

SEAP PLUS

presentación del proyecto

Oficina Técnica de Cambio Climático y Sostenibilidad
Diputación de Barcelona

SEAP-PLUS: Añadiendo a los PAES – más participantes, más contenido en Europa
IEE/11/978/SI2.615950

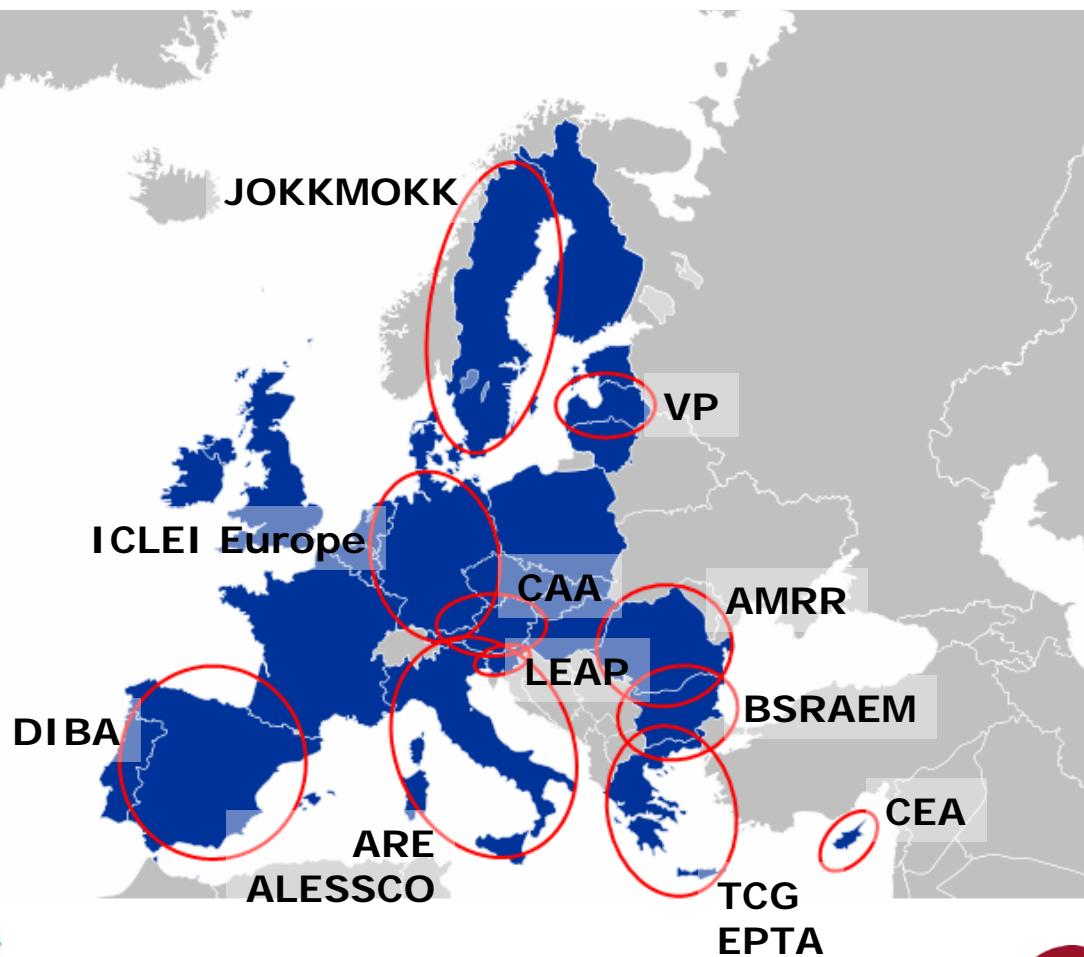
27 de setiembre, Madrid. Mesa redonda Meshartility

Datos básicos

- SEAP PLUS (IEE/11/978/SI2.615950)
 - No. de socios: 13
 - Coordinador: Technical Chamber of Greece
 - Duración: 30 months (04/12 – 09/14)
 - Presupuesto: 1.962.508€
 - Contribución de UE: 1.471.881€ (75%)

 - Acción clave: Liderazgo Local
 - Beneficios: Cooperación a nivel regional
Soporte a gobiernos locales
Colaboración con subministradoras

Lista de participantes



SEAP PLUS valor central

Más participantes, más contenido en Europa

- Gobiernos locales: conseguir más firmantes
- Gobiernos regionales y otras administraciones supramunicipales
- Agentes implicados tanto del sector público como privado

Más participantes, más contenido en Europa

- Inventario de emisiones
- **Datos de consumos energéticos**
- Oportunidades de financiación

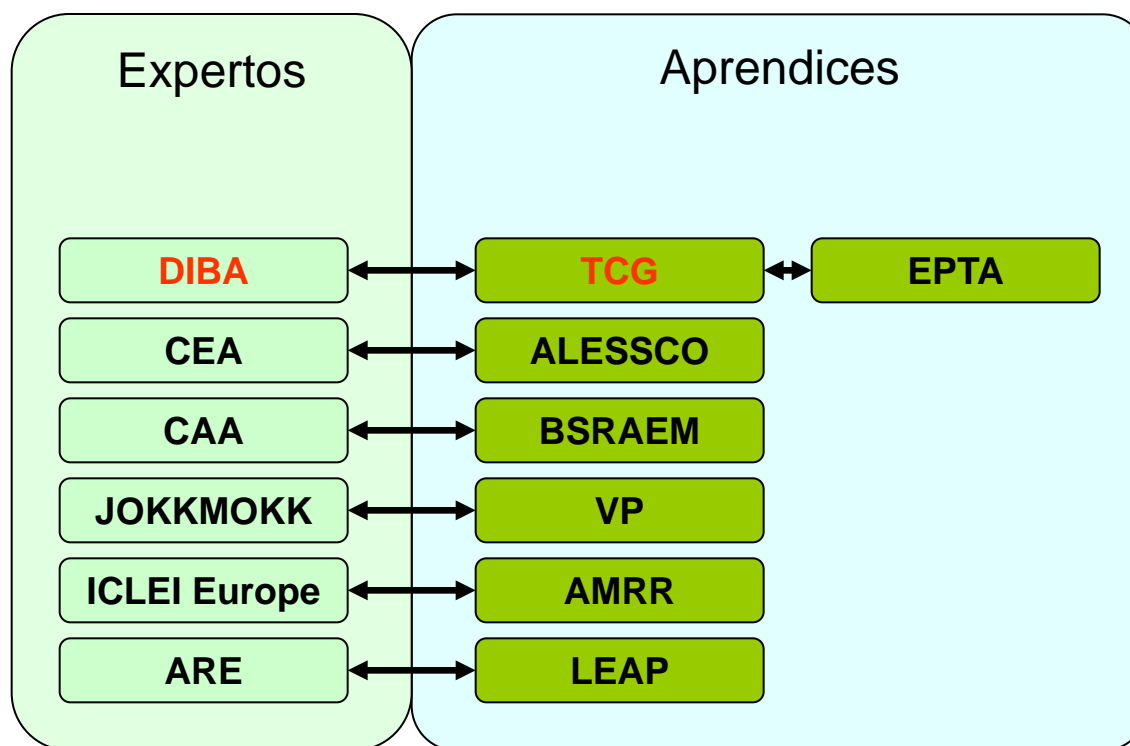


SEAP PLUS metodología

Hay 6 socios "expertos" y 6 socios "aprendices"

La base es el intercambio de experiencias:
se establecen parejas de trabajo entre
expertos y aprendices

Parejas de intercambio



Resultados esperados

- Adhesión de más municipios (Firmantes)
- Adhesión de más administraciones supramunicipales (Coordinadores)
- Eliminación de barreras no-técnicas para los Ayuntamientos
- Colaboración entre municipios, administraciones supramunicipales y agentes implicados
- Transferencia de conocimiento entre socios
- Creación de buenas prácticas en los intercambios
- Introducción de más sectores en el ámbito de los PAES
- Acceso a datos de consumos energéticos
- Integración de los PAES en las políticas regionales
- Promoción de los instrumentos de financiación existentes
- Promoción y divulgación del Pacto de los Alcaldes



Muchas gracias

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SEAP-PLUS (IEE/11/978/SI2.615950)
Mesa redonda Meshartility, 27-09-13, Madrid





COVENANT OF MAYORS IN BARCELONA

Expansion, methodology, results, weaknesses and strengths

Carme Melcion
Oficina Tècnica de Canvi Climàtic i Sostenibilitat
Diputació de Barcelona

27th August 2012

Barcelona Provincial Council (Diputació de Barcelona):

-Intermediate Local Administration

Mission:

- To enhance the progress and well-being of citizens, acting in the territory through the municipalities through technical and economic cooperation.



311 municipalities more than 5,3 millions inhabitants

Budget 2011: 615millions €

- November 2008: Barcelona Provincial Council becomes the first supporting structure (now territorial coordinators) of the Covenant of Mayors in order to promote municipalities adhesion.



Now: **189** municipalités (61%) signed the Covenant, representing more than **90%** of total Province's population.



Technical and financial support to municipalities so they can face obligations coming from their adhesion to the Covenant:

1) Development of a methodology and financing (100%) Sustainable Energy Action PLans (PAES/SEAP).

<http://www.diba.cat/en/web/mediambient/Pactealc>

2) Tools and mechanisms to help municipalities to find financial resources to invest on SEAP actions.

<http://www.diba.cat/en/web/mediambient/elena>

3) Specific communication materials and organization of dissemination activities, mainly along the Energy Sustainable Week

http://www.diba.cat/en/web/mediambient/Pactealc#recurso_scomunicacio

4) Training to municipal staff


<http://www.diba.cat/en/web/mediambient/form>



The plans (SEAP)

- From 2008 Barcelona Provincial Council has spent **2,8 millions €** to draft SEAP
- SEAP have been done without cost for the municipalities, and that improved commitment to the Convention

Some problems we found

- In the beginning (2008-2009) there wasn't a specific methodology
 Development of a methodology and **subsequent adjustment** to the one developed by the JRC
- **Data collection may take longer than expected**, making it difficult to meet deadlines. Most municipalities (70%) are small, less than 20,000 inhabitants. Often, a lack of resources leads to difficulties in obtaining data.

The plans (SEAP): Methodology

- **1) Baseline emission inventory**
- **2) Potential renewable energy in municipal facilities and buildings**
- **3) Diagnosis and strategy**
- **4) Actions**
- **5) Monitoring**



**Participation and
communication**

The plans (SEAP): BEI

- **Data collection:**
 - Energy consumption by sources and sectors
 - Town Council energy consumption by source and type of facility/building/service
 - Water consumption
 - Waste generation and treatment
 - **Energy assessment visits to at least 10 municipal buildings/facilities**
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- **Emissions calculations:**
 - Energy consumption multiplied by their emission factors
 - Waste: emission factors by treatment. It "rewards" recycling (negative factors)
 - Energy consumption associated with the purification and treatment of water by its emission factor

- **Data sources:**

- **Energy consumption by sector and municipality sources: ICAEN (Catalan Institute of Energy). Barcelona Provincial Council centralizes data demand for the municipalities of the province**
- **Town Council energy consumptions: Town Council**
- **Water consumptions: ACA (Catalan Water Agency).**
- **Waste generation and treatment: Catalan Waste Agency and Town Council**
- **Energy assessment visits: Consultancy in charge of drafting the SEAP**

- **Frequent problems:**

- **Energy data at municipal level: At the moment the latest data that ICAEN can give are from 2008. No more recent data for gas or electricity. For liquid fuels and LPG provincial level data: it is required to make estimates to get to the municipal level of analysis**
- **Town Council consumptions: Baseline year: 2005, Difficult to find some data. Some services/facilities are under concession: some problems to get consumption data via concessionary company. Dispersion of municipal energy management: there are different areas / departments involved and it often takes time to find data.**

The plans (SEAP): Energy Assessment Visits

Purpose: To know the reality of the state of municipal facilities

IT IS NOT AN ENERGY AUDIT

In each SEAP it is required to carry out 10 visits to facilities or buildings considered most appropriate.

The proposal is made in agreement between the company and the city.

It requires the presence of the maintainer.

There must be a report of each visit which concludes the improvements to be made, prioritized according to cost and emissions savings

SEAP: Some results

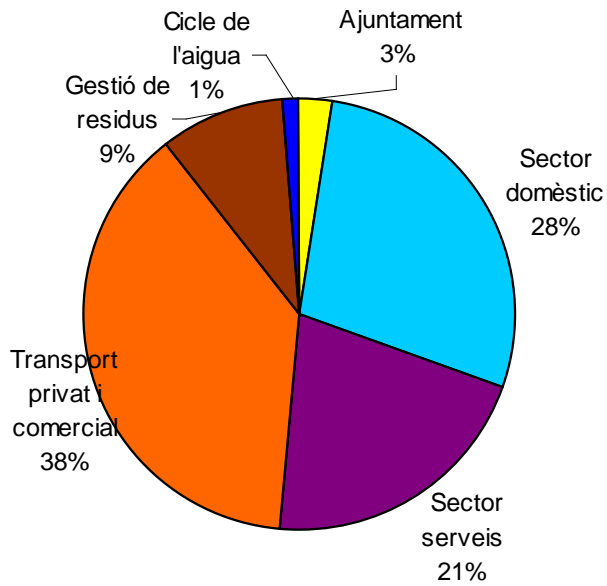
(http://www.diba.cat/c/document_library/get_file?uuid=60ff9afa-4430-4a54-89aa-7f25b3812abe&groupId=471041)

- 157 SEAP finished. The analysis of 152 shows:

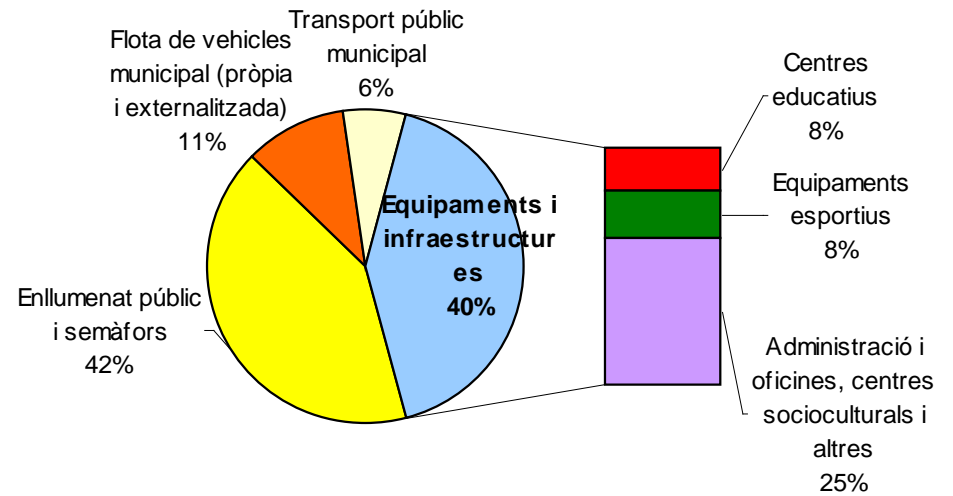
Emissions (tCO _{2-eq})	19.656.811
SEAP Emissions (tCO _{2-eq} *)	12.749.045
Estimated emissions reduction (tCO _{2-eq})	2.604.685
Town Council emissions (tCO _{2-eq})	348.350
Number of actions foreseen	6.930
Actions which are under direct responsibility from Town Council (%)	58
Emissions per inhabitant (tCO _{2-eq} /inh)	7,48
SEAP Emissions per inhabitant (tCO _{2-eq} /inh)	4,69
Town Council emissions per inhabitant (tCO _{2-eq} /hab)	0,17
Percentage of emissions coming from Town Council** (%)	2,7

* Primary and Industry sectors not included ** on SEAP emissions

SEAP: Emissions

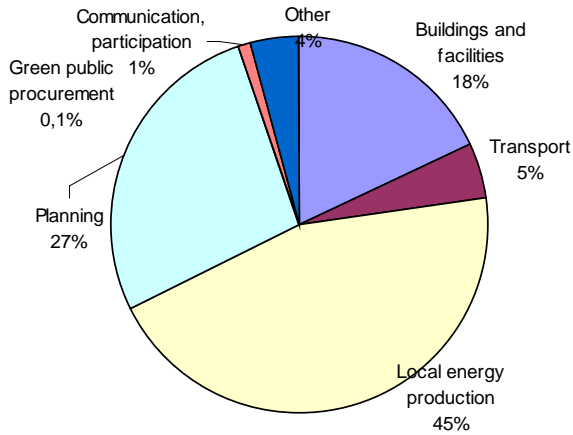


Distribució de les emissions dels serveis municipals

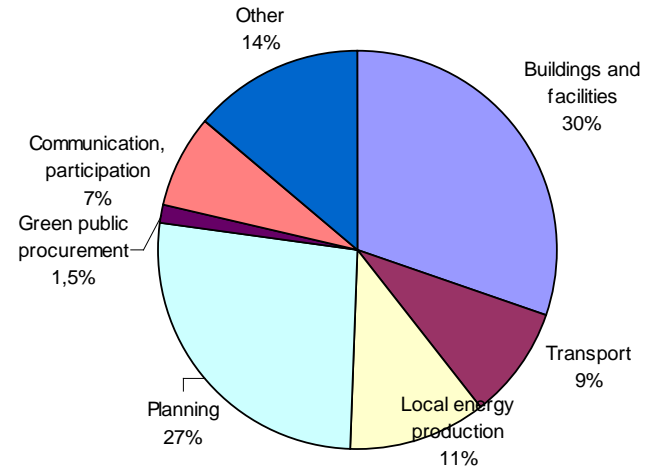


SEAP: Actions

Investment distribution



Estimated emissions reduction distribution



Tools

- Methodology to develop SEAP and its BEI
- Specific software to develop BEI: DESGEL (Network of Towns and Villages towards Sustainability)
- Guideline of actions for municipalities of less than 20.000 inhabitants
(http://www.diba.cat/c/document_library/get_file?uuid=1428e547-8edc-4ec0-8d4c-9880493104bd&groupId=471041)

Based on a check list method.

Monitoring

- Barcelona Provincial Council has the commitment to give support along the monitoring phase too. We have just begun.

ONCE THE SEAP IS DONE: WHAT DO WE DO?

Once SEAP are done they have to be implemented

Most actions must be performed by the local council, but the lack of resources makes difficult to carry out them.

Barcelona Provincial Council is a beneficiary of the ELENA facility. This allows:

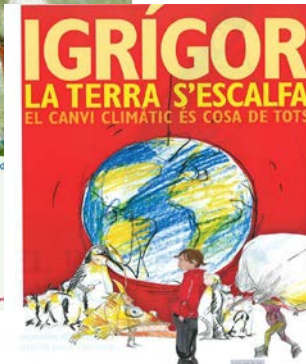
- 1) Identify actions that can generate enough revenue (renewable energy) and savings (energy efficiency) within a reasonable period to finance the necessary investments.
 - € 2 million are available to do feasibility studies: implementation of renewable energy or energy efficiency measures in buildings or facilities of Town Councils. This money must be multiplied by 25 investment.
- 2) Promote financing mechanisms (credits), contracts (model specification) and technical studies necessary to implement these actions, so the Local Government doesn't get indebted.

Support to communication and dissemination

- Publications for population and municipalities
- Support network

Activities for the Energy week

- Film forums
- Kit of 9 films on climate change
- Theater plays for schools
- Conferneces and workshops for population and students
- Those activities are available for all Covenant signatories upon request



Training for Local Governments staff

Energy management in public lighting

New technologies in public lighting

Solar thermal installations

Photovoltaïque installations in public buildings and facilities

Energy audits in municipal buildings and facilities

Municipal energy management

PARTICIPATION IN SEVERAL EUROPEAN PROJECTS

EURONET 50/50. Creating a network of schools applying the concept 50/50. Savings due to energy savings are distributed 50% to the school and 50% for the Town Council

50 schools, 13 are from Barcelona Province (Barcelona Provincial Council is the project leader)

<http://www.euronet50-50.eu/>

Serpente: Energy efficiency

Energy for Mayors

GPP InfoNET: Creation of a responsible consumption network (2010-2012)

Procura+ Campaign



How Barcelona Provincial Council has convinced so many towns to sign the Covenant?

- Advice and technical assistance
- Financial and technical assistance for the development of SEAP
- Support for monitoring reports
- Creation of tools to develop SEAP
- Research of investment mechanisms
- Legal and technical support for the implementation of actions
- Funding feasibility studies
- Dissemination of the Covenant of Mayors
- Communication materials
- Activities for the Sustainable Energy Week
- Specific training for Local Governments staff



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