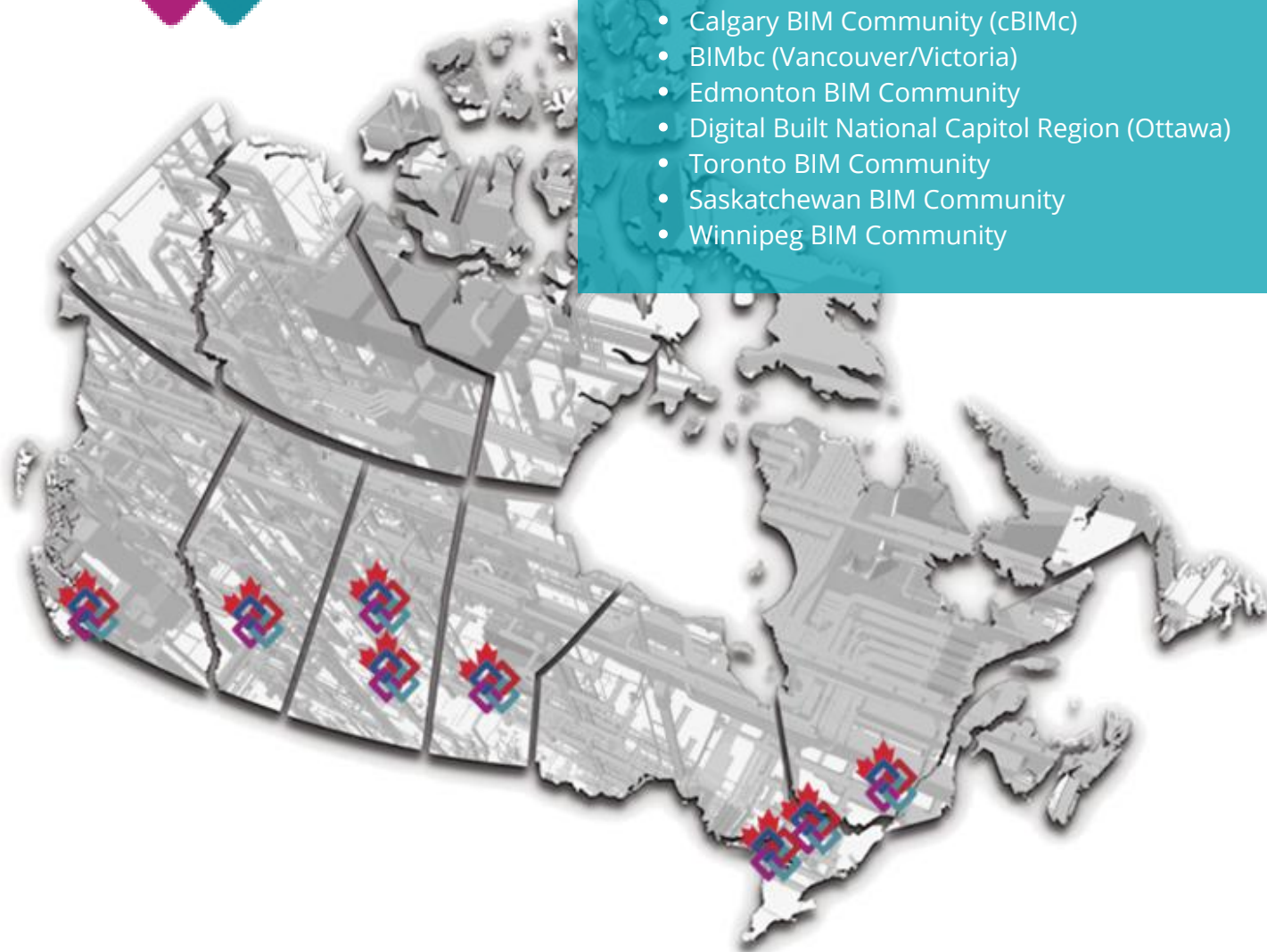
Affiliate Updates

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

buildingSMART International Standards Summit Valencia 2024



buildingSMART INTERNATIONAL SUMMIT

VALENCIA, SPAIN



12-15 MARCH, 2024



Goals and Plans 2024

We continue to strive to increase awareness about its mission and progress as an organization driving digital transformation in Canada. For 2024 we will focus our efforts under three core goals. The first goal is to Grow community engagement, we are committed to connecting at all levels and to all sectors. The second goal is to increase access to resources, access to the needed information is a hurdle we must overcome to provide value to this community. Educate is our third goal, upskilling has been identified as a barrier to growth and the knowledge regarding openBIM standards is low – we plan to change that.



How will be accomplish our Goals

- **Grow Community Engagement**
- **Increase access to resources**
- **Educate**
- **Professional certification**



Grow Community Engagement

As we embark on a new chapter of growth and collaboration, our focus is on deepening our engagement within the community and broadening our influence in shaping international standards.

- We are in planning phases with connected more closely with the buildingSMART US chapter on committees' initiatives that can participate directly with the bSI Domains. This is very important in two ways, first we can collaborate with another bSI chapter who has advanced in areas that we can learn from and secondly, we can participate in many more if not all the international discussions and play an even more active role in how international standards are being developed.
- bSC will continue to work with its membership on projects.
- we continue to be an active member of the Federal / Industry Real Property Advisory Council (FIRPAC). The intent is for bSC to meet with senior representatives of relevant Federal Government Departments to facilitate an open and ongoing dialogue.
- Joint National Committee on Digitalization of Canada's Built Environment (JNCDCBE), a new committee that includes many sectors of government coming together to identify overlap or connected efforts in the area of digital transformation regarding the built asset industry.

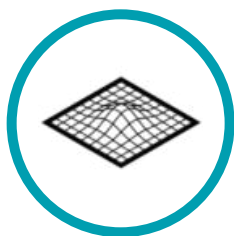




Increase access to resources

bSC has heard your requests for easier access to information and resources, we have looked at other bSI chapters and will be developing a Digital Resource Centre. There are so many resources already developed and we are excited to release in the upcoming year, including:

Research works developed in 2023



BIM & GIS Integration: The interoperability between BIM and GIS have explored both theoretically and with working demonstration using real project examples. The importance of mixing these data silos is more crucial with municipalities and owners working toward a goal of City Information Models and Digital Twins. Further the long term access to data to support full lifecycle process will rely heavily on openBIM and openGIS which will be the foundation of the white paper and project explorations -
Collaborators: AECO + CIMS



BIM vs. GIS Comparison: This is a MITAC project with CIMS to compare and contrast different vocabulary used within GIS and BIM to better understand differences in definitions and standards used in each respective technology such as IFC and CityGML -
Collaborators: AECO + CIMS



Digital Twin Use Case Directory: This project collaboration between Carleton Immersive Lab, AECO Innovation Lab, and bSC National Infrastructure Council have explored the possible use cases of digital twins and city Information models. The diversity of this collaboration brought fruitful discussion, uncovered many opportunities for owners and municipalities, and explored how BIM and digital twins can impact the assets across their lifecycle stages - *Collaborators: AECO + CIME - We are looking for collaborators to join the National Infrastructure Council (NIC) and bring real-life experiences and needs*

Reports developed for National Research Council of Canada (NRC) in 2023

- **BIM Readiness in Canada:** In this project, a multi-phased approach assessed Canadian provinces and territories for BIM readiness. An extensive review of BIM practices and adoption, ISO 19650, enablers and challenges, perspective on government mandates, and stakeholder expectations was conducted.
- **Analysis of International openBIM implementations to inform Canadian Adoption:** This project highlighted openBIM adoption across various jurisdictions, with a focus on government involvement, standardization, technological innovation, environmental integration, national implementation, and knowledge resources. The project presented a comprehensive analysis of openBIM opportunities and interoperability challenges, offering guidance for Canada to adopt and implement openBIM solutions efficiently.



A new BIM Contract Appendix

The Institute of BIM in Canada (IBC) Contract Appendix is a fillable document that was created to help industry professionals become more familiar with the overlap between disciplines and information which occurs with the use of BIM. The appendix provides standard form contracts with information regarding industry best practices, alignment with BIM ISO 19650, and how to advance the industry's use of BIM. Stay tuned! the new version is planned to be released in 2024.



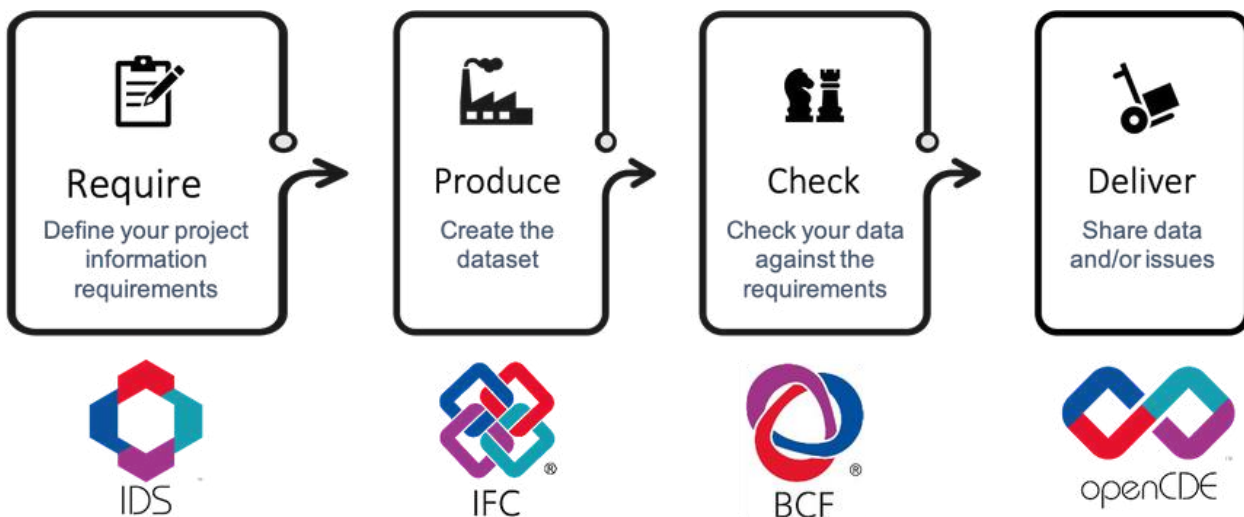
Educate

Educate and grow awareness about openBIM standards and ISO 19650

Raising awareness about openBIM standards and ISO 19650 is particularly important as it promotes interoperability, ensuring that different software and stakeholders can work together effectively. Educating these standards helps in the seamless exchange of information, driving efficiency, and innovation in the construction industry, ultimately leading to better project outcomes and sustainable practices.

Grow our participation at national events and support affiliate events

Enhancing participation in national events and supporting affiliate events is pivotal for the growth of Canada's built asset industry. Such involvement not only strengthens Canada's position in the global market but also contributes to the advancement of its domestic built asset industry through shared learning and community building



Professional Certification

Accelerated global adoption of BIM faces challenges in terminology, competence, and consistency. buildingSMART Canada supports these standards and offers a Professional Certification program as a BIM competency benchmark. This program benefits professionals, employers, and client organizations in the built asset industry, promoting transparency and consistency.

The Professional Certification Program by bSC supports openBIM® training standardization, promotes international standards and best practices, and raises awareness about buildingSMART and its solutions.



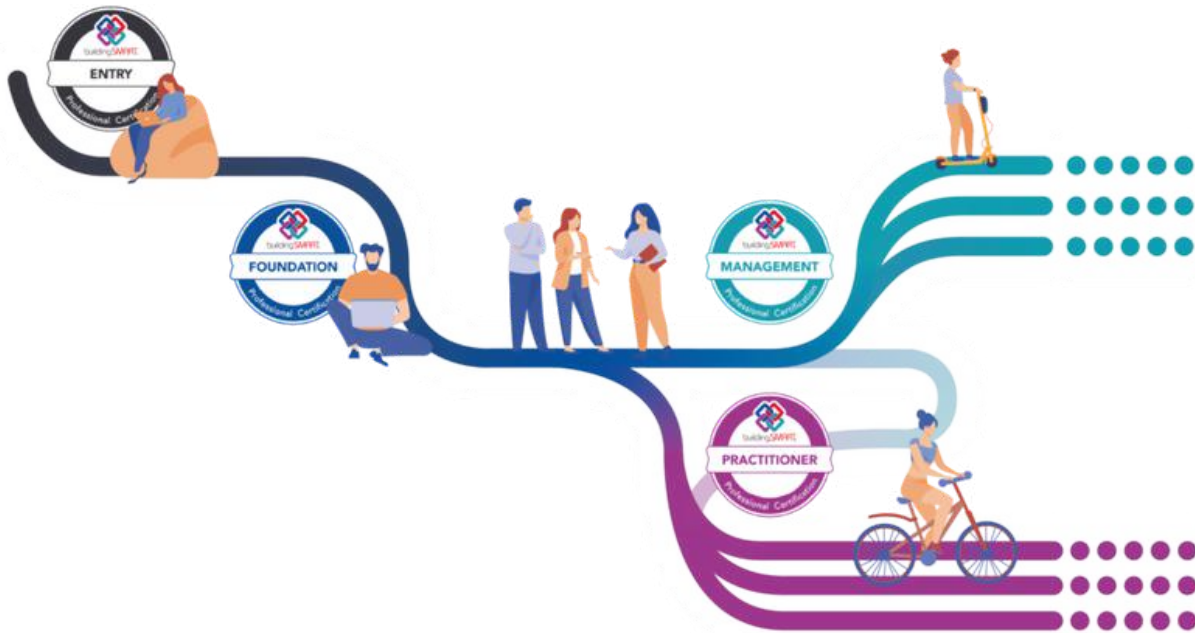
The Entry level introduces open standards and openBIM concepts in a simple, clear and straightforward matter. It is aimed at working professionals and students in the built asset industry who have little or no experience with BIM. This program offers free online educational resources (self-paced training)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



Management level is aimed at industry professionals involved in the management of digitally empowered projects. It provides fundamental knowledge and insight at strategic and operative levels, without descending into technical detail. Upon successful completion of the training, the participant can undertake the online exam to become buildingSMART certified.



Benefits for Learners

- 1. Internationally Recognized certification:** Stand out and gain recognition in the building Industry
- 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.



Validate your openBIM skills

buildingSMART Certification can distinguish you from others and improve your opportunities for advancement.
buildingsmartcanada.ca/certification

Eager to get started?



Fill out this Faststart Participant Application form to be considered for the Faststart Exam.

Become a member

buildingSMART Canada's memberships are separated into six tiers: **Partnerships, Strategic, Industry Council, Initiative, Individual, and Volunteers**. By joining, all membership tiers will receive 25% off for store purchases and have access to all online documents.



Partnerships are an ongoing opportunity where the relationship is connected to achieve mutually beneficial goals outlined in a memorandum of understanding between the organizations.



Strategic Members are organizations interested in supporting the objectives of bSC to drive the adoption of BIM and openBIM standards. They will be assigned to the bSC Board of Directors liaison and may suggest resource development opportunities to the Board of Directors for consideration.



Industry Members are Government, Associations, and Industry stakeholders interested in driving the adoption of BIM through real-world project collaboration; they will receive opportunities to propose projects and research efforts within the National Infrastructure Council (NIC) and serve on a national organization of BIM industry professionals.



Initiative Members are companies and organizations supporting the adoption of BIM in the digitalization of the Canadian built asset industry, where they will receive company logo recognition on the bSC website, advanced access to bSC events, and BIM networking opportunities.



Individual Members are those interested in the development of BIM and participating in a professional association to gain knowledge on BIM domain expertise. Benefits of this category include gaining membership credentials and advanced access to bSC events.



Volunteers are those who wish to contribute their time and support to serving on operational boards within bSC on an annual basis.

For more information, visit:
buildingsmartcanada.ca/members.

Thank-you to our supporting Members



buildingSMART CANADA
NEWSLETTER



WINTER
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Want to stay up
to date with bSC?

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