bSI openBIM Awards 2022: Submission Guide

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Hi! My name is Susan Keenliside and it’s my privilege to bring you the bSI openBIM Awards Program. This submission guide has all the information you need to prepare for and execute a submission to the Awards program for 2022. This year we have established a new category around Sustainability, reflecting the global trend to promote more sustainable outcomes. For the Design and Construction categories, we have split apart buildings from infrastructure projects. The user experience for submitters and jury members remains in the Award Force platform, which helps everyone focus on what’s important here – great news stories about the use of openBIM! On behalf of the entire team, I welcome you to the 2022 season and wish you the best of luck with your submission.

Sincerely,

[Signature]

OBJECTIVE
The buildingSMART International Awards Program honours exemplary demonstrations of openBIM best practice or innovation excellence within project delivery, operations, research projects, technology solutions development, or sustainable outcomes in the built asset industry. Entries are judged on how effectively, or how innovatively, they have used openBIM to overcome interoperability and open information exchange challenges.
WEBSITE
https://www.buildingsmart.org/awards/bsi-awards-2022/

The bSI website for the Awards Program is the homepage for all awards information, including access to Award Force - the awards platform for both submitting and judging. You can also review past winners, finalists, and special mentions.

Finally, don’t miss reading Appendix A: Message to Applicants at the end of the document for more details about the program.

AWARD CATEGORIES
There are five (5) themes with a total of eleven (11) categories to be awarded for the 2022 season:

Refer to the website or Appendix B: Award Category Definitions for detailed definitions and expectations per category. If you are not sure to which category your submission belongs, you can reach out to awards@buildingsmart.org to ask the question.

CORE REQUIREMENTS
Satisfying the following core requirements is necessary to advance to the judging round:

1. Entries must demonstrate with evidence the deployment of one or more buildingSMART tools or standards.
2. Entries must be delivered in International English; the jury will not be able to assess content written in a language other than International English.
3. One submission = one project.
4. One project can submit for multiple awards if they meet the criteria. When submitting a project for multiple awards, it is expected that each submission be tailored to each category scope.
5. There is no limit to the number of submissions a proponent can submit.
6. Past submissions that did not win an award in previous seasons are able to resubmit to any new season. Past award winners are not eligible for resubmission in the same category but may submit to other categories.
7. It is a requirement for applicants to submit IFC model files and/or any other technical file formats as evidence of the claims of the submission.

SHARING & CONFIDENTIALITY AGREEMENTS

buildingSMART International reserves the right to promote the submissions within the community. This will include but is not limited to publication of the winners, finalists and special mentions in galleries on the website, as individual case studies, and in the annual Awards Yearbook, all of which will be publicly available. The exception to this is any model or other technical files submitted, which will not be shared with the broader community.

KEY DATES

*All dates referenced open until 23h59 in the last time zone available. Please refer to the website for any changes to the closing dates published here.

<table>
<thead>
<tr>
<th>SUBMISSION PERIOD</th>
<th>CLOSING DATE: May 24th</th>
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<tr>
<td>• Submissions completed via Awards Platform</td>
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<td>• <a href="https://awards.buildingsmart.org">https://awards.buildingsmart.org</a></td>
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<td>• Judging of submissions to determine finalists</td>
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<tr>
<td>• Marketing material for Summit &amp; website</td>
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<tr>
<td>• Summit invitation to present project</td>
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<thead>
<tr>
<th>SUMMIT CEREMONY</th>
<th>CEREMONY: W/C October 17th</th>
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</thead>
<tbody>
<tr>
<td>• Category winners presented with their awards at the Summit Gala Ceremony</td>
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</table>

WHAT’S NEW IN 2022

- New category added: Sustainability Excellence (Sustainable Outcomes)
  - This category is open to all domains and industry professionals that demonstrate innovation applied to better social, environmental, and economic outcomes. This can include circular economy, low carbon strategies, energy management, renewables, sustainable materials, and other green practices.
  - The addition of this category is the first of its kind in the program.
• The Design and Construction categories will each be split into two awards, one for buildings and one for infrastructure.
• The upload of IFC files to a viewer is required as part of the evidence, and subsequently the jury’s scoring will include review of the IFC files.

**AWARD FORCE PLATFORM**
Award Force is a web-based awards platform used by buildingSMART International and does not incur any cost to the applicant for its use. It requires a log-in profile that is created prior to entering the site; be sure to take note of your login credentials to use every time you log in to the platform. You can save your submission and return to it as many times as you need. The submission is not submitted until you complete all the required fields and click the submit button.

https://awards.buildingsmart.org

**TAILORED CATEGORY APPROACH**
Note that there is a tailored approach to each parent category – depending on which category and subcategory you choose, you will be presented with different tabs.

![2022 Submission Tabs by Category](image-url)
COMPLETING AN ENTRY
Register with a username and password. Then choose the correct category and follow the instructions as they appear in the tabs.

PLEASE NOTE: YOU MUST CLICK “SUBMIT” BEFORE THE SUBMISSION DEADLINE TO ENTER THE COMPETITION. Entries that are saved, but not officially submitted are considered “In Progress” and are not counted as an official submission. An entry cannot be submitted until all the required fields are completed.

Once an entry is officially submitted you will receive an email confirmation from the system.

SOFTWARE ECOSYSTEM
We want all software used on the project to be identified. Submitters may choose to create a graphic or process maps that demonstrate the software used, by which stakeholder, which IT infrastructure, in which project phase or information exchange or BIM use.

Refer to Appendix C: Sample Attachment Files to see examples of a software ecosystem map.

PROCESS MAPS
There is now an option for applicants to add process maps to their submission, in addition to what is provided as a Software Ecosystem Map. This field is optional but highly encouraged.

IFC MODEL FILES
It is a requirement for applicants to submit IFC model files and/or any other technical file formats as evidence of the claims of the submission. Model and other technical files will not be made available to the community without prior consent.

Within the entry form on the Award Force platform, you will find a field that asks for a link to the uploaded content:

Upload .ifc file(s) or other technical files to support validation of the research results.

https://

Screenshots, video screen captures, and other forms of documentation are also highly encouraged throughout the submission documentation to show clear software workflows and model or data content.

Applicants must upload the files to a web-based viewing platform with the following requirements:

- Online upload and visualization (with a browser) not only of IFC models but also other supported formats such as BCF, Point Clouds, PDF, DXF, DWG, etc.
- Ability to query data of model elements
• Publicly accessible link (the user will upload the model, create a public link and give access to everyone; those with this link will be able to view the document, but not need to download it)
• Uses an encrypted connection for upload
• User profile protected with username/password

The jury must be able to click on the link to the viewer and review the content without having to download any application or files. The choice of platform for this is entirely up to the submitter.

Should submitters not have a preferred platform to do this, ACCA Software has made available their browser-based file viewer for upload and visualization tailored specifically for the bSI openBIM Awards Program. The viewer can be found at:

• Video with the test instructions for sharing the models is at this link
• Access the service webpage and use it from this link

The ACCA viewer is free to use, utilizes an encrypted connection for upload, is username and password protected, and supports several file formats including IFC, BCF, Cloud Points, PDF, DXF, and DWG. Once upload of the file(s) is complete, you will be able to generate a publicly accessible link. A field within the submission exists to paste the link and will be used by the jury to analyze the uploaded files.

Contact awards@buildingsmart.org if your organization has secure information handling requirements that need to be met.

USE CASES
We continue to encourage documentation of any BIM Use Case deployed on the project, although there is no requirement to complete a specific deliverable at this time.

For more information on the bSI UCM activity, visit https://www.buildingsmart.org/users/services/

https://ucm.buildingsmart.org

GALLERY VIEWS AVAILABLE OF PAST ENTRIES
Submitters can review entry submissions from 2021 through the Gallery Views in the AwardsForce Platform. These are available for viewing only once you have created an account and logged in to the platform. PLAGERISM IS NOT ALLOWED AND WILL RESULT IN DISQUALIFICATION.

RESUBMISSION OF PAST PROJECTS
buildingSMART encourages the resubmission of projects to the awards program. In some cases, the past submission may not have fully demonstrated the accomplishments, or the project may have further advanced since the time of the last submission. PLEASE NOTE that previous winning projects are eligible
to submit to different or new categories, but not to resubmit to the same category in which they won an award.

JURY PROCESS
buildingSMART is committed to a fair and transparent judging process. The Jury is selected on a volunteer basis from each of the buildingSMART chapters around the world. Each jury member attests to not being involved with any submission nor any of the projects being submitted. The jury is given the tools and background knowledge to be able to complete the judging activities fairly and consistently across all submissions. The jury will determine the finalists for each award category.

FINALISTS & SPECIAL MENTIONS
All finalists and special mentions will be asked to provide additional material to be promoted by buildingSMART. This may include a poster, a PowerPoint overview presentation, project photographs and/or images, quotes, a short video, and a 20-minute presentation at the Autumn Summit to determine the category winners. Winners will be announced at the Gala Dinner Awards Ceremony during the bSI Autumn Summit.

GALA CEREMONY
The Gala Ceremony is the event where the buildingSMART openBIM Awards are announced. It occurs during the Autumn Standards Summit. It is a gala dinner for summit participants with the awards ceremony taking place as the capstone entertainment and celebration. All submitters are invited to attend, regardless of final standing in the awards.

FREQUENTLY ASKED QUESTIONS
Submitters are encouraged to review the FAQ section of the website: 
https://www.buildingsmart.org/awards/bsi-awards-2022/

OPT-IN TO BSI NEWS
Opt-in to the buildingSMART mailing list to receive all bSI news and regular communications:  
https://share.hsforms.com/1Lt8Rj8QWaSsz2Fdl6wMwqRQ2wmx5h

CONTACT
Submitters may contact awards@buildingsmart.org with questions or websupport@buildingsmart.org for technical issues at any time.
Appendix A: Message to Applicants

Thank you for your interest in submitting a project to the buildingSMART International (bSI) openBIM Awards. buildingSMART created the Award program to recognize exemplary projects that have used buildingSMART solutions to effectively overcome interoperability challenges. The first awards were presented in Toronto in October 2014.

“It’s an opportunity for companies to showcase their application of buildingSMART open standard solutions to current challenges of interoperability faced during collaborative project delivery or asset operations”.

Richard Petrie, Chief Executive

To ensure your project has the greatest chance of winning an award, read carefully as we provide you with instructions and information about the submittal process. It is important to follow these instructions to present your submission in the clearest way possible to the jury.

The submissions will be judged on how well the evidence demonstrates the use of openBIM and open information exchanges on the project, with highest ratings going to projects showcasing the use of bSI Standards, Tools, and Services. The submitters are required to provide technical evidence.

From experience, we have found the competition to be very intense. buildingSMART ensures a fair competition by combining rigor and transparency in the submittal process and enabling the jurors to give all parties equal consideration. To this end, the evidence given must follow the instructions and contain information that clearly demonstrates openBIM in the submission.

We recognize the time required to prepare a proper award submission, and our aim is to make the process as easy as possible. Concurrently, we respect the jury members’ time to thoroughly review each submission in a consistent method to make their best assessment. The more succinct and organized the evidence is in supporting the submission, the better the process is for everyone.

BEWARE: Copious, non-relevant, or insufficient information will be viewed as detrimental. The jury has a limited amount of time to review submissions. Ensure important information is explicit and not buried in large amounts of text. Do not duplicate text in multiple fields.

IMPORTANT REMINDER: All communications from buildingSMART International regarding your submission will be sent only to the contact person provided in your award application. If you need to change the contact, please send your request to awards@buildingsmart.org

Best of luck,
bSI Awards Management Team
### Appendix B: Award Category Definitions

<table>
<thead>
<tr>
<th>THEME</th>
<th>CATEGORY</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Delivery Excellence</strong></td>
<td>Design for Buildings using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM during the Design phase of project delivery in buildings.</td>
</tr>
<tr>
<td></td>
<td>Design for Infrastructure using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM during the Design phase of project delivery in infrastructure.</td>
</tr>
<tr>
<td></td>
<td>Construction for Buildings using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM during the Construction phase of project delivery in buildings.</td>
</tr>
<tr>
<td></td>
<td>Construction for Infrastructure using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM during the Construction phase of project delivery in infrastructure.</td>
</tr>
<tr>
<td></td>
<td>Handover using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM for Handover of datasets and information during Project Close-out.</td>
</tr>
<tr>
<td><strong>Operational Excellence</strong></td>
<td>Asset Management using openBIM</td>
<td>Asset lifecycle information management with demonstrated excellence using openBIM in the Operations phase of a built asset.</td>
</tr>
<tr>
<td></td>
<td>Facilities Management using openBIM</td>
<td>From real estate planning and space management to preventative maintenance, lifecycle replacement and emergency preparedness; the Operations Phase of a built asset has many data needs for openBIM.</td>
</tr>
<tr>
<td><strong>Research Excellence</strong></td>
<td>Professional Research using openBIM</td>
<td>Research excellence using openBIM led by academic, industry or government professionals.</td>
</tr>
<tr>
<td></td>
<td>Student Research using openBIM</td>
<td>Research excellence using openBIM led by students.</td>
</tr>
<tr>
<td><strong>Technology Excellence</strong></td>
<td><strong>Sustainability Excellence</strong></td>
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<td>--------------------------</td>
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<tr>
<td>Software development deploying buildingSMART schema, tools or standards.</td>
<td>Sustainability Excellence reflects worldwide adoption of more sustainable practices and outcomes for a more resilient future.</td>
<td></td>
</tr>
<tr>
<td><strong>Technology Solution using openBIM</strong></td>
<td><strong>Sustainable Outcomes using openBIM</strong></td>
<td></td>
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<tr>
<td>An applied technology solution developed on the back of buildingSMART schema.</td>
<td>This new category is open to all domains and industry professionals that demonstrate innovation applied to better social, environmental, and economic outcomes. This can include circular economy, low carbon strategies, energy management, renewables, sustainable materials and other green practices.</td>
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Appendix C: Sample Attachment Files

Below are some examples from past submissions to help give ideas on how to support the submission with the kinds of attached documents we are asking you to provide. Please remember that plagiarism is a serious offence and not tolerated in this program.

Figure 1: Software Ecosystem Map – Beijing-Zhangjiakou high speed railway, China

Figure 2: Software Ecosystem Map - smartBRIDGE Hamburg, Germany
Figure 3: BIM Technology Map – Mercedes Autohaus Project, Australia

Figure 4: Process Map – Queen’s Wharf Brisbane Project - Australia
Project general information

• Project BIM Uses

<table>
<thead>
<tr>
<th>Project BIM use / Description</th>
<th>Stage</th>
<th>Tool</th>
<th>Delivery Format</th>
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<td>Revit (.rvt)</td>
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<td>Revit (.rvt)</td>
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<td>Revit (.rvt)</td>
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<td></td>
<td></td>
<td>DGN</td>
<td>Revit (.rvt)</td>
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</tbody>
</table>

Stage 1 T1: Land Use Master Plan Review and Concept Design
Stage 1 Task 2: Building Architecture and Engineering Schematic Design
Stage 1 Task 3: Infrastructure Schematic Design
Stage 1 Task 4: D&B Tender Documents
Stage 2 Task 1: Detailed Design Development
Stage 2 Task 2: Final Design
Stage 2 Task 3: Pre-Construction Contract Stage

Figure 5: Project BIM Uses – Qatar TOD Project, Qatar TOD

25 consultants (about 400 people) provided model-based documentation on the project. This work provided a solid base for all other use cases. The federated model is in real world coordinates, while export / import between different authoring software is typically based on a local project origin. PDC note known issues with authoring applications operating in real world coordinates, and “element too far from origin issues”). Therefore consultants needed to export two versions of all IFC’s, one at real world coordinates, another one at the project origin.
Pending on the software package and model application, the user has the ability to utilise the file best fit for purpose.

Figure 6: IFC coordinate management & interoperability – Queen’s Wharf Brisbane Project - Australia
Figure 7: Earthworks analysis – Primary school in Warsaw, Poland

Figure 8: Room/space management – Queen’s Wharf Brisbane Project - Australia
Figure 9: 3D Coordination – Queen’s Wharf Brisbane Project - Australia

Figure 10: Design Authoring and Briefing – West 65 Project, Serbia
Figure 11: Existing Conditions Modeling – West 65 Project, Serbia

Figure 12: Data Stream Delivery – Xiamen Metro Transit Project, China