

ENTERPRISES

of all sizes

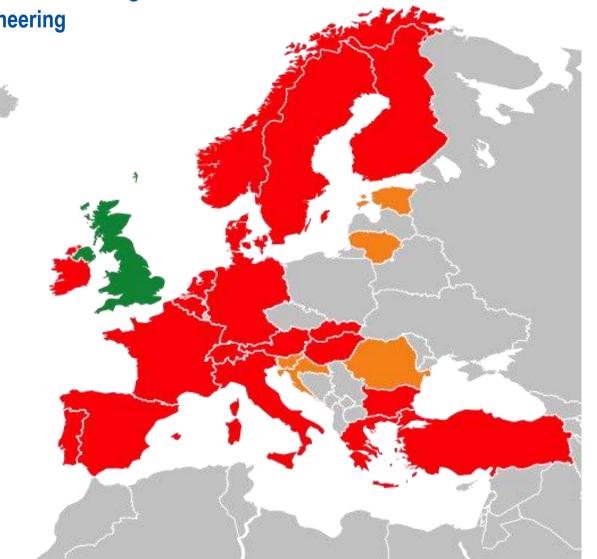
active in all fields of building

and civil engineering

1905 1st meeting

26
Countries

Federations



Full members

Denmark Netherlands Germany France Spain

Luxemboura Bulgaria Finland **Norway** Sweden Ireland

Belgium Portugal

Switzerland Austria

Italy **Cyprus** Greece

Hungary Slovakia

Turkey

Observer members

Estonia Romania Slovenia Croatia Lithuania

Co-operation agreement

United Kingdom

BIM Implementation in Europe



- Advanced:
 - o UK
 - Nordic Countries
 - Netherlands
 - Germany
- Making progress:
 - France
- Lagging behind:
 - Spain
 - Italy
 - Eastern Europe

Infrastructure



In general, BIM implementation is further ahead for buildings than for infrastructure





Initiatives to Stimulate BIM in Infrastructure

Denmark



- "Digital infrastructure"
- Partners:
 - BaneDanmark, Danish Road Directorate, Danish Construction Association (Dansk Byggeri, FIEC member), Femern A/S and Danish Association of Consulting Engineers
- Not funded participants work voluntarily
- Progress so far (discuss Henriette)

Spain

- FIEC
- BIM Roadmap foresees mandatory use of BIM in infrastructure public works contracts
- This will be <u>after</u> the introduction of mandatory use in public contracts for buildings
- Along the way, BIM use will be <u>recommended</u> in public contracts and tenderers will be advised to use BIM
- Currently only few calls for tender request BIM
- Government strategy delayed timetable unclear

Sweden



- CoClass classification system
- Covers entire built environment
- Based on international standards for classification
- Linked to ISO standards for data transfer

Germany



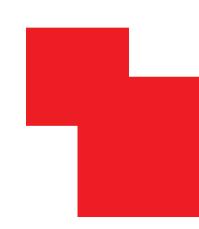
- Ministry for traffic and infrastructure
- Pilot projects on traffic infrastructure
- Government plan for implementation of BIM in Germany

BIM – Infrastructure vs buildings



Is BIM for infrastructure lagging behind BIM for buildings in Europe?

Currently, yes!



How EU Policy could help



Climate change

- Recognise role of BIM in modelling impact on infrastructure (flooding scenarios tested for impact etc.)

Circular economy

 Recognise BIM for its potential to improve resource efficiency (avoid waste of construction materials, facilitate eventual recycling, re-use and safe disposal following maintenance/re-construction)

Strategy on the urban environment

- Recognise role of BIM in constructing Smart Cities

Prevention of natural or man-made disasters

Recognise role of BIM in minimising damage/managing rescue operations following disasters

Digital Agenda

Recognise the growing importance of BIM

And eventually...



- Revise relevant EU policy accordingly
- Assess need for specific measures with strong involvement of construction industry
 - Regulatory?
 - o Financial support?
 - o Guidelines for Member States?







What FIEC is doing

BIM Working Group



- Mapping EU policy for links to BIM
- BIM Manifesto
- Exchanging best practice
- Etc...



COMPETITIVENESS WATER NETWORKS ENVIRONMENT

ENERGY NETWORKS TRANSPORT INFRASTRUCTURE

ENERGY EFFICIENCY EMPLOYMENT

CONSTRUCTION IS THE SOLUTION INDUSTRY

YOUTH EMPLOYMENT **RESOURCE EFFICIENCY**

SKILLS TRAINING/EDUCATION

ENERGY PRODUCTION

STANDARDISATION

CLIMATE CHANGE

INNOVATION