



## "Digital Construction and BIM in Greece" 19/2/2020 Auditorium TEE

Liana Anagnostaki Member EU BIM Task Group Greek Representative



## **BIM / e-CONSTRUCTION**

BIM is, in fact, the only digitalisation technology mentioned in the EU procurement directive. From a policy perspective, the EU Directive (2014/24/EU) on public procurement is the only policy instrument which refers to the use of digitalisation technologies in the construction sector

Public authorities play a major role to foster the use of BIM, giving political orientations and through regulations or incentives. Public procurers take a huge responsibility when commissioning and executing public construction projects.
 BIM is the key to meet the above mentioned objectives and to lead by example for the whole construction market.



## What is the EU BIM TASK GROUP

The EU BIM Task Group, is the leading European group of public stakeholders, aiming at the digitalisation of the EU construction sector.



to encourage the common use of BIM, as 'digital construction', in public works with the common aim of improving value for public money, quality of the public estate and for the sustainable competitiveness of industry.





#### Strategic Framework for Public Sector BIM Programs

### **Grow Capability & Industry Capacity**

- Early wins, pilot projects, develop capability
- Increasing use of strategic lever to grow capacity
- Measure and monitor, case studies, embed change

### Communicate Vision &

#### Foster Communities

- Engage industry stakeholders
- Create regional and focus networks
- Events, media, web, social media

### Build a Common Collaborative Framework

- Legal and regulatory framework
- Data and process standards
- Test, learn, create guidance

### Foundation of Public Leadership

- Compelling drivers, vision and goals
- Aligned value proposition and strategy
- Sponsor, funded programme, stewardship team

© 2016 MATTHEWS





EU BIM Task Group represents the public stakeholder interests relating to BIM and public estate to national and international standards bodies



**Dr. Souheil Soubra** (France) is leading the EU BIM Task Group **Milena Feustel** (Germany), Deputy Chair



Create a **Common framework** for **BIM** in public works









The production of the handbook has been a pan-European collaboration of public sector organisations across 21 countries, co-funded by the European Commission.

Collective experience of public policy makers, public estate owners and infrastructure operators from over twenty European countries to make recommendations to questions such as:

What is BIM? And what is the common European definition?
 Why is public leadership and European alignment critical?
 Which countries have taken action to support and encourage BIM?



## HANDBOOK

#### 

Εγχειρίδιο για την υιοθέτηση της μοντελοποίησης κατασκευαστικών πληροφοριών από τον ευρωπαϊκό δημόσιο τομέα

Στρατηγική δράση για την υψηλότερη απόδοση του κλάδου των κατασκευών: δημιουργία αξίας, προώθηση της καινοτομίας και της ανάπτυξης



#### **SEU**BIM

Handbook for the introduction of Building Information Modelling by the European Public Sector

Strategic action for construction sector performance: driving value, innovation and growth







✓ 2019 the EU BIM Task Group held its annual General Assembly in Brussels to set its roadmap for the coming years
 ✓ aims at delivering greater value for public money while stimulating innovation and growth in both the construction and digital sectors in Europe.





#### STRATEGIC AND **OPERATIONAL ROADMAP**



В

#### **BENEFITS OF BIM**

A1. Cost benefits analysis A2. Pilot project results A3. Measurement

**RELIABLE INFORMATION AND GUIDELINES** 

- **B1.** Guidelines for public procurement
- B2. Advise EC on PPD
- **B3.** EU BIM webside development
- **B4.** BIM innovation reward

#### **STANDARDISATION**

- **C1.** Liaison communication plan
- C2. Open BIM
- C3. Common classification system

#### **KNOWLEDGE TRANSFER**

- **D1.** Regular meetings between members
- D2. BIM conference for public procurers
- D3. Legal entity
- D4. Network of who is who with expert pool

#### **SUPPORT MEMBER STATES INITIATIVES**

- **E1.** Unified Digital Platform
- **E2.** Better Funding
- E3. Data Security
- **E4.** Built environment Data privacy
- E5. Knowledge transfer workshops



# Key objective A

### **BENEFITS OF BIM**

#### Cost benefits analysis

**A1** 

Commission and evaluate a cost-benefit-analysis for the use of BIM.

Make a differentiated study for small and bigger projects and for each phase, in order to specify the corresponding benefits of BIM.



#### **Pilot project results**

Collect the results of individual case studies and pilot projects from around Europe that demonstrate the benefits of BIM for procurers.



#### Measurement

Find a viable methodology for periodically measuring the use of BIM in all European countries.

Publishing the results openly will create pressure for change and help to track improvement over time.



## Key objective B

### RELIABLE INFORMATION AND GUIDELINES

### **B1**

### Guidelines for public procurement

Develop unified guidelines and support tools for public procurers regarding BIM requirements and how to manage BIM processes during project execution.

### **B2**

#### Advise EC on PPD

Setup communication channels for advising the European Commission regarding how to implement open-BIM requirements in the next revision of the Public Procurement Directive.

### **B3**

#### EU BIM website development

Publish and maintain a website providing an overview of European Union - legislation, standards and guidelines related to procurement using BIM.

### **B4**

#### **BIM innovation reward**

Creating an annual "public client BIM reward" for the best innovative use of BIM.



## Key objective C **STANDARD-**

**ISATION** 

**C1** 

#### Liaison communication plan

## **C2**

#### **Open-BIM**

Analyse the current situation and propose activities to ensure an open BIM market. Develop guidelines for the correct use of open standard.

### **C**3

Common classification system

Develop a Common Classification system.



# Key objective D

Regular meetings between members

### KNOWLEDGE TRANSFER

BIM conference for public procurers

Organize a BIM conference dedicated to public procurement in EU.

Network of who is who with expert pool

Create a network of who is who along with an expert pool.



## Key objective E

### SUPPORT MEMBER STATES INITIATIVES

#### **Unified Digital Platform**

Support the creation of a common digital platform for the built environment that would enable the automation of building lifecycle processes in the public and private sector.

### **E**2

#### **Better Funding**

The EU BIM TG can help accelerate the development and implementation of BIM technologies.

### E3

#### **Data Security**

Analyse and propose a framework for Data Security as a general guideline that can be adopted to each open platform or collaborative working environment for BIM users.

### **E**4

### Built environment Data privacy

Define built environment data privacy levels. What should be public across Europe and what is private?

### E5

### Knowledge transfer - workshops

Digital Twins / IoT / Smart Cities knowledge transfer in the form of workshops for EUBTG members.





## **Greece member of EU BIM Task Group**

DEUBIM



### **INSTITUTIONAL FRAMEWORK**



### **INFORMATION ACTIONS**

TEE – TCG subsite: <u>https://web.tee.gr/int-news/</u>

- READERS VIEWS
- "educate" on all BIM matters
- inform the on all latest developments
- News from the EU BIM Task Group

| ente frestruitet finé ressentation de frances  | and so the former of the second fragment fragment fragments and the second seco | 1-1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1  |
|--|--|--|
| Anotherije, Everyadjohereny  |  |  |
| 4 - 1  |  | TTI VIRGINIA   |
| ALC ALCONO.  | Contraction of the second s  | STA Antoine Transa   |
|  | and the second   | Se annanti   |
| P  |  | doas account of the Anythis  |
| N.M.W.   | CEE  | S and the Constants  |
|  | mention involuting (\$100)   | 0.   |
|  | Dagranda   | Civilech   |
| MARKET IN INC.   |  | ENERGY RUILDING  |
| No. of Conditions  |  | THE OWNER AND A DESCRIPTION  |
|  |  | THE REPORT OF THE PROPERTY OF  |
| and the second sec   | research both part - huffen  |  |
| and the second   |  | Auf fürm nen der generation and  |
| -  |  | ((@)))===//  |
|  | President and they appetite the  | Attics bank  |
| Even with a yest two weather and the   | Pagataphan jata tripi an offer tripity stra-<br>construction over the control over a part to accor<br>to be sensed particle over the control realized<br>displacement respects   | Environment from the statement of the second |
|  | Contraction of the dis-  |  |
| A A A A A A A A A A A A A A A A A A A  |  | e.   |
| the second se  | <ul> <li>Própasti jelytypych krajaciókówanie<br/>protostalowanie trainie Pripala – To prostrukou<br/>bile missi Espectrukou restrukcia instrukcia</li> </ul>   |  |
|  | Polity mention Ecology methods regulaterial constitution<br>Traction   |  |
| a remaining the  | torogetic uses his field (Baselines)   |  |
| an all the off   | solvential and to find the distance of the second s |  |
| A REAL PROPERTY AND A  |  |  |
| Site of the local division of the local divi |  |  |
|  |  |  |
| Charmenario, ground diversity diverses   |  |  |
|  |  |  |
| BRYDYNESS BEMATING FITT  | MEDITARIR EDGGGGS LATION   |  |
| 1.5 - W  | A State of the second s |  |
| - Sec  | Star -   |  |
|  |  |  |
|  | an insertion of the second   |  |
| · ALARY CONTRACT AND ADDRESS OF  |  |  |



17





### **Greece member of EU BIM Task Group**

DIGITAL TRANSFORMATION OF THE CONSTRUCTION SECTOR IN GREECE

WHITE PAPER

LIANA ANAGNOSTAKI

MEMBER OF THE EU BIM TASK GROUP

Proprietary & Confidential Liana Anagnostaki © 2019







# Thank you for your attention!

Liana Anagnostaki Member EU BIM Task Group Greek Representative