



In support of:



Workshop:

Procurement & Financing at Local Renewables:

Improving financial access to sustainable energy roll-out

25 October 2103 - Freiburg, Germany



Michele Zuin
Comune di Padova

COMUNE di PADOVA
SETTORE AMBIENTE

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In support of:



A multi-level governance approach for achieving energy sustainability at local scale



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Comune di Padova

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In support of:



- THE CITY'S CONTEXT

- CASES STUDIES

- SOLAR PADOVA INITIATIVE

- ELENA FUND - 3L

- PADOVA FINANCIAL INVESTMENT TOOL



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In support of:



- THE CITY'S CONTEXT

- 210.000 inhabitants
- poor energy efficiency for buildings
- 400.000 daily commuters
- 10% of the city's surface is industries
- SEAP submitted in 2010



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In support of:



- CASE STUDY 1

PADOVASOLARE



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In support of:



- CASE STUDY 1

- Promotion of PV plants installation on private houses (at least 500 roofs, 3-6 kWp)
- Feed-in tariffs are present

QUESTIONS

How?

Which governance?



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In support of:



- SOLAR PADOVA INITIATIVE “PADOVASOLARE”

- **GOAL:** 500-1000 PV Plants in the city
- **CONSORTIUM:** Comune, PV panels local producers, Banks
- **PLANTS SIZE:** 3 - 6 kW_p for single house, for condominiums to 20 kW_p



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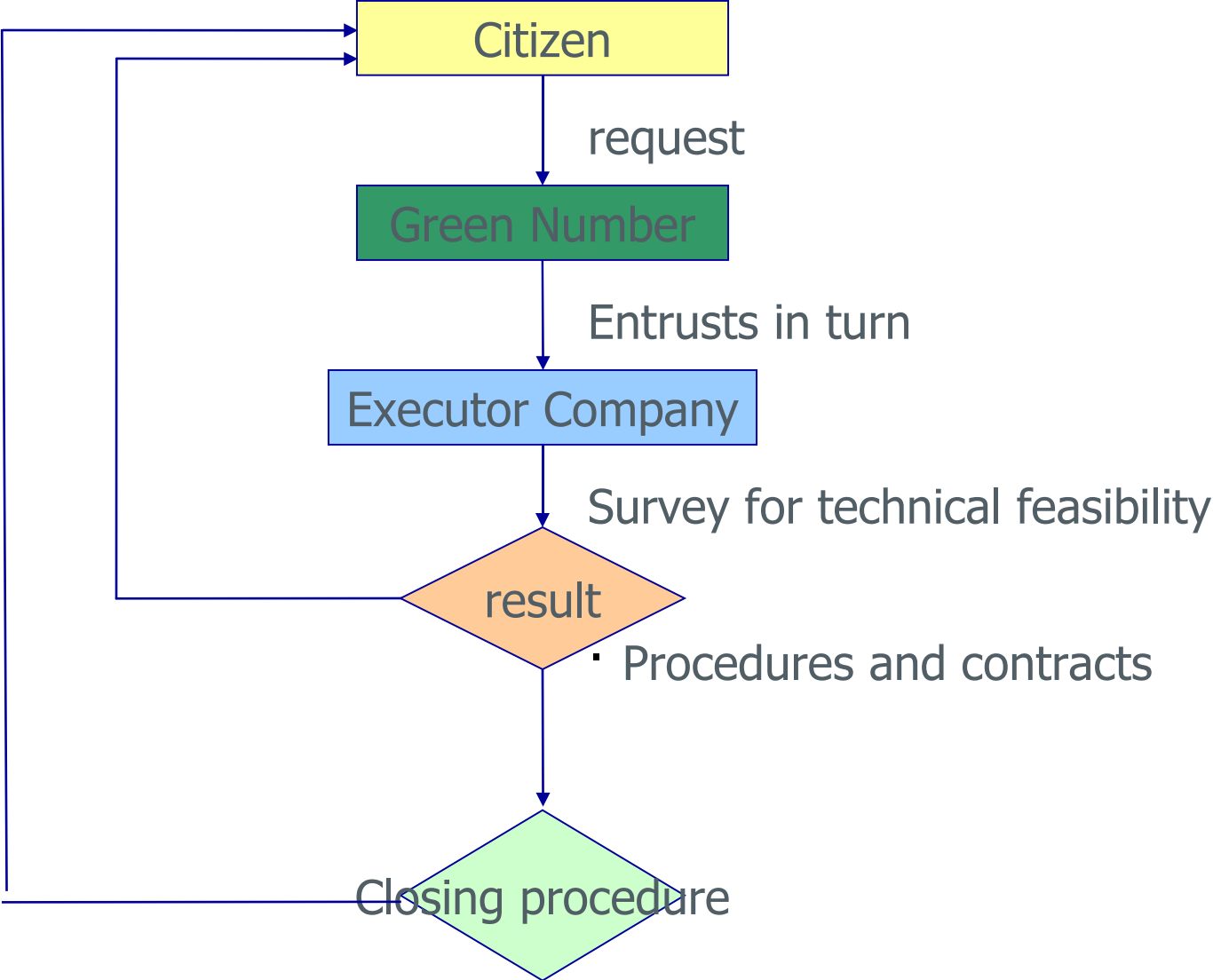


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PADOVA SOLARE: THE SCHEME





In support of:



PADOVA SOLARE: THE SCHEME

- All material costs, installation costs and insurance cost are included (20 years)
- All bank conditions are comprised (100% 20 years loan repayed by GSE feed-in tariffs)

PADOVA SOLARE: NUMBERS

- 700+ requests in 3 months (50% finalized)



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PADOVA SOLARE: LESSONS LEARNT

- The City has to guide the consortium
- The communication to citizens has to be institutional
- The consortium had three installer/PV producer companies and three banks: high instability!
- The project was implemented in 2011-2012 with overall 10.000 € costs for the municipality



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- ...BUT...an electric subsidized governmental initiative is a “low hanging fruit”
- Is it a REAL Sustainable Energy initiative at a Local Government scale?
- ...Local Government should try to activate AMBITIUIOS bottom-up initiatives



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In support of:



- CASE STUDY 2

ELENA 3L



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In support of:



- CASE STUDY 2

- Refurbishment of public buildings in our LG
- Energy efficiency of public lights of our LG

QUESTIONS

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In support of:



- ELENA 3L (Less Energy, Less costs, Less impact)

CONSORTIUM

- Provincia di Padova and Rovigo
- Comune di Padova and Rovigo
- the local Bank Foundation
- SINLOC technical partner



On 22 August 2013 the European Commission approved the project submitted by Provincia di Padova



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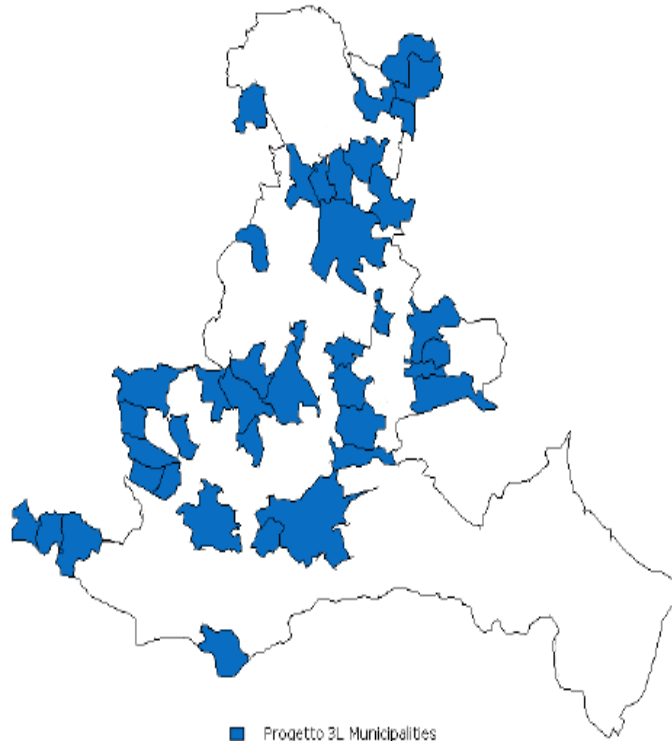


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- ELENA 3L, who's involved

LOCAL AUTHORITIES PARTICIPATING TO PROGETTO 3L

Territory of Province of Padova and Province of Rovigo



Progetto 3L collected submissions from 40 municipalities in the provinces of Padova and Rovigo



In support of:



- ELENA 3L, who's involved

- To date, Progetto 3L involves more or less 550 thousands people (51% of the residents of the province of Padova and 25% of the residents of the province of Rovigo)
- The project covers an area of 1.120 square km, more or less 40% of the province of Padova 26% of the province of Rovigo
- Provincia di Padova, Provincia di Rovigo, Comune di Padova and Comune di Rovigo currently act as leaders and coordinators of the project within their territory



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- ELENA 3L, numbers

- Thermal and electric consumption of the 650 candidate buildings amounts to € 18,8 mln
- Electric consumption of the 40 lighting systems amount to € 7 mln
- Progetto 3L aims at a 35%-40% energy saving on public lighting and a 25% reduction in buildings' consumption
- To date, Progetto 3L also includes maintenance activities worth € 6 mln



In support of:



- CASE STUDY 3

MLEI PDA Padova FIT!

IEE/12/083/SI2.645707



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In support of:



- CASE STUDY 3

- Promotion of energy refurbishment of apartment blocks privately owned in the city

QUESTIONS

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In support of:



Padova FIT! - WHAT IS IT?

- The PadovaFIT! PDA action proposes to boost this local commitment by delivering a large scale, housing retrofit programme of EE and RES measures sustained by an innovative financing scheme allowing all interested householders to have access to the measures
- To do so, CPD has brought together a team of experienced local private stakeholders (an ESCo, a Cooperative bank, a higher education non-profit foundation and an engineering company) willing to risk and invest in the creation of the PadovaFIT! scheme.



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Padova FIT! - THE CONSORTIUM



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Padova FIT! - THE ACTION

- The action will make it possible to bundle a critical mass of small and differentiated investment projects making them bankable through dedicated financing schemes.
- PADOVA FIT! enables the City Council to act as a facilitator and institutional guarantor for the bundling of small projects and make them bankable, without necessarily enjoying the financial benefits of the action.
- It will also use a repayment model based on the regular billing of supplies such as electricity or gas



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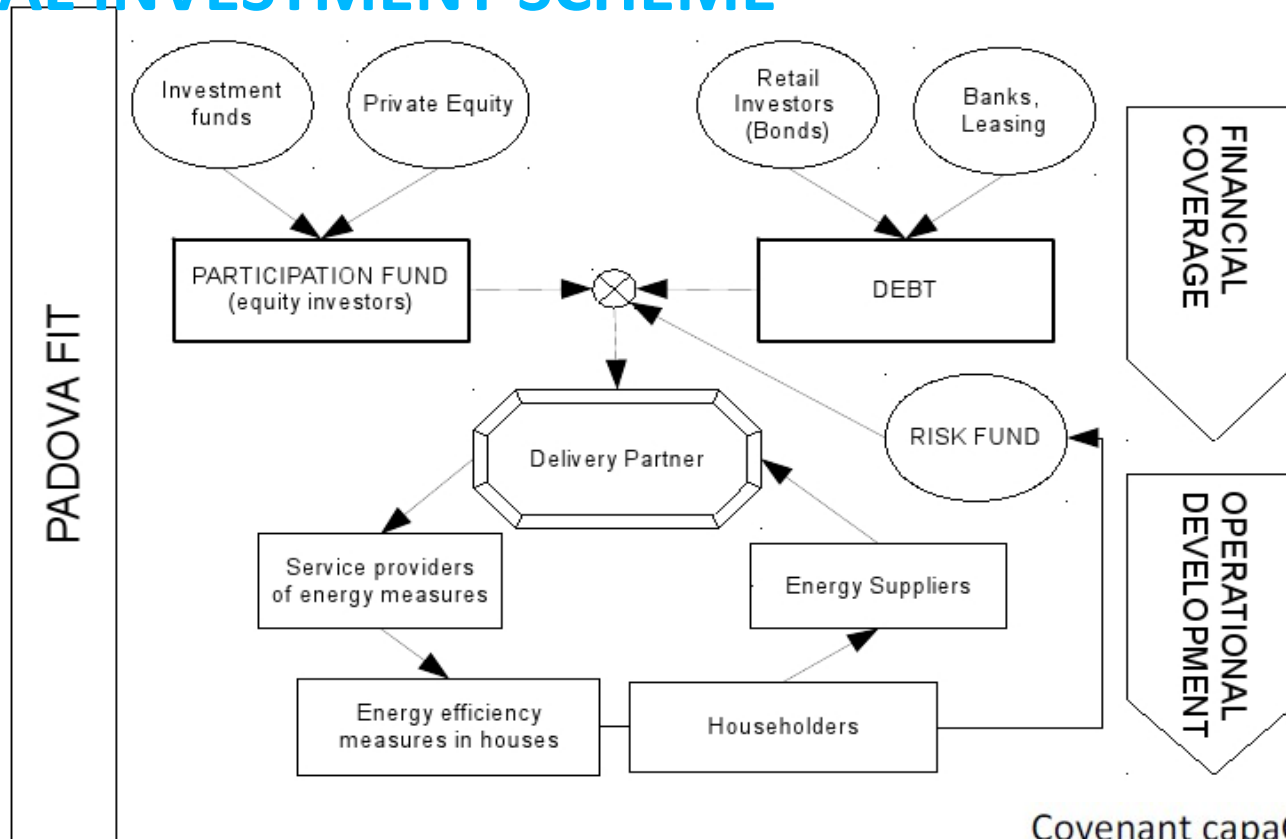


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Padova FIT! - EXPECTED RESULTS

- 15.800.000,00 € of foreseen investments launched in the private housing building sector (with possibility to add a share of public housing and service facility buildings)
- ca. 4500 people affected by the investments (over 2% of total population of the project area)
- ca. 4.850 tCO₂e/year of avoided GHG emissions
- ca. 15.200 Mwh/year of primary energy savings
- ca. 2.300 Mwh/year of Renewable energy produced
- a brand new PadovaFIT! financing scheme

GENERAL INVESTMENT SCHEME



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SETTORE AMBIENTE

THANK YOU!

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