



LISBON'S PATH TOWARDS A SMARTER CITY

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www.lisboaenova.org

LISBOA E-NOVA – LISBON’S ENERGY-ENVIRONMENT AGENCY

Contribute to Lisbon’s sustainable development through the promotion and dissemination of good practice in energy and environment.

26 Affiliates

13 Workers

6.000 Mailing list subscribers

50 Communication actions/year

25 Current projects

AFFILIATES



CONCEPT OF A SMART CITY



URBAN WORK

Writing the Rules for Smart Cities

ANTHONY FLINT | JUL 23, 2012 | 5 COMMENTS



There still isn't a common language or science of cities for the 21st century.

'I don't know whether the Smart City terminology will survive. But I hope that an intelligent or Smart City vision is one everyone gets excited about'

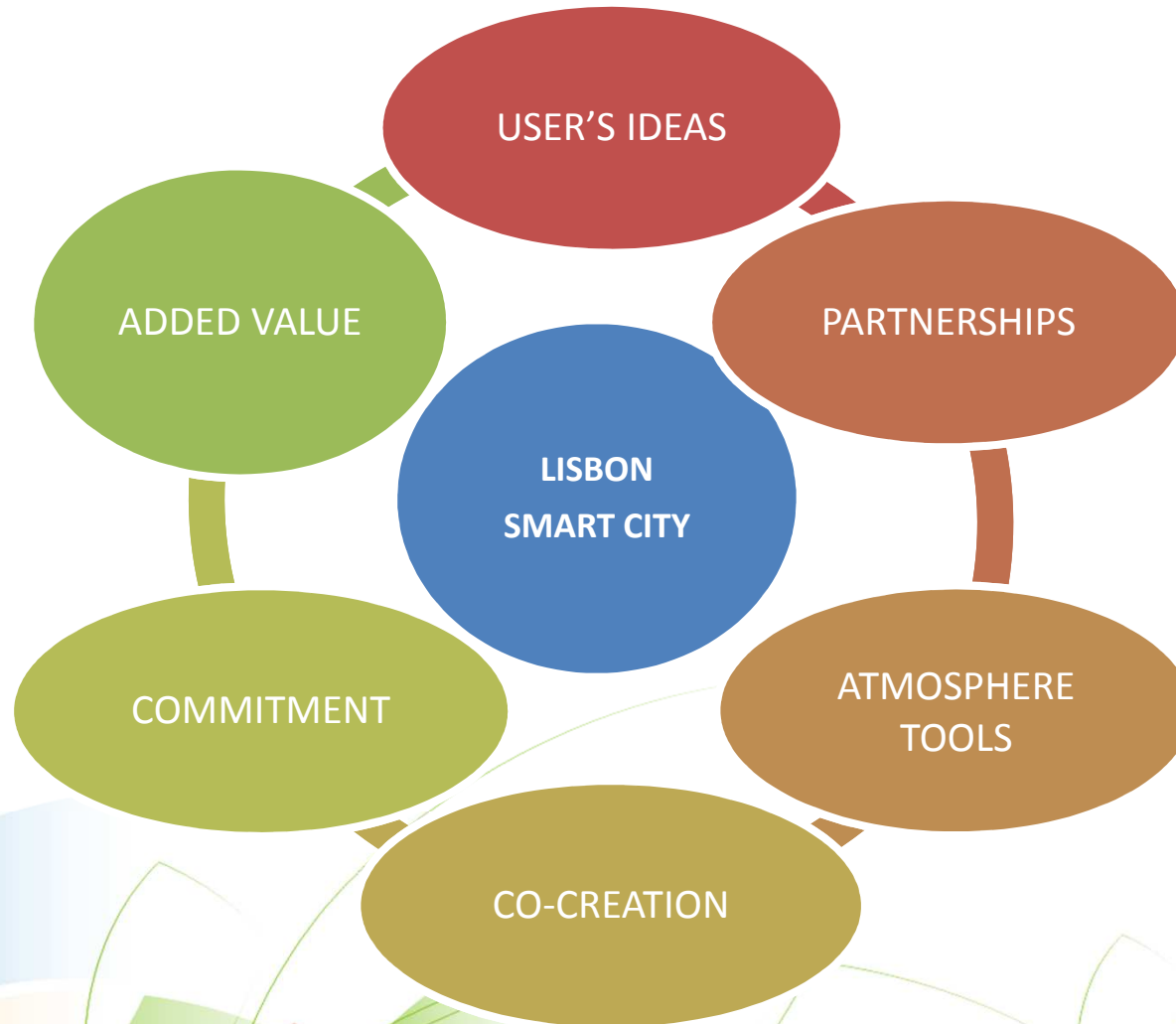
Molly Webb, the Climate Group

[read more](#)

LISBON'S CONCEPT OF A SMART CITY



LISBON'S CONCEPT OF A SMART CITY



LISBON'S CHALLENGES/GOALS FOR THE FUTURE

- an international hub for world scale companies;
- a pole for creativity and innovation;
- a prospering atmosphere for entrepreneurs, new ideas and business;
- a dynamic city for exhibitions, events and cultural activities;
- a center for excellence in investigation and R&D;
- an inclusive city for its citizens, fostering a cooperative environment between the local authorities and the citizen.

LISBON TOWARDS A SMART CITY

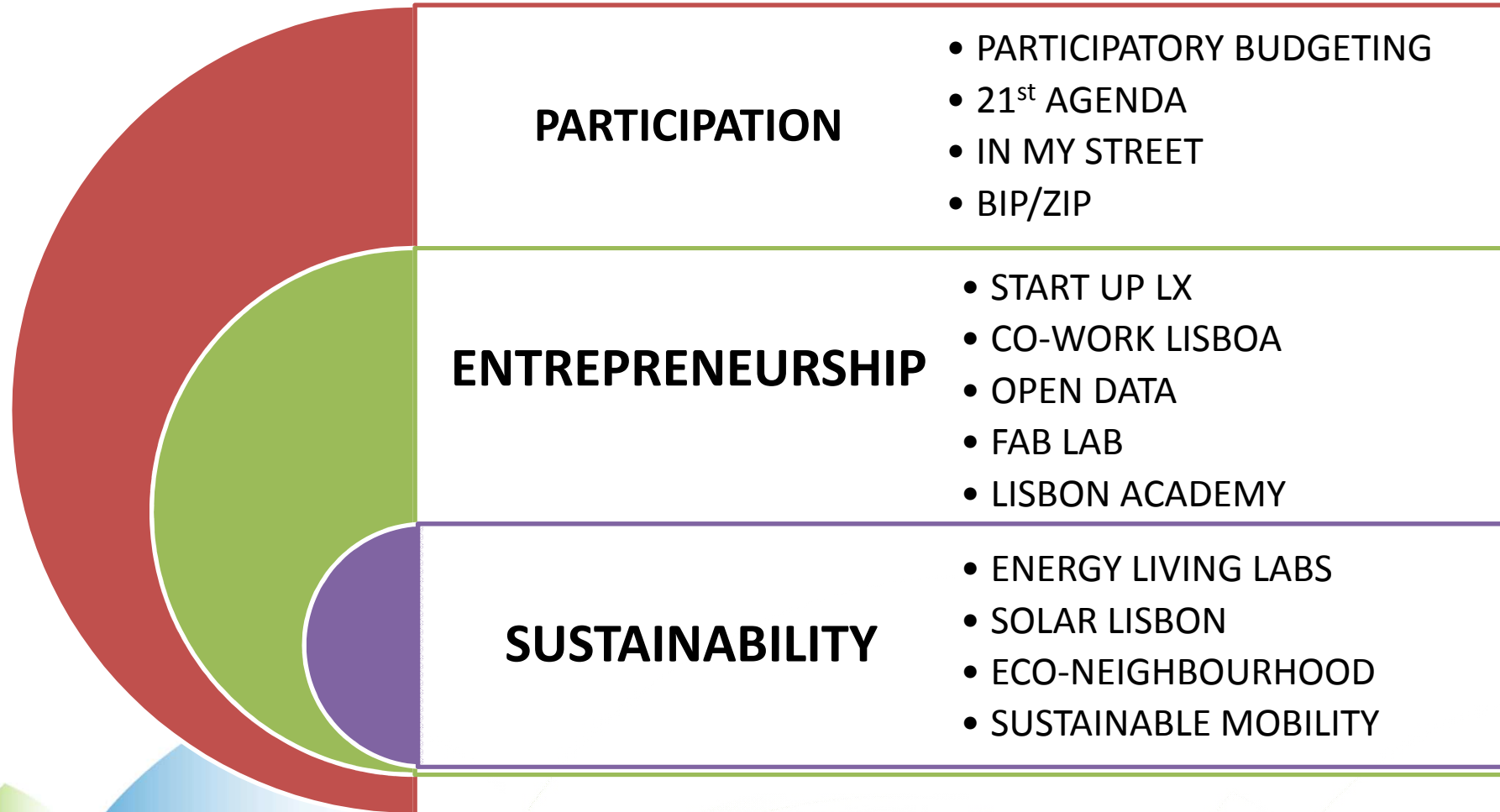
- **The challenges:** Economic and financial crisis, citizens distrust, growing social needs, ageing population, sustainability.
- **The opportunities:** ICT, data systematization, citizens participation, social networks, renewable energies technologies in the urban environment.

- **The goal:**

“Facilitate creativity, providing citizens, small enterprises, start-ups and civil organizations the tools needed to create, to innovate, to enable social innovation, centring the citizen as a co-producer/partner of the City”

Lisbon City Councillor Graça Fonseca

LISBON TOWARDS A SMART CITY



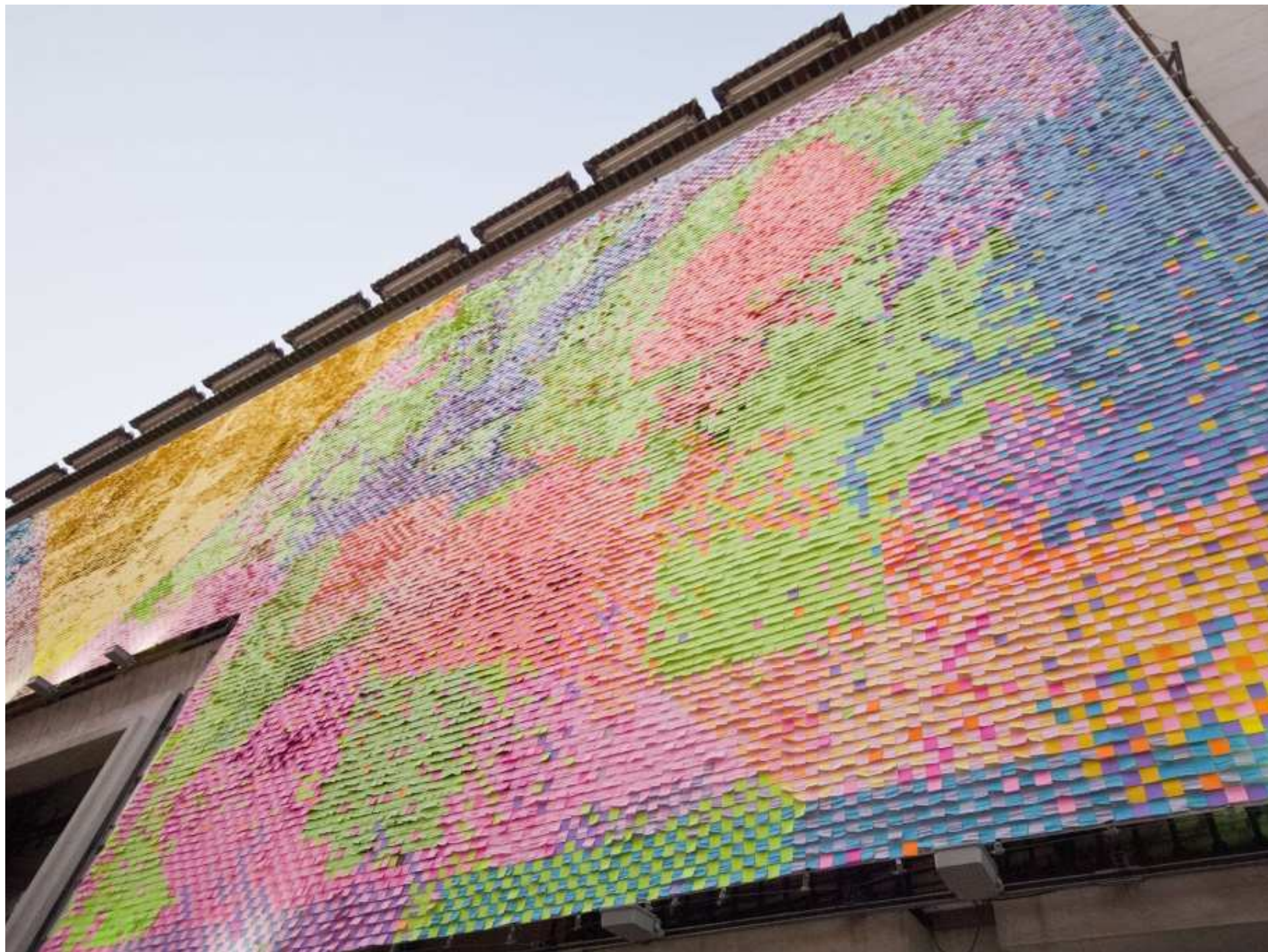
PARTICIPATION

PARTICIPATORY BUDGETING

- ☐ 580 Proposals
 - ☐ 89 Projects
 - ☐ 5 Winners
 - ☐ 1101 Voters
- ☐ 533 Proposals
 - ☐ 200 Projects
 - ☐ 12 Winners
 - ☐ 4719 Voters
- ☐ 937 Proposals
 - ☐ 291 Projects
 - ☐ 7 Winners
 - ☐ 11570 Voters
- ☐ 808 Proposals
 - ☐ 228 Projects
 - ☐ 5 Winners
 - ☐ 17887 Voters





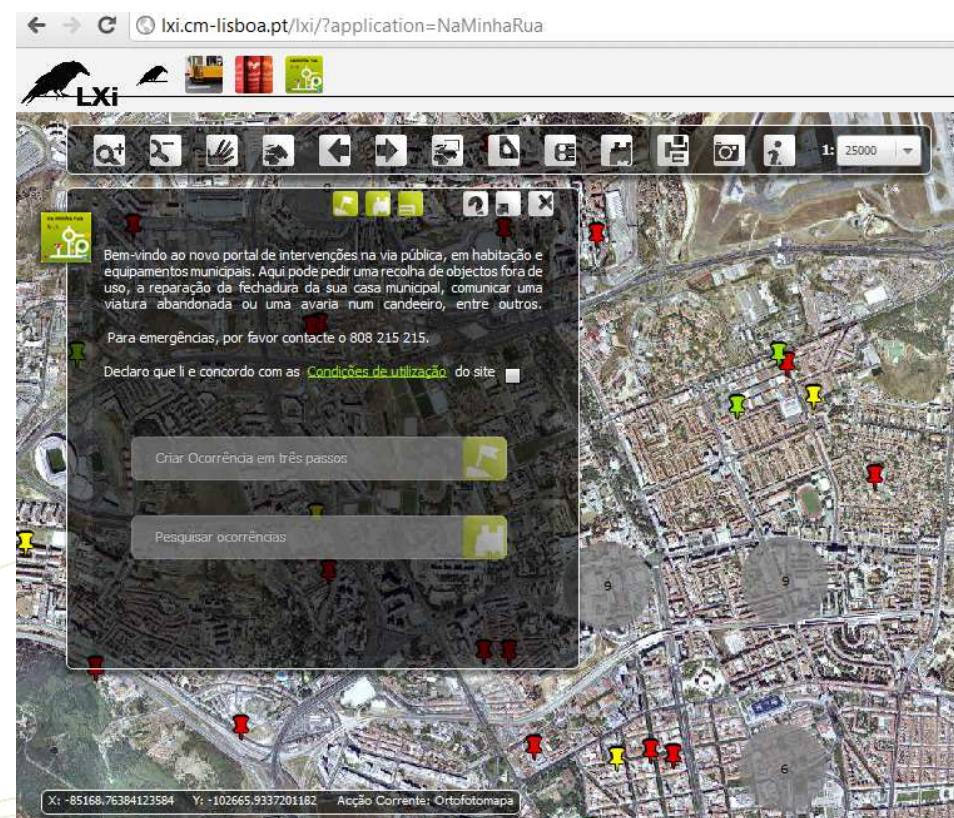




PARTICIPATION

IN MY STREET

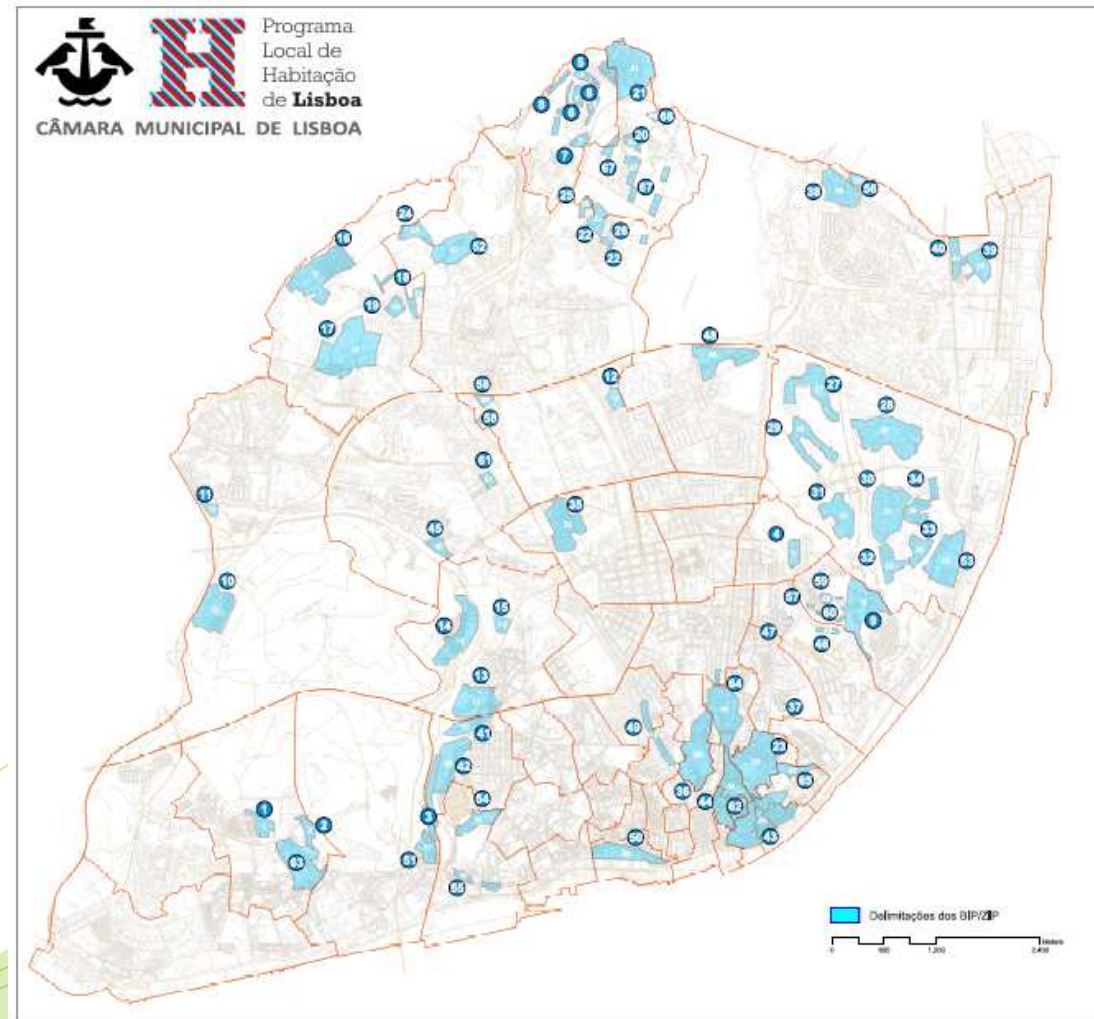
- Citizens are invited to report problems/situations that need the municipality's attention.
- The occurrences are presented to everyone in the portal, identifying their state:
 - reported,
 - analysed,
 - solved.
- Successful instrument for citizens reporting/communicating the city status and identifying gaps in the city management.



PARTICIPATION

BIP/ZIP

- The Lisbon Municipality mapped the most critical neighbourhood in the city according to social, economic and environmental criteria;
- To those neighbourhoods it launched a financing programme to foster the requalification of the areas;
- A partnership programme where the Municipality invites local/ neighbourhood organizations to develop projects that respond to the citizens specific needs.



Projecto BIP/ZIP vence Prémio Future Cities da Bienal de Veneza

30-08-2012



Foram anunciados em Veneza os três premiados do Prémio Future Cities, Planning for the 90 per cent, que contou com mais de 100 participações de diversos países. E o projecto '**PRODAC Norte em Movimento**', inserido no programa BIP-ZIP (bairros/zonas de intervenção prioritária) da Câmara de Lisboa, é um dos três premiados.

ENTREPRENEURSHIP

LX START UP

- Result of a proposal in the Participatory Budget of 2010;
- Opened in March 2012;
- 30 micro-companies are hosted by the Lx Start Up;
- Mostly in the areas of creative industry and ICT;
- Offers counseling, training, visibility, access to investors...



The screenshot shows the website for Start up Lisboa, an incubator of companies. The header features the logo "Start up Lisboa" and the tagline "Incubadora de Empresas". Below the header, there is a navigation menu with categories: "QUEM SOMOS", "EMPRESAS", "PARCEIROS", and "CONSULTORES". The main content area displays several news items, including "Cerimónia de Entrega de chaves a mais 15 empresas" (May 8, 2012) and "1ª Semana do Empreendedorismo de Lisboa" (May 7, 2012). On the right side, there are logos for partner organizations: GoClapp, T&F, fermento, and CV film.



Start up
Lisboa Incubadora
de Empresas



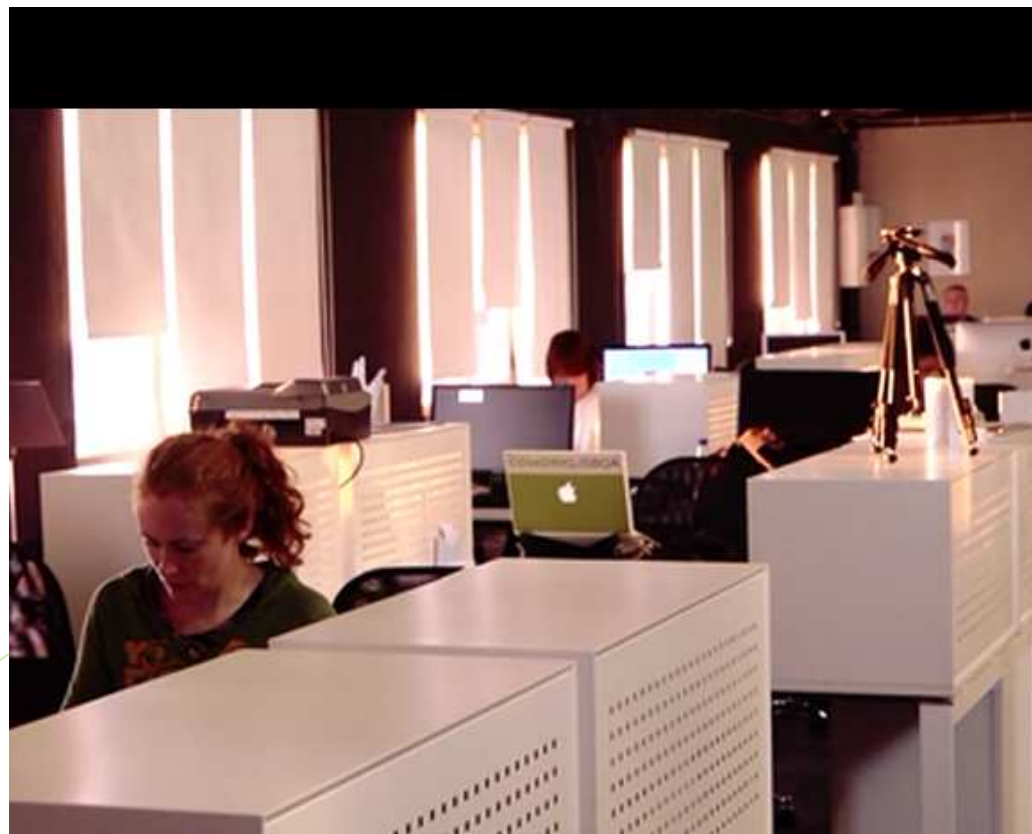




ENTREPRENEURSHIP

CO-WORKING

- Growing demand and offer of spaces;
- Private and public initiative
- Individuals and Micro-companies



ENTREPRENEURSHIP

OPEN DATA

- More than 50 data collections;
- Available to the public;
- Build new services and functionalities based on the city's reality



ENTREPRENEURSHIP

LX ACADEMY



...benefit from the scientific knowledge and investigation to answer some of the questions that are addressed in Lisbon's environment, benefiting from the living environment Lisbon represents...

SUSTAINABILITY

LIVING LABS

Residential buildings

Promote energy efficiency and behaviour change through the use of smart meters and practical accompaniment towards the adoption of more energy efficient actions





The presence of a display that shows the real time energy consumption,

[Meu Perfil](#)[Dashboard](#)[Tomadas](#)[Consumos](#)[Sair](#)

Consumos



Pegada ecológica deste dia



(Emissões)

2.8



(Árvores)

16



(Carros)

24

[TARIFAS](#)

SUSTAINABILITY

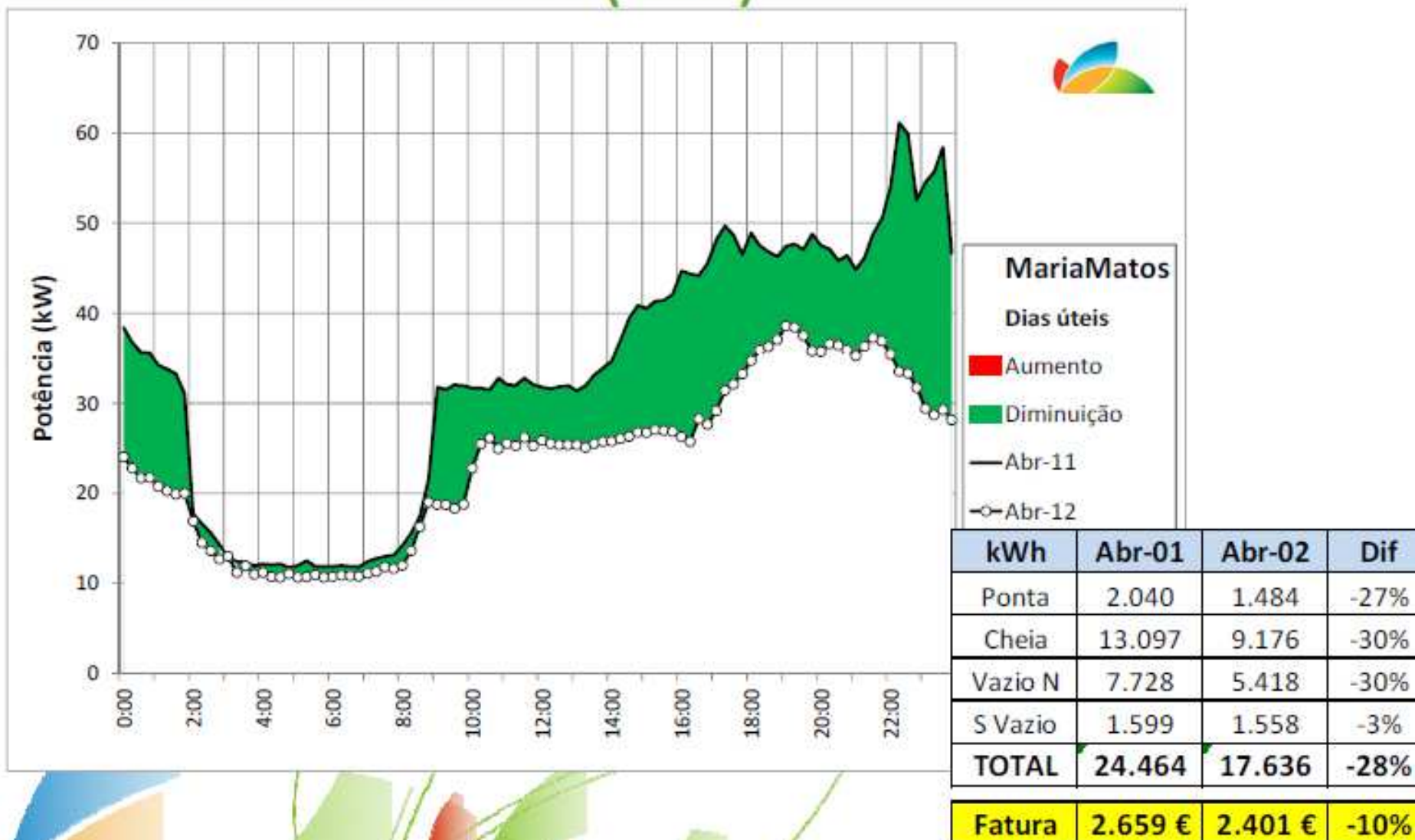
LIVING LABS

Service Buildings

Focused on improving buildings' energy efficiency through the analysis of static and real time data together with the building energy manager and the building users.



TEATRO MARIA MATOS (-28%)



SUSTAINABILITY

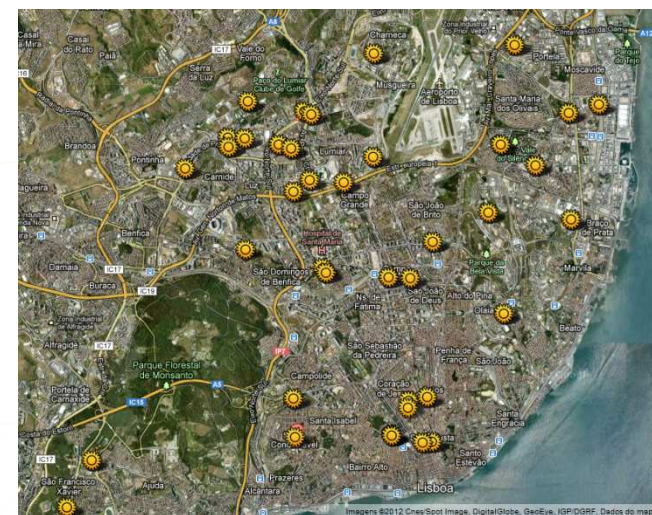
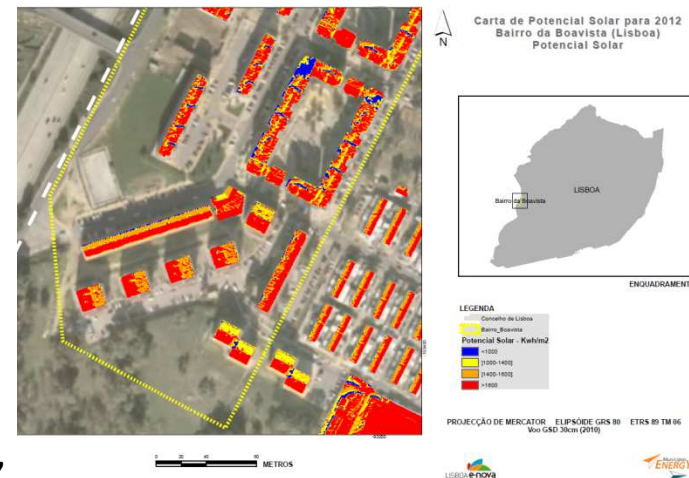
SOLAR LX

Lisbon is the European capital with the highest number of sun hours;

- Evaluation of Lisbon's patrimony solar potential;
- Online tool to present the solar potential;
- Straighten the relation between building owners, investors and utilities;
- Monitor the performance of the existing solar systems,
- Compare potential with effective monitoring results;

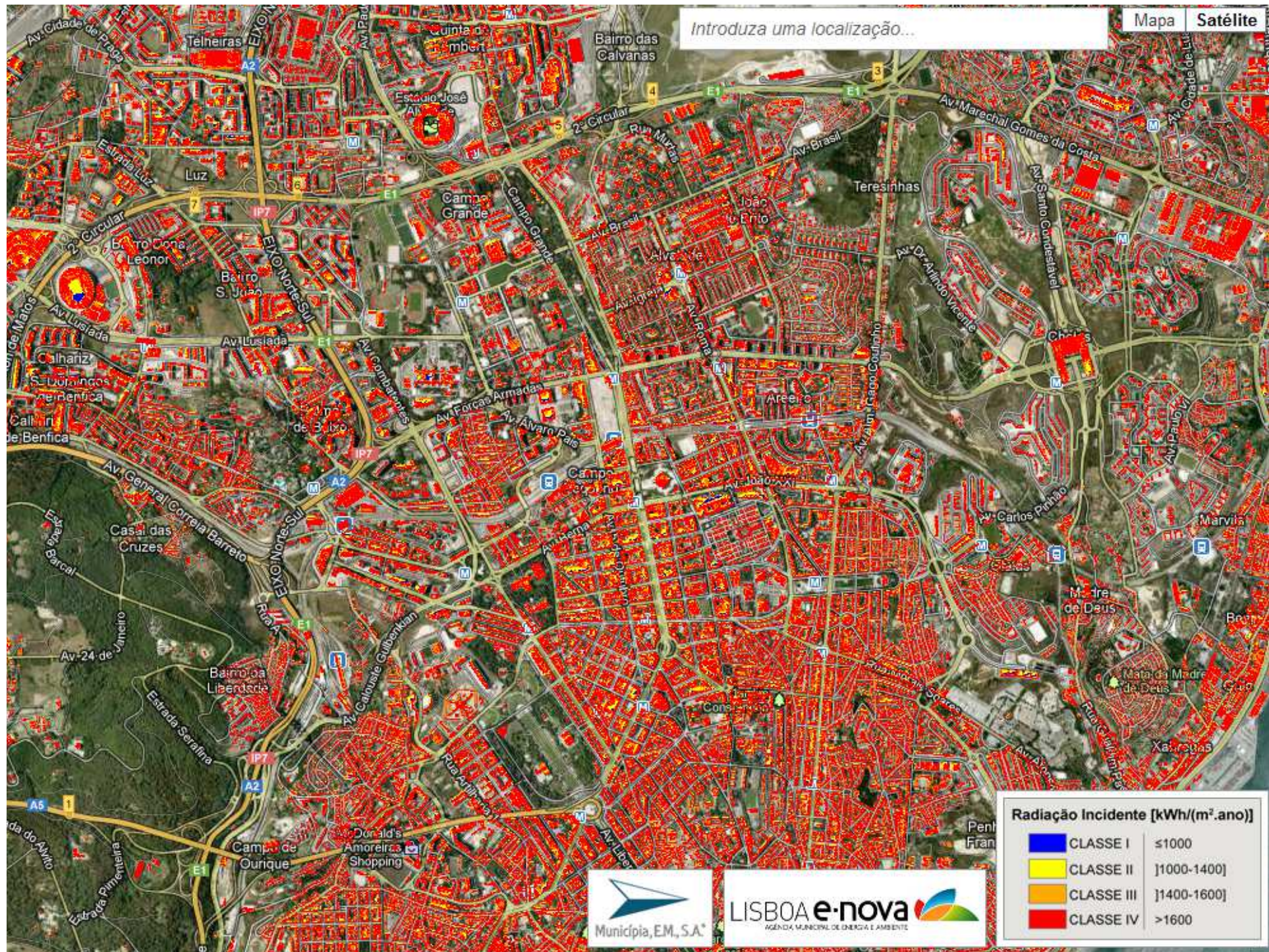
Strengthen Lisbon's efficient use of its' resources.

www.lisboaenova.org/cartasolarlisboa



Introduza uma localização...

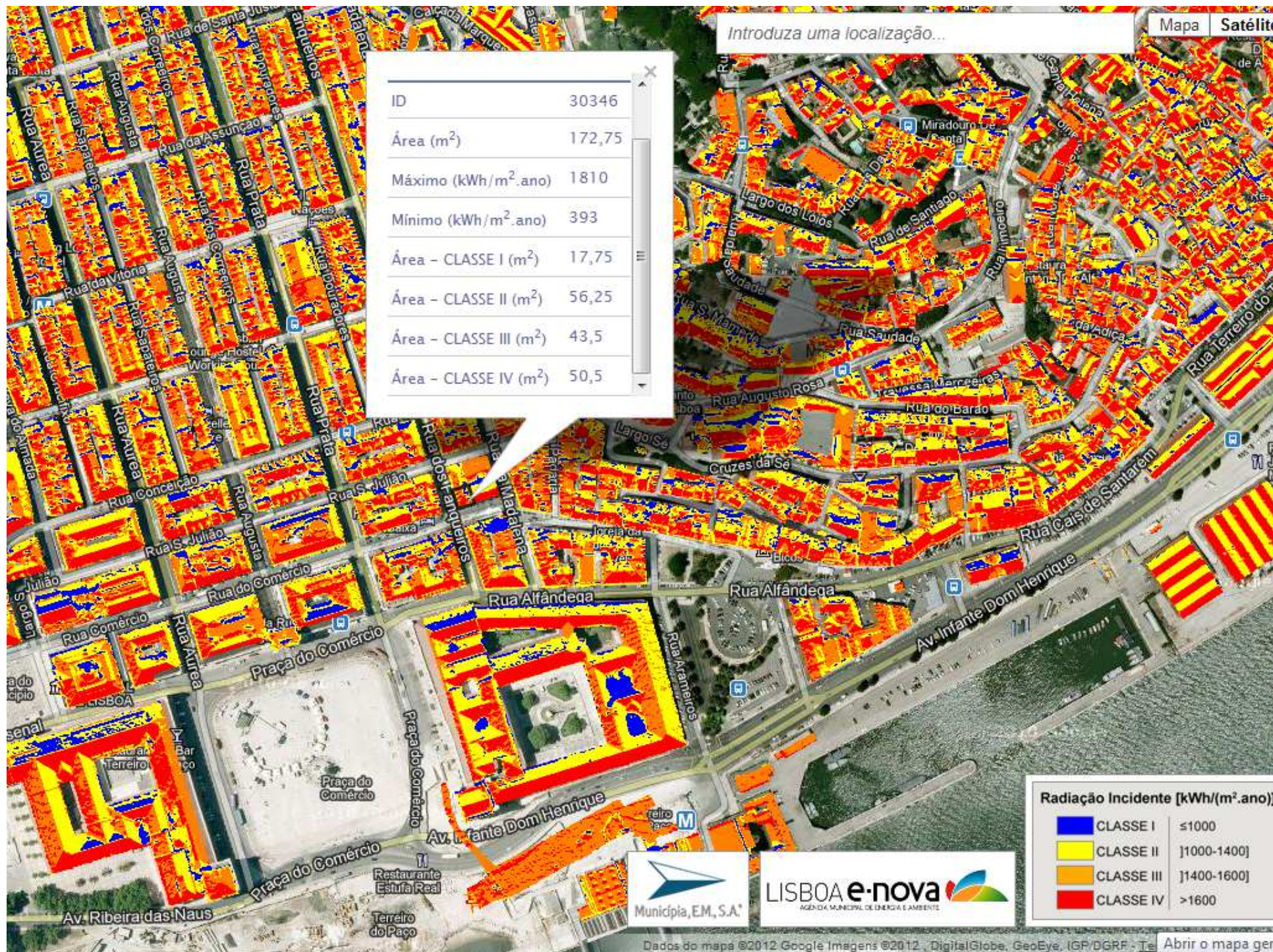
Mapa Satélite

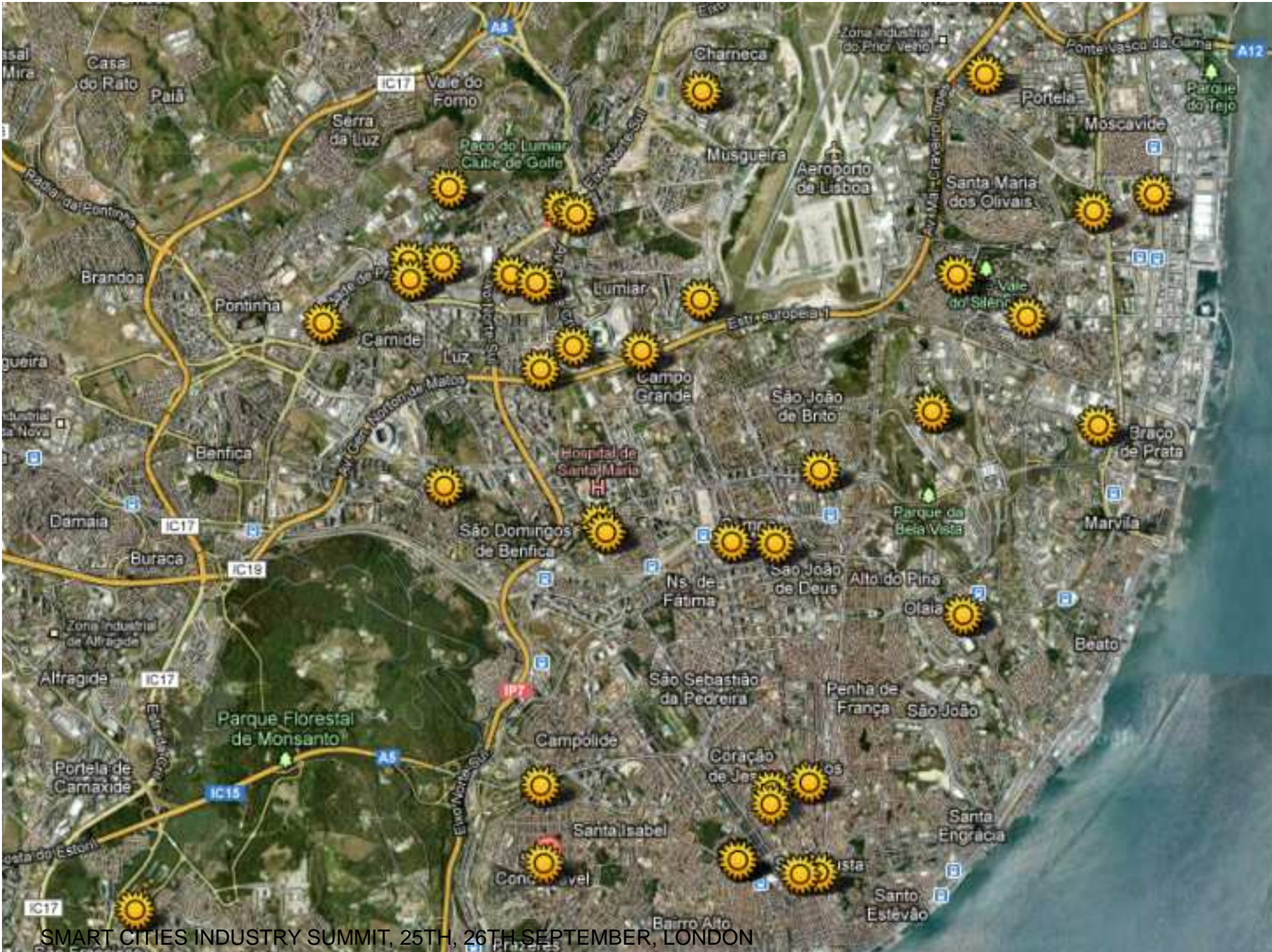


Radiação Incidente [kWh/(m ² .ano)]	
CLASSE I	≤1000
CLASSE II]1000-1400]
CLASSE III]1400-1600]
CLASSE IV	>1600



LISBOA e-nova
AGÊNCIA MUNICIPAL DE ENERGIA E AMBIENTE





SMART CITIES INDUSTRY SUMMIT, 25TH, 26TH SEPTEMBER, LONDON

SUSTAINABILITY

ELECTRIC VEHICLES

- Installation of 514 charging points for electric cars in the city of Lisbon.
- The first year is free of charge!
- Interconnection with the public transports system;
- Future: connection with smart grids and bi-directional energy flux.



SUSTAINABILITY

PUBLIC TRANSPORT

Bus timeline by the minute



Painel ao minuto



SMS ao minuto



E-mail ao minuto



Net Bus



Carsharing



SUSTAINABILITY

DEDICATED BICYCLE LANE

- Winning project from 2008 Participatory Budget;
- More than 35 km
- Dedicated services
 - Bike bus;
 - Apps;
 - Share bicycle system;
 - Tours









LISBON TOWARDS A SMART CITY: THE FORTHCOMING STEPS

- **OPEN DATA**
new partnerships for workable data
- **CO-WORKING**
a new space promoted by the Municipality in the Forno do Tijolo Market
- **FAB LAB**
real time prototyping in Forno do Tijolo Market
- **CROWDSOURCING**
social network for innovation in Lisbon
- **LISBON ACADEMY**
1st edition 2011/2012
- **LX START UP - BUSINESS INCUBATOR**
1st year of operation
- **CITY SDK**
transfer of Smart City applications from one city to another

ON LISBON'S FUTURE TOWARDS A SMART CITY REALITY

- Open-participatory government;
- Engage citizens – power to the people;
- Lead by example;
- Encourage social networks;
- Nurture new ventures and business;
- Promote new/improbable partnerships;
- Economics of attention: learning from experienced peers;
- Creative Economy
“Living hard and working creatively”
- Renovate, recreate and reoccupy city spaces.





SEE YOU
IN LISBON
STARTUP CITY

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PICTURES/IMAGES SOURCES

- Slide 3 – www.theatlanticcities.com
- Slide 4 – www.lisboaparticipa.pt
- Slide 10 - <http://gocitygo.wordpress.com/>
- Slide 11 – <http://nstyle.pt>
- Slide 12 - <http://www.pensarlisboa.com>
- Slide 17 - <http://vegetalicias.com>
- Slide 18 and 19 - <http://startuplisboa.com>
- Slide 22 - <http://www.viralblog.com>
- Slide 35 – www.carris.pt
- Slide 38 - <http://deipanemaaotejo.blogspot.co.uk>
- Slide 39 - <http://preservblog.blogspot.co.uk>
- Slide 41 - <http://www.dontpaniconline.com.pt/>