
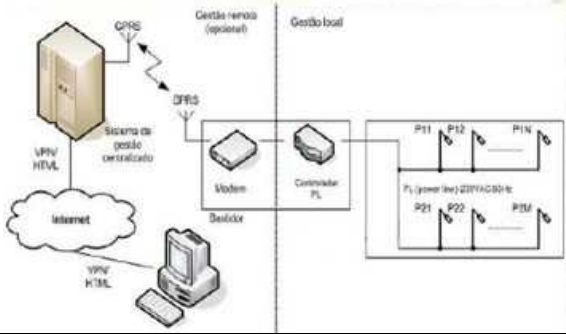


Lighting Living Lab – Águeda, Portugal

Keywords	Energy Efficiency, Smart Lighting, Eco-friendly Lighting, User-driven Innovation, Open Innovation
Photos	 
Objectives	<p>The Lighting Living Lab Águeda (LLL) aims to foster innovation and the development of new technologies and applications in the lighting field, to enhance its energy efficiency and to create new market opportunities. This will be achieved by involving the city, its citizens, the region's university and a cluster of lighting and ICT enterprises, under user-driven innovation and open innovation concepts.</p>
Description	<p>The LLL was born from the development of the Águeda Innovation and Competitiveness Network (RIC Águeda). This successful initiative engaged the city, the region's university and the local enterprises in an effort to jointly define the future economy of Águeda. One of the main issues raised, shared by all its stakeholders, was the need to enhance energy efficiency.</p> <p>The LLL is an innovative response to this issue, bringing together all the stakeholders in the lighting value chain, and making the bridge with other economic sectors, as the ICT sector. This enables an enriching approach that combines energy efficiency with ambient intelligence (Smart Lighting) and environment friendly build (Eco-friendly Lighting), to create new products/services/applications.</p> <p>The LLL employs user-driven methodologies, involving products potential users in their development, since the early stages of conception, through prototype build and testing, till the business model. This is embedded in an Open Innovation environment where all stakeholders contribute to a flow of information and knowledge essential to the development of ideas/concepts.</p> <p>Currently, the LLL activities are being financed by its main stakeholders, but in the future it will be self-sustained through the offering of services, namely consultancy, education, training and user-driven testing.</p>
Results / Achievements	<p>The LLL is already developing a group of pilot-projects on streets and other public spaces of Águeda municipality. One of these pilot-projects, implemented through a partnership between some LLL members, namely the Águeda City Council and Exporlux – Iluminação, SA (www.exporlux.pt), will save annually 7,328.6 kW of energy, that represent also less 665.40€ spent on energy and 3.2 tons of CO₂ emissions avoided.</p> <p>Beyond these results, the LLL has already a large base of committed partners, from the academic, government, institutional and enterprises field, at local, regional and national levels, which is viewed as critical factor for its success.</p> <p>Furthermore, the work started with LLL was recognised internationally with its admission as member of European Network of Living Labs (ENoLL) in the last call (November 2008).</p> <p>The LLL success will also be measured by the range of innovative products/services/applications designed.</p>
Friendly advice for replication	<p>Energy efficiency constitutes not only a technological, but also and mainly, a social challenge. First, because the local community should develop a new behaviour toward energy consumption (e.g. do not forget to turn off unneeded lights) and second, the development and success of new, more efficient technologies depends, on a large extent, on its application by the user.</p> <p>This means that the local community must be actively involved in energy efficiency projects developed by the municipality. There is a high range of possibilities to do this (of which the Lighting Living Lab Águeda is an example), through involvement of the school community and users of other public spaces and facilities.</p> <p>That said, a municipality should also push for technological changes towards energy efficiency, through mobilisation and active partnerships with enterprises and firms that have an important role in this matter, showing them what can be done and what they can achieve in business terms. This can and should be complemented with the involvement of existing local/regional universities with competencies in these fields.</p>

Online information	http://www.openlivinglabs.eu/pdfs/lighting-living-lab.pdf
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