



*European Builders Confederation*

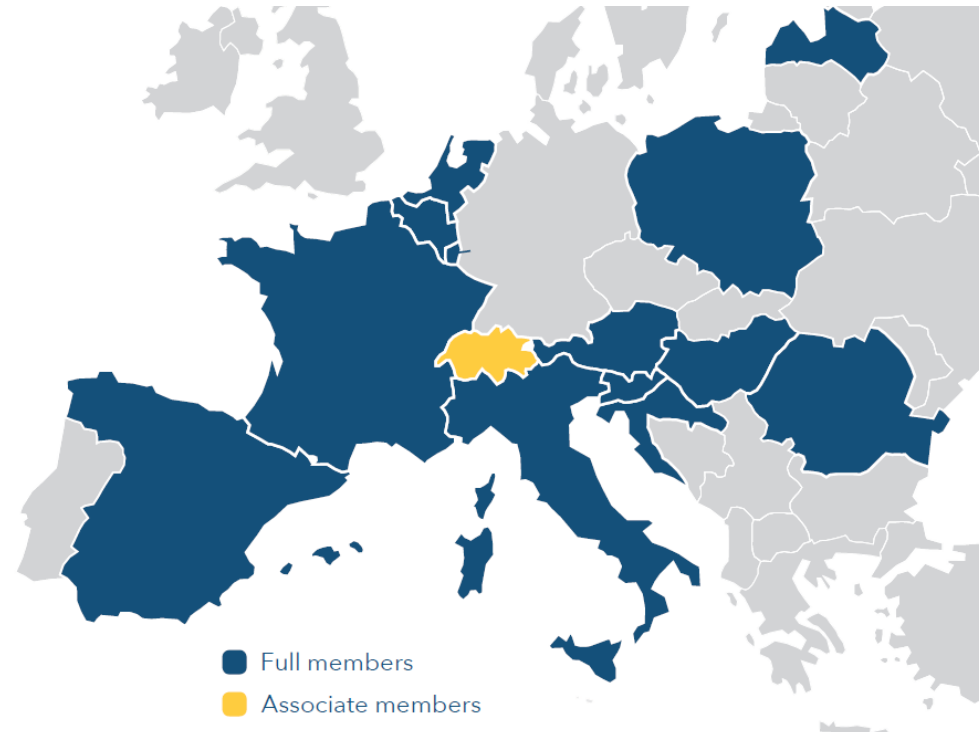
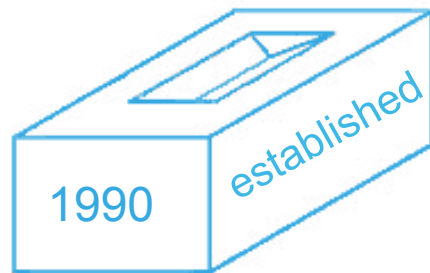
# **Energy Efficiency skills: challenges and opportunities for construction SMEs**

**24 October 2017**

**CA EPBD, Bucharest, Romania**

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Secretary General

## *The Voice of Construction SMEs in Europe*



**Exclusively representing micro companies & SMEs**  
All the different trades of the construction sector

# Economic importance of the construction sector



**9%**  
of the GDP of the  
European Union



**3 MILLION**  
enterprises in the  
sector



**18 MILLION**  
workers in the  
sector

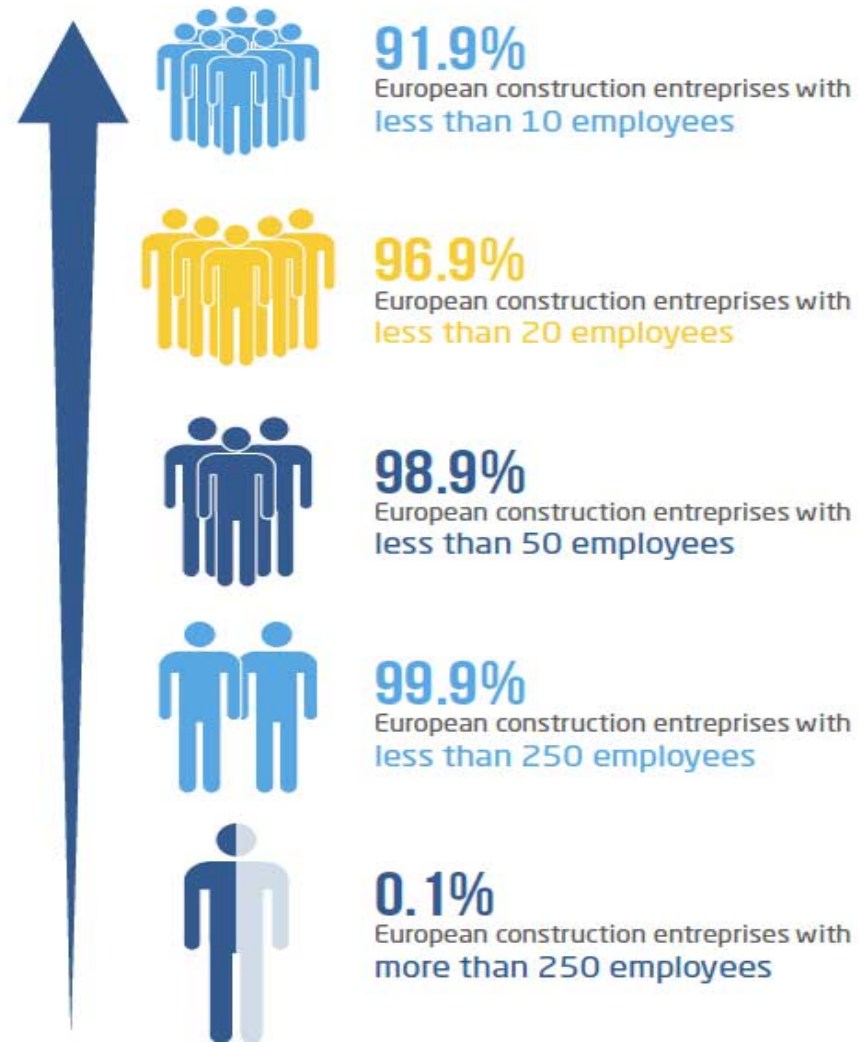
## YOUNG PEOPLE & WOMEN IN CONSTRUCTION

**90% MALE**

**10% FEMALE**

**8% YOUNGER  
THAN 25**

## Structure of the sector





# Construction sector – the labour issue

**The construction sector generally suffers from a lack of qualified labour:**

- Financial crisis and economic downturn
- Ageing workforce
- Stigma associated to manual trades
- Green and ICT skills
- Expected employment increase



# Construction sector – the labour issue

**Future employment needs by occupation and educational level in EU in 2015-2025 (Cedefop)**

Occupations	Low	Medium	High
Personal service workers	503,501	2,410,362	996,185
Sales workers	652,514	2,786,409	1,506,404
Care workers	246,116	1,754,181	867,600
Protection workers	115,647	550,607	530,592
Farmworkers and gardeners	2,020,994	2,375,661	765,797
Forest & fishery workers	71,225	129,090	51,885
Subsistence farmworkers	182,865	78,924	17,302
Construction workers	852,609	1,840,863	425,897





# Energy in the construction sector: current challenges

Energy efficiency plays an important role in order to ensure that the objectives of the 2030 framework are met and international commitments in the frame of COP 21 are achieved considering:

- Energy use in the buildings sector (both residential and commercial) is responsible for about 40% of final energy consumption in the EU
- The existing building stock has the capability to reduce its energy consumption by 61% by 2030.
- The performance of 75% of the built environment is considered energy inefficient

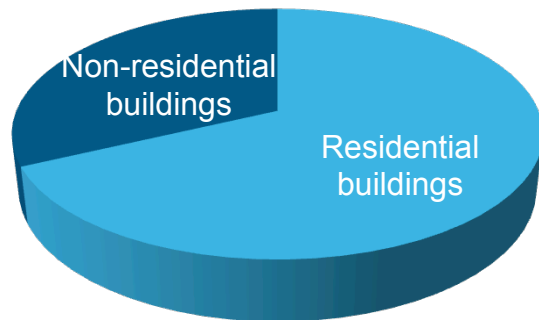
**Revision of the EPBD as an important step to put the principle of “energy efficiency first” into practice**

# Energy efficiency renovations – key priority for construction SMEs

**57% of construction turnover is made in the renovation of existing buildings** (up from 47% in 2005)

**75%** of EU built stock is residential  
**70%** of small business' turnover is in residential market

## Energy consumption



## Energy renovation sector

- Turnover **€ 109 billion** in 2015
- 15% of total turnover of EU construction businesses (65% of this in the residential market)
- Creation of **882,900 jobs** in 2015

In a strong energy renovation market, a study by Ehrhardt-Martinez and Laitner (2008) suggests that up to **8.1 jobs may be created in construction per € 1 million invested**





# How to boost energy efficiency – skills challenges

- 'Green' buildings requires construction workers to also have a better grasp of materials and technologies that are energy-efficient
- Zero/low carbon homes requires the development of specialist and technical skills
- The greening of the cement production process to reduce high CO2 levels will also impact on future skill needs.
- EPBD: New jobs for energy auditors, certifiers, inspectors of heating systems and renewable technology installers

**BUILD UP Skills: 'by 2020 more than 3 million workers in Europe will require training on energy efficiency or renewable energy sources'**



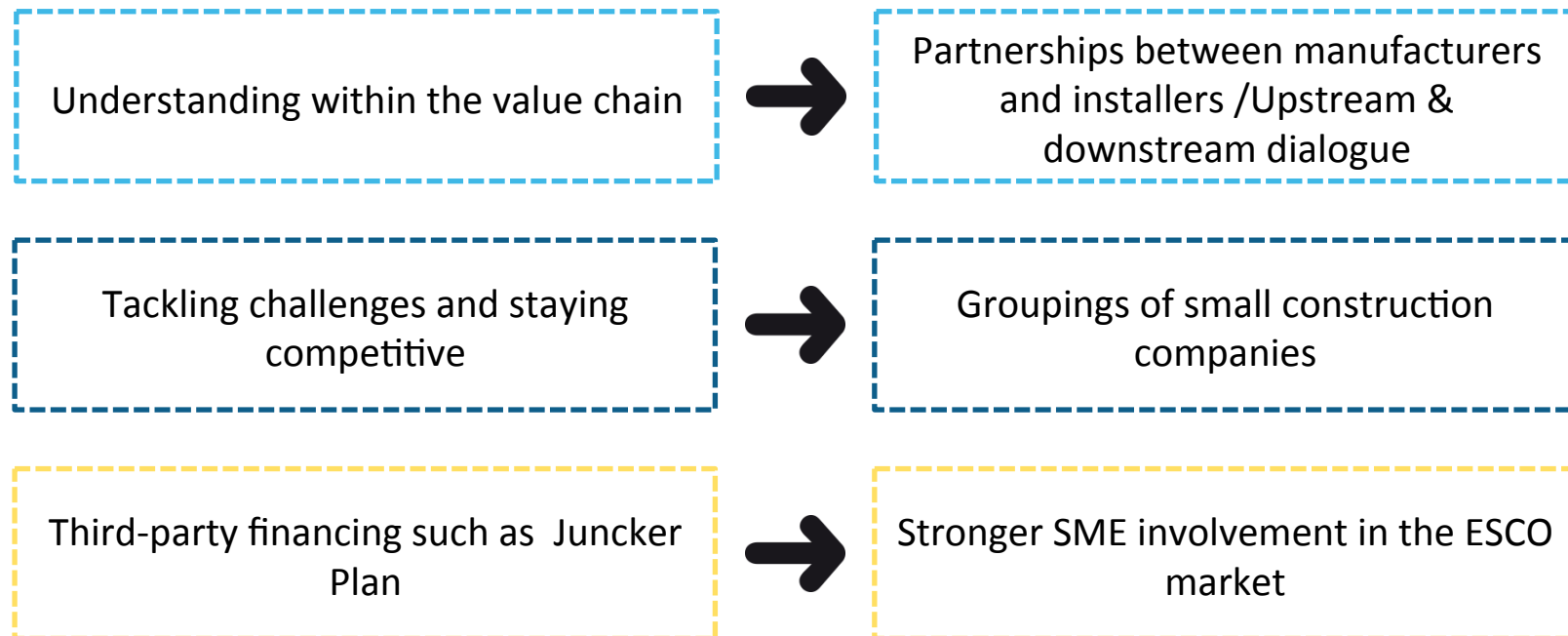
# How to boost energy efficiency – skills challenges

**New energy and environmental challenges require new skills but:**

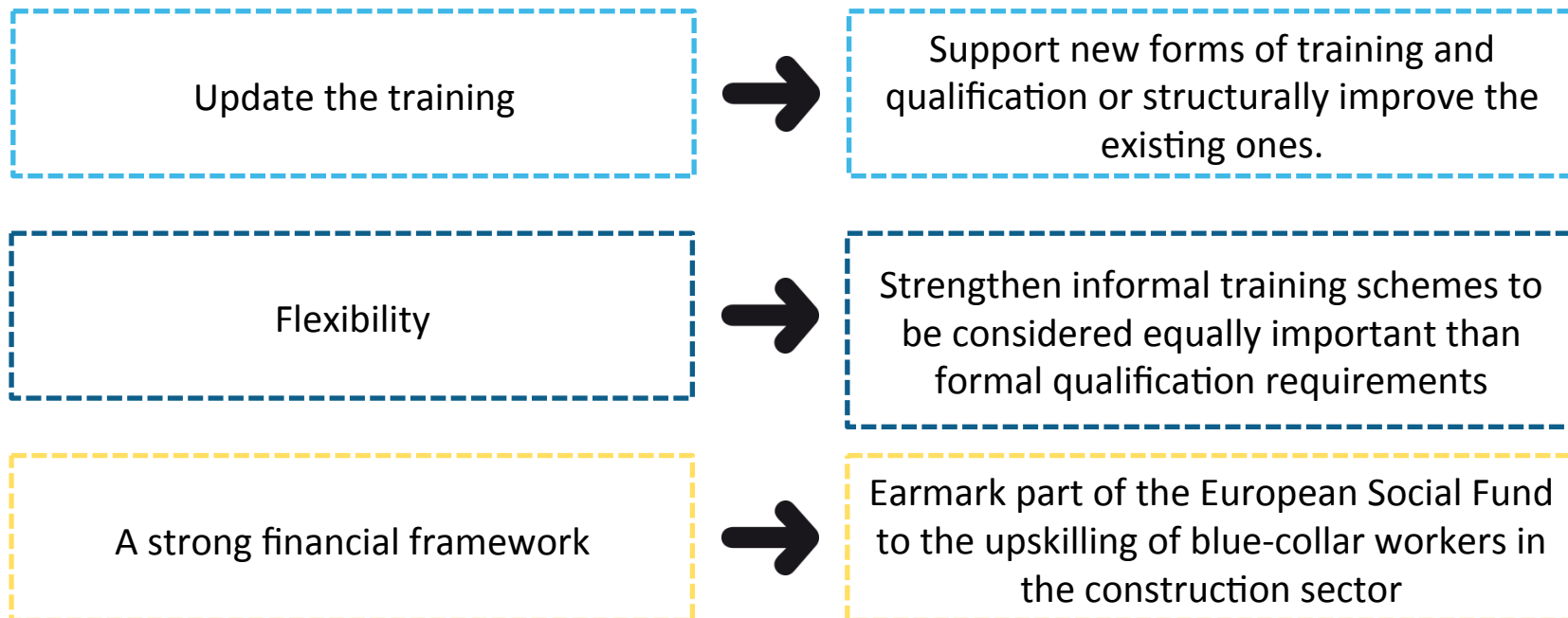
- Training schemes not always up to the task
- Lack of coordination between enterprises
- Lack of coordination in the construction chain
- Low financial support



# How to boost energy efficiency – innovative business models



# How to boost energy efficiency – innovative business models



# How to boost energy efficiency – training and skills



Let's use energy efficiency training to change image of sector and connect skills

**WE CAN BUILD A NEW GENERATION OF CONSTRUCTION SMES!**



# European Builders Confederation

**Thank you for your attention!**

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