



BIMplement

Towards a learning building sector by setting up a large-scale and flexible qualification methodology integrating technical, cross-craft and BIM related skills and competences.

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Report:	D4.1 List of criteria and of the selected territories
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HISTORY OF CHANGES		
VERSION	PUBLICATION DATE	CHANGE
1.0	31-08-2020	Initial version
1.1	29-01-2021	Revision due to the review meeting, extension of different parts with more details

Executive summary

The Deliverable **D4.1 List of criteria and of the selected territories** presents an overview of the criteria developed for the choice of pilots territories and locations in France, Lithuania, Netherlands, Spain and Poland.

Based on these criteria, the selection of territories has been done by the BIMplement partners for their own country : 8 territories in France, 3 territories in Poland, 2 in Lithuania and 1 territory in Netherlands and Spain.

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1. CRITERIA FOR THE CHOICE OF THE LOCAL PILOT TERRITORIES

In the Task 4.1, criteria is to be developed for the choice of pilots territories and locations in France, Lithuania, Netherlands, Spain and Poland.

Local pilots' territories is where BIMplement methodology will be tested. Two kind of pilots are to be distinguished: pilot field labs, and pilot experimental sites.

- **Pilot field labs** will be national or regional BIM-learning Centres where will take place both the trainings of "BIM workplace trainers" and the first tests of BIMplement tools and learning methods (it was planned to work with 3 pilot field labs in France and one in each other Member States).
- **Experimental sites** will be construction or renovation-building sites where tools and learning methods already experimented in "pilot field labs" will be implemented. On these experimental sites, trainers will be the "BIM workplace trainers", and trainees will be the blue and white collars working on-site.
- Sometimes, pilot field labs and experimental sites might be located at the same place. This could be explained by the fact that workers may not always leave construction sites. It is therefore, more convenient to carry these trainings at the workplace.

The criteria for the choice of local pilot territories were:

- To have an organization with the competencies and willing to be the "BIMplement project leader" for this territory (one of its employees is designated and trained as "BIMplement coach". He/she is in charge of implementing the BIMplement project in its territory by mobilizing stakeholders, finding and documenting potential field labs and experimental sites, and by coordinating the implementation of the project in its territory).
- To have a size within a range of 100,000 up to 1 million inhabitants.
- To have opportunities for experimental sites on which the BIM workplace trainer will provide white and blue-collar workers with training.

After the start of the project, it appeared that the size criteria has to be modified, with an enlarged population in order to include important cities, metropolitan are or region.

The criteria for the choice of the pilot field lab(s) are:

- Has to be in (or very near) a local pilot territory
- Is serving as an experience center / platform for building up and sharing BIM experience.
- Will be made suitable for testing of the BIMplement tools method (proof-of-principle testing); BIMplement tools and methodologies:
 - BIM-models
 - Has room/facilities for preparing the combination of BIMmodel & BIMplement-stuff
 - Measurement devices
 - Tablets/smartphones....
- Has training facilities for training of the workplace trainers

Besides the criteria above, it is an opportunity if the field-labs:

- Offer SME's to make a head start with their first BIM-projects without the hassle of deep investments in infrastructure first.
- are the breeding grounds for BIM enabled learning networks and awareness building.
- are open for unemployed and apprentices, working with straight forward personal learning contracts (payable with social capital, for example by drawing 3D models, coaching of other learners or describing lessons learned).

The criteria for the choice of an experimental site are:

- Has to be in a local pilot territory
- Involved stakeholders are willing to:
 - provide the BIM-model / relevant parts of the BIM-model
 - dedicate some time for answering questions
 - dedicate some time for pilot-'briefings' / stand-ups
 - Appoint a workplace trainer who is responsible for the pilot(s) on the experimental site
 - Give the workplace trainer time and authority to co-organize and perform the pilot(s)

2. LIST OF THE SELECTED LOCAL PILOT TERRITORIES

2.1 List of the 15 territories selected

Based on these criteria, the selection of territories has been done by the BIMplement partners for their own country : 8 territories in France, 3 territories in Poland, 2 in Lithuania and 1 territory in Netherlands and Spain.

See the list of the selected territories below :

- ✓ Province of Zuid-Holland (Rotterdam and Delft)
- ✓ Vilnius Municipality (Lithuania)
- ✓ Kaunas Municipality (Lithuania)
- ✓ The region of Valencia (Spain)
- ✓ The city of Poznań (Poland)
- ✓ The city of Warsaw (Poland)
- ✓ The city of Zielona Góra (Poland)
- ✓ The Saint-Quentinois territory (Hauts-de-France)
- ✓ The European Metropole of Lille (Hauts-de-France)
- ✓ The Lens-Liévin et Hénin-Carvin territory (Hauts-de-France)
- ✓ The Cambrésis territory (Hauts-de-France)
- ✓ Besançon (Bourgogne Franche Comté region)
- ✓ Dijon (Bourgogne Franche Comté region)
- ✓ Pays Voironnais et Sud Grésivaudan (Auvergne-Rhône-Alpes region)
- ✓ Bouches-du-Rhône (PACA region)

2.2 Details of the territories selected

See below the detail of the selected local pilot territories

- ✓ Name of the territory
- ✓ Population
- ✓ Name of the BIMplement project leader
- ✓ Pilot field lab identified
- ✓ Experimental sites identified

2.2.1 Netherlands

Name of the territory	Province of Zuid-Holland (Rotterdam and Delft)
Population	3.6 million
Name of the BIMplement project leader	ISSO and HIA
Pilot field lab identified	Bouwcampus Delft Delftse Poort Rotterdam
Experimental sites identified (if any)	Utrecht (Hogeschool Utrecht) BIM Center BAM (construction company)

2.2.2 Lithuania

Two territories had been selected in Lithuania.

Name of the territory	<p>Vilnius Municipality (Lithuanian Capital) https://skaitmeninestatyba.lt/projektai/</p> <p>From the Year 2016 Annual Best Lithuanian BIM projects awards competition started. More information about Contest results:</p> <p>Lithuania developing and implementing BIM methodology at national level started at the year 2006 from Lithuanian Builders Association initial investigation initiatives. Annual International Digital Construction Vilnius conferences started from 2012. At the Year 2014 Public non profit institution “Skaitmeninė statyba” (“Digital Construction”) were established by 13 main Lithuanian construction sector associations and coordinates the digitalization process of Lithuanian construction sector at national level.</p> <p>https://skaitmeninestatyba.lt/en/about-us/</p>
Population	306800
Name of the BIMplement project leader	LBA
Pilot field lab identified	Not yet
Experimental sites identified (if any)	Will be selected for the period of trainings start.

Name of the territory	Kaunas Municipality (Second largest city in the center part of Lithuania)
Population	306 800
Name of the BIMplement project leader	LBA
Pilot field lab identified	Not yet
Experimental sites identified (if any)	Will be selected for the period of trainings start.

2.2.3 Spain

Name of the territory	<p>The region of Valencia</p> <p>In Spain, it has been no possible to fit the size criteria for the pilot territory (100,000 up to 1 million inhabitants). The level of BIM implementation in Spain is in its early stage. This implies some difficulties when finding experimental sites. To enlarge the size of the pilot territory will increase the possibility of finding experimental sites and projects of higher quality. In addition, IVE has competences at regional scale.</p> <p>Therefore, the same opportunities to all regional entities or companies that are willing to participate should be given, regardless of their business territory.</p>
Population	4.935.182
Name of the BIMplement project leader	IVE – Valencia Institute of Building
Pilot field lab identified	Laboratory for construction practices of LABORA in Picanya village (cancelled due to COVID-19)
Experimental sites identified (if any)	<p>BECSA: employment, training and entrepreneurship office (Valencia, Spain) https://www.bimplement-project.eu/project/becsa/</p> <p>OBREMO: Tourism development and acceleration center of Valencia (Valencia, Spain) https://www.bimplement-project.eu/project/obremo-tourism-center-valencia/</p> <p>CLÁSICA URBANA: residential building (Valencia, Spain) https://www.bimplement-project.eu/project/clasica-urbana-residential-building/</p>

2.2.4 Poland

Three territories had been selected in Poland.

Name of the territory	City of Poznań
Population	539 549
Name of the BIMplement project leader	Mostostal
Pilot field lab identified	nZEB Faculty of Architecture and management Engineering Poznań University of Technology (construction office)
Experimental sites identified (if any)	nZEB Faculty of Architecture and management Engineering Poznań University of Technology

Name of the territory	City of Warsaw
Population	1 758 143
Name of the BIMplement project leader	Mostostal
Pilot field lab identified	Mostostal office
Experimental sites identified (if any)	Not yet

Name of the territory	Zielona Góra
Population	138 898
Name of the BIMplement project leader	Mostostal
Pilot field lab identified	Commercial center Focus Mall (construction office)
Experimental sites identified (if any)	Commercial center Focus Mall

2.2.5 France

These are the territories that had been selected in France.

Name of the territory	Saint-Quentinois (Hauts-de-France)
Population	131 824
Name of the BIMplement project leader	Employment House of Saint Quentin
Pilot field lab identified	Zodiak Pilot project
Experimental sites identified (if any)	Construction of 13 dwellings, Hirson (FIT) Construction of a hosting shelter, "La Vallée", Origny Ste Benoite (FIT)

Name of the territory	European Metropole of Lille (Hauts-de-France)
Population	1 133 920
Name of the BIMplement project leader	Employment House of Lille Lomme Hellemmes
Pilot field lab identified	-
Experimental sites identified (if any)	New dwellings, Salomé (FIT) School group, Haubourdin (FIT)

Name of the territory	Lens-Liévin et Hénin-Carvin territory (Hauts-de-France)
Population	366 823
Name of the BIMplement project leader	Employment House of Lens-Liévin et Hénin-Carvin
Pilot field lab identified	-
Experimental sites identified (if any)	Dwellings renovation Hornaing (FIT) Public Multi-activity building, Grenay (FIT) Public building, Libercourt (FIT) Renovation of 118 dwellings, Mericourt (FIT) Renovation of 279 individual dwellings, Rouvroy (FIT) Media library, Courcelles les Lens (FIT)

Name of the territory	The Cambrésis territory (Hauts-de-France)
Population	158 578
Name of the BIMplement project leader	Employment House of the Cambrésis
Pilot field lab identified	-
Experimental sites identified (if any)	Renovation and extension of a school group "School Aragon", Fourmies municipality (FIT) Reconstruction and extension of the new Music Academy of Solesmes (FIT)

Name of the territory	Besançon / Bourgogne Franche Comté region
Population	138 691
Name of the BIMplement project leader	Employment House of Dijon (CREATIV')
Pilot field lab identified	-
Experimental sites identified (if any)	Lycée Pergaud : restructuration high school girls residence

Name of the territory	Dijon / Bourgogne Franche Comté region
Population	334 545
Name of the BIMplement project leader	Employment House of Dijon (CREATIV')
Pilot field lab identified	Dijon: renovation of a swimming pool in aquatic center - Carroussel
Experimental sites identified (if any)	Wooden houses Saint-John-Perse, Dijon

Name of the territory	Pays Voironnais et Sud Grésivaudan (Auvergne-Rhône-Alpes region)
Population	107 695
Name of the BIMplement project leader	Employment House of the Pays Voironnais et Sud Grésivaudan
Pilot field lab identified	Voreppe : Renovation of 3 residential buildings, 338 dwellings - Voiron
Experimental sites identified (if any)	Thermal rehabilitation of 2 social housing buildings – Résidence d’Idolay, Voiron

Name of the territory	Bouches-du-Rhône / PACA region
Population	2.035.000
Name of the BIMplement project leader	Employment House of Ouest Provence
Pilot field lab identified	Municipal workshop, Port Saint Louis
Experimental sites identified (if any)	Kindergarten Mac Entressens, Istres

2.3 Details of the pilot field labs and experimental sites

The deliverable D4.4 "List of selected pilot field labs and experimental sites and trained BIM work place trainers" (M14) will contain all the details about the requirements respect to BIM for pilot field labs and experimental sites.

COLOFON

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