



BIM based fast toolkit for
Efficient rEnovation in Buildings

D 10.8 Dissemination and Communication Plan - Annual revision 24 M



This project has received funding from
European Union's H2020 research and innovation
programme under grant agreement N. 820660

The content of this document reflects only the author's
view only and the Commission is not responsible for any
use that may be made of the information it contains.

Programmes	H2020
Call for Proposal	LC-EEB-02-2018 Building information modelling adapted to efficient renovation
Project Title	BIM based fast toolkit for Efficient rEnovation in Buildings
Acronym	BIM4EEB
Project Grant Agreement	820660

D 10.8 Dissemination and Communication Plan-Annual Revision 24 M

Work Package	WP 10
Lead Partner	Politecnico di Milano
Contributing Partner(s)	All
Dissemination Level	Public
Type	Report
Due date	31/12/2020
Date	02/02/2021
Version	V 1.0

DOCUMENT HISTORY

Version	Date	Comments	Main Authors
0.1	01.11.2020	Extended ToC to ACE-CAE and Fondazione Politecnico	Cecilia Bolognesi (PoliMi) Tiziana Toniatti (FPM/PoliMi)
0.2	09.12.2020	Comments from Tiziana Toniatti	Tiziana Toniatti (FPM/PoliMi)
0.3	10.12.2020	Editing, reviewing	Larissa De Rosso (ACE)
0.4	16.12.2020	Editing review from T,Toniatti	Tiziana Toniatti (FPM/PoliMi)
0.5	23.12.2020	Comments from J.Drozdzziel	J.Drozdzziel (Prochem)
0.6	28.12.2020	Comments from Hugo Grasset	Hugo Grasset (Solintel)
0.7	31.12.2020	Editing review from Cecilia Bolognesi	Cecilia Bolognesi (PoliMi)
0.8	08.01.2021	Editing, reviewing	Larissa De Rosso (ACE)
0.9	13.01.2021	Editing, reviewing	Cecilia Bolognesi (PoliMi)
1.0	02.02.2021	Final version	Bruno Daniotti (PoliMi)

Statement of originality:

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

BIM4EEB action has received funding from the European Union under grant agreement number 820660. The information in this document is provided "as is", and no guarantee or warranty is given that the information is fit for any particular purpose. The above referenced consortium members shall have no liability for damages of any kind including without limitation direct, special, indirect, or consequential damages that may result from the use of these materials subject to any liability which is mandatory due to applicable law.

EXECUTIVE SUMMARY

The BIM4EEB Communication and Dissemination Plan describes the activities performed and to be performed and the dissemination and communication means that have been used but especially planned to be used in order to promote the BIM4EEB project. Furthermore, it updates the strategies that will be used to communicate and disseminate the project progress, achievements and outcomes to general public and various target audiences.

This plan updates D 10.3 and D10.6 focusing on the third year by completing the plan presented in Annex 1 Description of the Action. It shows how, even in the pandemic phase, dissemination was able to transform itself and move forward. The overall strategy for dissemination and communication and coordinate action is presented in this document divided in two steps: a short summary of the actions carried out from month 12 to month 24 and further actions for the next 12 months.

PUBLISHING SUMMARY

Communication and dissemination through targeting the different audience and consumer groups are the aim of the BIM4EEB approach. This plan aims to make a summary of the past year activities and present the next actions to fulfil the dissemination and communication KPIs established in the project. At the beginning of 2020, the pandemic outbreak required a new approach to the dissemination and communication activities. All actions were shifted to BIM4EEB digital channels. Overall, planned events were highly impacted, as some were cancelled, and others postponed and shifted to online platforms.

This deliverable gives the opportunity to have a glance at the activities performed and plan the upcoming activities. Therefore, the involved partners can better align their activities. The project second year has been the "Tools' development year". During the third, we disseminate them and measure their impact.

TABLE OF CONTENTS

1)	Actions performed in the last 12 months - Brief summary	6
1.1	Dictionary, toolkit new flyer, videos, press releases, web pages	9
1.2	Social networks: Twitter, LinkedIn, newsletter and YouTube channel	15
2)	Actions planned for 2021	18
2.1	E-Workshops/Workshop planned and to be organized	18
2.2	Social media, Newsletter, website	22
2.3	Peer-reviewed scientific publication	22
2.4	Actions with sister projects	24
2.5	A new update for the Communication and dissemination plan	25
3)	Conclusion	26

LIST OF FIGURES

Figure 1:	Screenshot for videos for toolkit	10
Figure 2:	Explaining BIM management system (BIM4EEB website)	10
Figure 3:	BIM4EEB technical terms explained (BIM4EEB website)	11
Figure 4:	Tutorial on YouTube	12
Figure 5:	Second BIM4EEB leaflet	13
Figure 6:	Links to social (BIM4EEB website)	13
Figure 7:	Supporting pages (BIM4EEB website)	14
Figure 8:	Infographics for BIM4EEB tools	14
Figure 9:	New image for BIM4EEB webpage	15
Figure 10:	Interview campaign and partners' presentation	16
Figure 11:	LinkedIn followers	16
Figure 12:	New opportunity of Open Research Europe	24

LIST OF TABLES

Table 1:	Y2 planned conferences	6
Table 2:	Y2 un-planned conferences	7
Table 3:	Overview of dissemination actions performed	8
Table 4:	Overview of dissemination actions for BIM4EEB toolkit	8
Table 5:	Planned vs actual KPIs for Year 2	8
Table 6:	Twitter: Impression and retweets	15

1) Actions performed in the last 12 months - Brief summary

The activities performed in the last 12 months were impacted by the pandemic outbreak at the beginning of 2020. Most of the events that BIM4EEB partners planned to attend were cancelled or postponed. The table below shows the planned events for 2020. The events in green were attended. The events in red were cancelled or not attended due to the COVID outbreak. The events in white were postponed to 2021 or replaced.

Table 1: Year 2 planned conferences.

Fall 2020	Suite 5	Participation to conference	Greece	Energy in buildings	EU	www.ashrae.gr	Cancelled
Fall 2020	Suite 5	Participation to conference	Paphos, Cyprus	Medpower	EU	Medpower2020.org	Replaced by ESC2020 7 th International Conference on Energy
29-30/01/2020	UCC	Participation to conference	Dublin	The IOT and Industry 4.0 expo	EU	www.iotconnectlive.ie	UCC was unable to participate due to the pandemic.
27/02/2020	UCC	Participation to conference	Belfast	Supply Chain Conference and Expo	EU	www.northernirelandmanufacturing.co.uk	UCC was unable to participate due to the pandemic.
March 2020 postponed to June 2020	One Team	Participation to conference	Milan	OneTeam BIM Conference	IT		Attended
April 2020	One Team	Participation to conference	Rome	3D Modelling and BIM	IT		Cancelled
June 2020 postponed to October 2020	One Team	Participation to conference	Milan	OneTeam user meeting	IT		Attended
October 2020	One Team	Exhibition	Bologna	SAIE Bologna 2020 (online)	EU		Low attendance. Project not presented.
Autumn 2020	One Team	Exhibition	Bologna	Digital and BIM	EU		Cancelled
31/01/2020	Rise	Participation to conference	Sodertalje, Sweden	Sodertalje Science week	EU	Sscp.se/scienceweek/om-science-week	Cancelled
01/04/2020	Rise	Participation to conference	Stockholm, Sweden	Nordbygg	EU	www.nordbygg.se	Cancelled
June 2020	Rise	Participation to conference	Gothenburg, Sweden	Sustainable Building Conference	EU	Beyond.se/conference/programme-overview	Cancelled
November 2020	Rise	Participation to conference	Stockholm, Sweden	Kistamassan	EU	Kista.com/english	Cancelled
Summer 2020	Rise	Workshop	Visby, Sweden	Almedalen	EU	-	Cancelled
04/06/2020 - postponed to 18.-20.8.2020	VTT	Participation to conference	Online (Sao Paulo, Brazil)	18th International Conference on Computing in Civil and Building Engineering & 37th International CIB W78 Conference, online conference	World wide	http://www.pcc.usp.br/icccb-e-w78-2020	Attended - online
04/06/2020 Postponed to 07/05/2021	VTT	Participation to conference	Moscow, Russia	13 th European Conference on Product and	Russia	Ecppm2020.org/about	VTT will attend in 2021

				process modelling (ECPM) 2020			
30/09/2020	VTT	Participation to an Event other than a Conference or a Workshop	Online (Helsinki, Finland)	World Summit on Digital Built Environment (WDBE 2020), online summit	FI	https://kirahub.org/en/wdbe2020/	Attended - online
Spring 2020	VTT	Participation to an Event other than a Conference or a Workshop	Espoo, FI	Open clinic of smart Otaniemi innovation ecosystem	FI	Smartotaniemi.fi	VTT was unable to participate due to the pandemic.
24/06/2020	VTT	Participation to an Event other than a Conference or a Workshop	Online (Espoo, Finland)	The results seminar of Digitalizing Construction Workflows (DiCtion) research project in WDBE pre-event session on digitalizing construction workflows, online event	FI	https://kirahub.org/en/wdbe2020/pre-event-digital-situational-awareness-in-construction/	Attended - online
Spring 2020	VTT	Participation to an Event other than a Conference or a Workshop	Espoo, FI	Results seminar of the Building 2030 Consortium	FI	www.aalto.fi/fi/building-2030	VTT was unable to participate due to the pandemic.

The event shown in the table below replaced the Medpower event (Medpower2020.org) reported in the table above.

Table 2: Y2 un-planned conferences. 25/08/2020	SUITE5	Participation to a Conference	Skiathos, Greece, On-line	EU, Worldwide	ESCC2020 7th International Conference on Energy, Sustainability and Climate Change/ "A BIM-Based Toolkit towards Enhancing Energy Efficiency in Building Renovation Activities".
------------------------------------------------	--------	-------------------------------	---------------------------	---------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

In Despite of all cancelations and postponements, BIM4EEB dissemination and communication team replanned and delivered several activities during 2020. The BIM4EEB project kept communicating the latest achievements through all the social media channels (LinkedIn, Twitter and YouTube).

The BIM4EEB interim conference planned for beginning of July 2020 in Milan was postponed to October 2020 as part of the online event of Sustainable Places [D10.7 Interim conference].

At the same event, the day two on Wednesday 28th October BIM4EEB organized and participated in a joint conference with other sister projects a called-Workshop Digitalization Tools for Energy-Efficient Renovation. BIMERR, DigiPLACE, Sphere, BIM4Ren, Encore, BIM SPEED among partners.

<https://www.sustainableplaces.eu/home/sp20-workshops-events/sp20-digitalization-tools-for-energy-efficient-renovation-workshop-2/>

The consortium published 3 scientific papers, organised 3 workshops with stakeholders and participated in several events during 2020.

A timetable of the activities performed during 2020 is summarised in **Table 3**, while **Table 4** summarised the activities promoting and disseminating results specific for toolkit.

Table 3: Overview of dissemination actions performed

Action communication	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24
	Jan 2020	Feb 2020	Mar 2020	Apr 2020	Mai 2020	Jun 2020	Jul 2020	Ago 2020	Set 2020	Oct 2020	Nov 2020	Dec 2020
Workshop organized												
Workshop attended												
Social Media												
Newsletter												
Publication											2	

Table 4: Overview of dissemination actions for BIM4EEB toolkit.

	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24
TOOLS	January	February	March	April	May	June	July	August	September	October	November	December
Social media: Twitter, LinkedIn (Starting date)												
Attended Meetings												
Intern. Conferences, trade fair												
Interaction with sister projet												
Journals, papers												
Workshop												

The BIM4EEB Annex 1 Description of the Action (DoA) establishes KPIs for communication actions during the project's years. The table below presents the expected KPI and the achieved KPI for the project second year (2020).

Most of KPIs were achieved during the past year. Good remark to social media activities that increased during the pandemic. The KPI numbers for the associations was under expected and we will ensure to increase the numbers for the next reporting period.

The newsletter KPI proved to be difficult to be tracked. Instead, we proposed to monitor and increase number of subscribers to the newsletter. We are also considering the number of people that received the newsletter as part of the partners' newsletter or have seen it on social media.

Finally, the renovation industry number were achieved considering the publications at the polish chamber of engineers

(http://www.inzynierbudownictwa.pl/technika,oprogramowanie_komputerowe,artykul,miedzynarodowy_projekt_bim4eeb,11767), and the publication at the Civiltà di Cantiere

(http://www.civiltadicantiere.it/uploads/magazine/document/23/CdC_1_2020_web.pdf),

Table 5: Planned vs actual KPIs for Year 2

Action communication	KEY Performance indicators	Expected	Achieved
Workshop organized	Nr workshop organized	3/90	3/99

Workshop attended	Nr workshop attended/ N stakeholders contacted	7/50	13/9,300 Event attended/workshop attended / stakeholders contacted
Social Media	LinkedIn posts per months/retweeted content/ impressions	7/12/120	Average 9,3/ 248/64.617
	Twitter: N Tweets/Followers/ /interactions/ Likes YouTube videos/views/ Followers		(2019) 15 Tweets/ 124 Followers/ 28.130 impression/ 18 likes 2019 1/270/10 2019 YouTube 8 subscribers/ 138 views (2020) 81 Tweets/ 268 Followers/ 64.617 impression/ 329 likes 2020 40/1671/37 2020 YouTube 39 subscriber/ 2.200 views
Newsletter	Number/invited stakeholders	2/90.000	1/ 200 subscribers at Dec 2020 Shared by ACE+ 10.400 Shared by FFM 18.000 LinkedIn Impressions 471
Publication	N publication in peer review journal and magazines	8	3 (DOI number) and 4 waiting for the DOI number.
Renovation industries	Nr contacted	200	200
Association	N of associations/projects with direct liaisons	Expected 25	5 members of LC-EeB-02-2018 projects + 3 other projects (DigiPlace, BIMzeED and RenoZEB)

1.1 Dictionary, toolkit new flyer, videos, press releases, web pages

After the corporate identity development in the first year, several actions have been taken to strengthen project communication and dissemination. The actions are listed below.

- Enhance the use the BIM4EEB YouTube channel. During 2020, several short videos were created to present the BIMMS system and the six tools, as follows.
 - The system and tools have been presented by seven short movies. They answered the questions; what is it (the tool)? Is it adequate for me? And what are the main functionalities? The videos were shared in BIM4EEB social media between June 2020 and July 2020. This campaign target potential tools users and had the main objective to raise awareness about

the tools.

The videos are available in BIM4EEB website in the Toolkit area. Find the link below.

<https://www.bim4eeb-project.eu/toolkit.html>

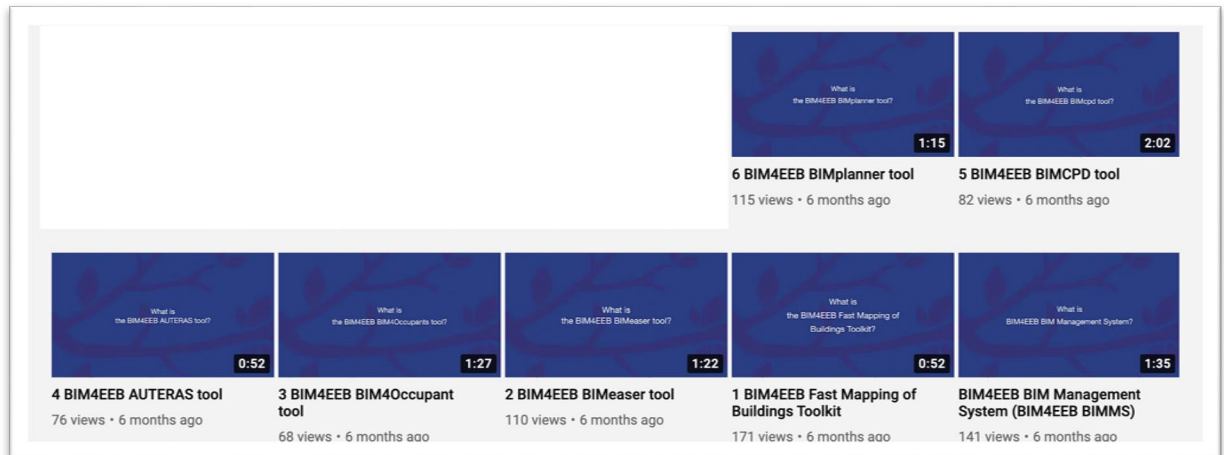


Figure 1: Screenshot for videos for toolkit.

- BIM4EEB Dictionary. A set of 26 short videos were created to explain technical terms used in the project website. The hyperlinks in the text below directs the audience to BIM4EEB dictionary entry.

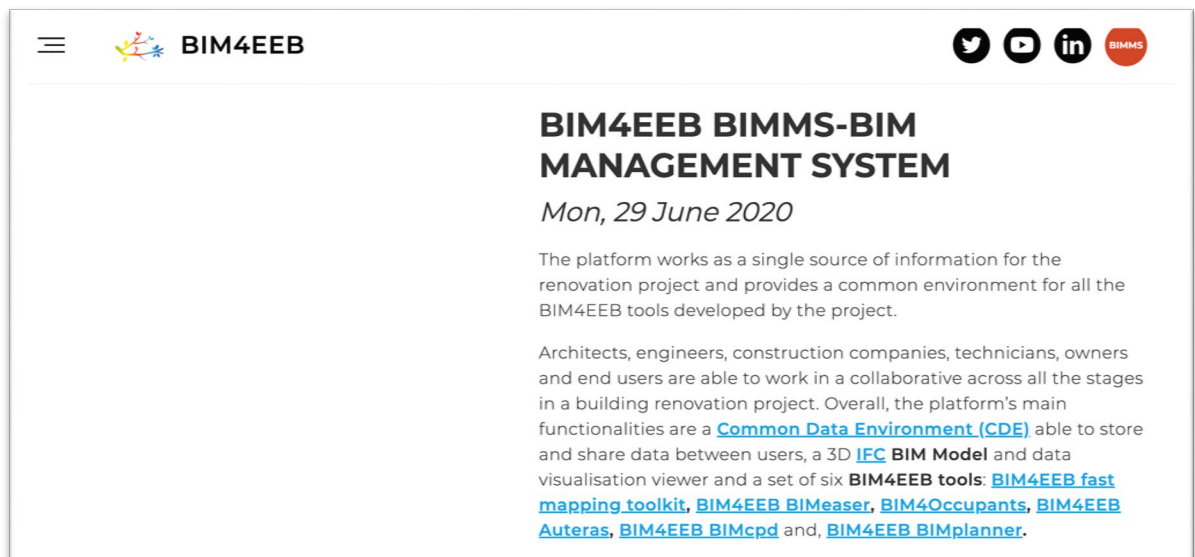


Figure 2: Explaining BIM management system (BIM4EEB website).

The 26 BIM4EEB dictionary videos were posted on all BIM4EEB social media between August 2020 and November 2020. This campaign target general audience that are unfamiliar with the technical terms used in the project. The main object is to raise awareness about the project and bring audience to BIM4EEB website.

The tools are available in the BIM4EEB website in the link below.

<https://www.bim4eeb-project.eu/pressroom.html?cat=dictionary>

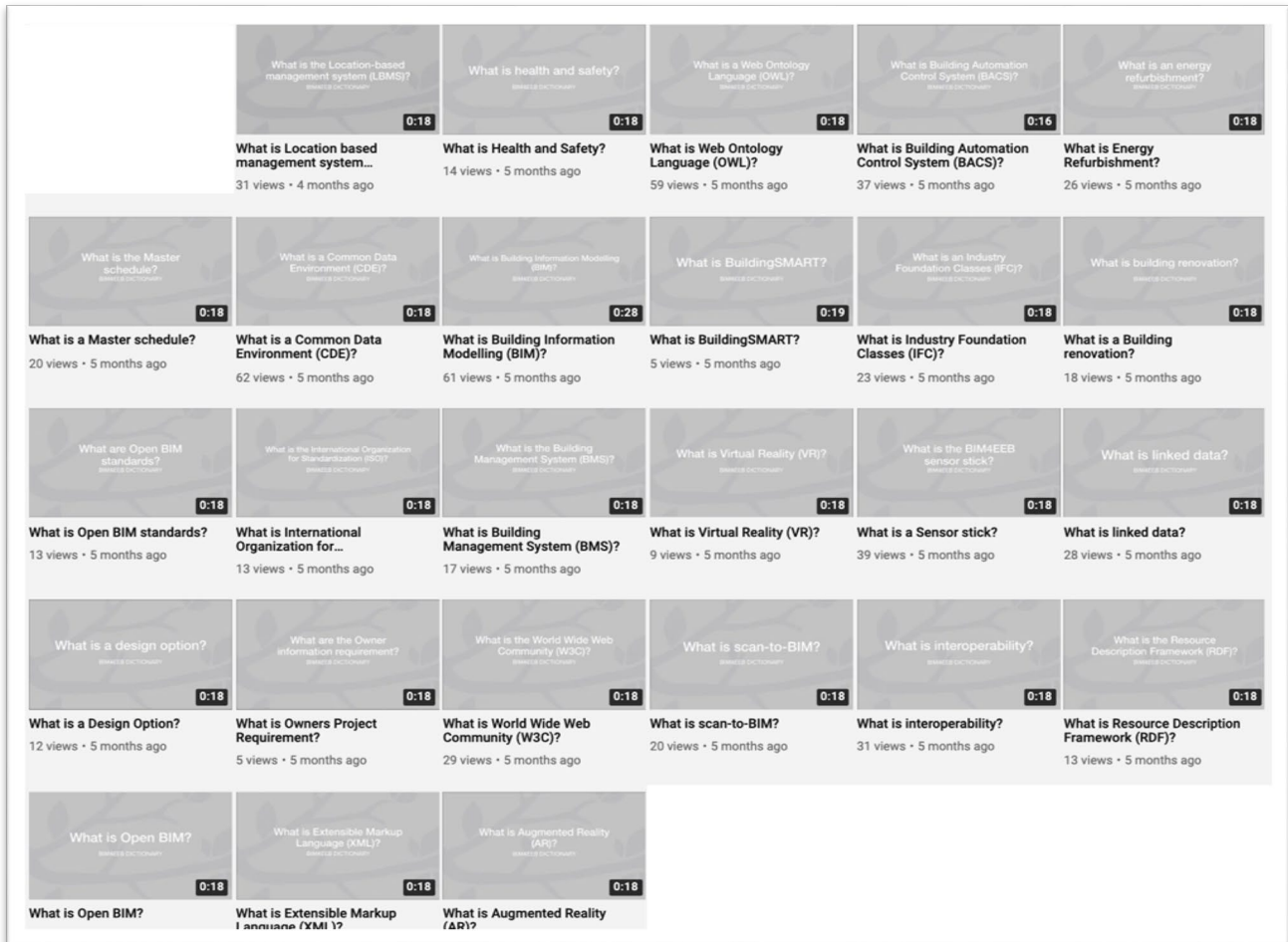


Figure 3: BIM4EEB technical terms explained (BIM4EEB website).

- Six tutorial videos – The tools and the BIM management system are shown in use. The videos were prepared by the partners and presented at the BIM4EEB Interim conference at SP2020.

The videos can be found in the link below

<https://www.youtube.com/watch?v=Iz7jUOKP24M&list=PL6z7F20dLJpBLCYUCAU3NnqqEQHrWxHHW>

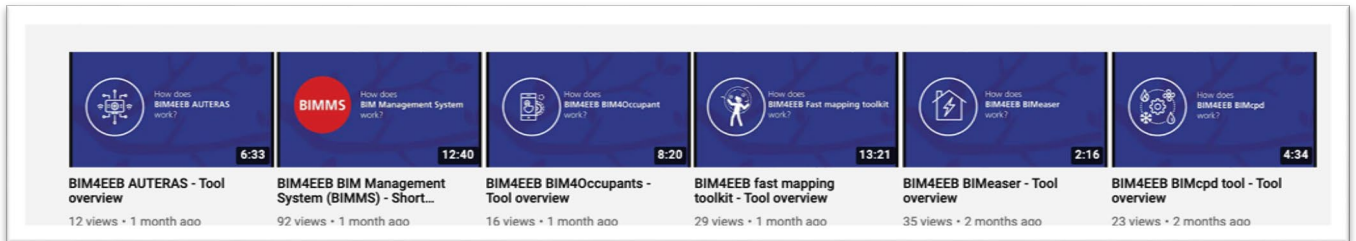


Figure 4: Tutorial on YouTube.

Second BIM4EEB leaflet. The leaflet presents the BIM Management System and tools. The leaflet will be translated in all partners language and shared on BIM4EEB social media in 2021.



BIM4EEB TOOLKIT

BIM4EEB project has developed a complete BIM-based toolkit for the renovation of existing residential buildings. It encompasses the BIM Management System (BIMMS) and the six tools that create a more efficient flow of information, while improving building performance, quality, and comfort for inhabitants.

BIM4EEB toolkit and method is expected to reduce

- 50% of the energy audit time*
- 20% of construction time*
- 15% of renovation costs*
- 10% of net primary energy*

*Compared to a traditional building renovation method

The toolkit and methods will be validated in three demonstration cases in Italy, Finland and Poland.

OUR PARTNERS

- polimi.it
- vtvresearch.com
- solintel.eu
- ri.se
- ucc.ie
- ierc.ie
- suite5.eu
- oneteam.it
- tu-dresden.de
- caverion.com
- visuallynk.com
- ace-cae.eu
- cgi.se
- regione.lombardia.it
- alenvarese.com
- prochem.com.pl

BIM4EEB PRESENTS

BIM TOOLKIT FOR EFFICIENT BUILDING PERFORMANCE RENOVATION

Timeline:

- Jan 2019: Project starts
- Dec 2020: Toolkit delivered
- Dec 2021: Demonstration Cases validation
- Jun 2022: Project ends

Project location map showing Italy, Finland, and Poland.

Project photo showing a group of people in a modern building.

Recycling logo: Carta Offset is a 100% recycled paper, FSC Recycled certified and is produced in EMAS and ISO 14001 accredited facilities.

Social media: @BIM4EEB, BIM4EEB, BIM4EEB

Website: www.bim4eeb-project.eu

EU Commission logo and disclaimer: This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 820660. The content of this leaflet reflects only the author's view and the Commission is not responsible for any use that may be made of the information it contains.

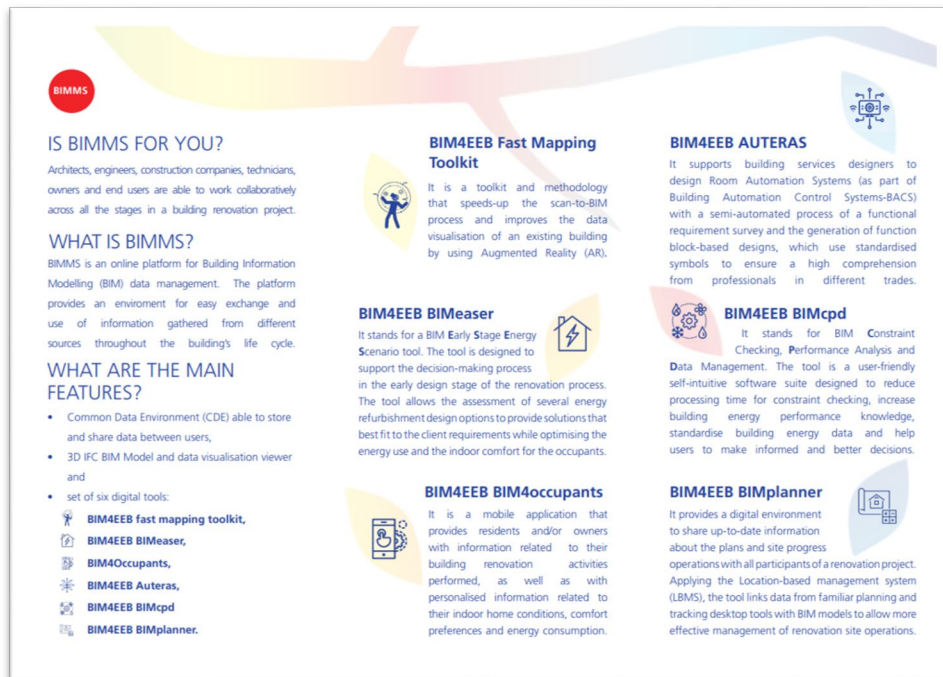


Figure 5: Second BIM4EEB leaflet.

- New website area – Toolkit area. The BIM management system and the six tools have been explained in this area. <https://www.bim4eeb-project.eu/the-project.html>
- New button on the top at the right-hand side to BIM4EEB webpage. The BIMMS button is an easy access to the BIM Management System and tools.



Figure 6: Links to social (BIM4EEB website).



Figure 7: Supporting pages (BIM4EEB website).

- 2 press releases issued. The first released at the beginning of 2020 presenting the first-year results. The second press release were related to the interim conference.
- 6 infographics describing the tools were created and presented at the Interim Conference.

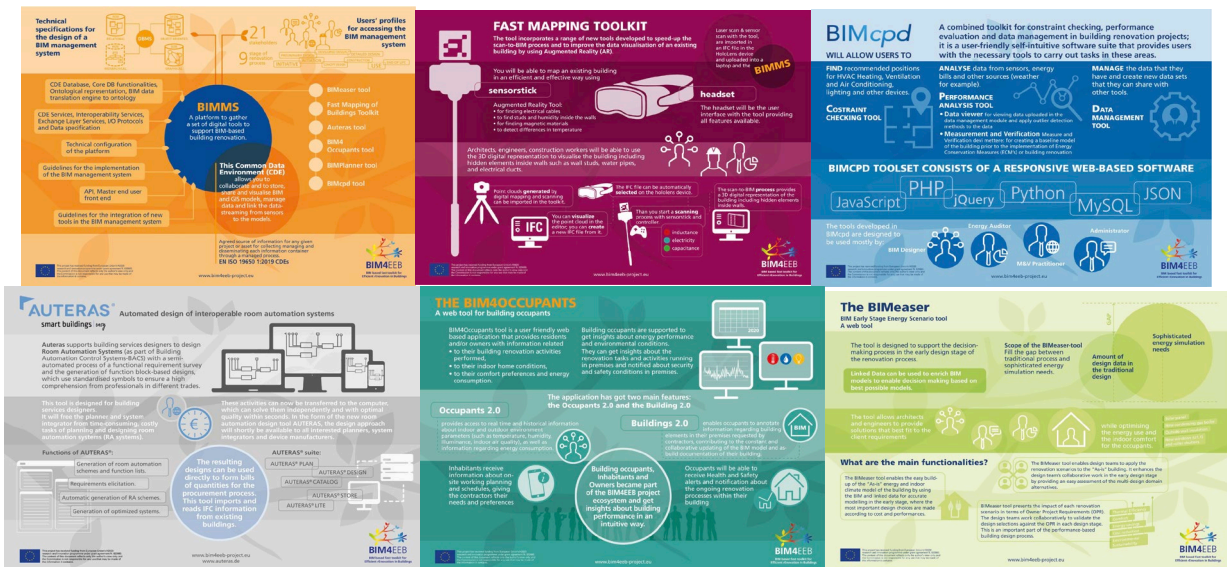


Figure 8: Infographics for BIM4EEB tools.

- The home website was updated with the second year of the project.



Figure 9: New image for BIM4EEB webpage.

- 16 new articles were uploaded to the website. Three of them were also published in BUILDUP platform.

1.2 Social networks: Twitter, LinkedIn, newsletter and YouTube channel

The Dissemination and Communication activities in the digital channels were prioritised after the pandemic outbreak. All social media channels had a considerable increase in followers and interactions, as it can be seen in the tables and graphics below.

In twitter there was an increase of 193 followers from 70 to 263 members.

The social media campaigns have also increased the numbers of impression (first row) and the retweets (second row).

Table 6: Twitter: Impression and retweets.

nov-19	dic-19	gen-20	feb-20	mar-20	apr-20	mag-20	giu-20	lug-20	ago-20	set-20	ott-20	nov-20	dic-20
3029	5429	4439	11300	9806	8063	7087	5074	4548	1790	2531	1430	5341	848
13	20	11	59	34	30	24	24	19	2	7	11	18	2

The increase in numbers at the beginning of the year can be attribute to a campaign that presented the project partners.

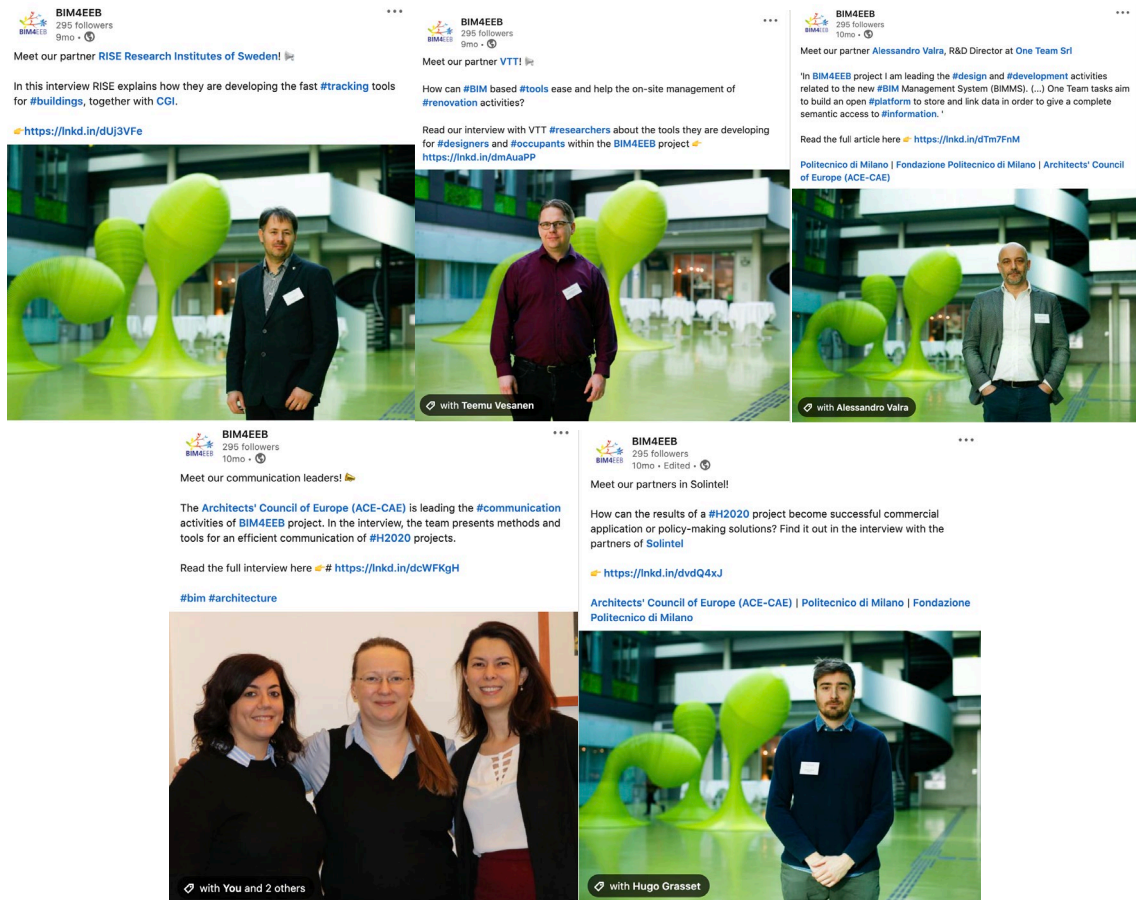


Figure 10: Interview campaign and partners' presentation.

In LinkedIn there was an increase of 234 followers from 61 to 295 members. The graph below shows the highest peak during February 2020 when the “meeting the partners” campaign started.

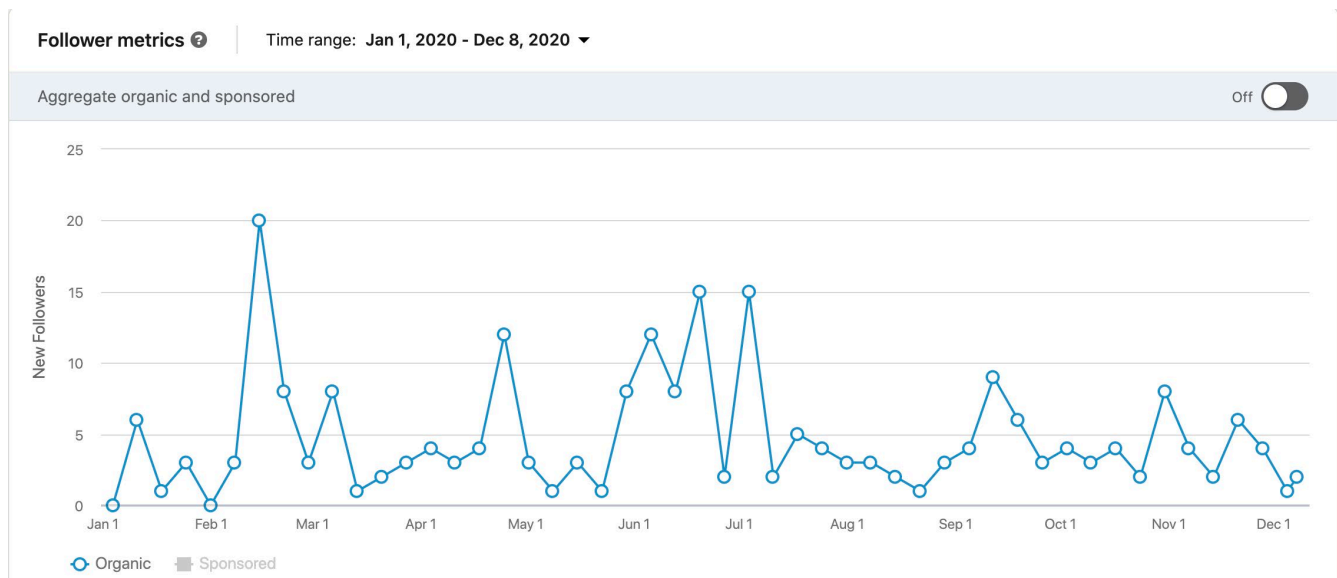


Figure 11: LinkedIn followers



Newsletter had an increase of 100%subscribers. Currently, the newsletters are received by 210 subscribers.

2) Actions planned for 2021

The analysis of the activities from the past 24 months provide us the feedback needed to plan the 2021 activities. The main objective is to preserve the good performance reached and to improve some points that were poorly addressed during 2020 due to the pandemic measures.

The digital actions of socials, video, newsletters, website, news and deliverable updates had good results and the actions will be maintained during 2021. On the other hand, the efforts will increase to address the shortfall in the performed KPI related to scientific publications, the collaboration with other sister projects, and the contact with the renovation industries.

The sections below present the future actions planned for the project considering the proposed actions in the DoA.

2.1 Proposed targets in the DoA

The DoA sets the targets for dissemination and communication activities along the project. The table below shows the targets for the three year of the project. In this report, we will focus only in the plan activities to fulfil the targets for the year 3.

Table 9 – KPIs for activities and timing

Action communication	in Key Performance Indicator (KPI) measures	Year 1	Y2	Y3	Beyond Y3
Workshops organised	Nr. workshops organised by partners / N. of stakeholders involved	2 / 80	3 / 90	3 / 120	4/150
Workshops attended	Nr. workshops attended with presentations / Nr. stakeholders contacted	5 / 30	7 / 50	7 / 70	
Social media	LinkedIn: posts per months /retweeted content/impressions	5/10/100	7/12/120	7/12/120	5/10/100
Newsletters	Number / invited stakeholders with redemption 10%	2 / 80'000	2 / 90'000	2 / 100'000	1/ 100'000
Publications	Nr. publications in peer-review journal and magazines	4	8	8	2
Architects/designers	Nr. contacted	100'000	100'000	100'000	100'000
Renovation Industries	Nr. contacted	3'000	3'000	3'000	4'000
Associations	Nr. of associations/projects with direct liaisons	20	25	30	30

2.1 E-Workshops/Workshop planned and to be organized

The year 3 of the project, the consortium partners are required to organise 3 workshops with 120 stakeholders involved. All the wrokshop will be held online.

The three e-workshops will be run in each demonstration building. They will present the application of the tools to real cases, the intention is to prepare knowledge-related activities and training related to BIM4EEB tools in order to get closer to the SMEs world. Some of the local SMEs will be involved.

All partners will be required to create the content for the e-workshop planned for september. In case pandemic situation will allow it in presence the workshops will be shifted in an appropriate date. ACE and PoliMi will coordinated the work. Aler VCMB and Regione Lombardia will assist in the italian workshop. Prochem will assist in the Polish workshop. Caverion and VTT will assist the Finnish workshop.

The workshop will be translated in the local language.

	Partners involved	2021											
		Jan	Fev	Mar	Apr	Mai	Jun	Jul	Ago	Set	Out	Nov	Dec
Organised Workshop Polish Democase	ACE, PoliMi, Prochem. Content – all partners												
Organised Workshop Finnish Democase	ACE, PoliMi, Caverion, VTT. Content – all partners												
Organised Workshop Italian Democase	ACE, PoliMi, Aler, RegioLomb. Content – all partners												

The partners should also fulfill the target for workshop attended. For year 3 the partners should attend to at least 7 workshops and a total of 70 stakeholders contacted.

The table below presents some workshops and events that the project partners consider to attend or organise.

ACE: • Internal events: the project objectives and progress will be regularly presented to Work Group meetings of the ACE such as Work Groups Environmental and Sustainable Architecture and Urban issues / ACE General Assembly taking place twice every year and which is attended by around 100 architects, all delegates of the ACE member organisations; two where the project will be presented, General Coordination Meetings and six Executive Board Meetings.

• External events: Externally we can promote the project during the consortium meetings of the other EU funded projects we are involved in: ABRACADABRA, BIMplement, RenoZEB and TripleAReno taking place each twice a year.

Lombardy Region: 1 meeting dedicated to building societies involved in social housing

PoliMi: “BIM in building renovation” - workshop to discuss the benefits of BIM with the relevant stakeholders, External events: MADE EXPO, SAIE, exhibitions, workshops in builder association and public administration

OneTeam: SAIE, MADE Expo, MCE Expoconfort, MECSPE, Industry 4.0, Autodesk User Meetings, ESRI User Meetings, IoT initiatives

VisualLynk: ECPPM (European Conference on Product and Process Modeling)

LDAC (Linked Data in Architecture and Construction Workshop), Workshops to organize LDAC in Finland

RISE: organiser of an annual sustainable building event

SUITE5: 3 relevant thematic events CEBIT, WebSummit, Smart Greens Conference,

SOLINTEL: participation and organisation of workshop in CEVISAMA fair

TUD: “Lange Nacht der Wissenschaften Dresden”, yearly event in Dresden for showing research to the public

VTT: workshop to discuss the benefits of BIM with the construction companies and building owners “BIM in renovation to support optimal measures selection”

Also, the events below are being considered :

<https://europeanbimsummit.com/en/>



22 Y 23 ABR. 2021
*Attendance Based and
Streaming*

<https://www.wessex.ac.uk/conferences/2021/bim-2021>



BIM 2021

<https://www.bimandbrick.it/it/> To be considered especially for renovation industries



<https://eusew.eu/>



where we can have more possibilities to disseminate among groups of construction SMEs

2.2 Social media, Newsletter, website

Along the year 3, the project will focus the social media campaigns in the tools and the validation in the demonstration buildings and keeping the target well achieved in the past year.

The workshop recording will also be hosted by the BIM4EEB YouTube channel and disseminated in all BIM4EEB social media.

A special edition of the newsletter will delivered information on BIM4EEB sister project and the collaboration done and envisage in during 2021. The next edition will focus on the demonstration building and the tools validation.

We will continuously invite our stakeholders to subscribe to our newsletter through our social media channels and our partners network.

A specific webpage will be organized in order to help dissemination of tools by SMEs.

2.3 Peer-reviewed scientific publication

The target for the second year of the project was to publish 8 peer-reviewed scientific publications. The consortium was able to publish (DOI number) the 3 following papers.

1) "An approach for standardization of semantic models for building renovation processes". C. Mirarchi, M. N. Lucky, S. Ciuffreda, M. Signorini, S. Lupica Spagnolo, C. Bolognesi, B. Daniotti, and A. Pavan Politecnico di Milano, Department of Architecture, Built environment and Construction engineering, Milan, Italy. (POLIMI) <https://doi.org/10.5194/isprs-archives-XLIII-B4-2020-69-2020>

2) Valluru P., Karlapudi J., Menzel K., Mätäsniemi T., Shemeika J. (2020) A Semantic Data Model to Represent Building Material Data in AEC Collaborative Workflows. In: Camarinha-Matos L.M., Afsarmanesh H., Ortiz A. (eds) Boosting Collaborative Networks 4.0. PRO-VE 2020. IFIP Advances in Information and Communication Technology, vol 598. Springer, Cham. https://doi.org/10.1007/978-3-030-62412-5_11

3) Karlapudi J., Menzel K., Törmä S., Hryshchenko A., Valluru P. (2020) Enhancement of BIM Data Representation in Product-Process Modelling for Building Renovation. In: Nyffenegger F., Ríos J., Rivest L., Bouras A. (eds) Product Lifecycle Management Enabling Smart X. PLM 2020. IFIP Advances in Information and Communication Technology, vol 594. Springer, Cham. https://doi.org/10.1007/978-3-030-62807-9_58

The consortium has also prepared 4 other papers (see list below) that are waiting for the DOI numbers.

1. KARLAPUDI J., MENZEL K.: Analysis on automatic generation of BEPS model from BIM model: in: Proceedings of BauSIM2020 -8th IBPSA-Conference Germany/Austria.
2. Signorini M., Lupica Spagnolo S.: "Building renovation process map in private and public works to improve communication and data exchange", ICAMC 2020- 2020 6th International Conference on Architecture, Materials and Construction (University of Lisbon, Portugal - October 27-29, 2020) to be published in IOP Conference Series: Materials Science and Engineering (indexed by Scopus), DOI required
3. Signorini M., Lupica Spagnolo S., Dejacó M.C. "A Digital Logbook as an Interactive Tool to Fulfil Service Companies' Needs and Requirements in Building Renovations", ICAMC 2020- 2020 6th International Conference on Architecture, Materials and Construction (University of Lisbon,

Portugal - October 27-29, 2020) to be published in IOP Conference Series: Materials Science and Engineering (indexed by Scopus), DOI required.

4. BIM4EEB: a BIM-based toolkit for Efficient rEnovation in Buildings. Prof. Dr. Bruno Daniotti, Prof. Dr. Gabriele Masera, Prof. Dr. Cecilia Maria Bolognesi, Dr. Sonia Lupica Spagnolo, Dr. Alberto Pavan, Prof. Dr. Giuliana Iannaccone, Mrs. Martina Signorini, Mr. Simone Ciuffreda, Dr. Claudio Mirarchi, Dr. Meherun Lucky, Mr. Marco Cucuzza, M.Ed. Birgitta Andersson, B.Sc. Per Andersson, Mr. Alessandro Valra, Mr. Davide Madeddu, Mr. Jacopo Chiappetti, Mr. Diego Farina, Dr. Seppo Törmä, Dr. Markku Kiviniemi, Dr. Rita Lavikka, Mr. Spiros Kousouris, Mr. Kostas Tsatsakis, Mr. Jari Shemeikka, Mr. Teemu Vesanen, Dr. Ala Hasan, Mr. Teemu Mätäsniemi, Mr. Brian O'Regan, Mr. Eoin O'Leidhin, Ms. Farah Tahir, Ms. Karen Mould, Mr. Stephen O'Donovan, Msr. Sinead O'Sullivan, Dr. Andriy Hryshchenko, Dr. Dominic O'Sullivan- Buildings (ISSN 2075-5309)

There are 6 other DOI required Non-Peer-Reviewed publications

1. Workshop: BIM4EEB: A BIM-Based Toolkit for Efficient rEnovation in Buildings <https://doi.org/10.3390/proceedings2020065017>
2. The BIM Management System: A Common Data Environment Using Linked Data to Support the Efficient Renovation in Buildings <https://doi.org/10.3390/proceedings2020065018>
3. Towards BIM-Enhanced Renovation Management Tools with Support to Stakeholder Interaction <https://doi.org/10.3390/proceedings2020065015>
4. Early stage energy refurbishment assessment using high-end BIM data, benefits and challenges <https://doi.org/10.3390/proceedings2020065028>
5. BIMcpd: A combined toolkit for constraint checking, performance evaluation and data management in building renovation projects
6. AR-technology for Fast Mapping of Buildings

In order to improve the results of published scientific papers (peer reviewed and open access papers) and considering the third year of the project will provide more content for publication, as the tools will be tested in the Demo cases, we are expecting the publication numbers to increase. The target platform and journals will be the OpenAIRE platform, the new Open Research Europe platform, and some "more relevant" journals such as Automation in Construction, Journal of Web Semantics. During the third year, the project partners will look for planned calls of the year, and also permanent calls, as follows.

- [Full research papers](#)
- [Survey articles](#)
- [Dataset Descriptions](#)
- [Descriptions of ontologies](#)
- [Application reports](#)
- [Reports on tools and systems](#)
- [Special issue proposals](#)

The partners are encouraging to publish in these platforms.

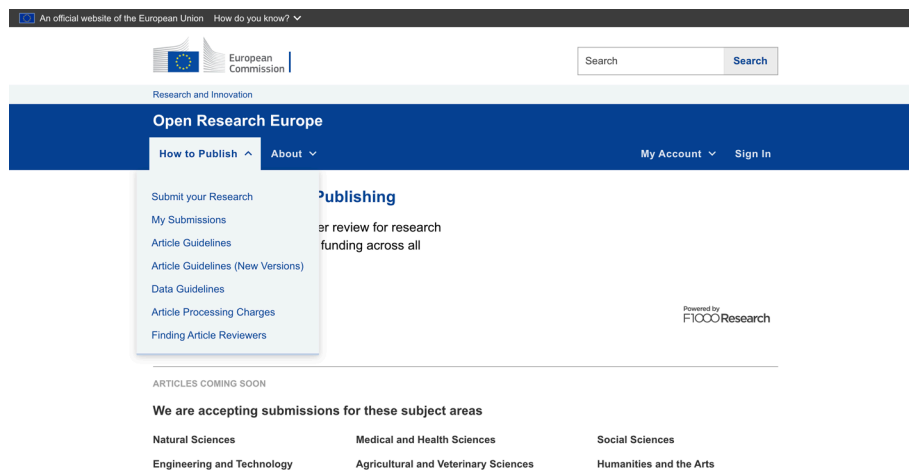


Figure 12: New opportunity of Open Research Europe.

2.4 Actions with sister projects

Participation in calls and meetings with sister projects has highlighted points of possible common applications that now need to be explored.

This has become mandatory considering BIM4EEB, BIMERR and BIM-SPEED Ontologies.

A specific workshop with online meetings will be organized to share progress and links and align these three vocabularies and ontologies among the 3 project involved, possibly in June 2021.

Specific minutes will be shared among partners about that and short results shared on the website.

This event can be planned as a place where these three projects can present the developments, opening the discussion between the technical staff.

Network contact

All partners are required to support the dissemination and communication activities of the project by contact their respective network as presented in the table below.

	Individual dissemination
Reference associations or stakeholders you consider in this step of dissemination	<p>PoliMi: European Construction, built environment and energy efficient building Technology Platform (ECTP), Italian Construction Technological Platform, Chair of the FOCUS Area ICT & Processes, ISTEA Italian Society of Technology, Engineering and Architecture, member of the Steering Committee, iiSBE (International Initiative for a Sustainable Built Environment)</p> <p>PROCHEM: Chamber of Construction Designing and Polish Association of Building Managers</p> <p>RISE: Swedish board of National Renovation Center, Swedish national research environment for sustainable integrated renovation SIREn, Swedish Strategic Innovation Program Viable Cities</p> <p>SOLINTEL: European Construction Technology Platform (ECTP), Energy-Efficient Buildings E2B EI association, Ad-Hoc Advisory Industrial Group for the European Commission</p> <p>TUD: IEEE IES TC BACM and IEEE Smart Cities - VDI 3805, VDI 3812, VDI 3814 (National (German) standardisation boards)</p> <p>Visualynk: Building Smart International, Linked Data Working GroupV, Web Consortium,</p> <p>VTT: IEA EBC (International Energy Agency's Energy in Buildings and Communities Programme); IBPSA-Nordic (The Nordic regional affiliate of IBPSA (International Building Performance Simulation Association) World)</p>

The partners are required to communicate and disseminate the project workshops, events, newsletters, in order to achieve the required numbers of architects, renovation industry and associations stated in the DoA.

2.5 A new update for the Communication and dissemination plan

Considering the commitments for the dissemination of the next 12 months it is decided to organize a next release of this plan up to month 36 for any improvements before the end.

3) Conclusion

This dissemination and Communication plan was built on the experience of the previous years. It recognises some shortfall in the past year and establishes clear objectives for the next year with regard to the dissemination activities listed above.

The third year of the project communication and dissemination will present the activities performed in the Demonstration Buildings. It will follow the validation activities and promote the project toolkit. During this year, a close collaboration with the exploitation work package will be seek.

Partners' participation in WP10 is a key aspect for the successful achievement of the targets.