



Annual Report to the End of 2022

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From the President and Chief Executive Officer

On behalf of the iiSBE Board of Directors, we wish you all a happy new year!

Our Annual Report, which has been previously issued before the end of the calendar year, comes a month or so later than usual, but as you will read below, iiSBE has been busy and productive in 2022.

We have been laying the foundation for an iiSBE organisation with a robust governance and strategic activities that advance the knowledge and practice of sustainability and resilience in the built environment sector worldwide. We are gearing up for major iiSBE activities and tasks in 2023 and beyond to contribute to this goal.

In this report, you will read about some of our key activities and achievements in 2022 including:

- **Support for sustainable reconstruction of Ukraine**
- **The WSBE and SBE Conference series**
- **The new CEN Workshop Agreement (CWA) on TRAIN4SUSTAIN Competency Standard**
- **The WG on Research & Tools (WG R&T) and recent developments in SBTool and SNTool.**

We invite you actively participate and contribute to advance our activities on key activities reported herein, and/or let us know about opportunities for you and iiSBE to make a difference. We would be delighted to hear from you and to collaborate on ways that the built environment sector can significantly address our society's greatest challenges.

Prof Greg Foliente, iiSBE President and Board Chair

Nils Larsson, iiSBE CEO



Some of the iISBE Board Members in one of our three online Board meetings in 2022. For a full list of current Board Members, see Appendix A.

iISBE Special Project: Support for Sustainable Reconstruction of Ukraine

A discussion document of iISBE overall strategy for this project was produced and distributed in June and August 2022.

The main current focus of the project is to produce a Damage Assessment Tool (DAT) that will allow users with access to field data to prepare crude monetary estimates of reconstruction needs, first in Irpin and then across Ukraine. iISBE has developed a simple Excel tool to help carry out damage assessments. Once completed, the tool will be linked to guidelines for sustainable reconstruction of urban areas and buildings, building on the experience of SBTool and SNTTool. It should be noted that these tools are being designed to be applied to earthquake and climate change damage, as well as the immediate issue of war damage caused by the Russian invasion of Ukraine. The figure on the next page shows the main logic of the system.

Two recent technical contributions are helping us to move forward: a simple energy calculation tool developed by Kajetan Sadowski that can be linked to SBTool, and a pilot on-line version of the DAT tool, developed by Faruk Kaynakli.

The principal contributors to the iISBE special project are listed in Appendix B.

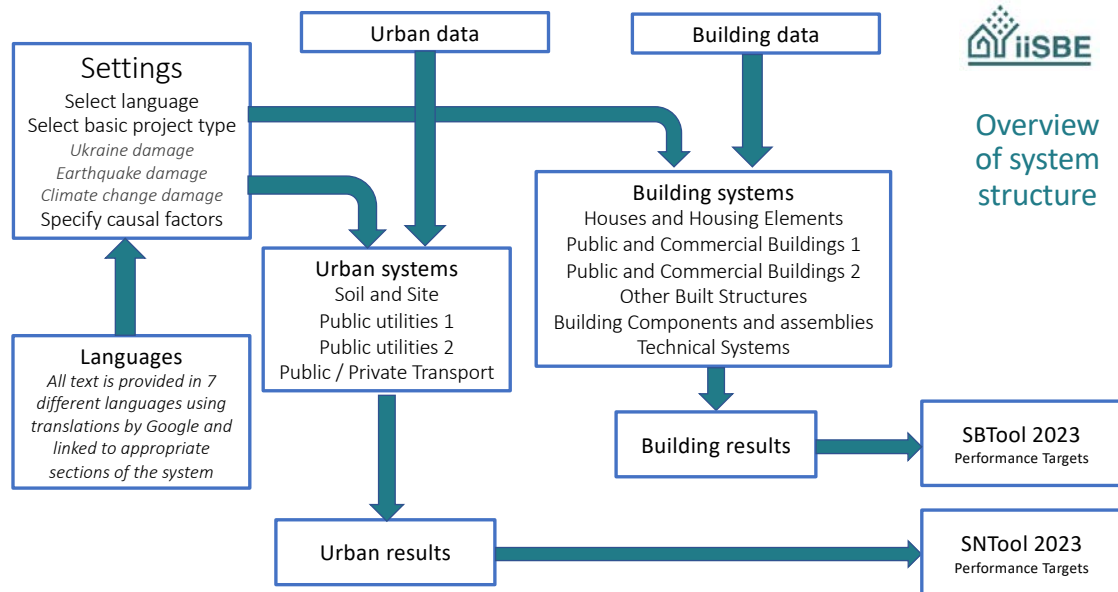
In addition to the pan-Ukrainian work, we are also supporting projects in Irpin, an urban area linked to Kyiv which has attracted international interest and support.

Three groups, the Irpin Reconstruction Summit (IRS), the Thought Group Chile (TGC) and Wroclaw University of Science and Technology (WUST) are preparing an international competition for urban planning and architecture students called: *Strategic Vision for the City of Irpin: The Future Horizon*.

The aim of the competition is to redefine the identity of the city (70% destroyed), taking into account the need for its sustainable reconstruction. We anticipate that the competition will have a positive influence on all future reconstruction in Ukraine.

To support the competition iISBE is helping to identify universities that would like to take part in the competition, at least in the initial phase, the main contact for the project is: kajetan.sadowski@pwr.edu.pl

iiSBE Damage Assessment Tool



The WSBE and SBE Conference Series

The Sustainable Built Environment (SBE) series of conferences began in 2000, operates on a three-year cycle and is operated by a small number of international organizations (collectively known as the SBE Partnership):

- International Council for Research and Innovation in Building and Construction (CIB, www.cibworld.nl)
- International Initiative for a Sustainable Built Environment (iiSBE, www.iisbe.org)
- International Federation of Consulting Engineers, www.fidic.org
- UN Environment, www.unenvironment.org

The series is managed by Nils Larsson (NL) on behalf of the four SBE partners. NL will be stepping down from this role during the summer of 2023.

A one-day seminar event was implemented in October in Sousse, Tunisia as a special SBE event. Andrea Moro (AM) reported that it was a success with attendance varying from 100 to 200 during the day, and with a high level of interest in iiSBE being expressed. No papers have been produced because only invited speakers and panel members spoke and there was no peer review. A copy of all the presentations from this Conference is being put together.

The Glasgow event is delayed to 14-15 March 2023, and Thessaloniki to 22-24 March 2023.

The Shenzhen event is also delayed until Spring 2023, exact date to be determined. Shenzhen is important in several ways. The planned event is for Asia-Pacific, so it may have a broad impact, but the situation of the property market in China and the treatment of small property owners in China are two challenging issues.

The Montreal WSBE23 Conference Organizers want to move their conference from September 2023 to Spring 2024, primarily due to its original dates conflicting with GreenBuild 2023. The conference planners now have a major sponsor, whose identity is not yet being made public. Greg Foliente (GF) is serving on the Advisory Committee of the WSBE23 Conference and there are many issues being dealt with, with no final conference date having been decided.

The SBE partners have agreed that we should establish closer links with GlobalABC and also that we should invite feedback from a small number of high-level researchers. Long-time iiSBE members Richard Lorch (RL) and Thomas Luetzkendorf (TL), for example, have provided valuable contributions..

Subject to input and approval by SBE partners, NL will prepare a new RFP for expressions of interest to hold the 2025 SBE conferences and then a separate RFP for the 2026 WSBE event. We will release the Regional RFP later in the Spring and for the WSBE26 during the summer. The SBE Partnership will consider special one-day events (such as the one held in Sousse) in the next WSBE25-26 conference series round.

CEN Workshop Agreement on TRAIN4SUSTAIN – Working Group on Education & Training (WG E&T)

Led by Andrea Moro (iiSBE Italia) and supported by Prof Luis Braganca (iiSBE Portugal and former President of iiSBE International) and their respective teams and some iiSBE members, a CEN Workshop Agreement (CWA) on TRAIN4SUSTAIN was published in 2022 by the European Committee for Standardization (CEN). The TRAIN4SUSTAIN Competency Standard describes the knowledge and skills necessary to reach different levels of competence with regards to more than 100 Areas of Expertise. The CWA TRAIN4SUSTAIN can be used by:

- professionals, to measure and report their competences through a transnational Skills Passport;
- public authorities, to set measurable competence's requirements in public tenders (GPP);
- scheme operators, to express the competence's requirements needed to achieve a qualification;
- training agencies, to map courses and communicate using a common methodology the competences acquired by participants.

The document is available for download at this link:

https://www.cencenelec.eu/media/CEN-CENELEC/CWAs/RI/cwa17939_2022.pdf

iiSBE will set up within the WG on Education & Training (WG E&T) a sub-task to develop an iiSBE Training System based on the CWA TRAIN4SUSTAIN. The training systems will be targeted to both professionals (architects and engineers) and students.

Anyone interested in the WG E&T work program should contact: andrea.moro@iisbeitalia.org

Updates on the Working Group on Research & Tools (WG R&T)

The 2022 version of SBTool and SNTool for the Mediterranean regions has been developed in the context of the project “Sustainable MED Cities”: <https://www.enicbcmed.eu/projects/sustainable-med-cities>

The first version of generic framework at City Level, SCTool, has also been developed. The new tools will be transferred to the members of the WG Research & Tools (WG R&T).

At the next WG R&T meeting in early 2023, two focus groups to define the 2023 versions of SBTool and SNTool will be established. The 2023 version of SNTool will be prepared through the SBE Urban Challenge and presented at WSBE 2023/24 Montreal.

AM advised that the SBE Assessment Platform has been completed. A demo will be run at the next meeting of the WG R&T. Credentials will be provided to participants.

We are also planning a new Focus Group on the topic of the Built Environment’s resilience and adaptation to climate change. Another task is to exchange reports on Member activities on R&D projects being undertaken.

Anyone interested in the WG R&T work program should contact: andrea.moro@iisbeitalia.org

Miscellaneous Administrative Updates

iiSBE has a relatively stable membership of 196 individuals in 31 countries.

Summary of iiSBE memberships 2021-23							
Date	Countries	Single member	Org <5	Org<10	Chapter	Total persons	Avg. years
15-Dec-21	31	44	4	2	7	196	1.33

- In collaboration with iiSBE Italia, we are updating the iiSBE website, with a new version to be available in early 2023.
- iiSBE's finances are in a healthy condition. We have separate iiSBE bank accounts for \$CAD and Euro currencies, and also a separate Euro account, held in trust for the 4 SBE partners.
- iiSBE is changing to a new accounting firm and will do a review of iiSBE's financial status in 2023.

Major Activities and Governance in 2023 and Beyond

As part of iiSBE's strengthening of its governance system, we are seeking two New Board Members to join the Board of Directors in 2023 (to serve for an initial appointment of 2 years). From our Governance document:

Members of the Board of Directors are those who are committed to the organization's vision, mission and values. New Board members are iiSBE members of good standing, who are nominated by another iiSBE member or have self-nominated. Integrity, diversity, complementarity of skills and experience, and especially balance in regional or geographic representation are some of the important factors in its composition – and criteria for selection, which is a task undertaken by the current President, Vice President and CEO.

If you or someone you know may be interested, please contact: greg.foliente@unimelb.edu.au

At the last Board meeting, the Board members agreed to invite a representative from Sustainable Buildings Canada to join the iiSBE Board.

The 2023-2024 period promises to be one with major iiSBE activities and tasks, specifically around the following topics and themes:

- **Sustainable reconstruction of Ukraine** – with further development in 2023 of the Damage Assessment Tool (DAT), which will then be linked to regionally adapted versions of SBTool and SNTTool, and their application in the international competition for urban planning and architecture students called: *Strategic Vision for the City of Irpin: The Future Horizon*, we expect a busy year ahead. If you would like to contribute or interested in further information, please contact NL.
- **The WSBE and SBE Conference series** – in 2023 the current round of national/regional conferences will be completed, culminating in WSBE Montreal in Spring 2024. Meanwhile, the RFP for the next round of the WSBE25-26 conference series will be released in Spring 2023. A new one-day format (for engagement and capacity development) special event is also under consideration. For further info, watch for iiSBE email and website announcement.
- **Within the WG on Education & Training (WG E&T)**, a sub-task to develop an iiSBE Training System based on the CWA TRAIN4SUSTAIN will be initiated for both professionals (architects and engineers) and students. The first field trial of such a program will be planned in 2023-2024 period. For further information, please contact AM.

- **Within the WG on Research & Tools (WG R&T)**, there will be an activity planning meeting in early 2023 (covering SBTool, SNTTool and resilience and climate change adaptation). For further information, please contact AM.
- A **new WG on membership and partnerships (stakeholder engagement)** will also commence in 2023. For further information, please contact GF.

Appendix A: iiSBE Board of Directors

Prof Greg Foliente – President and Chair (The University of Melbourne, Australia)
 Nils Larsson – CEO (Canada)
 Prof Luis Bragança – Immediate Past-President (The University of Minho, Portugal)
 Andrea Moro – Vice President R&D (iiSBE Italy)
 Bob Bach – Treasurer and Secretary (Canada)
 Ann Edminster – (Design AVEnues LLC, USA)
 Assoc Prof Joseph Yen-Yi Li – (ShuTe University, Taiwan)
 Assoc Prof Katerina Tsikaloudaki – (Aristotle University of Thessaloniki, Greece)
 Prof Cristina Engel – (Universidade Federal do Espírito Santo, Brasil)
 Dr Antonin Lupisek – (Czech Technical University, Czechia)

Appendix B: Team members in the iiSBE Ukraine project

Team members include:

Nils Larsson, FRAIC, Larsson@iisbe.org, CEO of iiSBE and project lead; Ottawa, Canada
 Dr. Kajetan Sadowski kajetan.sadowski@pwr.edu.pl, Assistant professor of Architecture at Wroclaw Uni. of Science and Technology in Poland;
 Dr. Antonin Lupisek antonin.lupisek@cvut.cz is a Board member of iiSBE and Managing Director of the University Centre for Energy Efficient Buildings (UCEEB), Czech Technical University in Prague;
 Ing. Nika Trubina Nika.Trubina@cvut.cz, Researcher, UCEEB, Czech Technical University in Prague;
 Dr. Ümit Ünver, umitunver@gmail.com, University of Yalova Engineering Faculty and Executive Director at ZeroBuild Institute, currently seconded to UCEEB;
 Dr. Andrii Koniuk konyk.a.e@gmail.com is Senior Lecturer of Architecture and Urban Planning at National University Yuri Kondratyuk Poltava Polytechnic; Ukraine;
 Boguslaw F. Witkowski bfwitkowski@gmail.com Master Engineer Architect, Brussels;
 Dr. Woytek Kujawsk wk.kujawski@gmail.com, visiting prof at Wroclaw and Cracow Technical Universities in Poland;
 John Harker LL.D, hjohnharker@gmail.com, former Exec. Director of Canada's Prof. Assoc. of Foreign Service Officers;

Other iiSBE members have also contributed at various stages of the project (e.g., Prof Greg Foliente, iiSBE President and Professor at the University of Melbourne and Dr André Ullal, EPFL Switzerland, among others). Most recently, others have also been added to the project team:

Faruk Kaynakli fkaynakli@hotmail.com, Turkish engineer and software developer
 Ilker Kahraman ilkerkahraman@gmail.com
 Efsar Kara karaefser@gmail.com, Architect and Acoustic specialist, Ottawa, Canada
 Dr. Susanne Krasmann susanne.krasmann@uni-hamburg.de, Professor of Sociology, uni Hamburg

Head of the Irpin Reconstruction project:

Cristián Alfredo Wittig Grell, Cristian Wittig <cawittig@thought.cl>
 International Senior Consultant Reconstruction City of Irpin, Ukraine
 Projects and Studies Director, Thought Group, Integral Infrastructure and Urban Planning Solutions