

OUTPUT FACT SHEET

Pilot actions (including investment, if applicable)

Project index number and acronym	CE659 PPI2Innovate
Lead partner	Central Transdanubian Regional Innovation Agency Nonprofit Ltd.
Output number and title	OT3.1: PPI Pilots using PPI2Innovate tools and competence centres
Investment number and title (if applicable)	n/a
Responsible partner (PP name and number)	PP5: REGIONE PIEMONTE
Project website	http://interreg-central.eu/Content.Node/PPI2Innovate.html
Delivery date	07/2019

Summary description of the pilot action (including investment, if applicable) explaining its experimental nature and demonstration character

The goal of the pilot action is improving the energy performance of the Giardino Botanico Rea (located in Trana- province of Turin) with a different and innovative approach in order to raise the quality, efficiency and sustainability of interventions. According to the PPI2INNOVATE SMART ENERGY Tool, Regione Piemonte's pilot aims at the implementation of a PROCESS involving the innovative use and integration of existing technologies. The innovation is related to the close interaction of different energy efficiency technologies, measures and solutions (works, supplies and services) in a single context. The Piedmont Region intends to promote the creation of a set of works aimed to the valorisation and conservation of the real estate and of the biological and naturalistic value of the 2500 different species cultivated, in compliance with current legislation and in line with the Community strategies on the subject of energy, climate change, environment (climate and energy package 2030) and systemic approaches to develop economic system (eg Circular Economy). The choice to use the Public procurement of innovative solutions -PPI- is therefore motivated by the desire to respond to a real need for innovation in the public sector through the opening of a market competition aimed at acquiring innovative solutions able to lead to effective improvements in the public service and to provided economic impacts not to the advantage only of the Regional Administration but also of the market.

For the implementation of the pilot, Regione Piemonte in 2018 sent exploratory surveys to 9 major municipalities located no more than 20 kms away from the REA Garden. The results showed a current knowledge and interest towards the garden and the activities carried out within it and. Subsequently, an energy audit was commissioned on the buildings in order to collect all data needed to improve the energy performance. In 2019 Regione Piemonte launched a PPI tender aimed at finding in the market the best design expert able to draft a project in two levels (definitive and executive) containing innovative solutions. The executive project have to identify measures (works/ services/ supplies) that are not only energy efficient but also based on principles of environmental, social and economic sustainability. For these reasons, Regione Piemonte opted for an open call procedure with the most economically advantageous tender (best price value ratio). The works/ services/ supplies identified in the executive project will be contracted later by a separate procurement.

NUTS region(s) concerned by the pilot action (relevant NUTS level)

Relevant NUTS:IT level concerned by the pilot action are mainly NUTS 2 code ITC1 (at regional level) but also NUTS 3 code ITC11 (Turin area) in line with the involvement of local municipalities in Sangone Valley (province of Turin) made by Regione Piemonte in order to assess territorial needs and relations with the botanical garden and its educational activities (surveys).

Investment costs (EUR), if applicable

Allocated inputs of the pilot action are:

Costs covered by Project budget (for external experts and services)

- energy audit cost: € 1.156,56 (VAT included)
- legal expert cost: € 9.972,77 (VAT included)

Cost covered by Regione Piemonte funds:

- costs of the tender procedures (publications and Anti-Corruption National Authority contribution): € 1.870,08 (VAT included)
- estimated tender amount for design project: € 40.500,21 (VAT excluded)
- estimated tender amount for works: € 380.384,00 (VAT excluded) *

*this amount could vary after the executive project is drafted

Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

Benefits and the expected impact of the pilot action are summarized below:

- **Economic benefits:** for Regione Piemonte the pilot will impact directly on REA Botanical garden on saving costs related to energy consumption and increasing real estate value. After the garden will be re- open to the public it may attract visitors into the area who, in turn, will spend money both at the garden but also at other local businesses. Botanical garden attractiveness it should increase visitors number coming to the area also affecting tourism in Sangone Valley currently not yet developed.
- **Environmental benefits:** the pilot action will favor the conservation of the various plant species collected within the Rea botanical garden. To mitigate a potential negative impact such as heating glasshouses by fossil fuels or using unsustainable materials, the pilot aims at reducing emissions and waste products also through diversification of energy sources with a preference for renewable ones and to reducing/recycling as much material as possible addressed to systemic principles (f.i. circular economy).
- **Technical benefits:** the need of a different and innovative approach in order to raise the quality, efficiency and sustainability of interventions and the service that will be provided within the botanic garden, may boost the introduction of innovative technologies for the management and control of resource consumption employed.
- **Social benefits:** pilot action will have effect on education activities and increasing awareness on biodiversity issues and providing information about plants and encouraging studies and researches. Pilot action will also generate recreation for the community living in the surrounding area through services, comfort and infrastructure of facilities to support the visitor experience.
- **Political benefits:** more generally, the pilot action may encourage and strengthen links between regional public authority and local public authorities; more particularly, the requalification of Botanical garden- which is well known and appreciated by local population in Sangone Valley since the 1960s- may have a positive influence on the territory.

Sustainability of the pilot action results and transferability to other territories and stakeholders.

The results expected from the pilot action can be classified as short term and as medium - long term:

- short term: selection of the best designer by PPI procedure able to develop an innovative project to create a self-sufficient energy system based on natural resources in the Giardino Botanico REA garden that allow the conservation of of different species of plants in the glasshouses and the use of the buildings (education and administrative activities); the pilot must also consider additional services to be provided to visitors such as toilets, cafes and all that is necessary to provide and guarantee comfort and all security and safety standards required for public access;
- medium- long term: reduce drastically energy consumption and the costs of the Garden utilities (electricity, water, heat) in order to overcome the public administration financial restrictions; waste reduction (and reduction of relevant taxes) with attention to systemic principles (f.i. circular economy); foster Garden activities (with a particular focus on its educational & research vocation but also introducing recreation aspects) to increase the number of visitors and to boost biodiversity education; an other expected result is that Giardino Rea is financial sustainable when the public funding intervention will end (by capital funding to cover the running costs); the pilot action will impact also on the market by enabling the emergence of new subjects able of boost innovation and facing the competition on a larger scale such as in energy design field;

The pilot action aims to create a model that is potentially replicable on other properties owned by Regione Piemonte and in other contexts similar to Rea Garden (botanical gardens, plants nurseries, parks, public buildings with outdoor green areas) considering that Italy is the nation with the largest number of Botanical Gardens (including 38 University gardens- the oldest- and other 68 institutions of "excellence").

Lessons learned and added value of transnational cooperation of the pilot action implementation (including investment, if applicable)

Lessons learned from the pilot action:

- multidisciplinary professional skills involved since early stage of the project (technicians, legal expert, financial and administrative figures);
- the procurement strategy depends on the data and information that are gradually obtained;
- innovation requires a different approach to procurement;
- end users' involvement identified in the local communities in the area surrounding the Rea Garden was essential to provide real and subsequently useful data for the construction of the procurement strategy;
- real and concrete needs are the basis for defining the objectives of the Administration;
- usual procedure timing has to be extended and adapted to innovative procurement;
- PPI is a procurement that is suitable when the contracting authority has a need that is not standard and if they are different from each other and also interdependent;

Transnational cooperation added value to Regione Piemonte pilot action: f.i. info days organized by pilot partners were useful to learn strategic concepts such as “what it is innovation” firstly explained by Gaynor Whyles during Zagreb meeting in october 2018; info day were also useful for dissemination of best practices, to share experiences and to generate new ideas.

Contribution to/ compliance with:

- relevant regulatory requirements
- sustainable development - environmental effects. In case of risk of negative effects, mitigation measures introduced
- horizontal principles such as equal opportunities and non-discrimination

In the pilot implementation Regione Piemonte compliances with relevant regulatory requirements such as Legislative Decrees n. 115/2008 and 102/2014 on Energy Efficiency implementation and all the EU/national/regional regulations/legislations in Energy especially for the identification and description of the needs; Regione Piemonte also considered the regulatory framework for the identification of the procurement strategy and for the drafting the tender documentations such as the Code of Public Contracts, Anti-Corruption National Authority Guidelines and Regulations, Anti-Corruption National Authority model contracts and model tender documents.

More generally, horizontal principles such as equal opportunities and non-discrimination are taken into consideration at any stage of the project lifecycle. When selecting service providers, Regione Piemonte ensured equal opportunities for all interested parties and avoided limiting or discrimination with requirements or selection criteria. As mentioned in the previous points, the pilot action contributes also to sustainable development, more in general, by reducing the energy intensity of goods and services, enhancing material recyclability, maximizing sustainable use of renewable resources (and extending product durability), promoting environmental education and awareness and encouraging the use of technology. A potential negative effect has been identified in high cost due to emerging/little known technologies. This risk could be mitigated during the review of both definitive and executive project before the launch of works tender.

References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links

If applicable, additional documentation, pictures or images to be provided as annex

Regione Piemonte considers relevant the activities finalized to development of customization of 3 thematic tool in SMART Health, SMART Energy and SMART ICT. It gave its contribution sending documentation and information in all three areas according to "learning by doing" principles. This was an opportunity for all partners to share ideas increasing knowledge and encouraging collaboration with one another.

Regione Piemonte considers also relevant for the pilot action all transregional peer reviews made by projects partners. In the SMART Energy public service or solution for Piemonte Region peer review (D.T3.5.1, D.T3.5.3, D.T3.5.4 D.T3.5.2), both self assessment and PPs assessment deliverables were very useful to identify gaps and to conduct a constructive evaluation of the Piemonte performance thanks to partners' feedback and comments. This helped also to improve the pilot progress and to motivate pilot team.

For all these reasons Regione Piemonte has recommended to update the SMART Energy Tool with the most practical comments taken from both Pilots self assessment and Pps.