

PowerPoint slides presented (6-18)

Participating 30 Life+ climate change projects

BOSCOS (Consell Insular de Menorca): The project aims to contribute to the adaptation of the Mediterranean forest ecosystems of Menorca to climate change through sustainable forest management at estate level. This will include the development of a forest inventory and of a set of planning and management guidelines, both feeding into a management plan. Forest management actions aimed to decrease forest vulnerability will be demonstrated in a pilot area of about 200 ha. Capacity building among forest owners, forest managers and other stakeholders related to forests, as well as public awareness raising are also foreseen.



CARBOMARK (Veneto Region Department for Forests and Mountain Economy): This project aims to promote voluntary local carbon markets as an instrument for strengthening EU climate policies and reducing greenhouse gas emissions. Measures include consolidating the knowledge base; the definition of a local market model and implementation on a pilot scale; awareness-raising and dissemination, particularly to integrate forest owners and SMEs as well as sectors not already covered by the European Emission Trading Scheme.



CATERMASS (Finnish Environment Institute)

This project aims to develop climate change adaptation tools for the Finnish river basin districts to mitigate the impacts of increased leaching of acidity and metals from acid sulphate soils drained for agriculture and forestry.



CCCRP (Finnish Meteorological Institute): The project aims to raise the awareness of global climate change and its implications for Finland. Key objectives include the development of a web portal to guide users of climate change will also be explained using e-learning methods.



CHAMP (Union of the Baltic Cities): This project seeks to contribute to fulfilling EU environmental and climate change commitments, legislation and targets in a cost-effective way by supporting local and sub-regional authorities through a competence development package on Integrated Management Systems.



CLEANTRUCK (City of Stockholm - Environment and Health Administration)

The objective of the project is to demonstrate the commercial and technical viability of alternative fuels and new technologies for goods distribution vehicles. It will construct filling pumps for the alternative fuels ethanol ED95 and biomethane, filling stations for CO2 for use as a refrigerant and mobile stations for N2 to inflate tyres.



ClimaBiz (Piraeus Bank SA)

The project's main goal is to make businesses aware of the risks and financial impacts of climate change. It will identify and quantify the physical, regulatory and reputational risks in south-eastern Europe arising from climate change, and develop climate risk and climate-adaptation management mechanisms and integrate them into banks' Credit Risk and Business Planning systems.



ECO-ANIMATION (Business Solutions Europa Limited): This is a transnational project (involving the UK, Belgium and Italy) to produce and promote animated cartoons to help European children learn more about the environment, sustainability and climate change. The cartoons, aimed at five to eight year olds, will show that small actions (using less water, asking where your food comes from, recycling and reusing, turning off switches, etc...) can improve our quality of life and our future (e.g. less carbon, reduced pollution and waste, a better and more secure supply of water, a better environment to live in, etc...).



FACTOR 20 (Regione Lombardia - Direzione Generale Reti, Servizi di Pubblica Utilità e Sviluppo Sostenibile) This project aims to promote an integrated management approach that builds on and improves existing GHG-reduction strategies for local sectors not bound by the Emission Trading Scheme (ETS). The project will define a technically-sound tool for promoting local actions towards the contribution of the non-ETS sector to climate change objectives.



GREENbanking4Life (Piraeus Bank SA) examines the environmental impact of products and services in the financial sector. The project focuses on the development of green products by the beneficiary, a Greek bank, and its associates. As well as producing a guide for the better management of resource consumption, the project reduces their CO2 emissions, increases their recycling of products, reduces their water consumption and encourages the use of green products in its branches.



ISIM-TCC (Iparfejlesztési Kőzalapítvány) The primary purpose of this project is to assist the EU in reaching targets – set out in the Kyoto Protocol and the Bali climate change meetings - through the application of industrial symbiosis (IS) as an innovative tool for tackling climate change. Other goals are to foster prudent management of natural resources, and to identify the potential for sustainable development of the Hungarian economy.



ITEST (Municipality of Oskarshamn) aims to demonstrate an innovative technical solution to sewage treatment, based on heat exchange. It is hoped this will solve treatment problems incurred by regions with a cold winter climate: cold weather impedes the effective biological conversion of different nitrogen species to elemental nitrogen, thus contributing to nitrogen-based pollution of lakes and seas.



JEREZ + natural (Jerez de la Frontera) will produce a new management model for urban green areas and integrate their management into urban planning processes - this model will include planning, maintenance, monitoring and follow-up assessment procedures. Moreover, they will develop an IT tool to simplify the task of carrying out inventories of urban tree species and specimens; apply innovative pest control methods; demonstrate urban green area management activities and raise awareness of green heritage.





Sustainable Forest Management in Menorca in a Context of Climate Change 2009-2013

LIFE07/ENV/E/000824



LIFE+ 2007	Environment Policy and Governance
Title	Sustainable forest management in Menorca in a context of climate change
Acronym	LIFE+BOSCOS (LIFE07/ENV/E/000824)
Location	Menorca, Balearic Islands, SPAIN
Duration	01/01/2009 to 31/12/2013 (5 years)
Beneficiary	Consell Insular de Menorca (Island's Local Government)
Total budget	1.444.395
EC Contribution	717.971 € (50% of eligible costs)



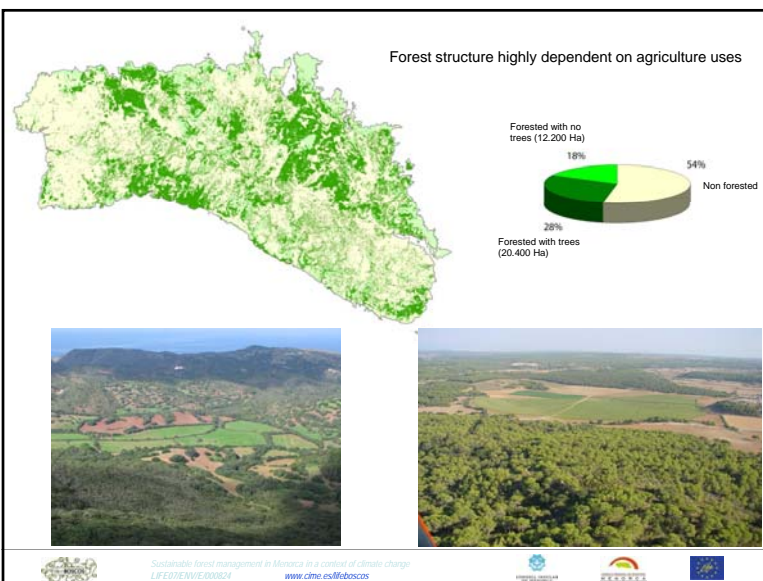
Menorca, Biosphere Reserve (1993)

Area: **700 Km²**

Population: **92.432 hab** (132 hab/Km²)
in January: 74.000 hab
in August: 175.000 hab



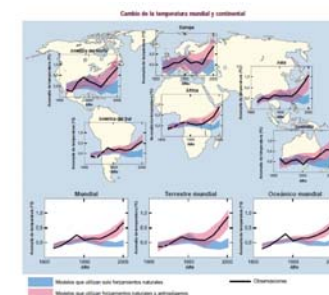
Sustainable forest management in Menorca in a context of climate change
LIFE07/ENV/E/000824
www.cime.es/lifeboscos



CLIMATE CHANGE

will have impacts over mediterranean forest ecosystems

- Temperature will raise between +2 and +5 °C
- Rainfall amounts will decrease 20%
- Plants will suffer higher hydric stress
- Higher risk of plagues



Sustainable forest management in Menorca in a context of climate change
LIFE07/ENV/E/000824
www.cime.es/lifeboscos



Objectives of LIFE+BOSCOS project

Improve adaptation of mediterranean forest ecosystems to the negative impacts of climate change through sustainable forest management

- ✓ Implementation of forestry management strategies in farms
- ✓ Training forest owners, managers and farmers in sustainable management techniques
- ✓ Raise public awareness with regard to forest values and the effects of climate change



Sustainable forest management in Menorca in a context of climate change
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Planned actions of LIFE+BOSCOS project

Preparation

- P1. Information gathering and seminar organization
- P2. Draft planning guidelines for forest management on the entire island
- P3. Environmental evaluation of the guidelines

Implementation

- I1 Forest management plans on pilot farms
- I2 Implementing the activities planned on I1
- I3 Cost-efficiency evaluation of I1 actions

Communication

- C1. Virtual information center about forestry in Menorca (database and monitoring)
- C2. Train forest owners, managers and farmers in sustainable management techniques
- C3. Raise public awareness with regard to forest values and climate change
- C4. Attending conferences and meetings with other projects

Management

- M1. Scientific committee
- M2. Monitoring committee
- M3. Project management
- M4. Knowledge dissemination
- M5. Project documents database
- M6. Financial Audit
- M7. Monitoring indicators
- M8. Workgroup training



Sustainable forest management in Menorca in a context of climate change
LIFE07ENV/ES/000024
www.cime.es/lifeboscos



Preparation actions

- P1. Information gathering and seminar organization
- P2. Draft planning guidelines for forest management on the entire island
- P3. Environmental evaluation of the guidelines



Last november we organized an experts workshop to analyse the vulnerability of Menorcan forests (see conclusions in our website)

The guidelines will be draft with governance criteria (stakeholders participation, government coordination)

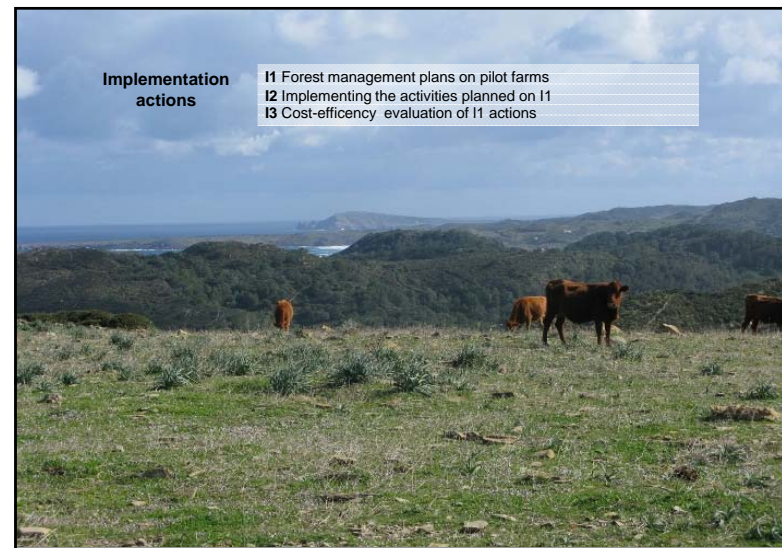


Sustainable forest management in Menorca in a context of climate change
LIFE07ENV/ES/000024
www.cime.es/lifeboscos



Implementation actions

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- I2 Implementing the activities planned on I1
- I3 Cost-efficiency evaluation of I1 actions



Sustainable forest management in Menorca in a context of climate change
LIFE07ENV/ES/000024
www.cime.es/lifeboscos



Communication actions

C1. Virtual Forestry Information Center

- Forestry database
- Forest indicators and monitoring

C2. Stakeholders training

- Training courses
- Good practices guide




C3. Public awareness

- Website
- Leaflets & airport advertisement board
- School lectures
- Interpretative path
- Booklet about forest values

C4. Participating in conferences and meetings with other projects

- Spanish Forestry Conference (Ávila, oct 2009)
- LIFE Climate Change seminar (Helsinki, jan 2010)

C5. Layman Report



Sustainable forest management in Mexico in a context of climate change
LIFE07ENV/ES/000024 www.cime.es/lifeboscos

INSTITUTO MEXICANO DE INVESTIGACIONES FORESTALES
SECRETARÍA DE AGRICULTURA, GANADERÍA Y DESARROLLO RURAL
EUROPEAN UNION

Work Group organization

```

graph TD
    SC[Scientific Committee] --> WG[Work Group]
    MC[Monitoring Committee] --> WG
    subgraph WG [Work Group]
        D[Director]
        CT[Communication technician]
        PT[Planning technician]
        FMT[Forest management technician]
        S[Secretary]
        E[Economist]
    end
  
```

Sustainable forest management in Mexico in a context of climate change
LIFE07ENV/ES/000024 www.cime.es/lifeboscos

INSTITUTO MEXICANO DE INVESTIGACIONES FORESTALES
SECRETARÍA DE AGRICULTURA, GANADERÍA Y DESARROLLO RURAL
EUROPEAN UNION

Further information at www.cime.es/lifeboscos/

THANK YOU VERY MUCH!

KIITOS PALJON!



Sustainable forest management in Mexico in a context of climate change
LIFE07ENV/ES/000024 www.cime.es/lifeboscos

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SECRETARÍA DE AGRICULTURA, GANADERÍA Y DESARROLLO RURAL
EUROPEAN UNION



CARBOMARK

Bridging voluntary markets to local climate mitigation policies

Elena Dalla Valle – University of Padua
Silvia Stefanelli – Friuli Venezia Giulia Region

LIFE climate change seminar – Helsinki 18-19 January 2010


Voluntary carbon markets overview

- Complementary to EU regulated carbon markets
- Source of innovative credits (REDDs)
- Involve a wide range of small to medium emitters
- CO₂ savings additional to compliance market.
VCM traded CO₂ volumes 3% in 2008 but on the rise
- More flexibility than regulated markets
Wider range of mitigation projects
- Raise awareness on CC among policy makers

LIFE climate change seminar – Helsinki 18-19 January 2010

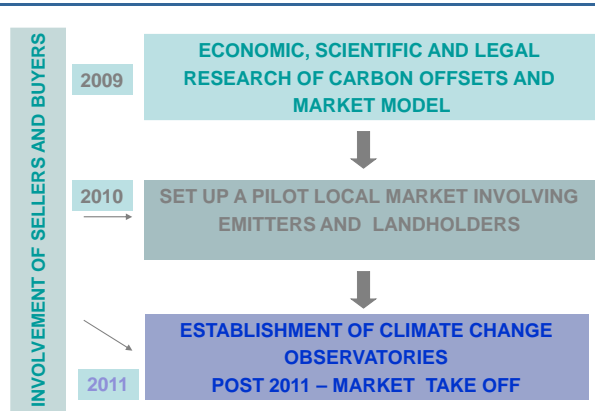
From global to local CARBO MARK OBJECTIVES

- Set up a local carbon market
- Compensate carbon saving forest management
- Develop robust methodology
- Test innovative agro-forestry offsets
- 4 partners involved - 2 Regions
2 Universities. Budget € 1,088,028
- Pilot market (2009-2011) then take off



LIFE climate change seminar – Helsinki 18-19 January 2010

Project main key actions



LIFE climate change seminar – Helsinki 18-19 January 2010



Why a local voluntary market?

SELLERS SIDE

- Compensation for carbon saving land management practices
- Paying for ecosystem services (PES) from SMF
- Adoption of green policies (wood products, urban forestry) *at the local level*

BUYERS SIDE

- SME demand for credits generated *locally*
- Positive local impacts
- Willingness to pay a premium price €€€
- “CarboMark” branding
- Pre-compliance



LIFE climate change seminar – Helsinki 18-19 January 2010



Which mitigation actions?

Demand for carbon offsets generated locally

SUSTAINABLE
FOREST
MANAGEMENT

LONG LIVED
WOOD PRODUCTS

URBAN
FORESTRY



LIFE climate change seminar – Helsinki 18-19 January 2010



Integrating mitigation to local planning

- Set up and propose protocols for good practice carbon offsetting
- Supervise and monitor market mechanisms to abate GHG emissions
- Define and propose economic opportunities from mitigation to landholders
- Involve policy makers in climate change actions



LIFE climate change seminar – Helsinki 18-19 January 2010



Challenges & risks



- Level of interest among SME's
- Local political support
- Involvement of policy makers Post-Kyoto agreements in the forest sector
- Willingness to pay a high price for credits
- t/CO2 price in the global market
- Keep the market working at the end of the project
- Scale up the model to other regions/countries



LIFE climate change seminar – Helsinki 18-19 January 2010



Thank you for the attention

Questions...?

<http://carbomark.centrodati.info/>

Contact points

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Silvia Stefanelli silvia.stefanelli@regione.fvg.it

Elena Dalla Valle elena.dallavalle@unipd.it



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CATERMASS

Climate Change Adaptation Tools for Environmental Risk Mitigation of Acid Sulphate Soils



2010-2012

Kari-Matti Vuori

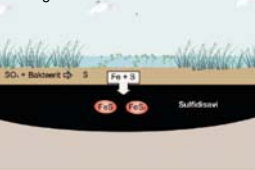
Partners

Finnish Environment Institute, Geological Survey of Finland, MTT Agrifood
Research Finland, Åbo Akademi, University of Helsinki, Finnish Game and
Fisheries Research Institute, South Ostrobothnia Centre for Economic
Development, Transport and the Environment


LIFE+ Climate Change Seminar, Helsinki 18th-19th January 2010





AS-soils originate from the S-rich sediments of littorina-phase of the Baltic Sea 8000-4000 years ago

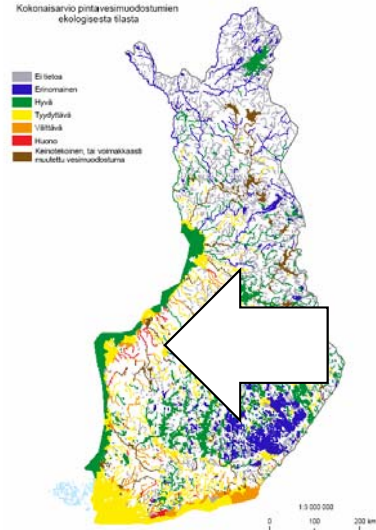


Land uplift ⇒
Drainage for agriculture ⇒
Oxidation of S-compounds ⇒
Episodic/long-term release
of acidity+metals ⇒
Ecological deterioration of water
bodies and impoverished fish stocks






Kokonaisarvio pintavesimuodostumien ekologisesta tilasta



0 100 200 km

Most of the badly damaged water bodies in AS-soil areas, Western Finland

Ecological status bad-
poor (WFD status
assessment 2009)




Climate change in AS-soils?

- Increased drought periods & temperature
- Increased precipitation & floods, especially autumn-winter

⇒

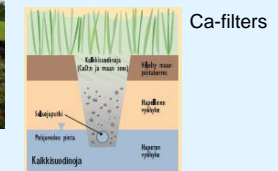
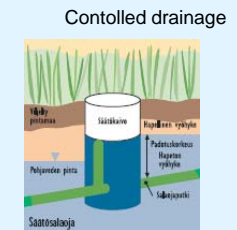
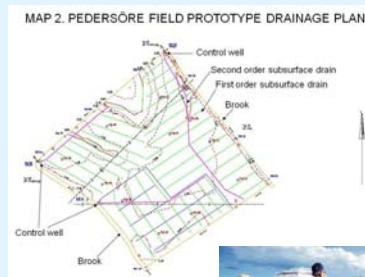
- Increased **release of acidity and metals**
- Increased **exposure of ecosystems** to lethal concentrations
- Increased **deterioration of water bodies & fish stocks**



CATERMASS objectives and actions


- **Overall objective to promote wide application of techniques and actions reducing acidity and metal concentrations in drainage waters**
- **Actions planned to**
 - increase knowledge on the location, quality and quantity of AS-soils
 - develop cost-effective tools for mapping and identification of hotspots
 - collate information on the degree of environmental degradation
 - construct climate change risk scenarios & identify future problem areas
 - evaluate effectiveness and constraints of the current pollution control measures under changing climate
 - develop and demonstrate pollution control techniques tailored for changing climate conditions
 - assess socio-economic impacts and feasibility of the adaptation tools

Concrete demonstrations & interaction



Thank you!






Climate Change Community Response Portal (CCCRP)




Juha A. Karhu,
Finnish Meteorological Institute (FMI)
Project manager
fmi.fi/cccrp

Partners:
1. Finnish Meteorological Institute (FMI),
2. Finnish Environment Institute (SYKE), and
3. Aalto-university, Centre for Urban and Regional Studies (YTK)


Budget:
one million euro support from EU Life+
(LIFE07 INF/FIN/000152 CCCRP)

Duration:
three years 2009-2011



18.1.2010






Climate Change Community Response Portal, CCCRP

The concept of the portal


- CCCRP produces a continuously improving, research based climate change information service that assists the society to mitigate and adapt to climate change
- a boundary service between the users and the research community

The main components:

- Climate Change Explained
- Data visualization and download (including Impacts Wizard)
- Community Response Wizard



18.1.2010 2/7




Climate Change Community Response Portal, CCCRP

Climate Change Explained

- CCCRP collects research based climate change information and organises it within one portal to a user friendly service.
- A pool of ca. 300 web articles introduces the essential aspects of climate change: scientific background, changing climate of Finland, impacts, adaptation and mitigation
- Various other information types complement the text articles
 - definitions, animations, interactive learning tools, case studies, emission calculators, videos, webinars, database of rules and regulations, research reports, summaries of scientific articles

18.1.2010 3/7



Climate Change Community Response Portal, CCCRP

Screenshot from the glossary tool demo

[Etusivu](#) - [Ilmastonmuutos](#) - [Kasvihuoneilmiö](#) - [Kasvihuonekaasut](#)

Kasvihuonekaasut




Kasvihuoneilmiön mahdollistavan kasvihuoneen lasikaton tehtävästä huolehtivat maapallolla **ilmakehän kasvihuonekaasut** (KHK), joista tärkeimpiä ovat **vesihöyry** ja **hiilidioksidi**.

Nämä kaasut sieppaavat valtaosan, noin 90 %, maanpinnan ja merien lähettämästä lämpösäteilystä, tehden maapallosta noin 15 astetta lämpimämmän elinympäristön kuin ilman tätä ilmiötä. Tällä hetkellä ihmiskunta on kuitenkin koko ajan nopeasti voimistamassa kasvihuoneilmiötä päästämällä ilmakehään lisää kasvihuonekaasuja, jotka lämmittävät maapalloa huolestuttavasti seurauksin.

Mitkä kasvihuonekaasut?

Tärkeimmät **ilmakehässä** luonnostaan esiintyvät **kasvihuonekaasut** ovat **vesihöyry** (H₂O), **hiilidioksidi** (CO₂), **metaani** (CH₄), typpioksiduuli (N₂O) ja **otsoni** (O₃). Ilmakehän valtakkaasut tyyppi ja happi eivät aiheuta kasvihuoneilmiötä.

Kasvihuonekaasuilla molekyylin rakenne on sellainen, että ne kykenevät imeämään lämpösäteilyä tietyillä aallonpituuksilla. Kasvihuonekaasumolekyylit voi muuttaa saamansa energian uudelleen säteilyksi, jolloin osa säteilyn energiasta palaa takaisin maan pintaa lämmittämään.

18.1.2010 4/7



Climate Change Community Response Portal, CCCRP

Screenshot from the glossary tool demo

Etusivu • Ilmastomuutos • Kasvihuoneilmiö • Kasvihuonekaasut

Kasvihuonekaasut

Kasvihuoneilmion mahdollistavan kasviuoneen lasikaton tehtävästä huolehtivat maapallolla **ilmakehän kasvihuonekaasut** (KHK), joista tärkeimpiä ovat **vesihöyry** ja **hiilidioksidi**.

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18.1.2010 5/7

Climate Change Community Response Portal, CCCRP

Screenshot from the glossary tool demo

Etusivu • Ilmastomuutos • Kasvihuoneilmiö • Kasviuonekaasut

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18.1.2010 6/7

Climate Change Community Response Portal, CCCRP

Data visualization and download

- Four different types of climate change related data will be visualized and made downloadable via one user interface.

1. climate observations,
2. climate projections,
3. observations of climate change impacts as well as
4. modelled impacts

- Data exchange interfaces are being designed to comply with INSPIRE standards in order to facilitate incorporation and usage of different data sources from different data providers

18.1.2010 7/7

Climate Change Community Response Portal, CCCRP

Screenshot of the data visualization and download demo

suhteellinen kosteus

kohta: Rovaniemi

ajanjakso: joulukuu

Suhteellinen kosteus

Suhteellinen kosteus on todellisen vesihöyrypitoisuuden ja saturoitumispitoisuuden välinen suhde tietyssä lämpötilassa. [Lue lisää](#)

Rovaniemi

Mitä haastetta Rovaniemi kohtaa ilmastomuutoksen edessä? [Lue lisää](#)

Suomen tuleva ilmasto

Ei mallit antautu entistä arvelia Suomen tulevaista ilmastosta. [Lue lisää](#)

Voiko lämpenemisen pysäyttää?

Hiljintörmä voidaan vaikuttaa muuttamalla nopeasti. [Lue lisää](#)

Muuttuuko lämmitystarve?

Ilmastomuutoksella voi olla suhteellisen myönteisiä vaikutuksia. [Lue lisää](#)

Lisää aiheesta

- Ilmastomuutos
- Kasviuonekaasujen päästöt ja sitoutuminen
- Ilmastomuutoksen vaikutukset
- Muutokset Euroopan ja Suomen elämään

18.1.2010 8/7



Climate Change Community Response Portal, CCCRP

Community Response Wizard

- The portal makes use of risk framework and integrated environmental management system approaches to assist planners and decision makers at local and regional level
- databases for best practices as well as climate strategies and action plans and check-lists will be utilized
- The portal does not replace live dialogue between experts and stakeholders, but facilitates it

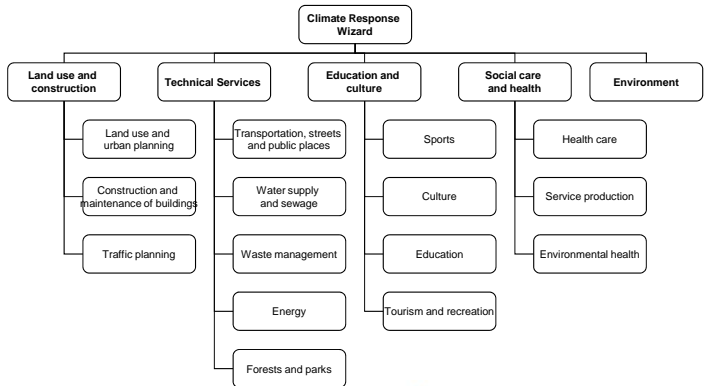








18.1.2010 9/7

Climate Change Community Response Portal, CCCRP

Community Response Wizard: Sectoral approach








18.1.2010 10/7

Climate Change Community Response Portal, CCCRP

Community Response Wizard: Step-wise approach







18.1.2010 11/7

Climate Change Community Response Portal, CCCRP

User participation and timetable

User participation in design of the portal

- Steering Committee
 - partners
 - municipalities
 - information producers
 - communicators
- pilot test group; end-users



Training

- end-user training sessions/workshops in the municipalities

Timetable:

- 1.1.2009: start of the project
- year 2009: design phase
- May 2010: a technical pilot version with a sample of the contents demonstrated
- Dec 2010: a pilot version released
- August 2011: CCCRP released (Finnish)
- December 2011: English and Swedish versions released





18.1.2010 12/7




A Managing Urban Europe Initiative

CHAMP

Local Response to Climate Change


Climate Change Response through integrated urban management

Union of the Baltic Cities
Commission on Environment Secretariat



➤ Budget: 2.033.033 €
 ➤ Duration: 2009 - 2011
 ➤ Partners:


- Union of the Baltic Cities (Coordinating beneficiary)
- Ambiente Italia
- Coordinamento Agende 21 Locali Italiane
- ICLEI Europe
- Lake Constance Foundation
- Lake Balaton Development Cooperation Agency
- Association of Finnish Local and Regional Authorities



A Managing Urban Europe Initiative
CHAMP
Local Response to Climate Change

CHAMP aims at...

- Contributing to the **implementation of existing EU climate change policies**
- Developing a **Capacity Development Package** for integrated urban management reducing EU greenhouse gases up to 2020
- Increasing the **number of local authorities using integrated management systems**
- making EMAS competent bodies aware of the **importance of integration of all strategic aspects** of local and regional authorities
- Increasing **awareness of climate change and integrated strategies**
- Demonstrate a **low-carbon footprint project management**



A Managing Urban Europe Initiative
CHAMP
Local Response to Climate Change

Project actions

Capacity Building through:

- Comprehensive Capacity development package
- Training programmes for trainers, local authorities and EMAS auditors
- Four national training hubs for support

Awareness raising through:

- Communication and dissemination activities via web-page, participation in conferences, bulletins and newsletters
- Training and information events in involved countries for local and regional authorities

Low carbon foot print project management through an electronic platform

Competence network on integrated management systems

A Managing Urban Europe Initiative
CHAMP
Local Response to Climate Change



Integrated urban management

*The model of an **integrated management system for urban areas** in Europe is*

- a way of working
- a systematic, continuous process for planning, implementing, monitoring and evaluating the plan.
- Basing on the generic Plan-Do-Check-Act cycle but with 5th step included i.e. Political Commitment (council approval of the strategic programme)
- Integrates different sectors, all sustainability factors
- It is a journey of gradual expansion! Start small...and grow



A Managing Urban Europe Initiative
CHAMP
Local Response to Climate Change



CHAMP - Trainings on IMS

- 4 national training hubs – support centres in FIN, D, IT, HU
- Support for local authorities in starting to work with IMS in their response to climate change – both adaptation and mitigation measures
- Capacity development package
- Peer reviews
- Continuous support for the cities and municipalities in implementation

A Managing Urban Europe Initiative
CHAMP
Local Response to Climate Change



More information

www.localmanagement.eu

Union of the Baltic Cities, Commission on Environment
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A Managing Urban Europe Initiative
CHAMP
Local Response to Climate Change



Clean vehicles in Stockholm

CLEANTRUCK

CLEAN and energy efficient TRUCKs for urban goods distribution

Björn Hugosson, City of Stockholm

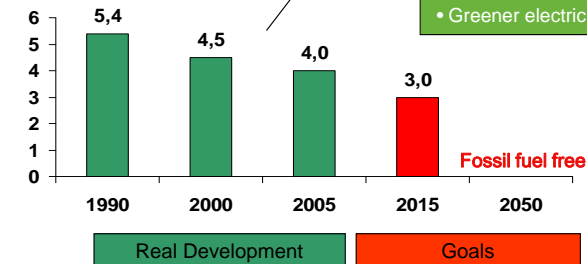
- 3,5 MEUR Total budget
- Duration 2010-2013
- City of Stockholm is co-ordinating beneficiary
- Fuel companies OKQ8 and AGA Gas are associated beneficiaries



Clean vehicles in Stockholm

CO₂ emissions in Stockholm

Tonnes CO₂-ekv per capita

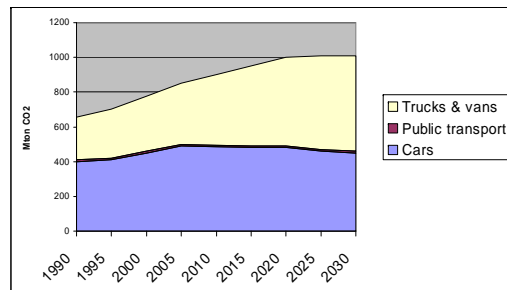


- Biofuels and incinerated waste in district heating
- High share of public transport and renewable fuel in buses
- Greener electricity mix



Clean vehicles in Stockholm

Transport sector emissions of CO₂ i EU-25



Source: European energy and Transport Trends to 2030

Locally: Trucks account for about half of the negative impact of transport on environment – but only 5-10% of the vehicles....

Clean vehicles in Stockholm



Idea behind CLEANTRUCK:

- Use experiences from clean cars and buses
- Demonstrate new truck technologies (80 trucks) and corresponding infrastructure (biomethane and bioethanol)
- Reach out to drivers and fleets to raise awareness and stimulate the market



Clean vehicles in Stockholm

Co-operation

- Fuel companies OKQ8 and AGA Gas are associate beneficiaries
- Volvo, Scania and Mercedes supply clean trucks
- Funding provided to hauliers that use and evaluate the trucks
- Co-financing from Swedish Agency for Innovation Systems
- Networks and NGOs



Clean vehicles in Stockholm

CLEANTRUCK in figures:

- 3,5 MEUR total budget
- 80 clean trucks
- 2 fuel stations
- 2 liquid CO₂ stations
- 4 nitrogen inflation points
- 4 years duration
- 100 drivers trained
- - 85% CO₂ (biofuels)
- - 1500 tons of CO₂/year

Clean vehicles in Stockholm

Dissemination

- Website, newsletters
- Associations and networks
- Driver meetings
- Seminars
- International study visits
- Media
- European networks (POLIS, Eurocities, ICLEI, CIVITAS etc)



Clean vehicles in Stockholm



Thank you !

Björn Hugosson

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The **ClimaBiz** project of Piraeus Bank S.A.

LIFE08 ENV/GR/000552 project supported by the European Commission

Fotini Xenogianni
Piraeus Bank
Environmental Unit
Greece

LIFE Climate Change Seminar
Helsinki, 18-19 January 2010

ClimaBiz 

The ClimaBiz project of Piraeus Bank S.A.

Basic Facts on ClimaBiz

Project Title: Financial Institutions: Preparing the Market for Adapting to Climate Change

Project Acronym: ClimaBiz

Agreement number: LIFE08 ENV/GR/000552

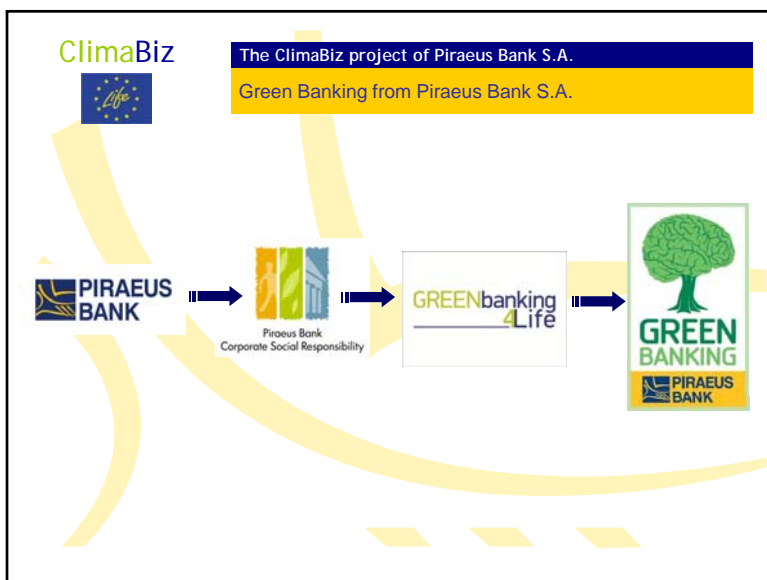
Coordinating beneficiary: Piraeus Bank S.A.


Associated beneficiaries:

- World Wide Fund for Nature – WWF Greece
- FACE³TS Ltd

Project Duration: 11/01/2010-31/12/2012

Project Budget: 1,854,140 €



ClimaBiz 

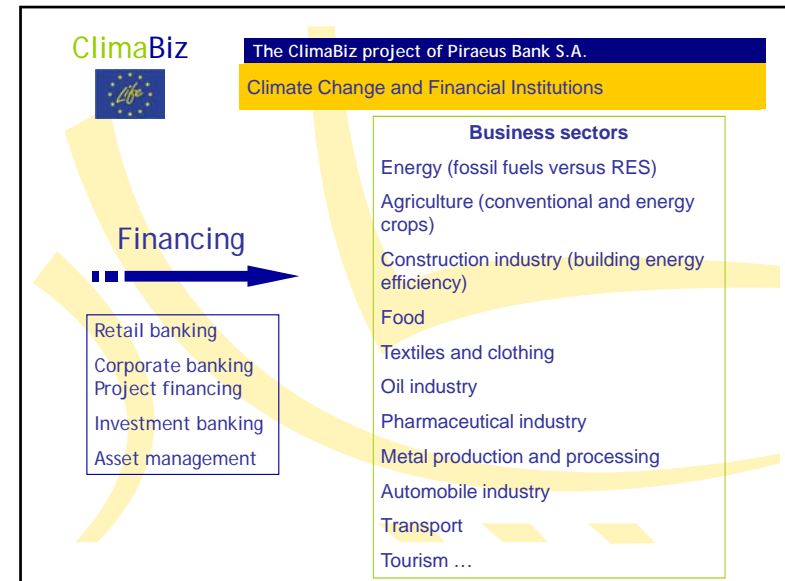
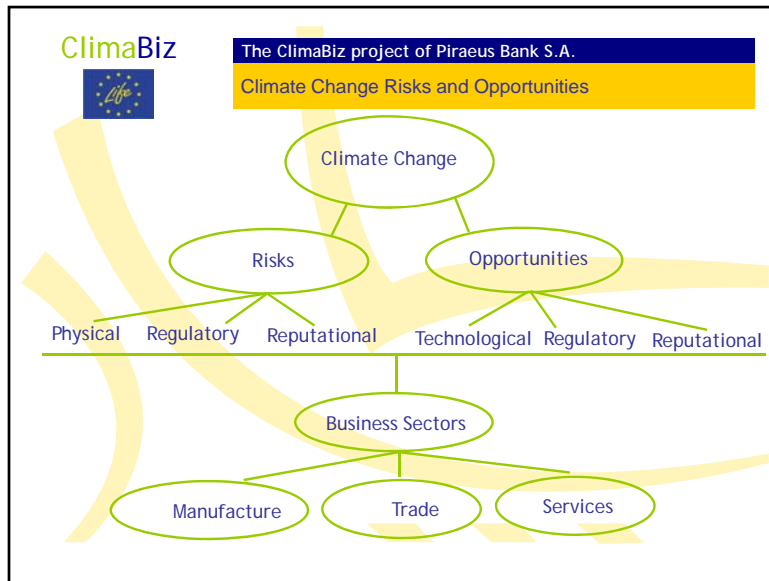
The ClimaBiz project of Piraeus Bank S.A.

The Aim of the ClimaBiz Project

→ **ClimaBiz**

“...To trigger the adaptation of the market to the financial impacts of climate change...”




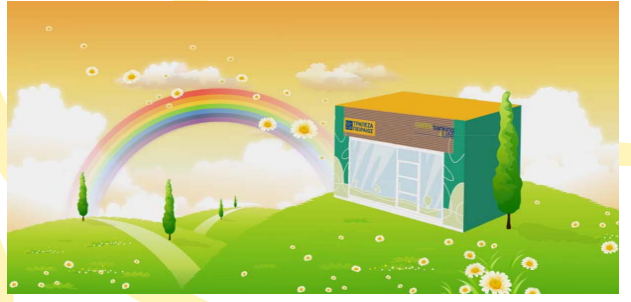


ClimaBiz  The ClimaBiz project of Piraeus Bank S.A.
Identifying C.C. Risks and Opport. for the Financial Sector

- Overview of environmental effects of climate change in Southeastern Europe
- Preliminary identification of climate change risks and opportunities of all Greek economic sectors
- Piraeus Bank and its relation to the economic sectors affected by C.C.
- Greek businesses and climate change report
- Piraeus Bank Climate Change Strategy



ClimaBiz  The ClimaBiz project of Piraeus Bank S.A.
Quantifying C.C. Risks and Opportunities



- Climate change risk quantification model
- Climate change risk reduction model (client adaptation)
- Climate opportunities quantification study





- E-tool: "Climate changes our business strategy"
- Climate Adaptation Best Business Practice Portal



- E-learning on climate change adaptation and business opportunities
- Workshops
- Climate change news of the Intranet
- Greece, Romania, Bulgaria, Cyprus



- Road shows
- Leaflets
- 3 Year Media Plan
- DVD
- Website
- "Climate Change, the Economy and Finance" report
- Layman's report, after-LIFE communication plan



PIRAEUS BANK S.A.

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GREECE

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Helping little people understand WATER

Presentation by Siân Hughes , Business Solutions Europa

Life+ Climate Change seminar , Helsinki, 18-19 January 2010

Contents

Background

- The Inspiration
- The Project
- Objectives
- EcoAnimation Partners
- The Methodology

Our wonderfully cool and fantastic series

- My Friend Boo
- Concept
- Episodes
- Reaching Millions of European Children
- Boo takes on Europe!

Contacts

Sneaky Preview....

The Inspiration

- One day, a group of enthusiastic, young Europeans hailing from the world of communication, TV, campaigning and policy had an idea...
- This generation of European children is the most vulnerable 'next generation' in history. They are the ones that will make the difference, they are the ones that will need to clean up our mess...
- But...communicating to younger kids on modern day global issues like can sometimes be a mammoth task
- Issues such as conservation and climate change are often too complicated and just too gigantic for them to identify with, or to understand
- So how best to get the message across??
- Through a medium that kids love and interact with every day of course ...
- Cartoon animations!
- We hatched a plan, put together a unique partnership of the best in the business – kids, issue, communication and broadcast experts and award winning animators - and put our plan to the European Commission...

The Project



- Eco-Animation - a fun and exciting new animation project to raise awareness among European children on the sustainable use of water started on 1 January 2009
- The project is co-funded by the LIFE+ Information and Communication strand which aims to disseminate information and raise the profile of environmental issues
- For the past 12 months the "Eco-Animation" partnership has been working on **three fabulous water-themed episodes** of a wonderful and wacky animated series aimed at 5-8 year old children
- The episodes will form 'The Water Strand' of a 9 part series and cover issues from **saving water to water pollution** and the **role of water in our lives**

Budget:

- 541.092 euros
- 258.371 euros (EC contribution)

Cost effectiveness

- At current levels... (10 million households) - 2 euro cent per child



Objectives

Specific

- Find out what message works best with European children on the sustainable use of natural resources, in particular water
- Directly reach the children through a creative form of communication which they enjoy watching and are captivated by
- Indirectly reach their educators and families and raise awareness on the sustainable use of freshwater

Strategic

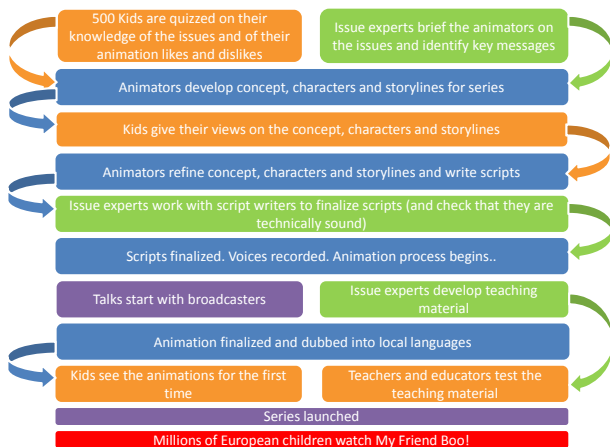
- Overcome the common communication barriers to children on nature conservation and water issues
- Help change their long term behavioral patterns towards the use of water

EcoAnimation Partners

- The co-production model behind the series is the first of its kind in Europe
- The episodes are based upon the research and support of independent international experts and feedback from focus groups of children in 5 European countries
- We have gauged their knowledge and tapped into their imaginations to ensure that the series hits the right note:
 - Business Solutions Europa (Project Management and Communication)
 - Griffilms (Animation)
 - WWF - World Wide Fund for Nature, European Policy Office (Content)
 - Explora – The children's museum of Rome (Pedagogic Evaluation)
 - Children's museums and schools from Belgium, Bulgaria, Ireland, Italy, and Poland

Country	School	Museum	
Belgium	Vrije Basisschool Ursulinen, Mechelen	Technopolis	www.technopolis.be
Bulgaria	54 Sredno osnovno uchiliste "Sveti Ivan Rilski" - Sofia	Artland	www.artland-bg.com
Ireland	Willow Park Schools () -	Imaginosity	www.imaginosity.ie
Italy	Istituto Comprensivo <i>Karol Wojtyła</i> - Rome	Explora – il museo dei bambini di Roma (partner)	www.mdb.it
Poland	- Primary School number 111 - Łódź - Primary School im. Kościuszko's Infantry Division ul - Łódź	ParkMiniatur	www.parkminiatur.pl

The Methodology



My Friend Boo!!

My Friend Boo is a fun-filled animated series created by EcoAnimation and 2 other European-funded Commission Projects*

The series uses imagination, comedy, adventure and magic to help younger viewers understand some of today's most important world issues:

- Water and conservation (The Water Strand)
- Energy and climate change* (The Energy Strand)
- Health * (The Healthy Living Strand)

In our episodes children can see that even with everyday gestures they can also help make a difference to their worlds and the wider world around them – and their families & friends can too

* Joined-up thinking...

The *Energy strand* – has been produced by the Young Energy Savers project with the support of the Intelligent Energy Europe programme
The *Healthy Living strand* – was devised by the ACTIVE project with the support of the HEALTH programme

For more information : www.animate-eu.com



Concept

Whilst playing in their junk filled attic one day, BEN, JAQ and LUCY stumble across a very scruffy looking toy dog and a broken children's carousel. They also discover an old toy chest, which is home to a mysterious glowing golden 'wind up' key that fits into the back of the scruffy little toy.

Lucy winds up the key and suddenly the tatty little toy dog magically comes to life. The toy quickly introduces himself as Boo.

Boo is a fast-talking adventurer with incredible magical powers. He's kind, funny, smart, a little bit mysterious.

He becomes the children's friend and their guide as they travel in his magical carousel embarking on extraordinary journeys and totally amazing adventures to all types of different worlds that help the three young explorers to learn lessons about some important issues whilst of course having lots of fun!



Water Strand Episodes

'Victoria's Wetlands' (Theme: Water Pollution)

The kids meet a rather talkative vole called Victoria whose riverbank home has been abandoned by animals and humans because a local factory isn't taking care of its waste



Victoria the Vole

'It's Only Water!' (Theme: Water Conservation)

They visit Planet Klexus where inhabitants learn a lesson or two from Boo and the kids about conservation



Aliens from the planet Klexus

'The Big Picture' (Theme: Water and the World)

The kids take a ride down a river bank to look at the "bigger picture" where they see the damage that chemicals and dam-building can have on local wildlife but also what we can do to make the world a better place

Reaching Millions of European Children...

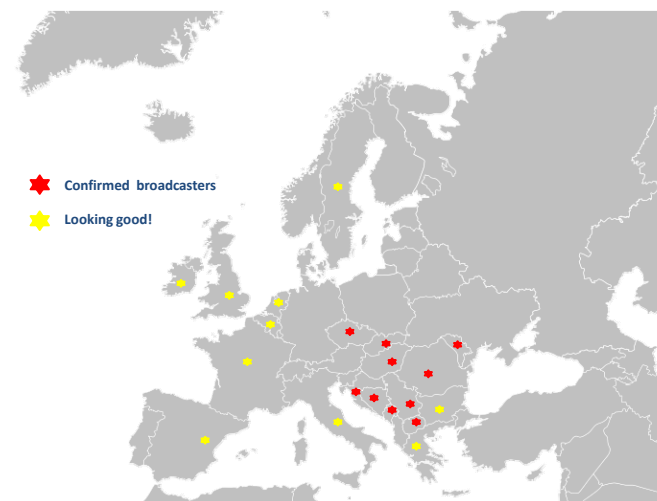
- We hope Boo and his inspirational stories reach and motivate millions of European children.
- To make this happen we are making the series available **free to European broadcasters**
 - Participating broadcasters will get the series for free in EN, BG, IT, NL & PL
 - They will have exclusive rights for broadcast for 2 years
 - All they have to do is translate the scripts, teaching material and dub in to local languages
 - The series will be available for broadcast from June 2010 (once all the strands have been viewed by our focus groups)

NEWSFLASH!

We have already closed a deal with Central-European cartoon channel Minimax for the exclusive rights in 10 European territories. These are:

- Czech Republic, Hungary, Romania, Slovakia
- Bosnia-Herzegovina, Croatia, Kosovo, Moldova, Montenegro, Serbia
- **10 million households will be reached!**

Boo Takes on Europe...



...And there is more!

Boo goes back to school !

- The series will be accompanied by downloadable **'Teaching packs'** for educators and schools - **free of charge**
- The material is being developed by our experts and schools
- Each teaching pack will contain lesson plans for each episode
- Each plan will last 1 hour and will be adaptable for several ages
- It will be available in local languages from June 2010
- All educators need to do is fill in the form on www.myfriendboo.com
- What a great way to teach kids about these issues!

Next Steps... 2010

Jan	Feb	March
Animators do their stuff...		Public launch !!
Project partners contact sponsors		22nd March 2010 – World Water Day
Broadcasters agree and sign exclusive deals for broadcast (from June 2010) in their territories		3 rd Focus group for children to view the strand of the first time and for teachers to test the teaching material
WWF and pedagogic partners prepare teaching material		
Series translated and dubbed into local languages		
WWF and pedagogic partners finalise teaching material		Events planned in London, Rome, Dublin, Lodz, Sofia, Mechlen and perhaps more...

Contacts

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Helene Soyer (FR/EN/PT)
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FACTOR20 Forwarding **ACT**ions On a Regional and local scale to reach EU targets of the European Climate Action Plan "20 – 20 by 2020"

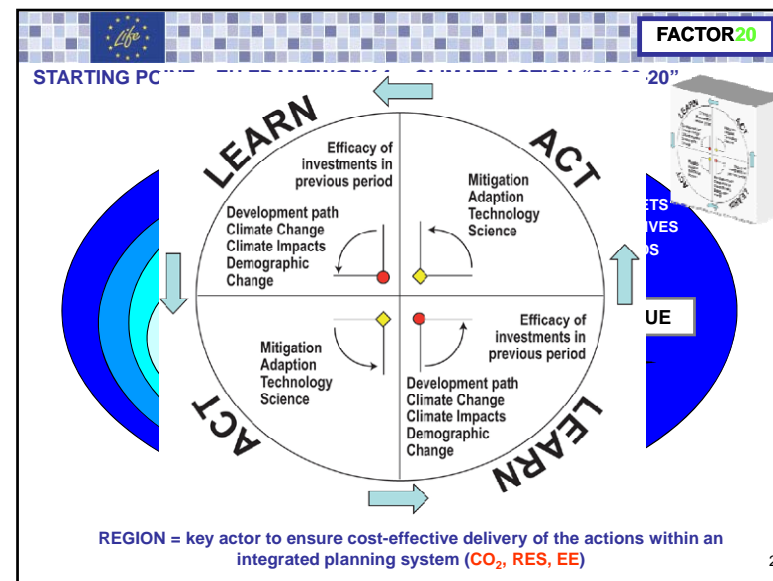
Project budget: € 2.512.600
Project duration: 1/1/2010 - 31/12/2012

The Partnership

Regione Lombardia (Coordinating Beneficiary)		MINISTRY for the ENVIRONMENT (co-financing)
CESTEC (Project management + technical assistance)		
Regione Basilicata		
Sviluppo Italia Basilicata (Technical assistance)		
Regione Sicilia		

LIFE Climate Change Seminar Helsinki 18-19 January 2010
Valentina Sachero (Regione Lombardia)
Mauro Alberti (CESTEC)

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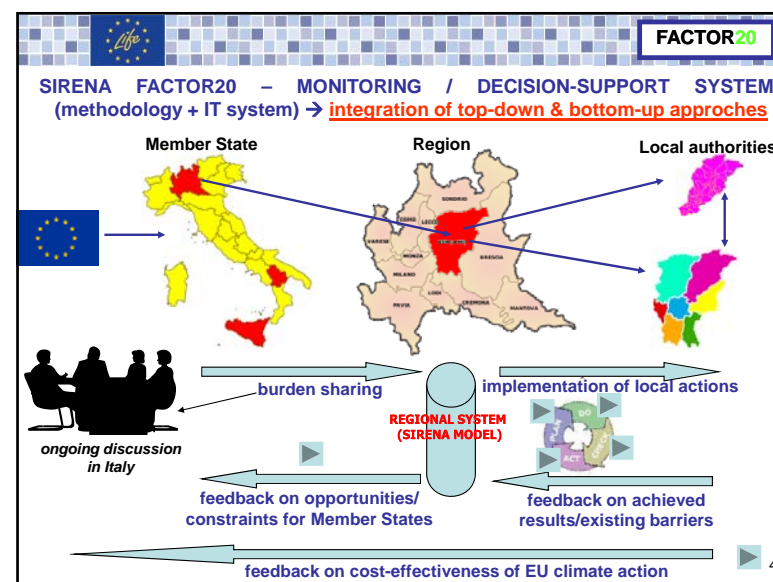
FACTOR20

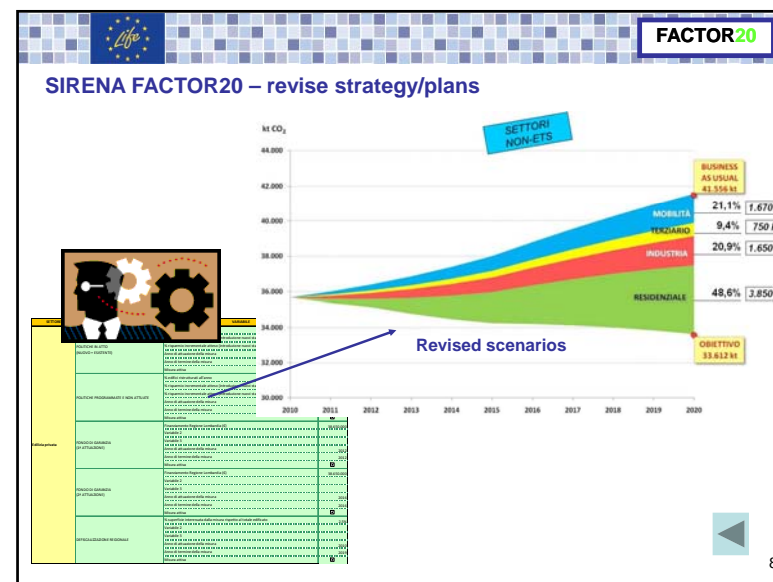
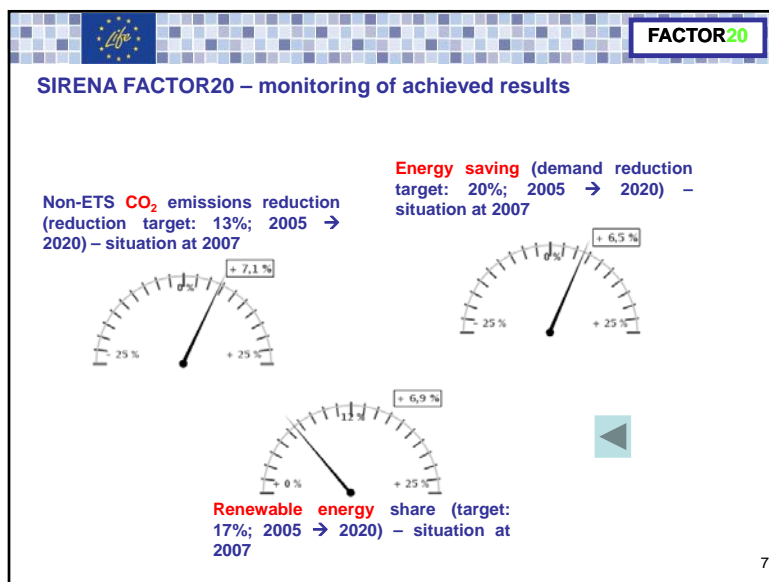
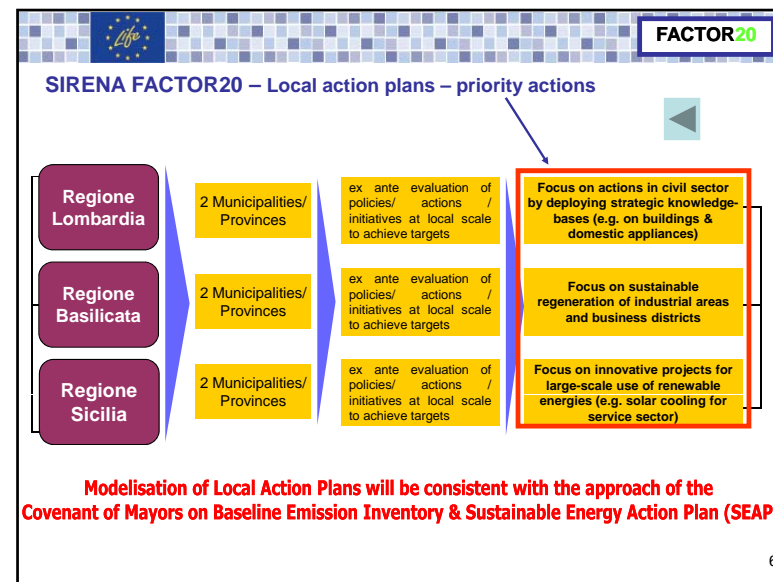
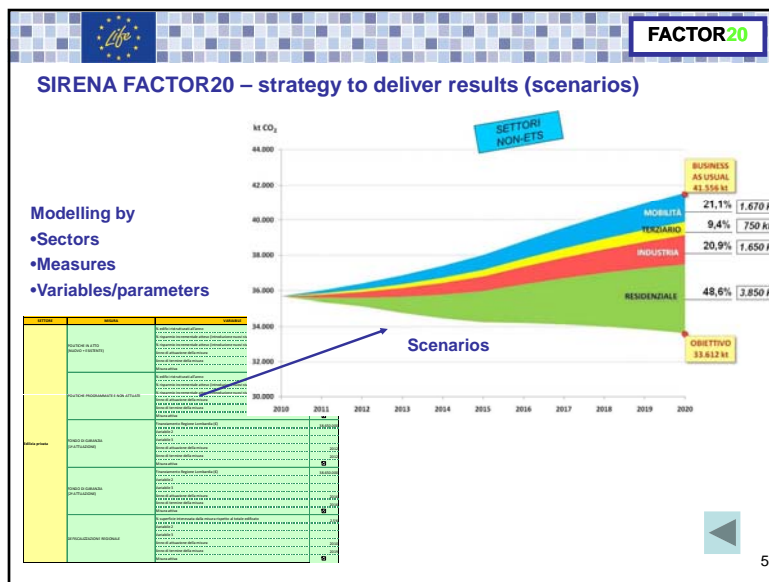
MAIN OBJECTIVES of the Project

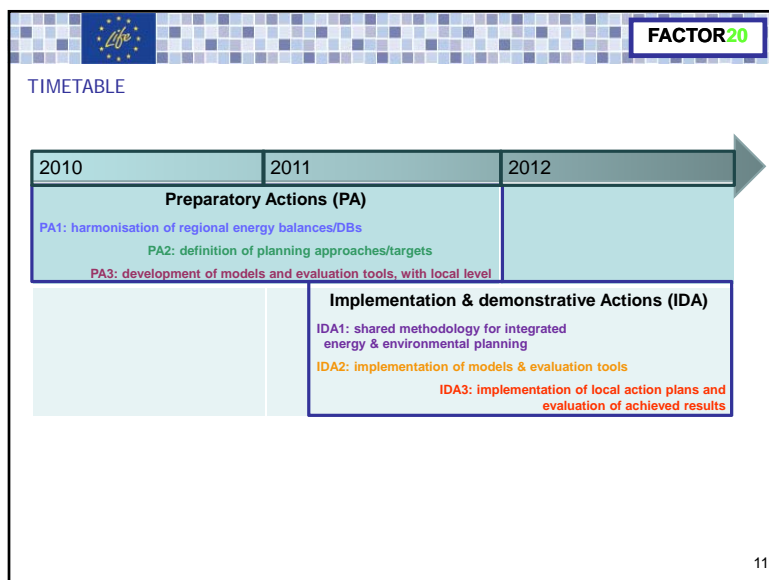
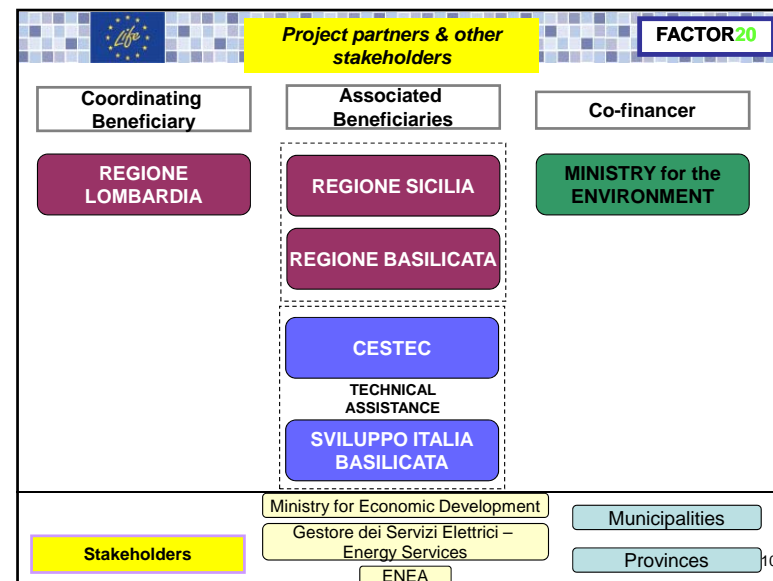
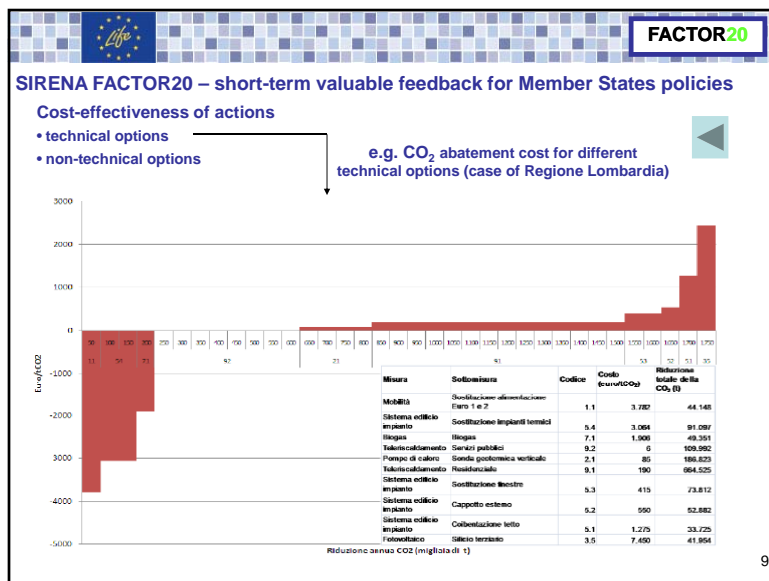
- Integrate policies/plans on GHG emissions with energy (RES + energy efficiency) planning, promoting action at local level (*the challenge begins locally*)
- Integrate energy and GHG emissions data into a monitoring/decision-support system → SIRENA* FACTOR 20 (*If you cannot measure it you cannot improve it*)
- Monitor and evaluate effectiveness of Local Action Plans to provide feedback for Regional/National policies/plans (*think globally, act locally*)
- Raise stakeholders' awareness at local and regional level on the opportunities in the field of climate/energy action

* SIRENA = Energy and Environmental Information System in Regione Lombardia

3







FACTOR20

Thank you for your attention!

Project contacts:

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Mauro Alberti - CESTEC
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12






«Developing Green Products in the Financial Sector and Reducing Environmental Impact of Bank Services»

LIFE 06 ENV/GR/000375 project supported by the European Commission

Dimitrios Dimopoulos
PIRAEUS BANK S.A.
GREECE
Environmental Unit

LIFE Climate Change Seminar
Helsinki, 18-19 January 2010



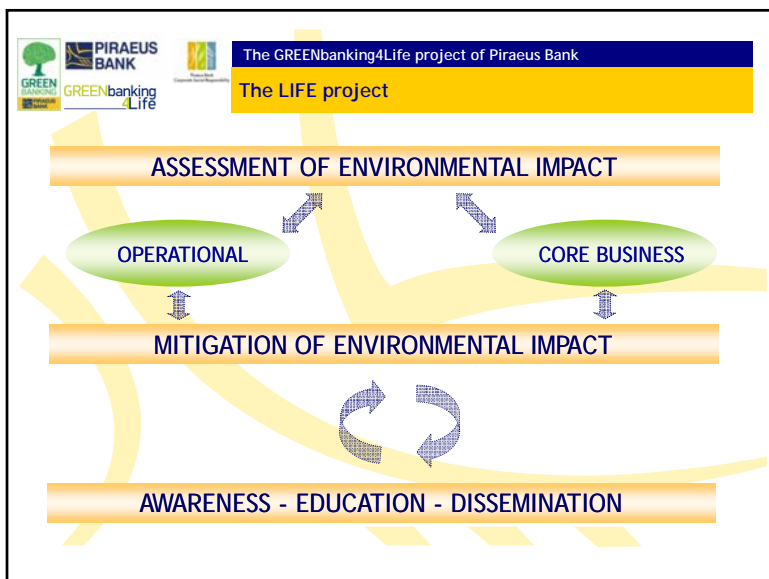

The GREENbanking4Life project of Piraeus Bank

The LIFE project

Beneficiary: PIRAEUS BANK S.A.
Partner: ECOLOGICAL RECYCLING SOCIETY, NGO
Duration: 3 years (03/10/2006 - 02/10/2009)
Budget: 2,021,173€

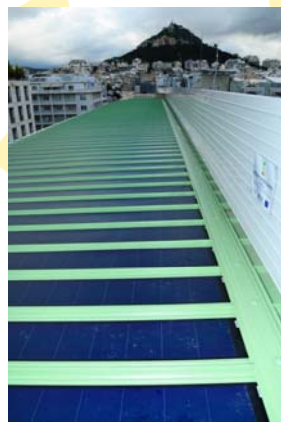
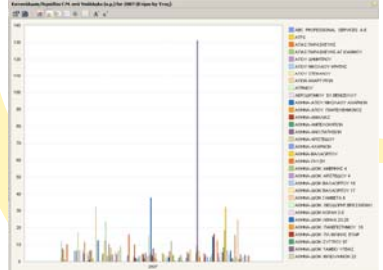
AIM:

“To improve the environmental performance of Piraeus Bank and to disseminate the acquired expertise among businesses and services that are related to the Bank’s activities”

The GREENbanking4Life project of Piraeus Bank

Monitoring, energy & resource management

- Monitoring performance, detecting environmental problems, measuring “environmental footprint”
- Environmental management guides
- Photovoltaic systems in 4 different buildings of Piraeus Bank with a total capacity of 45 KW



The GREENbanking4Life project of Piraeus Bank

Recycling waste, green procurement, transportation



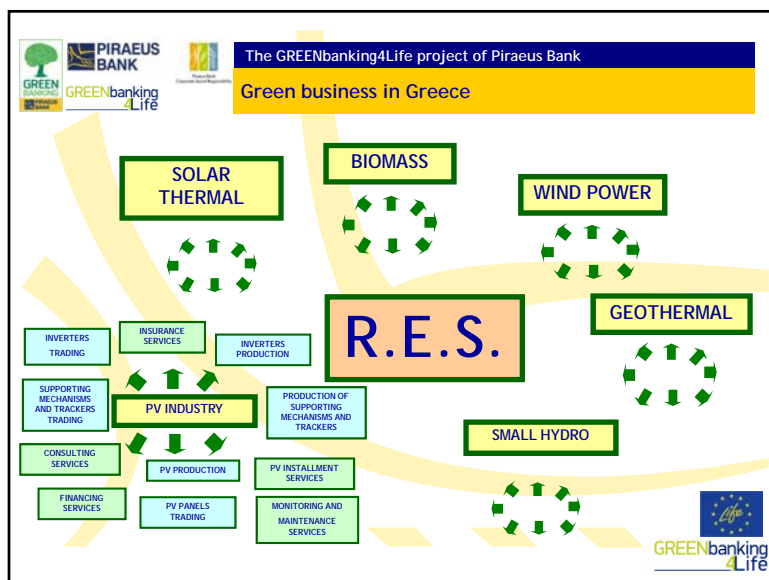
- Paper recycling
- Battery recycling
- Ink and toner recycling
- Plastic recycling
- Green Procurement
- Car pooling
- Water saving techniques



The GREENbanking4Life project of Piraeus Bank

Green banking products

1. Financing investment plans for photovoltaic stations
2. Green Mortgage
To build/renew/buy house with energy performance ratings
3. Green Consumer Loan
 - To purchase and install Photovoltaic Systems or/and Renewable Energy Power Systems for individual customers at business premises
 - To buy and install mechanical systems at home for energy saving (for example: solar hot water system)
 - House retrofitting for energy saving (home insulation, double glazing, external awnings)



The GREENbanking4Life project of Piraeus Bank

Communication and education



Communicate environmental progress with top management





Exchanging expertise with Piraeus Bank's subsidiaries




Incentives to improve employees' environmental behaviour




The GREENbanking4Life project of Piraeus Bank
Communication and education



Weekly GREEN NEWS on the Bank's intranet



E-learning programme "PIRAEUS BANK AND THE ENVIRONMENT"






The GREENbanking4Life project of Piraeus Bank
Communication and education



The GREEN BANKING branch of Piraeus Bank in Athens, the first in the Balkans

@Communicate through the press

@Communicate through website



The GREENbanking4Life project of Piraeus Bank
Major Environmental Results

ENVIRONMENTAL RESULTS


- >By using recycled paper, we saved 26,000 trees in the last three years.
- >We recycled 500 tonnes of paper in the last 3 years (2006, 2007, 2008)
- >We reduced our CO₂ emissions by 1 % per employee in 2008 compared to 2007
- >We reduced our paper consumption by 9 % per employee in 2008 compared to 2007
- >By recycling computers and other electronic materials (60,6 tn) we avoided wasting 15 tn of glass, 21 tn aluminium and 14 tn of plastic.
- >By avoiding 950,000 km of transport through e-learning, we reduced emissions of CO₂ by 170 tn
- >Piraeus Bank's financing in RES over the last 2 years has led to avoiding 866,500 tn of CO₂ emissions.

ENVIRONMENTAL AWARENESS RESULTS

Increase of employee environmental performance by 8.6 % from 2007 to 2009

The GREENbanking4Life project of Piraeus Bank
Contact Info



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Industrial Symbiosis as an Innovative Method in Tackling Climate Change

ISIM-TCC

LIFE08 ENV/H/000291



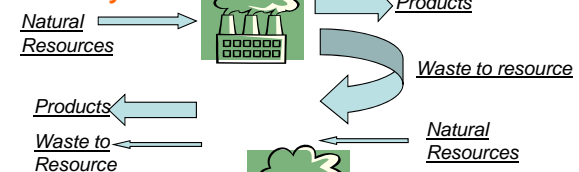
International Synergies
industrial ecology solutions

What is 'Industrial Symbiosis' ...?

Linear System



Circular System



International Synergies
industrial ecology solutions

What is 'Industrial Symbiosis' ...?

• A definition of Industrial Symbiosis ?

- is part of the emerging field of industrial ecology
- address the flow of materials, energy, water and/or by-products through local, regional and National economies
- engages traditionally separate industries in a collective approach to competitive advantage
- involves physical exchange of materials, energy, water, and/or by-products.
- the keys to industrial symbiosis are collaboration and the synergistic possibilities offered by relative geographic proximity



International Synergies
industrial ecology solutions

What NISP achieves ...

NISP INCREASES

Jobs
Sales
Learning
Bottom line
Innovation
New business
Inward investment
Knowledge transfer
Utilisation of assets

NISP REDUCES

Use of Virgin resources
Use of potable water
Hazardous waste
CO₂ emissions
Transport
Pollution
Landfill
Costs
Risk

NISP helps create real business opportunity



International Synergies
industrial ecology solutions



Externally Verified Outputs 2005 to 2010			
	Actual	Scenario 1	Scenario 2
Economic			
Cost Savings to Business	£156,082,258	£458,246,774	£780,411,290
Additional Sales for Business	£176,097,19	£528,293,757	£880,489,595
Environmental			
Landfill Diversion (Tonnes)	7,022,384	21,067,152	35,111,920
CO ₂ reduction (tonnes)	6,038,059	18,114,177	30,190,295
Virgin Material Savings (Tonnes)	9,704,711	29,114,133	48,523,555
Hazardous Waste Eliminated (Tonnes)	363,626	1,090,878	1,818,130
Water Savings (Tonnes)	9,569,738	28,709,214	47,848,690
Social			
Jobs Created	3683	13,309	22,181
Jobs Saved	5087	18,379	30,632



International Synergies
industrial ecology solutions

Technology and Innovation

- Delivering immediate R&D and technology innovation needs of industry
- Helping industry identify and overcome current market barriers
- Found that 75% of all synergies included innovation
 - 50% involved best available practice
 - 20% involved new research
- NISP becoming more innovative with time



International Synergies
industrial ecology solutions

- Europe**
The Energy Trophy - Coordination of a Pan – European energy reduction programme
- China**
March 2007 – November 2008
Pilot project to establish principles of circular economy
- China**
Biggest industrial estate in the World
€1.8m Switch Asia funding
- Mexico**
January 2008 - September 2009
Establish Mexico Industrial Symbiosis Programme
- Brazil**
November 2008 - March 2010
Establish Brazilian Industrial Symbiosis Programme
- Romania**
February 2009 – October 2011
EU Life + Funding
Application of Industrial Ecosystems principles to regional development
- Hungary**
Life + Funding
Industrial Symbiosis as an Innovative Method in Tackling Climate Change
- USA**
Chicago New Orleans
Houston Alabama



International Synergies
industrial ecology solutions

Iparfejlesztési Közalapítvány (IFKA) - Hungary

IFKA Secretariat, Innovation

- Funding, scholarship programmes
- R&D, innovation awards

Quality Management Centre

- National and regional quality awards, IIsa-Shiba Award

Logistic Development Centre

- National Logistic Strategy

EUPROM Centre

- Environmental projects (LIFE+, KEOP, CDP)
- EU proposal writing and project management trainings



International Synergies
industrial ecology solutions



This application is based on knowledge concerning, on one hand the temperature dependence of biological processes in treatment of sewage water and on the other hand new information on heat exchange between untreated and treated sewage water.

- *Increased efficiency in sewage treatment (especially in the Baltic Region) .*
- *Reduce Nitrogen emission in the Baltic sea*
- *Contributes to the saving of energy*
- *Increases production of electricity in CHP plants*
- *Reduced emissions of CO₂.*

The findings in the proposed project can be implemented both to existing and to new treatment plants and CHP plants within three to four years after its start.

ITEST

ITEST

- ✗ *Develop and implement a system in which existing knowledge and technologies will be integrated to reduce the costs for sewage treatment and in parallel demonstrate that the Nitrogen objective in the Directive 98/15/EEC can be met during all seasons e.g. in the Baltic Region.*

ITEST

- ✗ **Expected results (outputs and quantified achievements):**
- ✗ Based on the pre-studies and calculations to this application it can be expected that;
- ✗ 1) The quality of the treated sewage water will be improved and the Nitrogen concentration will not exceed 10 mg/l during any season. This will reduce the outflow of N from sewage treatment plants by 35 %. Similar improvements are expected for other all areas with a similar cold winter climate.
- ✗ 2) Less power consumption in the sewage treatment plant. A reduction of about 30 % is expected for blowers and mixers while the electrical energy for pumping the sewage water through heat exchangers will consume about half of the mentioned saving in power.
- ✗ 3) Reduced costs for the treatment of sewage water in cold climate. Expected savings are 5-10 % compared to conventional sewage treatment.
- ✗ 4) Increased electricity output by 4-5% due to colder return water from district heating system.

ITEST - A WIN-WIN SOLUTION

- ✗ Environment-Energy-Climate
- ✗ Make intelligent use of energy resources
- ✗ Applicable to existing installations
- ✗ Online results on virtual control panel
- ✗ Open for local virtual testdrive –input your own variables.



ITEST virtual control dash board





Jerez+natural

Main Figures

Total Budget	656.938 €
EU Contribution	317.554 €
Calendar	Jan 2010 – Dec 2011
Priority Area	Urban environment
Municipal area	Environment and sustainability

New Management Model of Urban Green Areas

Jerez+natural

The present situation

The municipality of Jerez, with 205.364 inhabitants, has around 3 million m² of green areas in an extension of 1.186 km² (15 m² of green areas per inhabitant) above the EU average (7m² per inhabitant)

This represents a fundamental value considering its 3.200 sun hours a year (295 days) and a low level of precipitations, decreasing each year.

This implies a high economic to maintain its rich diversity of ecosystems present in the big extensions of gardens, parks and green areas..

This makes necessary to design and adopt new models to make sustainable, environmental and economically, the management of the green areas.

New Management Model of Urban Green Areas

Jerez+natural

The LIFE+ Project Jerez +Natural consolidates the city of Jerez in the framework of the Urban Environment Policy, The results can represent a best practice or a reference at national e international level as an innovative project in the environmental area.

Jerez will be a pioneer agent in the regeneration of the green heritage, contributing to reduce the CO₂ levels, through the design and implementation of a new policy for planning, management and treatment of the urban green areas and with the following expected results:

- A significant improvement of the city green areas of the through the use of environmentally friendly methods.
- A general improvement of the air quality in the city and the overall reduction of CO₂ emissions and other pollutants.
- Awareness among the population on the values of trees, and green areas in general, in the city.

New Management Model of Urban Green Areas



Background



Experimental Xeroscape Project aiming at the reduction of irrigation water consumption in green areas in more than 70%.

Small-scale experimental biological treatment for urban trees. A larger and more complex application will be executed in the LIFE project.



Objectives

- Defining a new model of intervention in green areas management based on the innovation and improvement of the habitability of city public areas.
- Integrating green areas management policies within urban planning processes.
- Defining a procedure set that guarantees the effective management of green areas in each and every stage foreseen (planning, maintenance, monitoring assessment and follow-up).
- Developing a computer-based tool for urban trees management that simplifies the execution of the inventory of species and specimens, that also allows the follow-up of the interventions on every individual.



- Applying innovative methods for plague control of urban trees of Jerez the municipality.
- Carrying out a number of demonstration activities aimed at spreading the innovation capacity of the city council in terms of management processes, and of techniques used for the planning, follow-up of the situation and impact of the improvement of urban green areas, especially, urban trees.
- Standardizing, through the use of new technologies, urban green areas management processes and communication processes.
- Developing a model of environmental education adapted to each specific citizen communities organising different activities in order to raise public awareness of Jerez's green heritage.



TECHNOLOGICAL INNOVATION METHODOLOGICAL INNOVATION MANAGEMENT INNOVATION



Innovative biological treatments preventing the plague from spreading and, at the same time, avoiding the use of less environmentally friendly methods, like chemicals.



Innovative tools for management and preservation of urban trees able to support decision making about the suitability of plantation, election of species, preservation and conservation according to environmental, economic and urban criteria.



New process for politic actions: regulation on planning, management and conservation of green areas in co-ordination with other public stakeholders (urbanism, education, social services)

Involvement of citizenships in the different phases of the project

Designing and application of a new model of management of green areas, a new method of work and application of new techniques and procedures.



Proposed actions

New Management Model of Urban Green Areas

Preparatory actions

Update of the tree inventory of the city of Jerez

Assessment of the situation of the tree heritage of Jerez and its management model

Design and development of a computer based tool for the management and preservation of urban trees

Experimental programme of biological treatment for urban trees

"Botanical Route" environmental education programme ("La Ruta de las especies")

Dissemination and communication plan

Modelo de gestión innovadora del arbolado urbano de la ciudad de Jerez

New Management Model of Urban Green Areas

City of Jerez - SPAIN

Ayuntamiento de Jerez
Medio Ambiente y Sostenibilidad

