



# 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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<b>Report:</b>	<b>D4.1 List of criteria and of the selected territories</b>
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# 1. Criteria for the choice of the local pilot territories

In the Task 4.1 it is planned to develop the criteria for the choice of the local pilot territories and pilot locations within those territories in France, Lithuania, Netherlands, Spain and Poland.

Local pilot territories are the territories where the methodology BIMplement will be tested. In these local pilot territories, we distinguish two kind of pilots : the pilot field labs and the pilot experimental sites.

- The pilot field labs will be national or regional BIM-learning Centres where the trainings of “BIM workplace trainers” and the first tests of the tools and learning methods of BIMplement will take place (it was planned to work with 3 pilot field labs in France and one in each of the other Member States).
- The experimental sites will be construction or renovation building sites where the tools and learning methods experimented in the “pilot field labs” will be implemented. On these experimental sites the trainers will be the “BIM workplace trainers” and the trainees will be the blue and white collars working on the site.
- It can happen that pilot field lab and experimental site are situated in the same place. This may be due to the fact that construction workers may not always leave the construction site and more convenient is to carried out the training in the place of work.

The criteria for the choice of the local pilot territories were :

- ✓ To have an organization which has the willingness and the competencies 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 mobilising 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
  - And so on...
- ✓ Has training facilities for training of the workplace trainers

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

- i. Offer SME's to make a head start with their first BIM-projects without the hassle of deep investments in infrastructure first.
- ii. are the breeding grounds for BIM enabled learning networks and awareness building.
- iii. 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 15 territories selected 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 agglomeration of Saint Quentin (France)
- ✓ European Metropole of Lille (France)
- ✓ The territory of Nièvre (France)
- ✓ The city of Dijon (France)
- ✓ The territory of the Pays Voironnais and Sud Grésivaudan (France)
- ✓ The territory of the Ardèche Méridionale (France)
- ✓ The city of Lyon (France)
- ✓ The territory of Ouest Provence (France)

## 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 have been selected in Lithuania.

Name of the territory	<p>Vilnius Municipality (Lithuanian Capital)</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” (“<i>Digital Construction</i>”) were established by 13 main Lithuanian construction sector associations and coordinates the digitalization process of Lithuanian construction sector at national level.  <a href="https://skaitmeninestatyba.lt/en/about-us/">https://skaitmeninestatyba.lt/en/about-us/</a></p> <p>From the Year 2016 Annual Best Lithuanian BIM projects awards competition started. More information about Contest results:  <a href="https://skaitmeninestatyba.lt/projektai/">https://skaitmeninestatyba.lt/projektai/</a></p>
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.

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, both Spanish partners involved in BIMplement, IVE and SERVEF, have competences at regional scale. Therefore, the same opportunities to all regional entities or companies that are willing to participate should be given, regardless of their business territory should be given.</p>
Population	4 935 182
Name of the BIMplement project leader	IVE and SERVEF
Pilot field lab identified	<p>Laboratory for construction practices of SERVEF in Picanya village</p> <p>IVE offices: 2 training rooms (20-30 people), 1 assembly hall (100 people), 1 exhibition room. Some pictures about the facilities can be seen here:</p> <p><a href="https://www.flickr.com/photos/40022820@N02/sets/72157687409273174">https://www.flickr.com/photos/40022820@N02/sets/72157687409273174</a></p>

Experimental sites identified (if any)	Not yet
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#### 2.2.4 Poland

Three territories have 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

8 territories have been selected in France.

Name of the territory	Saint-Quentinois
Population	131 824
Name of the BIMplement project leader	Employment House Saint Quentin
Pilot field lab identified	Not yet chosen
Experimental sites identified (if any)	opportunities identified

Name of the territory	European Metropole of Lille
Population	1 133 920
Name of the BIMplement project leader	Employment House Lille Lomme Hellemmes
Pilot field lab identified	Not yet chosen
Experimental sites identified (if any)	opportunities identified

Name of the territory	Nièvre
Population	218 341
Name of the BIMplement project leader	Employment House of Nièvre
Pilot field lab identified	Dijon: renovation of a swimming pool in aquatic center
Experimental sites identified (if any)	

Name of the territory	The city of Dijon
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
Experimental sites identified (if any)	

Name of the territory	Pays Voironnais et Sud Grésivaudan
Population	107 695
Name of the BIMplement project leader	Employment House Pays Voironnais et Sud Grésivaudan
Pilot field lab identified	Dijon: renovation of a swimming pool in aquatic center
Experimental sites identified (if any)	

Name of the territory	Ardèche Méridionale
Population	133 901
Name of the BIMplement project leader	Employment House Ardèche Méridionale
Pilot field lab identified	Voreppe: renovation of 127 accomodation
Experimental sites identified (if any)	

Name of the territory	City of Lyon
Population	579 378
Name of the BIMplement project leader	Employment House of Lyon (maison Lyon pour l'emploi)
Pilot field lab identified	Voreppe: renovation of 127 accomodation
Experimental sites identified (if any)	

Name of the territory	Ouest Provence
Population	97 940
Name of the BIMplement project leader	Employment House of Ouest Provence
Pilot field lab identified	Voreppe: renovation of 127 accomodation
Experimental sites identified (if any)	

### 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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