



# DIAGNOSIS Project

2017-1-ES01-KA203-038254

The Erasmus Plus Project

## BIM 4 Placement

*European key competences in building and construction”*

Chiara Pancaldi – Centoform



**C2 Building Information Modelling (BIM), and communication and socio psychological skills. From 19<sup>th</sup> to 23<sup>rd</sup> March 2018. UNIFE. Ferrara, Italy**

# Bim 4 Placement



Innovating a crucial profession in building and construction sector



## ERASMUS BIM 4 PLACEMENT GENERAL AIM

**Increase knowledge and utilization of BIM  
(Building Information Modeling)**



# Bim 4 Placement



Innovating a crucial profession in building and construction sector

## THE CONTEXT OF THE PROJECT

### FERRARA Architectural Tradition

- University Department
- Unesco Heritage
- ITS Foundation Territory, Energy, Construction



### EMILIA-ROMAGNA REGIONAL STRATEGY FOR RESEARCH AND INNOVATION

- indicates the construction sector as a priority area for the regional economy, despite the current crisis
- identify BIM introduction as one of the innovation drivers of construction sector

# Bim 4 Placement



Innovating a crucial profession in building and construction sector

**GOOD SPERIMENTATION OF BIM TRAINING FOR YOUNG PEOPLE IN THE PROJECT “AT SCHOOL AS PROFESSIONALS”** (A SCUOLA DI PROFESSIONE) INVOLVING ITS, HIGH SCHOOLS AND ACER (ORGANIZATION MANAGING COUNCIL HOUSES) FOR THE RIQUALIFICATION OF A WORKING-CLASS BUILDING TROUGH BIM



**NEW PROCUREMENT CODE PROVIDES FOR THE INTRODUCTION OF BIM**

Very little diffusion in Italy but increasing attention among professionals

**ITS FOUNDATION WANTS TO INTRODUCE BIM IN NEW COURSES**

# Bim 4 Placement



Innovating a crucial profession in building and construction sector

## PARTNERSHIP

**A VET CENTRE**



**A PUBLIC AUTHORITY**



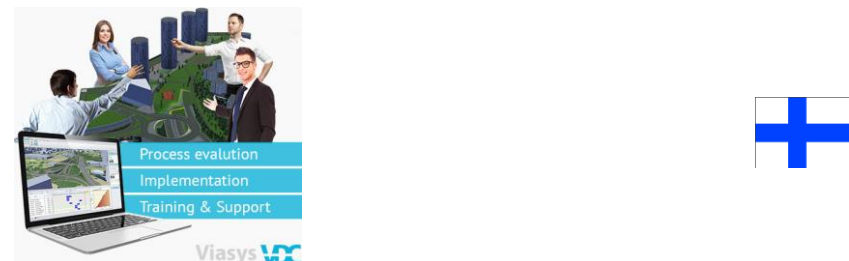
**2 UNIVERSITIES**



**AN ASSOCIATION**



**A COMPANY**



Innovating a crucial profession in building and construction sector

## The Construction sector in Emilia-Romagna

- Construction sector crisis
- Growing awareness about environment problems
- Urgent need to address the issue of structural safety of the buildings and infrastructure, particularly after the last earthquakes
- Need for Transparency in processes



**REGIONAL STRATEGIES FOR THE  
DEVELOPMENT AND INNOVATION  
OF THE CONSTRUCTION SECTOR**



Innovating a crucial profession in building and construction sector

## AREAS OF ATTENTION OF THE REGIONAL STRATEGY

ENERGY  
EFFICIENCY

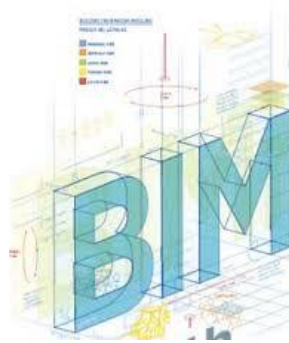
REDUCTION OF  
TERRITORY'S  
EXPLOITATION

ENVIRONMENTAL  
SUSTAINABILITY

RIQUALIFICATION  
OF HERITAGE  
BUILDINGS

STRUCTURAL  
SAFETY

SMART CITIES –  
SMART BUILDINGS



**BIM FOR:**

-IMPROVE THE LIASE BETWEEN DIFFERENT ACTORS INVOLVED

-IMPROVE THE PROJECT and PROCESS CONTROL:

- aspects of computation and estimation of quantities
- timing forecasting
- process transparency

## STATE OF ART OF BIM IN PARTNERS COUNTRIES

- **International situation:** Finland and other northern Europe countries have a good spread of BIM. There are studies that shows how Bim reduce costs and improve quality in construction sector
- **Italian and regional situation:** very low spread of BIM but increasing attention on it beacause of the new procurement law



## **BIM ADVANTAGES and THREATS**

### **Advantages**

Transparency

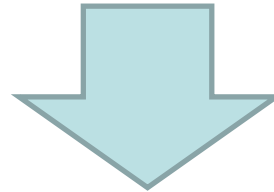
Precision

Integration

Savings income

### **Threats**

BIM perceived as a law to get around.



**It's very important to invest in BIM diffusion and in BIM training**

Innovating a crucial profession in building and construction sector

## BIM 4 PLACEMENT EXPECTED RESULTS

- Realization of a **Comparative research** about BIM-related training methods and implementation measures in the 3 participating countries → OUTPUT 1
- Creation of a revised or new **professional qualification** in building and construction sector for Emilia Romagna Region (Italy) → OUTPUT 2
- Design of new/updated **training programs** about BIM for students, unemployed, employed in building and construction sector → OUTPUT 3
- Creation of a **BIM game** → OUTPUT 4
- European **Networking** among educational institutions and companies investing in BIM → OUTPUT 5

## **BIM 4 PLACEMENT EVENTS**

- **3 european meeting 2017-2018**
- **5 RESONANCE GROUP - 2017-2018**
- **3 free training courses addressed to teacher and trainers. 2018**
- **1 Final event - Regione Emilia Romagna October 2018**

## RESONANCE GROUPS

- Participants:
  - Schools,
  - Universities,
  - Research centres,
  - trainers,
  - professional associations
- Role: to provide different points of view about BIM training, to evaluate projects outputs

# Bim 4 Placement



Innovating a crucial profession in building and construction sector



## CONTACT



**Chiara Pancaldi**

Centoform – ITS Foundation Territory –  
Energy - Constructions

[Chiara.pancaldi@centoform.it](mailto:Chiara.pancaldi@centoform.it)

