The SCOW Project
&
Main results and objectives achieved
Gemma Nohales
BCNecologia
**SCOW -** Selective collection of organic waste in tourist areas and valorisation in small-scale composting plants

- **ENPI CBC MED PROGRAMME**
- **I-A/2.2/231 – SCOW**
- **Type of project:** Strategic project – first call.
  - **Topic:** waste
- **Financing:** total budget of 4,97 million; 4,47 million Euro (90%) financed by the EU. 50% of the budget used by Partner Countries (non EU).
- **Duration:** January 2013-December 2015 (3 years).
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Meeting with Spanish Authorities

Partnership

8 partner from 6 different countries. 6 EU Mediterranean Countries and 2 Mediterranean Partner Countries.
### Main objectives

- Acting at the first stages of the management chain
- Closing the cycle of biowaste
- Low cost-low tech-high quality management models
- Deploying actions in touristic areas with agricultural activity

### Main actions

- High quality biowaste separated at source
- Effective and personalised collection systems
- Descentralised small-scale composting facilities
- Application to soil of quality compost
- Awareness, training and now-how transfer

*Biowaste management as a problem in Med Area, UE and other countries highlight it as a priority*
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SCOW in 6 steps

1. Study of the territory
2. Selection of the location(s)/model design
3. Engagement of stakeholders (local events, campaigns)
4. Composting plants building
5. Biowaste collection introduction
6. Model operation and Monitoring

community-based model high quality collected waste (DtD) high quality compost
Collection systems:
• Singular/large producers
• Singular/large producers + households
• Ensure <5 impurities
• Promotion of Door-to-Door systems + compostable bag

Treatment systems:
14 small-scale composting facilities:
• Open: turning piles/ heaps or static vented silos
• Close: Electromechanical composters of different tech. + complemented with modular composters

Different plant types and tons/year:
• Budget (200,000€ EU Part.; 7-600,000€ Non-EU)
• Availability of other funding sources out of the project
• Conditions and constrains of the zone (laws, geography, producers dispersion, etc.)
### PP biowaste management models

<table>
<thead>
<tr>
<th>Country</th>
<th>Collection system</th>
<th>Treatment system</th>
<th>Expected quantity of biowaste treated (bulking mat. excluded) (t/y)</th>
<th>Annual quantity of compost expected (t/y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spain - Catalonia</td>
<td>Door to door</td>
<td>1 aerated static silos plant</td>
<td>750</td>
<td>112</td>
</tr>
<tr>
<td>Italy - Liguria</td>
<td>Door to door / direct delivery</td>
<td>3 electro-mechanical composters + 183 community composters + 150 modules for agroturism centers</td>
<td>375</td>
<td>75</td>
</tr>
<tr>
<td>Malta</td>
<td>Door to door</td>
<td>1 electro-mechanical composter</td>
<td>120</td>
<td>30</td>
</tr>
<tr>
<td>Palestine - West Bank</td>
<td>Door to door + containers</td>
<td>2 open turned windrows plants</td>
<td>750 + 1000 and 90 + 700 other sources</td>
<td>1000 + 400</td>
</tr>
<tr>
<td>Israel - Upper Galilee</td>
<td>Door to door + containers</td>
<td>6 electro-mechanical composters own model</td>
<td>1200</td>
<td>600</td>
</tr>
<tr>
<td>France - Corsica</td>
<td>Door to door / direct delivery</td>
<td>1 electro-mechanical composters + 600 composting modules for economic activities</td>
<td>245</td>
<td>75</td>
</tr>
</tbody>
</table>
Project Indicators

Reaching the objectives initially set
### SCOW PROJECT

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<table>
<thead>
<tr>
<th><strong>BIOWASTE MODELS IMPLEMENTED</strong></th>
<th><strong>Tons of Biowaste collected/treated</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of model implemented</td>
<td>14 (14 for 2016)</td>
</tr>
<tr>
<td>Quality of the biowaste</td>
<td>&lt;10% of impurities</td>
</tr>
<tr>
<td>Tons of Compost produced</td>
<td>69 (2,292 in 2016)</td>
</tr>
</tbody>
</table>

Different periods of operation of the facilities during 2015 depending on the time of starting.
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Municipalities
50

Citizens
17,719

Large/singular producers
601

Farmers
61
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Training sessions
94

Communication activities
82

Trained mentors
53

People informed
29,269
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OTHER INDICATORS

Number of agreements: 90

Stakeholders involved: 18,369

Jobs generated: 29
First time to manage biowaste in some areas, this is a important advance. This project will be seen as an example for the reproduction of biowaste management model in other areas.

This project has influenced in fostering the starting of biowaste management and compost regulations in partners countries. Governments have taken into consideration the results of the project.
Project Sustainability

Very good reception of the project by authorities and final beneficiaries/High and wide impact.

Without this funding and tech assistance, advances in waste management would have taken more time to be developed in the areas (specially for non-EU partners).

The agreements with the local or regional authorities as well as with the biowaste producers will ensure the sustainability of the project.

The new biowaste management policies that are appearing in partners countries will also reinforce the sustainability of the project.
Weak points

Calendar constrains:

- Reception of the 2\textsuperscript{nd} pre-financing (March 2015) to be able to start with investments (facilities and equipment).
- Time required to launch and award the tenders, time for construction or acquiring/delivery the equipment.
- A lot of time devoted to administrative procedures (budget changes, interim report, contingency, etc.), bottlenecks when overlapping two procedures.

Relationship with final beneficiaries-local authorities: slow rhythms of Local entities for decision making and implementing actions (like biowaste collection).
Project Outputs

Spreading the SCOW model and fostering its reproduction
Best practices Database

It includes 14 records with detailed technical and economical information about collection and specially treatment systems using different decentralized composting models with good results and functioning.

http://www.biowaste-scow.eu/Best-Practice-Database

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berriz (Vizcaya, Pais Vasco, Spain)</td>
<td>Initial experience of a composting mini-facility to treat the household biowaste. Collected biowaste is transported in an electric truck to the composting site, placed in a public park with gardens and sport fields. The composters are modular to be able to increase the treatment capacity gradually.</td>
</tr>
<tr>
<td>Ballinasloe compost facility</td>
<td>The facility was built to comply with the EU and Irish directives to divert organic waste from landfilling. The approach for Ballinasloe involves targeting all organics from households with a source separated collection and composting system.</td>
</tr>
<tr>
<td>Pollboy Landfill II (County Galway, Ireland)</td>
<td>Composting facility in a tourist town in the Pyrenees. Collection and transport of urban waste was very expensive because of the long routes by mountain roads. This small facility allows to treat the biowaste generated in households and tourist establishments in town. The garbage truck only has to collect and transport the non-organic fractions.</td>
</tr>
<tr>
<td>Boadella i les Escaules (Girona, Catalonia, Spain)</td>
<td></td>
</tr>
</tbody>
</table>
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Training protocols, communication materials and infopacks

http://www.biowaste-scow.eu/Quantified-outputs-WP2

http://www.biowaste-scow.eu/Project-Reports

WP2 - SCOW Communication Plan - Quantified outputs

30 November, 2014

Related Documents:
Communication Plan SCOW, Communication materials for the SCOW project campaign
- SCOW Communication Plan
- Communication materials for the SCOW project campaign
- The SCOW campaign materials are available for you
- Communication plan
- Launching Conference [Barcelona month 6]
- Newsletters (every six months)(6)
- Local awareness event (1 per plant, except PP4 that will unify some of these events)(8)
- Final project Local Events & press conferences (1 per plant, except PP4 that will unify some of these events)(8)
- Final Project Conference at Mediterranean level [Palestine, month 36]
- Final Conference publication
- SCOW campaign - edition of 3 typologies of stakeholders infopacks (bin stickers, information posters and leaflets, etc, according to the target: citizens, hotels & catering industry, and other business producers of organic waste) articles in relevant specialized journals or magazines related to low-tech organic waste treatment (3)
- Press releases (PPs building composting plans will issue a press release at the beginning and at the end of the project)(12)
Handbook for small scale composting facility management

Easy-to-use handbook addressed to staff in charge of the composting plants, aimed at providing with information, indications and recommendations to operate in a proper way small scale composting facilities as well as to facilitate the management of any incidence.

Webgis Monitoring forms

http://scowproject.envipark.com/
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Manifesto for proper food waste management in the Mediterranean Basin/
Policy recommendations

The document outlines the best strategies, measures and activities to develop an efficient and proper management of food waste in the Mediterranean Basin.

You are kindly invited to join the Manifesto initiative via:

http://www.biowaste-scow.eu/Manifesto-for-food-waste-management
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Mediterranean Compost Network

Network of entities involved in biowaste management and treatment in the MED area promoting initiatives aimed at high quality biowaste management and fostering means of communication and interaction among target entities.

WWW.MEDCOMPOST.NET

Provide with continuity to the MCN, find sources of financing/supporters >> new ENI calls
Other Outputs

- Guidelines defining the SCOW model and monitoring
- Handbook for compost marketing
- Final Vademecum

Find all this info on the SCOW website [http://www.biowaste-scow.eu/](http://www.biowaste-scow.eu/)
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Thank you very much for your attention

Gemma Nohales
nohales@bcnecologia.net

For additional information on the project please visit SCOW website: http://www.biowaste-scow.eu/