



### Revision of the EPBD: view of contractors Sue Arundale, Director Technical and Environmental Affairs



05/10/2017

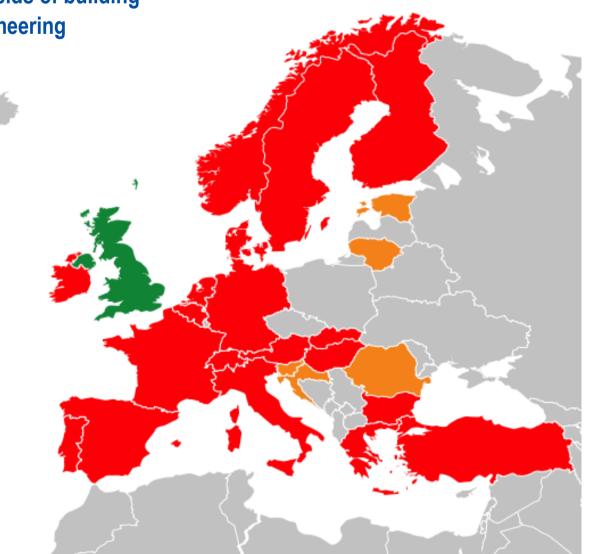
#### **ENTERPRISES**

- of all sizes
- active in all fields of building and civil engineering



26 Countries

29 **Federations** 





Full members Observer members Denmark Estonia Netherlands Germany Romania France Slovenia Croatia Spain Lithuania Luxemboura Bulgaria Finland Norway **Co-operation** Sweden Ireland agreement **Belgium Portugal United Kingdom** Switzerland Austria Cyprus Greece Hungary Slovakia Turkey

Italy

## **EPBD: our original position**



Improvement in deep renovation rates essential
Premature to compare EPCs to justify funding
Ecodesign to be aligned with CPR?
Infrastructure for e-mobility
Smartness indicator: how will it work?
EPBD should be compatible with DG ENV voluntary assessment framework





All experts involved in assessing energy savings following renovation – and in producing Energy Performance Certificates, building passports or any other similar document - must be properly trained and <u>competent</u>

### Energy renovation extremely important...

However...

Renovation

#### Need to include other essential upgrading work in a deep renovation:

Fire protection Structural work (earthquake zones, flood protection, removal of toxic substances) Strongly support ITRE amendments 99 and 100, which reflect above Accessibility

## NZEBs that are unsafe or unhealthy are a massive waste of investment and time



## Industry 4.0 and BIM



# Policy makers need to be thinking about this now

How could we use digital methods in renovation? Robots and drones already in use e.g. dangerous processes and surveying Pre-fabrication a possible solution

- However, off-the-shelf kits not always the most effective, energy saving solution

#### FIEC is looking at all of this

Working Group on Construction 4.0 (including BIM) Replaced BIM Working Group, which operated from Sept 2016-Sept 2017

## **Changing the market**



Demand is slow and deep renovation expensive and disruptive

Creating a tipping point

Changing perceptions about energy consumption, design of buildings, changing climate and new risks

Acceptance of new methods, mentioned above

Acceptance that demolition will sometimes be preferable to renovation

Comprehensive assessment by experts needed to weigh up cost/benefit

## **Amendments - ITRE**

- FIEC very supportive of the Rapporteur's original amendments (1-58)
- Rest of ITRE's amendments (59-629) more problematic:
  - Duplication of indicators/aspects covered by DG ENV voluntary assessment framework Level(s) Oversimplified solutions for renovation Ecodesign Specific technologies favoured (FIEC advocates "technology and material neutrality") No mention of digital construction and "passports" not linked to BIM (so not future-proofed) Possible loophole regarding public buildings



## **Amendments - ENVI**

 334 amendments – FIEC supported many
 ENVI final report adopted – 82 amendments Some that we supported were deleted
 Problem areas: Delegation of implementing powers to European Commission Inclusion of new aspects in EPCs – (already a problem) Inevitable increases in costs for clients posed by some demands



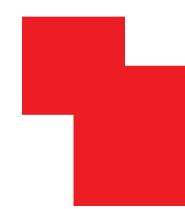




#### FIEC's latest reaction

Our conclusions at this point

#### Vote expected 11/12 October





COMPETITIVENESS GROWTH WATER NETWORKS ENERGY NETWORKS ENERGY NETWORKS EMPLOYMENT ENERGY EFFICIENCY IT-NETWORKS

#### **CONSTRUCTION IS THE SOLUTION INDUSTRY**

YOUTH EMPLOYMENT RESOURCE EFFICIENCY SOURCE EFFICIENCY SOURCE EFFICIENCY ENERGY PRODUCTION
STANDARDISATION

UNFRASTRUCTURE INNOVATION INNOVATION