

# How to upskill building professionals for the energy transition

## National approaches

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# C O N T E N T S



Challenges



VET Offering



Needs detection



Role of certification



Solutions in progress



# Challenges



# Challenges. Legislation



## European directives

- Directive 2010/31/UE
- Directive (UE) 2018/844



## Spanish technical building code

- Energy savings
- Health conditions in buildings



## *Challenges. Energy objectives*

- Reduce greenhouse gas emissions

40%



- Provide at least 27% of renewable energy

27%



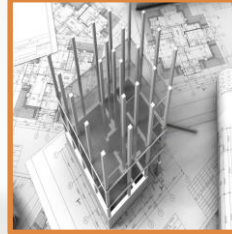
- Increase energy efficiency by at least 27%

27%



# Challenges. Market demands

## Key market demands



Digitalization

Energy efficiency



Circular economy

Industrialization of  
the Construction  
process



# *Challenges. Market demands*





# Challenges. New workforce

- Average age +45

Youngsters



- Only 9 %

Women

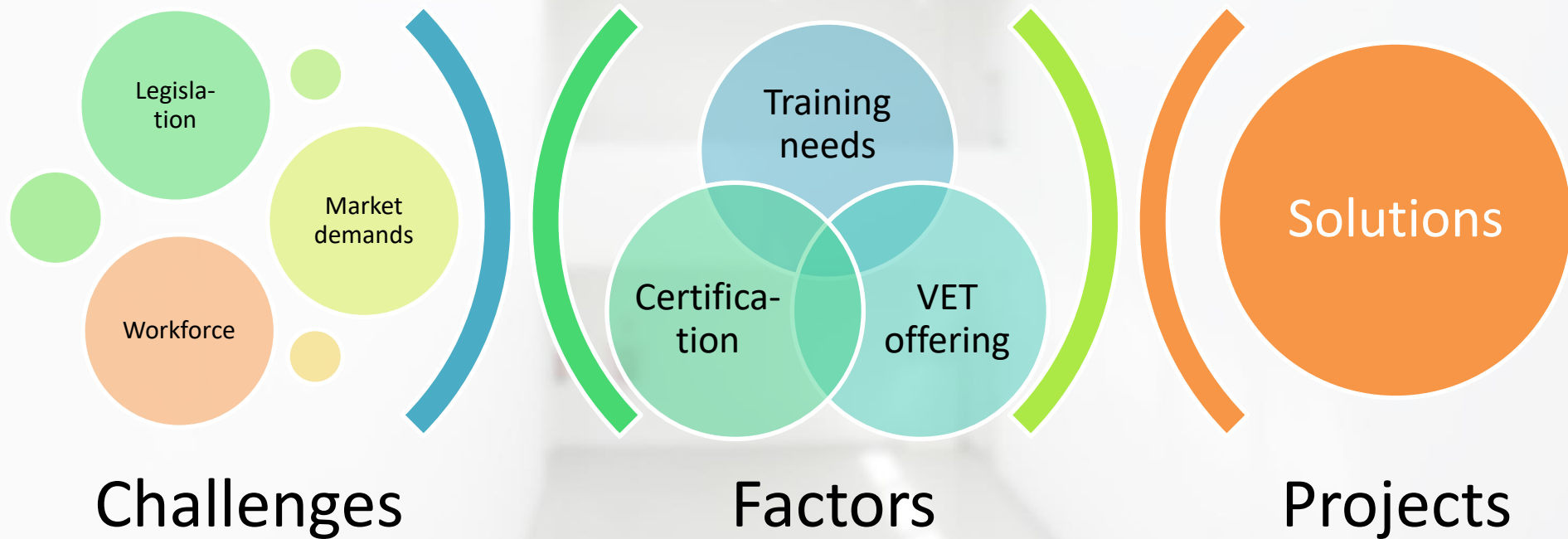


- 16% in 2018

TCNs



# Challenges. Scenario





**VET Offering**

# *VET Offering. Qualification VS Demand*

**Qualification in the  
educational field**

**Demand of qualification in the  
labour field**

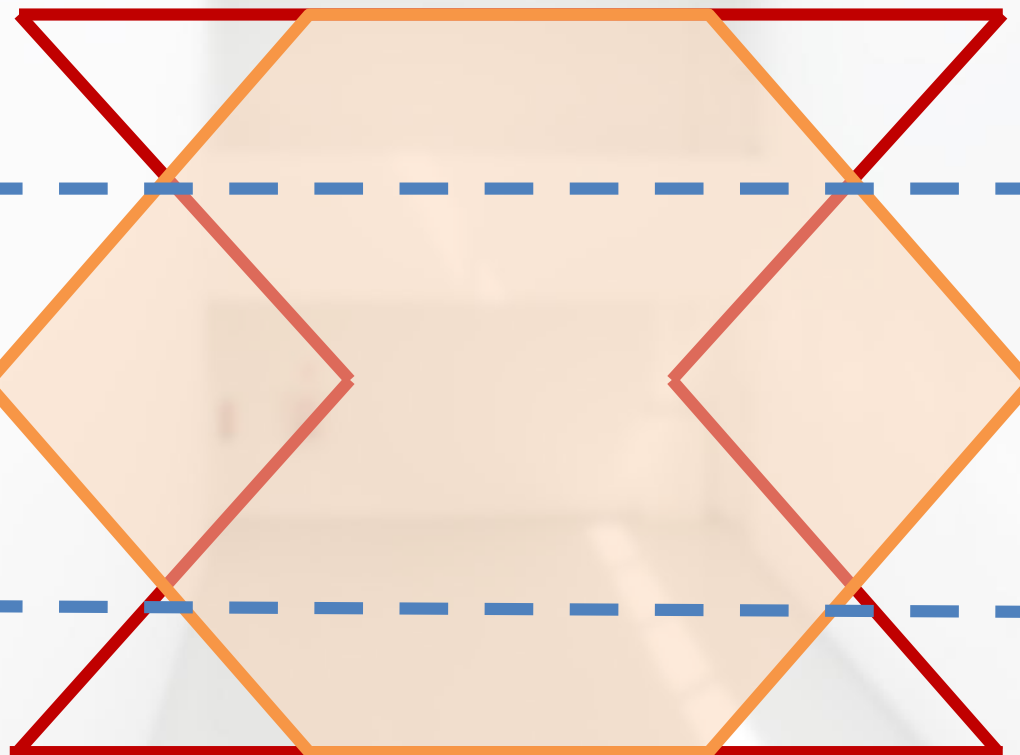
PhD, master,  
Degree

High level VET

Middle level VET

Basic VET

Primary education





NO ENCUENTRAN PROFESIONALES INTERMEDIOS

# Concern for the lack of bricklayers: “If no youngsters come in, in ten years won’t be any”

El sector de la construcción no encuentra albañiles, fontaneros, yeseros o encofradores, y los pocos que quedan están a punto de jubilarse. Critican la falta de cursos de formación



El sector de la construcción alerta por la falta de profesionales. (FLC)

April,  
2019!!



**Needs detection**



# *Needs detection. Some data*



25% - 35%



Bricklayers



Insulation  
installers



Plumbers



Roofers

**COM (2012) 433**

Better anticipation of  
future skills needs!!





**Role of certification**



# Certification. Construction card



**+ 770.000 TPCs issued**

- Training on safety and health
- Experience in the construction sector.
- Professional qualification.

# *Certification. What next?*



**Toward a  
European TPC?**





**Solutions in progress**



# *Solutions. Challenges*



**Construye 2020+**  
**Blueprint project. Key areas of intervention**  
**Women Can Build / In2C**

# ***Solutions. VET Offering***



**CONSTRUYE  
2020+**



**entornobim.org**



FUNDACIÓN  
LABORAL  
DE LA CONSTRUCCIÓN

**Construye 2020+  
Build up Skills Courses  
BIM Space**

Drop the insulating materials into the wall and see the effects on the waves. Then, decide which one is the best option, the second option and the worst option for this situation by clicking on the buttons on the left.

Best option	?
2nd option	?
Worst option	?

Mineralized wood fiber

Expanded

Panels of wood

Plasterboard

Lead

Rock wool

3 X zoom

menu

# App Construye 2020





## Energy efficiency

- Concepts
- Consumption
- Legal framework
- Energy certification



## Insulation

- Bad practices
- Material reception
- Material stock
- Installation of material



## Windows

- Reception
- Installation
- Glazing
- Sealing
- Shutter box



## Efficient installations

- Gas individual boilers
- Condensing boilers



## Renewable energy

- Energy performance
- Types of RES



# *Solutions. Needs detection*



**National Survey of training needs  
Construction industry observatory  
Blueprint: Big Data Observatory**



# *Solutions. Certification*



**TPC + Green tag**  
**New project on EU Construction card?**

900 11 21 21

[www.fundacionlaboral.org](http://www.fundacionlaboral.org)



Confederación Nacional  
de la Construcción



**Thank you so much!**

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