

Vilawatt, an innovative public-private-citizen partnership for local energy governance



Vilawatt



What is UIA

Urban Innovative Actions (UIA)
European Regional Development Fund
(ERDF - FEDER)

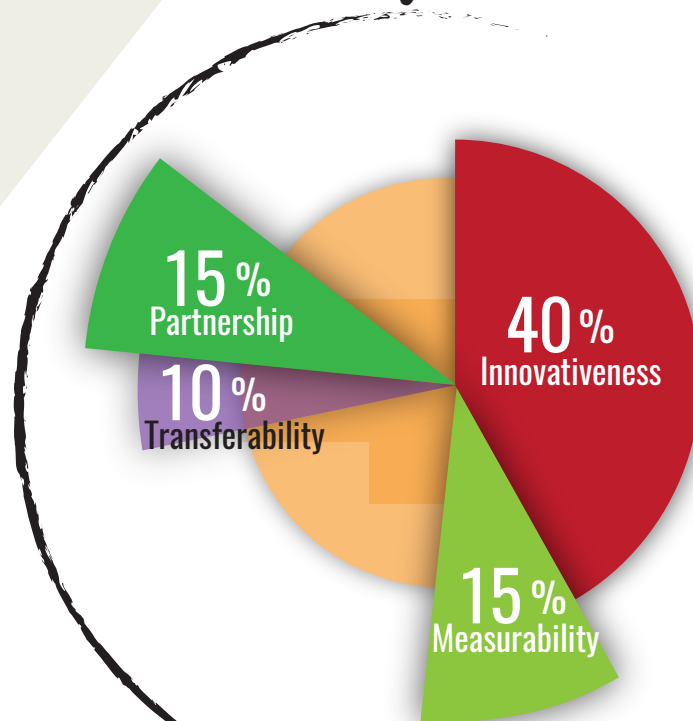
Main objective

To test innovative solutions to the main urban challenges and see how these respond to the complexity of real life

Specific requirements

- New solutions bringing EU added value
- Never been implemented anywhere else in Europe
- To be developed within three years
- Urban challenges that can be relevant to other urban authorities in Europe

Strategic Assessment



The project



Vilawatt Energy transition in Viladecans

- With an active role from the citizens, communities, companies and local administration.
- Energy management improvement and capitalization of the savings to boost the housing energy renovation.
- Promotion of the local economy, the education, the employment, the network neighborhood, the improvement of the city and the quality of citizens' life. (Integrated approach on the three sustainability dimensions: environmental, economic and social).

Potential obstacles and resistance

Citizens' ignorance related to energy management and indoor environmental quality.

Lack of interest in the housing energy renovation

The poor family finances don't allow to fund the refurbishment



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Key change

To initiate a **learning process** by means of:

- energy supply contracting
- a more efficient use of appliances, facilities, businesses and housings.
- building renovation projects

To create a **neighborhood movement** by means of:

- an alternative local currency (economical improvement)
- deep energy renovation of 3 residential buildings (increase of comfort and wellness)

- Capitalize the energy management savings
- Develop an economically viable Public-privatecitizens financial model



Management difficulties arising from the complexity of the refurbishment process (multiplicity of actors, lack of technical knowledge, administrative issues)

Weak organization of neighbourhood communities

Rigidity of regulations and administrative structures

Lack of experience of the Administration on deep energy building renovation

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- Local energy operator for integrated management of energy supplies, services and deep energy renovation.
- One-stop administration office in the neighborhood.

A New public-private-citizen structure:

- for deep energy renovation (residential)
- to accompany the community processes.

- Finding the legal, administrative and financial framework
- To adapt the institutional structure in coordination with the private sector and citizens.

Building a lighthouse project with the participation of all stakeholders related to deep energy renovation



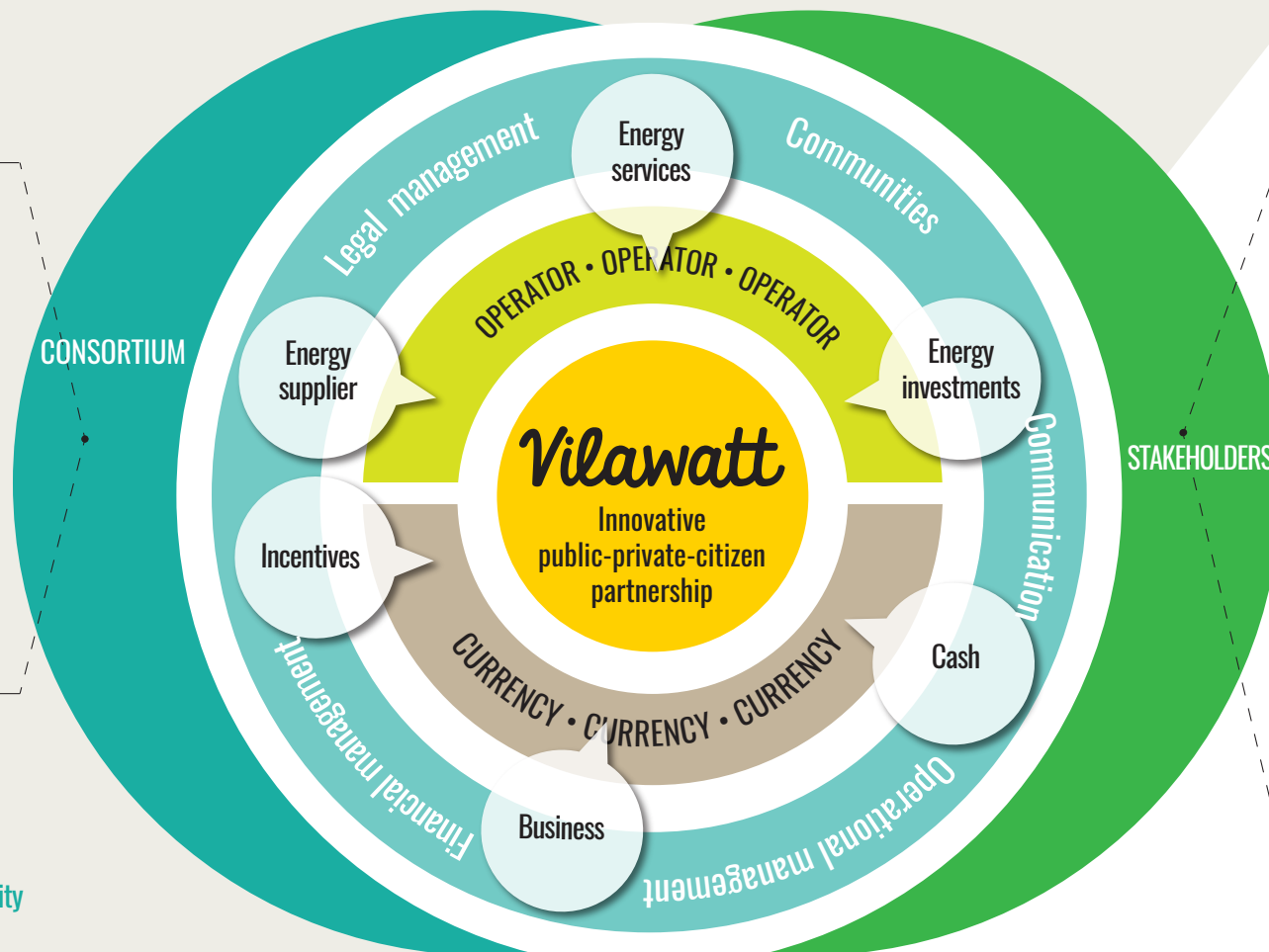
The big picture

Private partners:

LIMA Association -
Low Impact
Mediterranean
Architecture
Ubiquat Technologies
Cercle Gespromat
EGM

Public partners:

ICAEN - Energy
Agency of Catalonia
Urban Ecology
Agency of Barcelona
Viladecans municipality



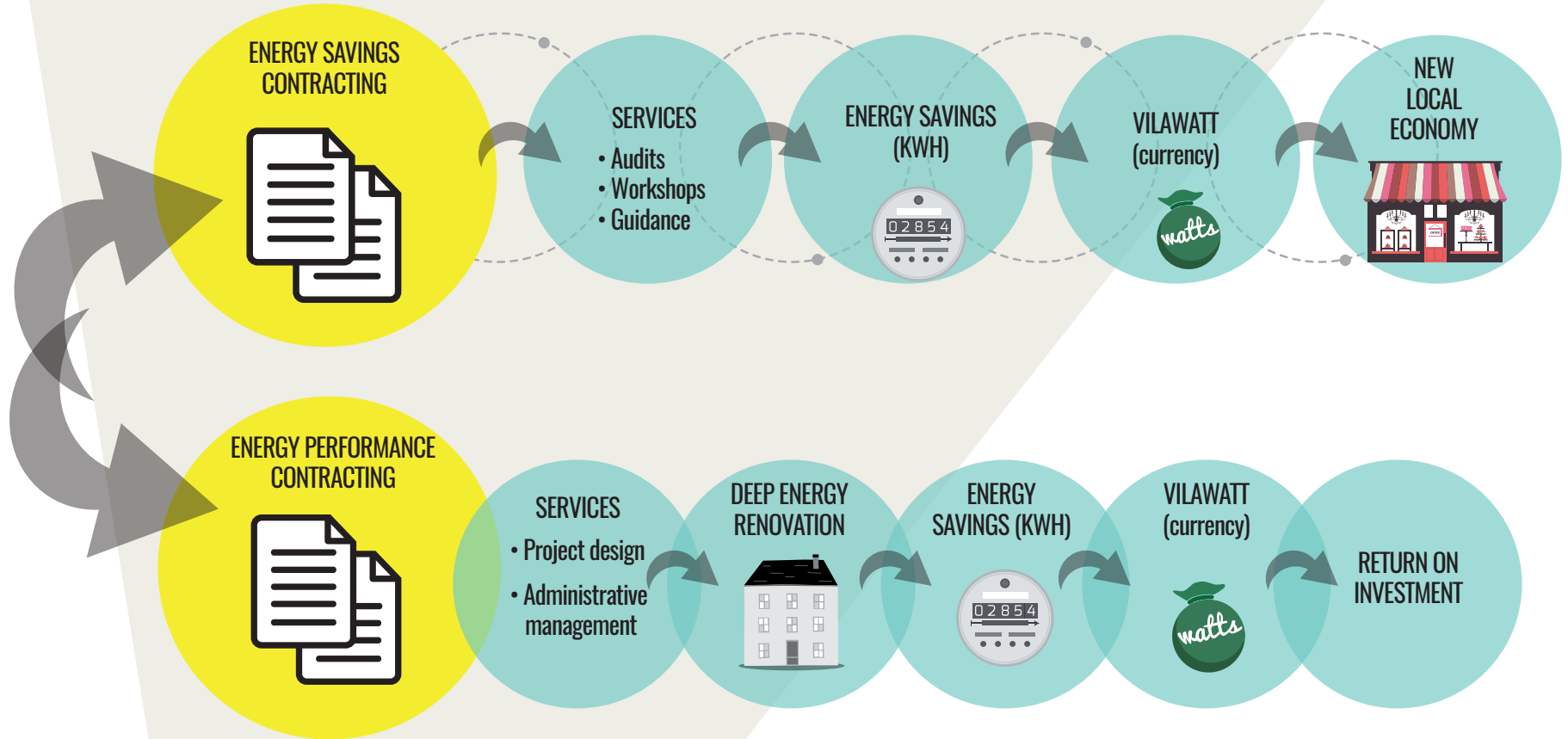
Private stakeholders:

Citizens
Local business
Local communities
Associations
Building companies
Sponsors

Public stakeholders:

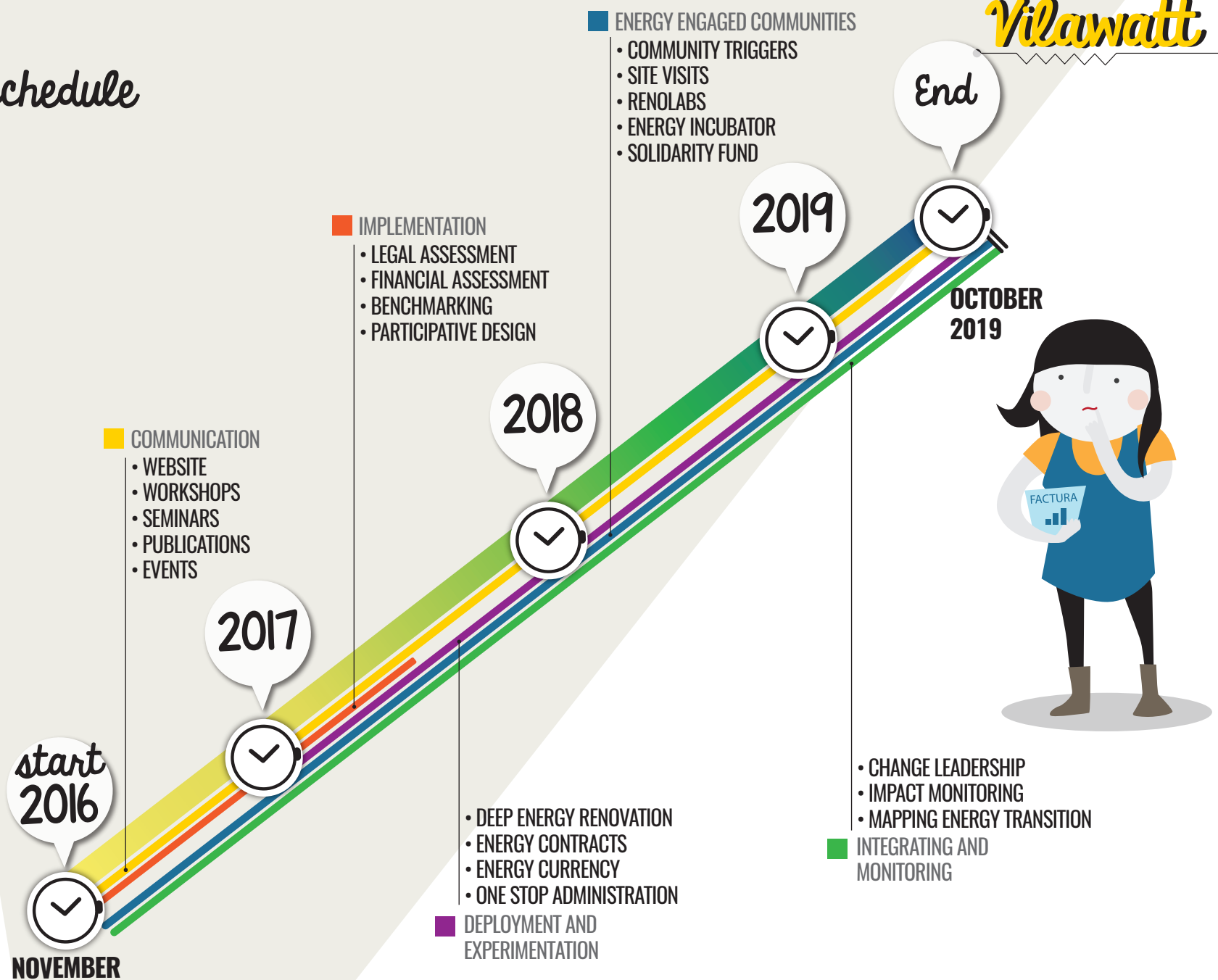
Àrea Metropolitana de
Barcelona- Metropolitan
Area of Barcelona
Generalitat de Catalunya -
Catalan government

Scenarios

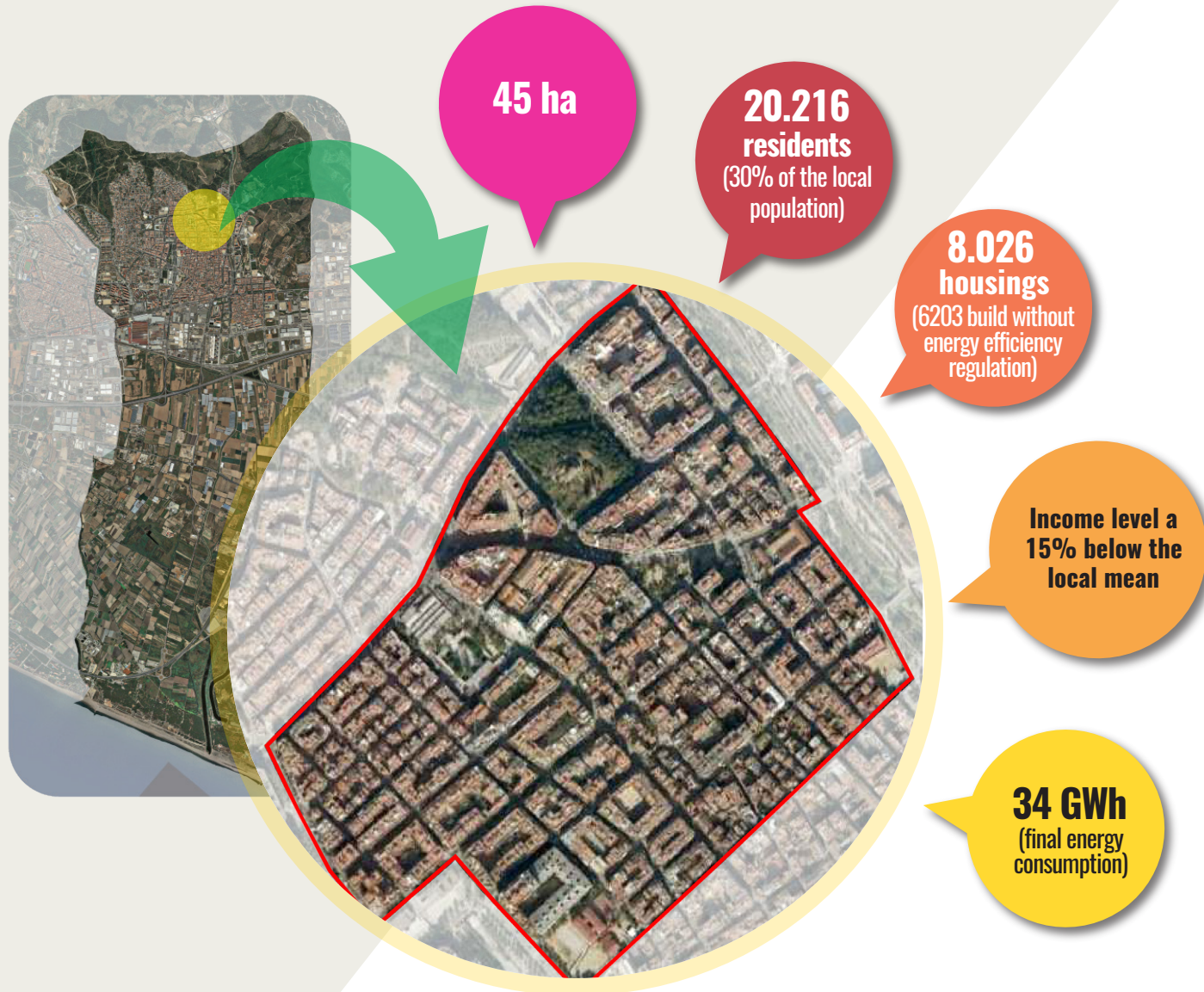


Schedule

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Scope



Thanks for your attention!!



Agència
d'Ecologia Urbana
de Barcelona

LIMA



Generalitat de Catalunya
Institut Català d'Energia

AJUNTAMENT DE
VILADECANS

