

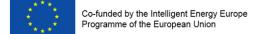
# renovation towards nearly zero energy SPORT buildings

#### **General overview**

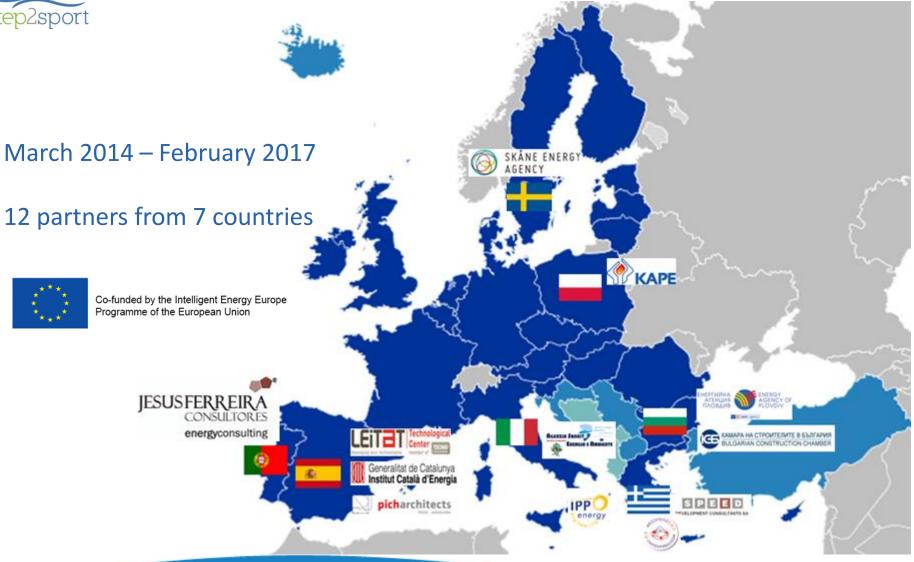
21th February 2017, Brussels Final Dissemination Event

Marc Torrentellé Soler









## Consortium



#### **Objective:**

To promote the energy renovation of sport buildings with the aim to achieve NZEB.





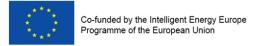








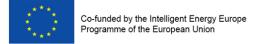
# **Objective**

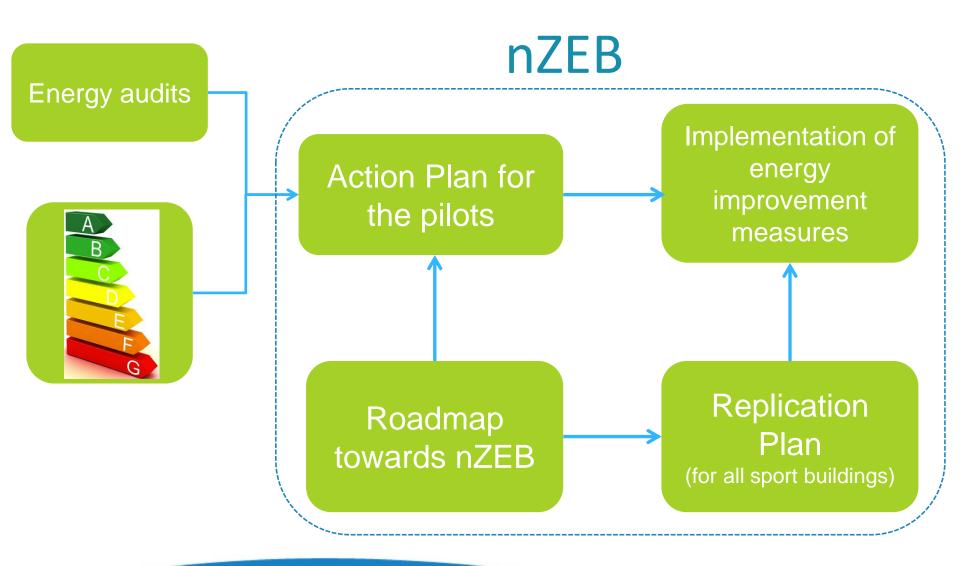


#### **Specific objectives**

- 1. To promote the implementation of step-by-step renovations towards nearly Zero Energy in European Sport Buildings.
- 2. To increase the number of existing sport buildings with **Energy Performance Certification** across EU, as a driver for step-by-step renovations towards NZEB.
- 3. To increase the investments of sport facilities owners towards improving energy efficiency and using of renewable energy sources in sport buildings.
- 4. To reduce emissions of greenhouse gases, supporting Energy Efficiency Action Plan 2011 and commitments such as Covenant of Mayors with the aim to reduce signatories CO2 emissions by more than 20% by 2020 through sustainable energy measures on their territories.

# Specific objectives





#### **STEP-2-SPORT ACTIVITIES**









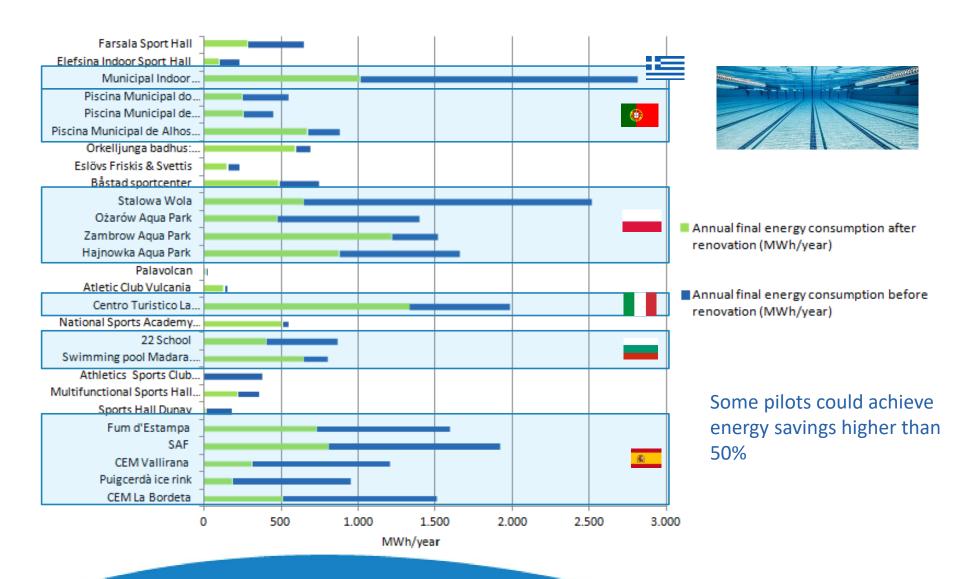
# WASTE OF ENERGY!!









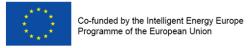


# Potential energy savings in pilots

#### Potential energy savings in pilot sports facilities:

Sport building typologies	Final energy savings (MWh/year)	RE production (MWh/year)	Investment required (M €)
17 sports facilities with indoor pools	10284	2620	7,0
6 sport halls	1178	119	1,2
3 gyms	165	58	0,4
1 ice rink arena	395	374	0,7
Total	12022	3172	9,3

# Potential energy savings in pilots



#### Savings achieved until 2016:

Investment done: 1,1 M €

2.000 MWh/year

420 tn CO<sub>2</sub>/year avoided 70.401 €/year saved

#### **Expected savings by the end of 2017:**

Total Investment: 4 M €

> 6.000 MWh/year > 1.800 tn CO<sub>2</sub>/year avoided

> 506.000 €/year saved

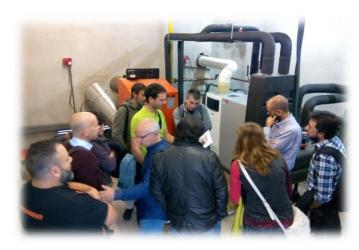
# Results achieved in the pilots

## **Replication of STEP-2-SPORT results**













# Thank you for your attention!

#### **Contact details**

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www.step2sport.eu