



Project co-financed by the European  
Regional Development Fund

## Financing energy efficiency in Italy, Croatia and Slovenia

Milano - 16.11.2017





Promote energy efficiency during the refurbishment of public buildings and street lights with Energy Performance Contracts and Third Party Investments

Project co-financed by the European Regional Development Fund



CITTA' DI TORINO



Co-funded by the Intelligent Energy Europe Programme of the European Union



## Project indicators

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KPI	Planned	Achieved
Investments	9.5 M€	12.5 M€
CO2 emissions avoided	4.300 tons	4.360 tons
Primary energy saved	1.800 toe	1.895 toe
Renewable energy produced	103 toe	33 toe
Leverage factor	19	25



## Investments implemented

1. Large investment for the replacement of heating boilers in 118 public buildings for 7.5 M€ of investment with a 5 years duration EPC the City of Torino
2. Bundling investments on public buildings for 3 M€ of investment with a 13 years duration EPC
3. Bundling investments on public street light for 2 M€ of investment with a 13 years duration EPC



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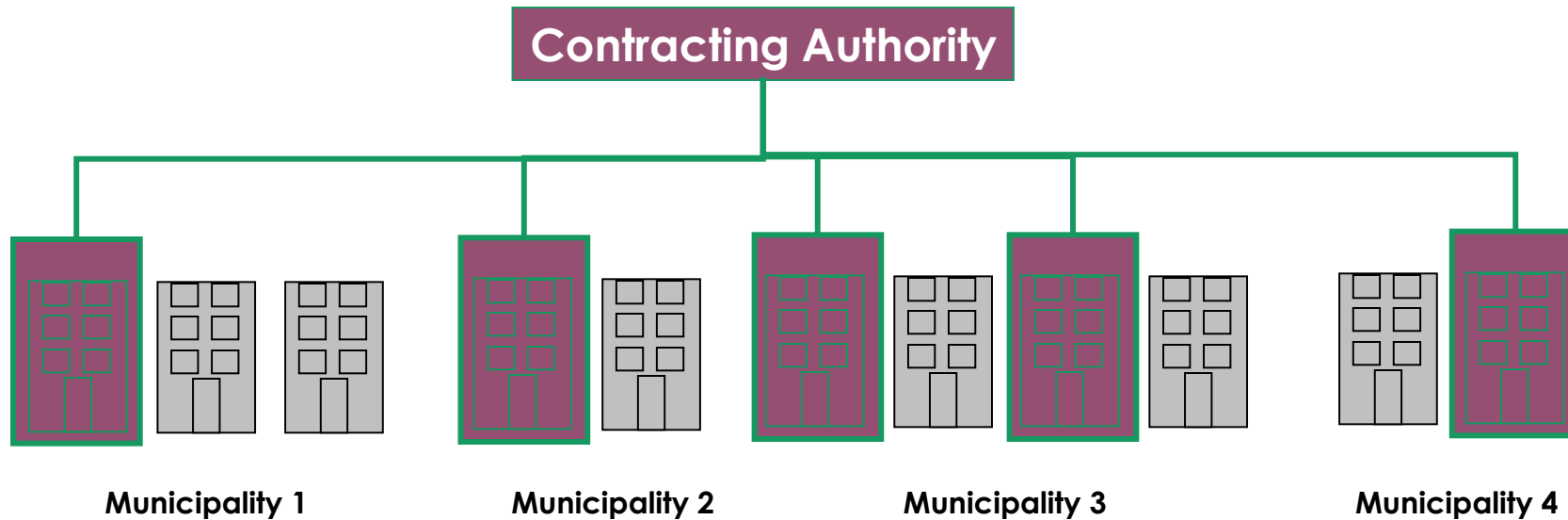


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# The model of the bundling contract: technical/administrative issues

- **Few** buildings belonging to a range of Municipalities
- **Selection** of buildings on the basis of their attractiveness for ESCOs
- A bundling agreement was signed by beneficiaries Cities and Contracting Body

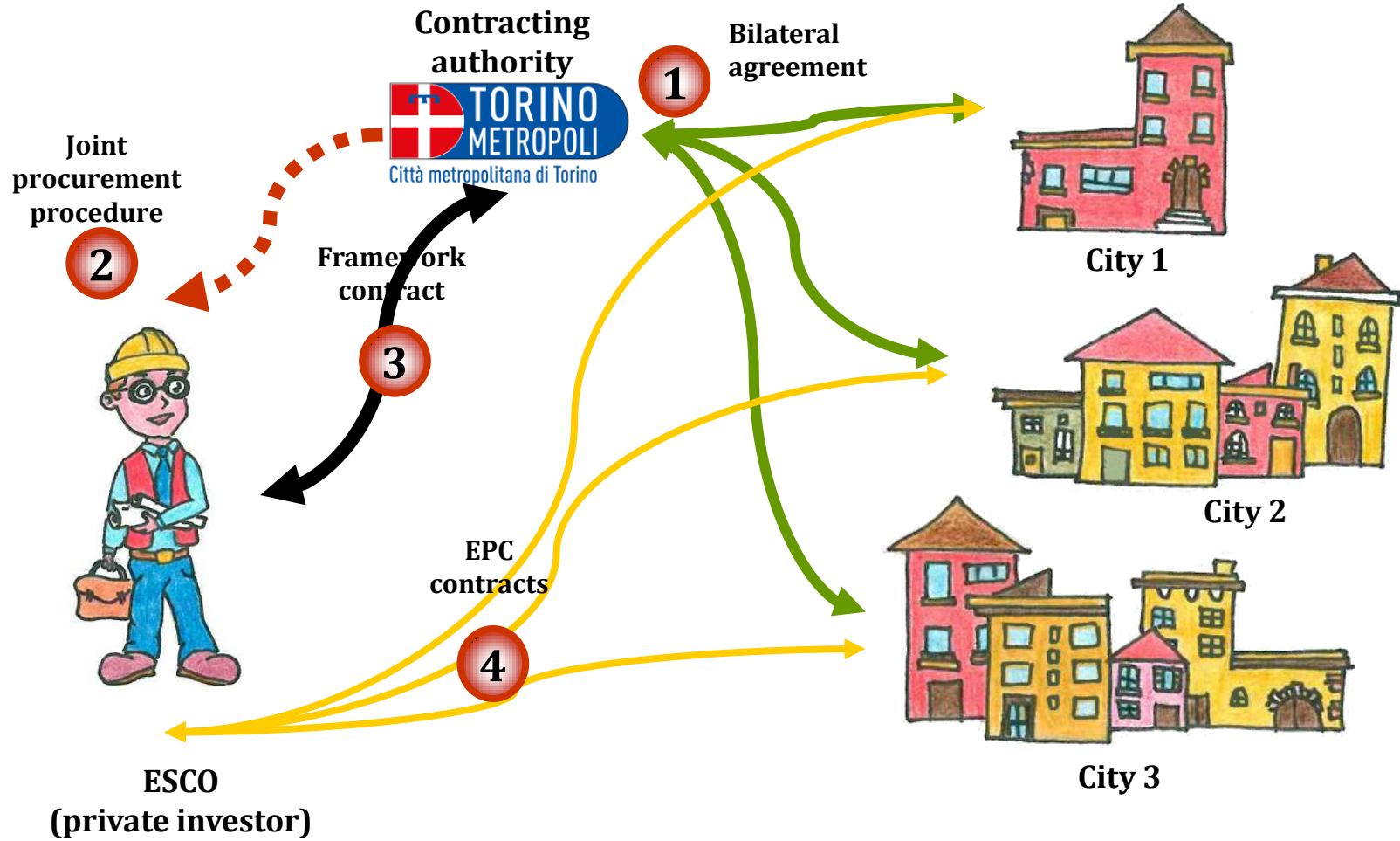


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# The model: administrative scheme



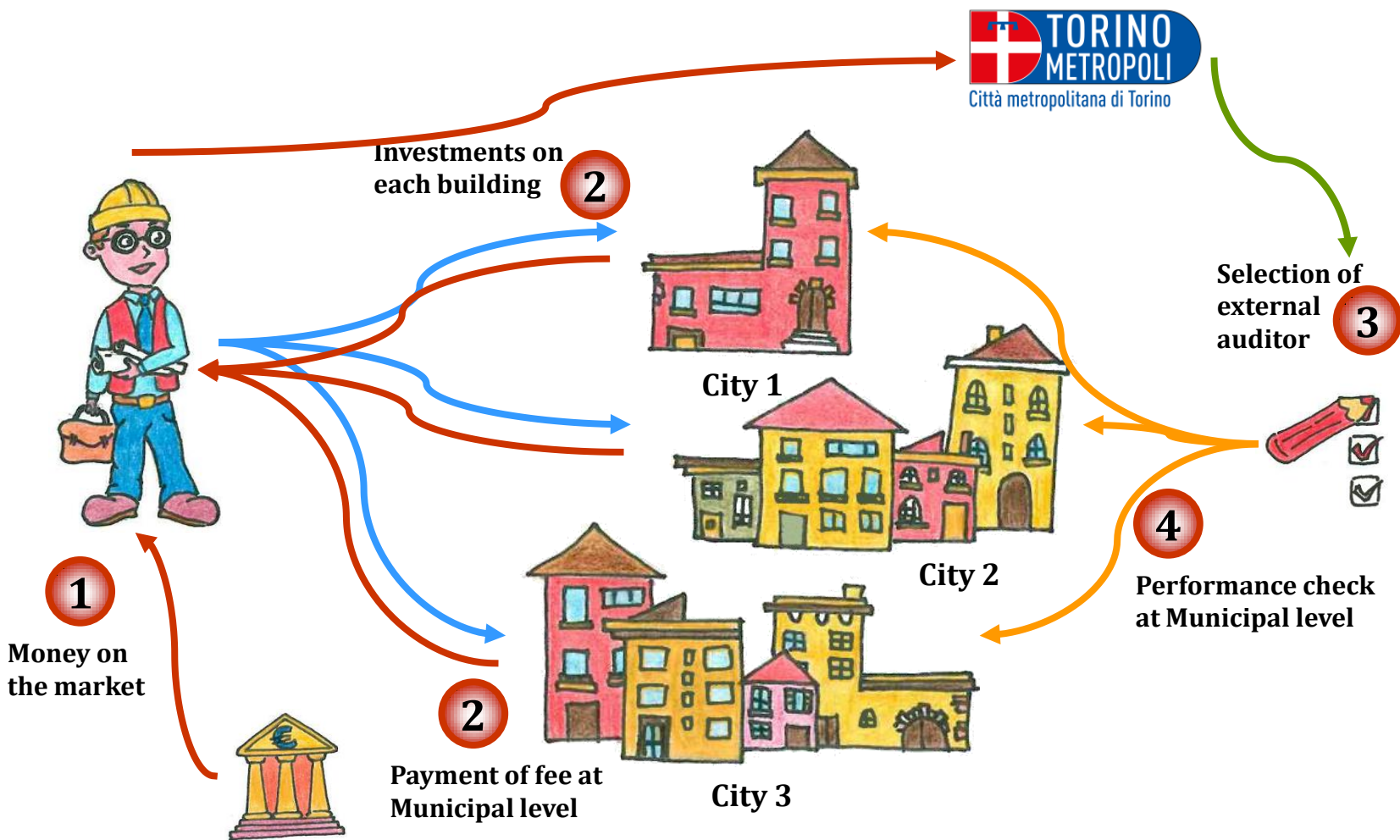
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# The model: financial scheme



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## .....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:** 61% with shared savings in case of over-performance (70-30)

**Investments:** 3 M€



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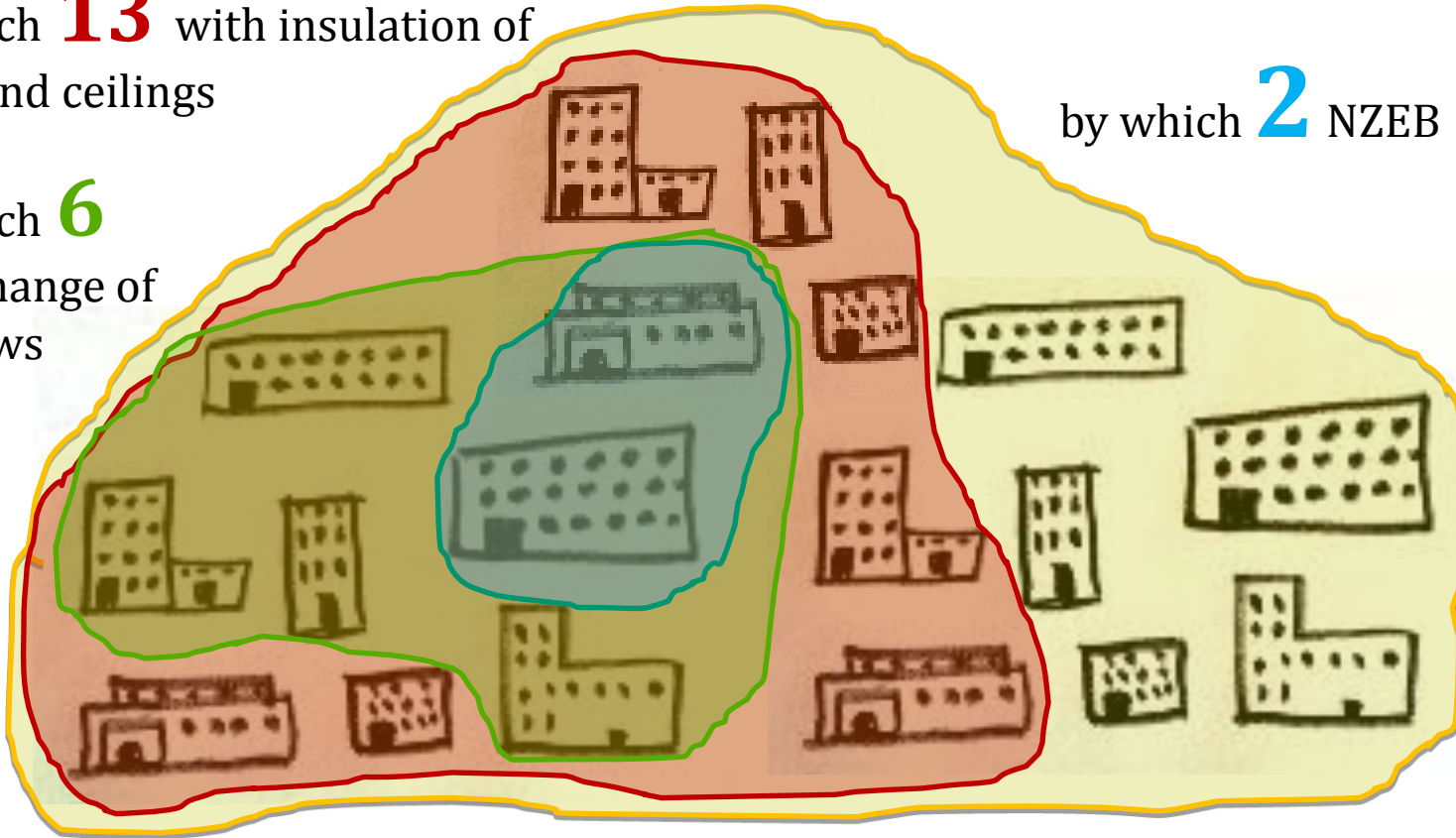
# Planned investments for deep renovation

**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



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# Approfondimento su audit e su PMVP



**Before**



**After**

Investments in the City of Orbassano



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LEPPING

the European  
fund





Works ongoing in the City of Volvera

**Interreg**   
Mediterranean

 **STEPPING**

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**2020 TOGETHER**  
torino is getting there



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## Investments in the City of Orbassano



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Investments in the City of Orbassano

**Interreg**   
EUROPEAN UNION  
*Mediterranean*

 **STEPPING**

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**2020** **TOGETHER**  
torino is getting there



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## .....What after 2020together?....

- Additional portfolio of investments (2M€) already in the pipeline for public buildings waiting to be launched.
- New portfolio of investments (2M€) under construction.
- Investments for public street light (about 10 M€) under implementation.
- Besides other important initiatives on healthcare buildings

## .....Difficulties/barriers

- Tender procedure to be followed according to new Law for public procurement (costs for design and low level of standardization for the procedures)

## .....Solutions envisaged

- Framework contract for Municipalities under the role of the joint procurer of the metropolitan City of Torino
- Project financing with private initiative

**Interreg**   
Mediterranean

 **STEPPING**

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