

20  
20  
TO  
GE  
THER  
torino is getting there

20  
20  
TO  
GE  
THER  
torino is getting there

Silvio De Nigris  
**Piedmont Region**  
**Sustainable Energy Development Sector**

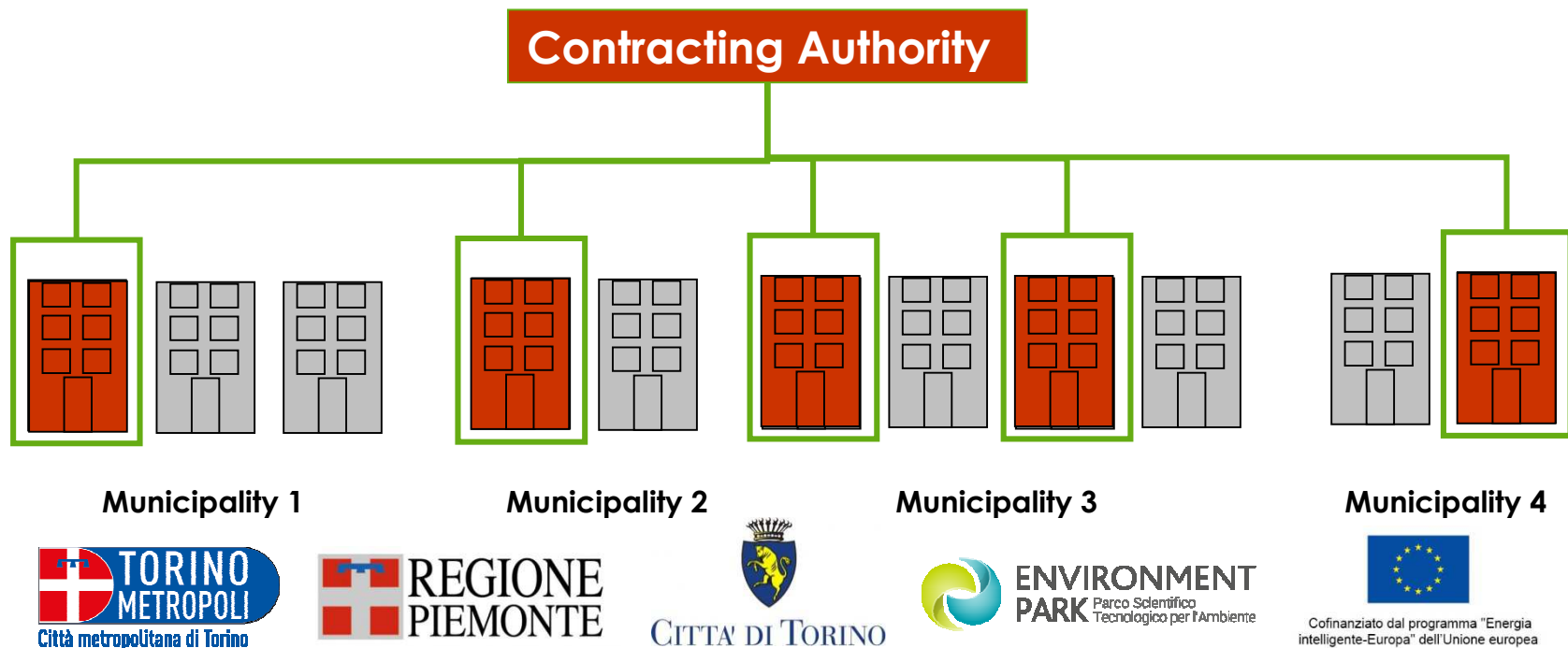
European  
Utility Week

15 - 17 November 2016  
Fira Barcelona Gran Via, Barcelona, Spain  
Industry Awards: 15 November

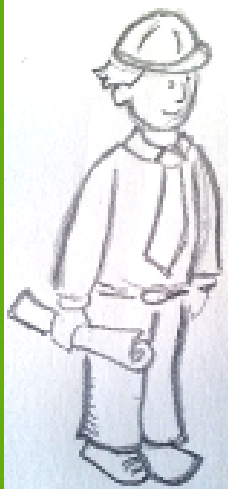


## The model: technical/administrative issues

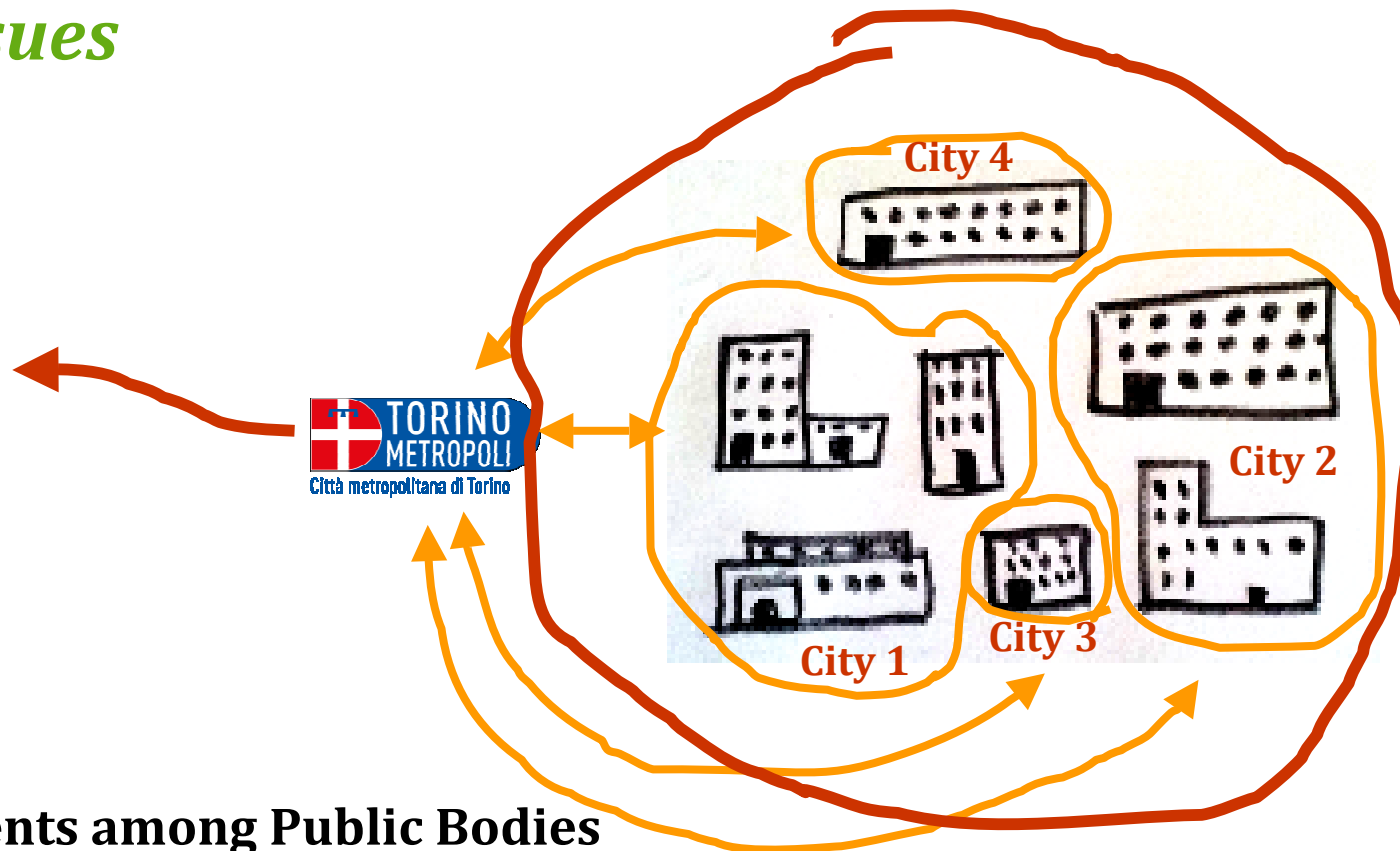
- Few buildings belonging to a range of Municipalities
- Selection of buildings on the basis of their attractiveness for ESCOs
- A binding agreement was signed by beneficiaries Cities and Contracting Body
- We are bundling investments for about 2.5 M€ (2/3 tenders) + one large investment plan for the City of Torino



## The model: technical/administrative issues

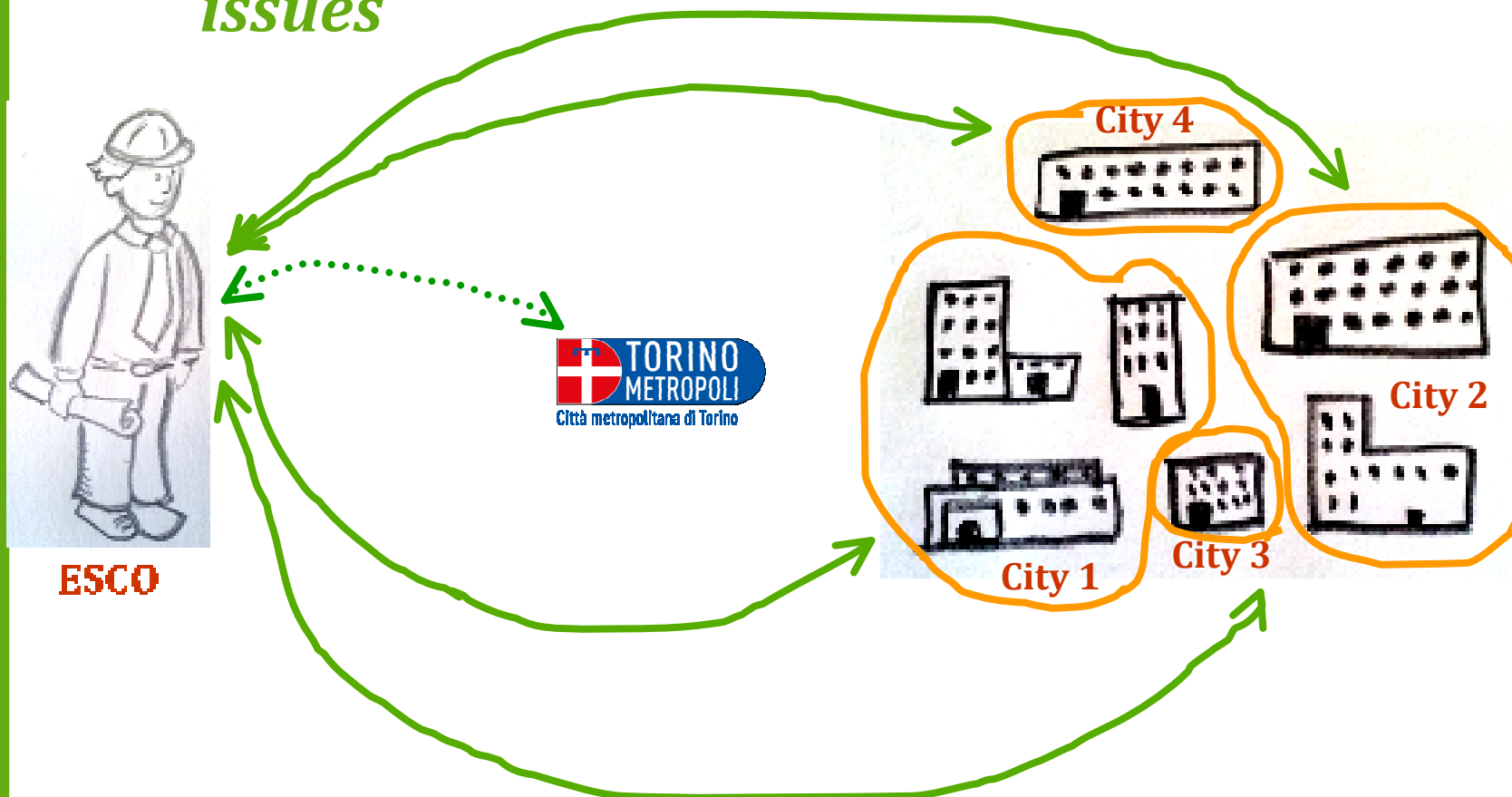


ESCO



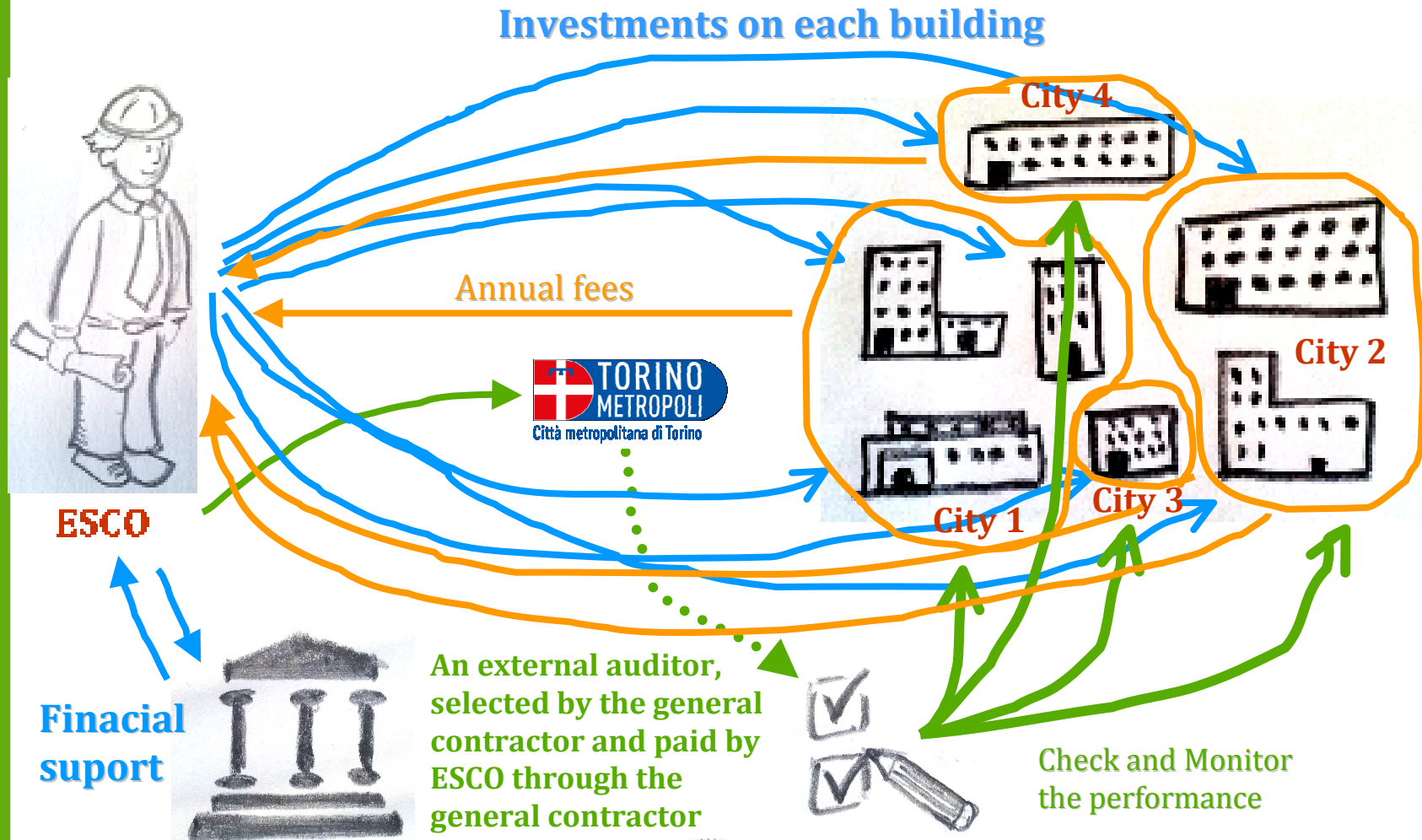
4 Agreements among Public Bodies  
1 Procurement process

## The model: technical/administrative issues



1 Framework contract  
4 Energy Performance Contracts

# The model: financial issues



## .....*Main achievements*.....

Large investment plan for heating boilers in the City of Torino - **Revamping**

**WHAT:** Change and management of heating systems in 118 public buildings

**HOW:** EPC with 5 years of duration

**WHO:** The City of Torino and the local Utility IREN

**Guaranteed savings:** 10% with shared savings in case of over-performance

**Investments:** 11 M€

**DONE**

## .....*Main achievements*.....

### Deep renovation of public buildings

***WHAT:*** energy renovation of 18 public buildings with fuel supply and energy management

***HOW:*** EPC with 13 years of duration (1 year for investments + 12 years for management)

***WHO:*** 5 Municipalities, the Metropolitan City of Torino and Bosch Energy and Solutions Italy

***Guaranteed savings:*** 64% with shared savings in case of over-performance (70-30)

***Investments:*** 3 M€



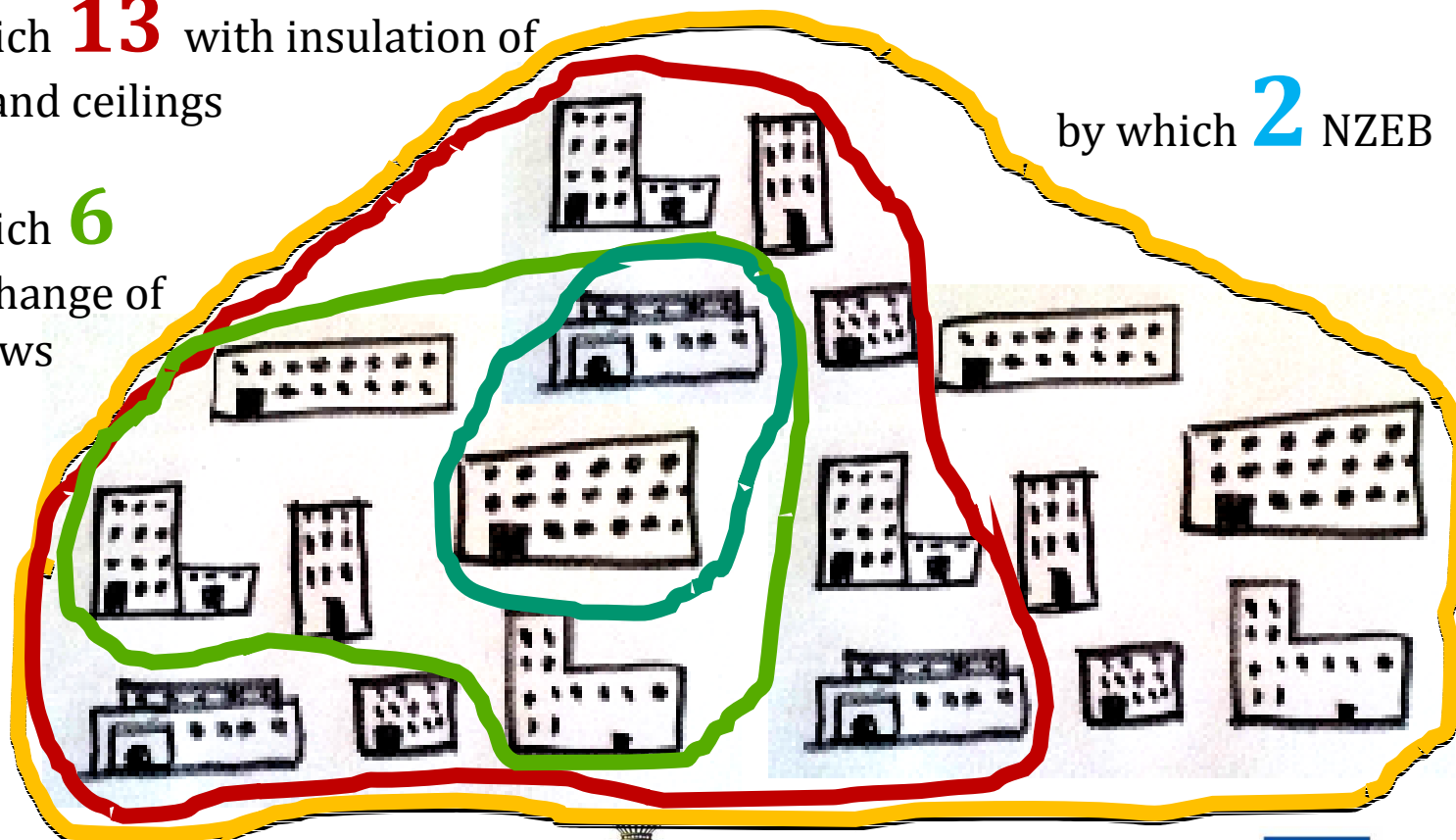
## Planned investments for deep renovation

**18** buildings with replaced space heating and energy management systems

by which **13** with insulation of walls and ceilings

by which **6** with change of windows

by which **2** NZEB



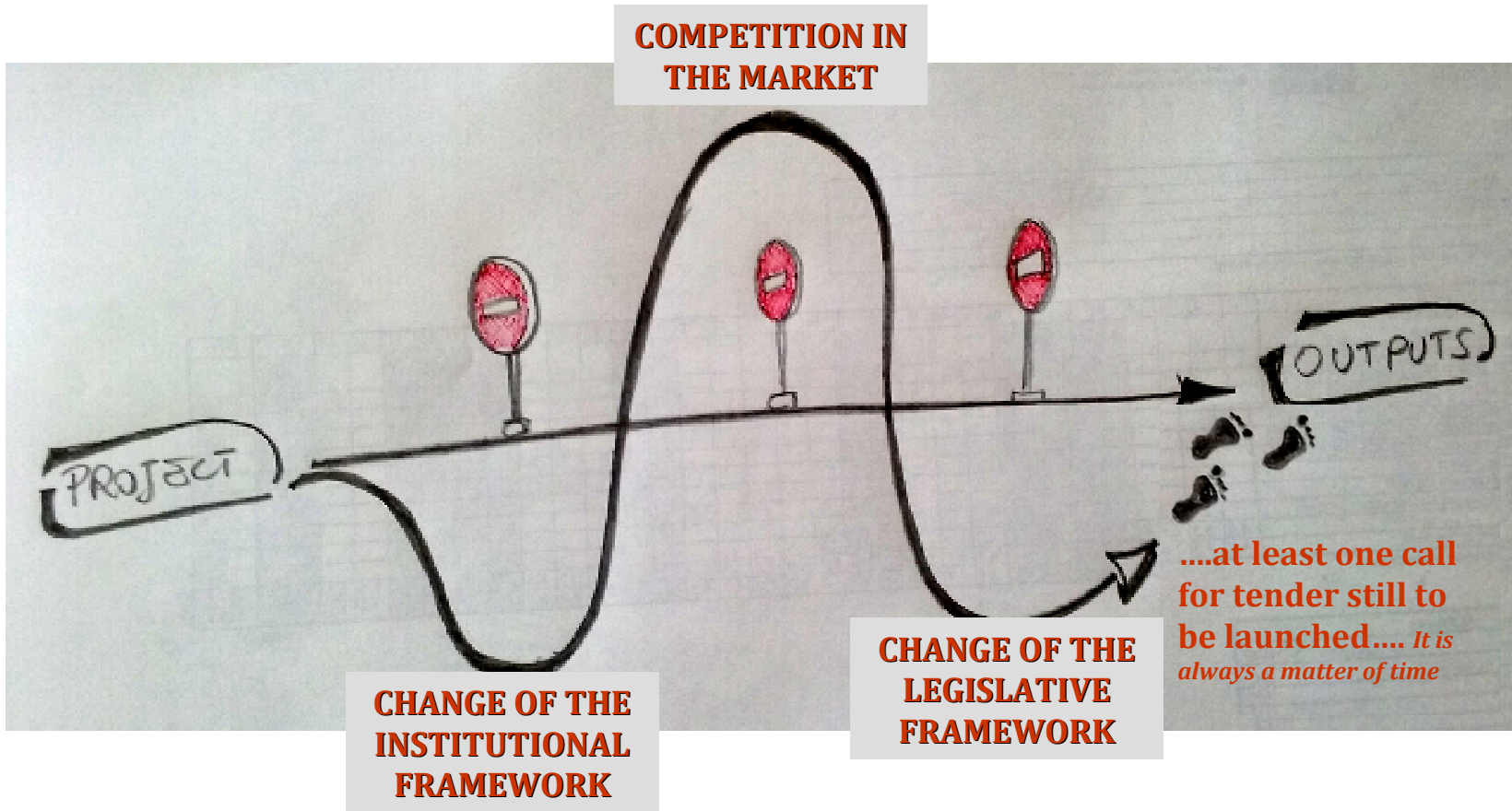


## Main achievements, so far....

KPI	Achieved*
Investments	14 M€
CO2 emissions avoided	1.780 tons
Primary energy saved	745 toe
Renewable energy produced	33 toe

*\*still to be validated by EASME*

# .....still some steps to go....



## 2020Together project:

Silvio De Nigris: [silvio.denigris@regione.piemonte.it](mailto:silvio.denigris@regione.piemonte.it) - 0039.011.432.3177