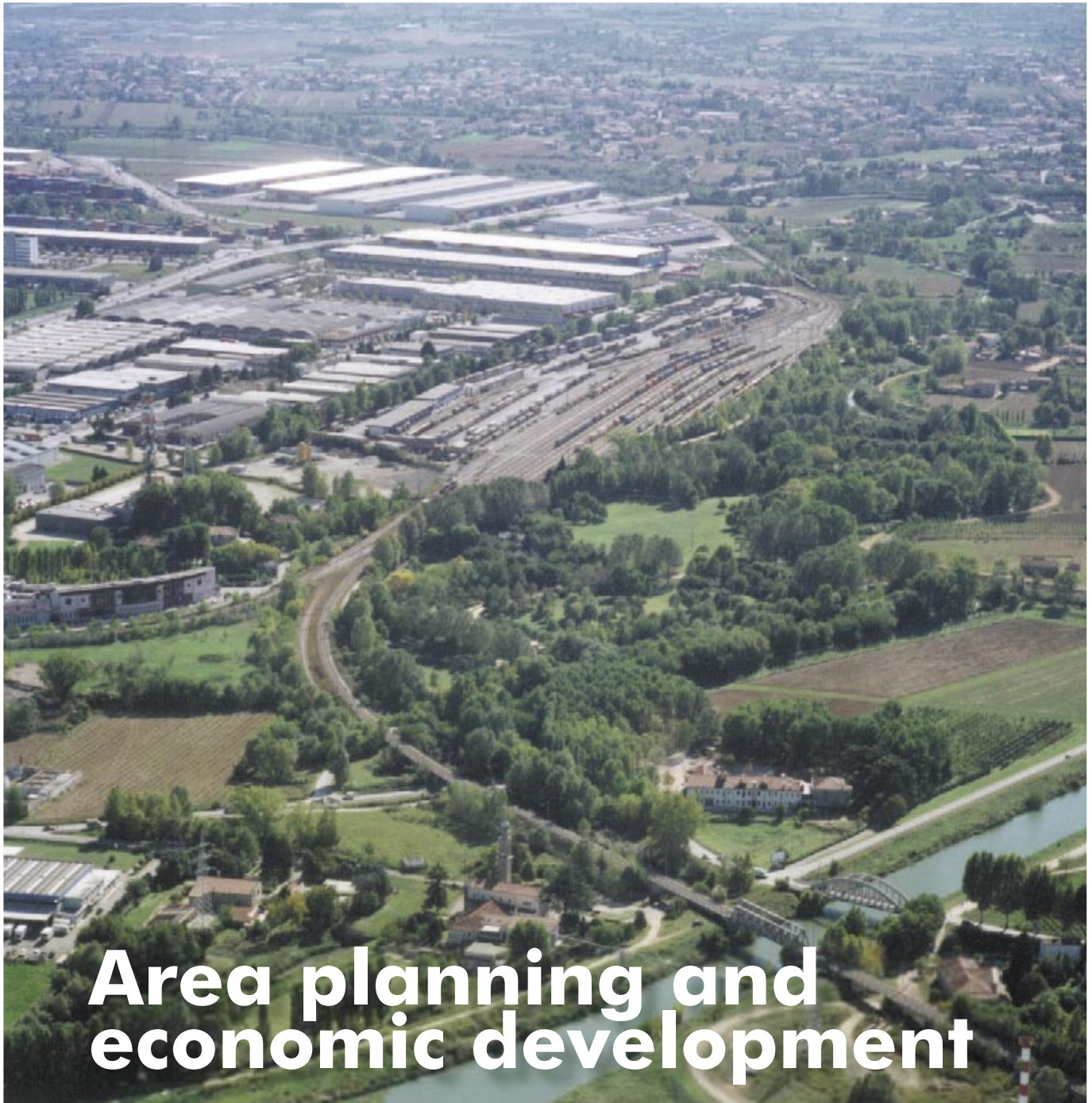


SIAM – Sustainable Industrial Area Model



**Area planning and
economic development**



PROVINCIA DI ROVIGO



INIZIATIVE IMMOBILIARI
INDUSTRIALI



UNIVERSITA' DEGLI STUDI
DI PADOVA



COMUNE DI PADOVA



CONSORZIO ZONA INDUSTRIALE
E PORTO FLUVIALE DI PADOVA

**Development and experimentation
of a sustainable production area model**

SIAM – Sustainable Industrial Area Model



Main objectives of the SIAM project

- integration of the principles of sustainability – from an economic, social and environmental viewpoint – in the set-up, management and re-qualification of production areas
- development of innovative methods, based on a preventive approach, to reduce environmental impact and encourage development of clean technologies in these areas
- promotion of on-going improvement of environmental performances, overall in the entire production areas, and individually, in single local enterprises, with special attention to small and medium enterprises
- development of a climate of co-operation and effective relations among local authorities, citizens and industry, above all for adopting area lay-out Plans
- creation of favourable conditions for increasing employment, and for training new professional positions able to plan and manage the production areas.

These objectives will be pursued through the definition and application of a Sustainable Industrial Area Model, based on the use, adaptation and integration of three different EU environmental policy instruments: strategic environmental evaluation (SEE), according to Directive 2001/42/CE; EMAS according to Regulations 761/2001/CE; Environmental accounting and Free Access to Information about the Environment, according to Directive 90/313/EEC.



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The total cost of the SIAM Project is about 2,500,000 Euros. The EU's percentage of support will be 49%.

**SIAM is promoted by
ENEA and is supported by
LIFE ambiente**



LIFE AMBIENTE

The **LIFE** programme is the European Union's financial instrument for the environment. Its main objective is to contribute to the development of innovative techniques and methods through co-funding of experimental projects.

The LIFE Regulations define five intervention sectors:

- planning and best use of the territory
- management of waters
- impact of economic activities
- waste management
- integrated policy for products

Its contributions are aimed at both physical persons and bodies corporate (companies, local bodies, NGOs) established in the EU member states, but LIFE is also activated for the benefit of some other countries: those on the Mediterranean and Baltic coasts, and those of Central and Eastern Europe which are candidates to join the EU.

A key role is given to the dissemination of the results, in order to guarantee broad practical application of experimented environmentally friendly technologies.

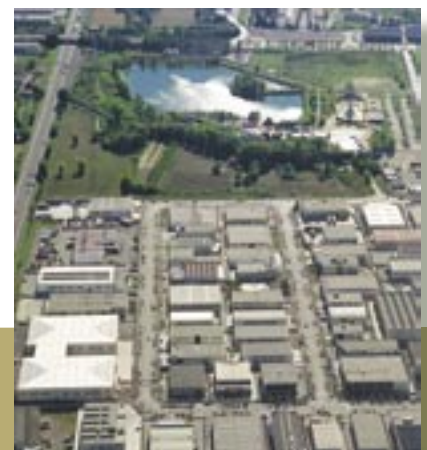


ENTE PER LE NUOVE TECNOLOGIE
L'ENERGIA E L'AMBIENTE

ENEA is an Italian public body which operates in the sectors of energy, environment and new technologies in support of the policies of competitiveness

and sustainable development.

ENEA also co-operates with the Regions and local administrations to promote the development of production enterprises in the territory, through joint initiatives.



The duration of the SIAM project is 36 months (from 1st October 2004 to 30th September 2007). The specified work time commitment is over 7,200 man-days.

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ENEA'S Partners in the SIAM project

(ps = private structure; pb = public body; pi = public institution)

- ▶ IGEAM srl - Services and studies for sustainable development (ps of Rome - www.igeam.it)
- ▶ CRF srl - Targeted Research Co-operative (ps of Tuscany, Viterbo)
- ▶ ECO LOGICA srl (ps of Bari - www.eco-logicasrl.it)
- ▶ MONGRANDO MUNICIPALITY – Biella (pb - www.comune.mongrando.it)
- PADUA MUNICIPALITY (pb - www.comune.padova.it)
- PADUA INDUSTRIAL ZONE AND RIVER PORT CONSORTIUM (pi - www.zip.padova.it)
- PADUA UNIVERSITY (pb - www.cesqa.it)
- ROVIGO PROVINCE (pb - www.provincia.rovigo.it)
- INIZIATIVE IMMOBILIARI INDUSTRIALI spa (ps of Arquà Polesine, Rovigo - www.itre.it)
- ▶ CONSER scarl - Services consortium of 1st Industrial Macrolot of Prato (ps - www.conser-prato.it)
- ▶ SERVIZI ALLE IMPRESE srl (ps of Prato)
- ▶ FERENTINO MUNICIPALITY – Frosinone (pb - www.comune.ferentino.fr.it)
- ▶ CONSORTIUM FOR THE INDUSTRIAL DEVELOPMENT OF FROSINONE (pb - www.consorzioasifr.it)
- ▶ FROSINONE PROVINCE (pb - www.provincia.fr.it)
- ▶ SCIENTIFIC AND TECHNOLOGICAL PARK OF SOUTHERN LAZIO (ps of Latina - www.pst-palmer.it)
- ▶ DEPARTMENT OF MECHANICS, STRUCTURES, ENVIRONMENT, AND TERRITORY University of Cassino, Frosinone (pi - www.cesqa.it)
- ▶ CONSORTIUM FOR THE INDUSTRIALISATION NUCLEUS OF RIETI-CITTADUCALE (pb - www.consorzioindustriale.com)
- ▶ INNOVATION AND DEVELOPMENT CONSORTIUM OF MAIELLA (pi of Orsogna, Chieti - www.consorziocism.net)
- ▶ MOLFETTA MUNICIPALITY – Bari (pb - www.comune.molfetta.ba.it)



SIAM involves eight industrial areas, located in six Italian regions: Piedmont, Veneto, Tuscany, Lazio, Abruzzo, Apulia.

SIAM – Sustainable Industrial Area Model

The SIAM project is split into seven stages, some of which are subdivided into sub-stages.



The Veneto partners

- The **Padua Municipality**, with its 210 thousand inhabitants, has in a few years changed from a small town to a medium–large city, however suffering from the problems of high pollution and commuting. In 2001 it adopted the Agenda XXI project, according to which it elaborated the new environmental urban scheme for the city of Padua. In connection with the SIAM project, it is responsible for the activities regarding stages 4.1 and 4.2 (experimentation of the model) for the industrial area of Padua. It also co-operates in the results dissemination task (task 7).
- **Padua University** co-operates in stages 4.1 and 4.2 of SIAM (experimentation of the model) for the industrial area of Padua. It also co-operates in the activities of task 7 (dissemination of results). To this end it makes use of CESQA (Centre for Studying Environmental Quality), a research group of the Engineering Department specialising in the management of quality, environment, health and safety, in sustainable development, and live cycle studies. Some of CESQA's important projects – very close to the theme of this project – were Agenda XXI, EMAS certification for the Bibione tourist site and the PHARE programme.



- The **Padua Industrial zone and River Port Consortium** (which designed and created a production area of 1,050 hectares in the municipality) is responsible for SIAM task 2.1 and must carry out a survey of industrial areas in Italy and the EU. The scope is to identify areas equipped with infrastructures which have put in place specific measures for reducing pollution and, if possible, are managed by an organisation that partially or wholly represents local firms. The Consortium will then be involved in task 4.1 (experimentation of the model) concerning the Padua industrial zone and its urban development.

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● The **Rovigo Province** – which elaborates the provincial territorial co-ordination plan, establishing the different uses of the territory, the localisation of infrastructures and the communication networks, the hydrological and hydro-geological organisation of nature parks – is responsible for the activities concerning stages

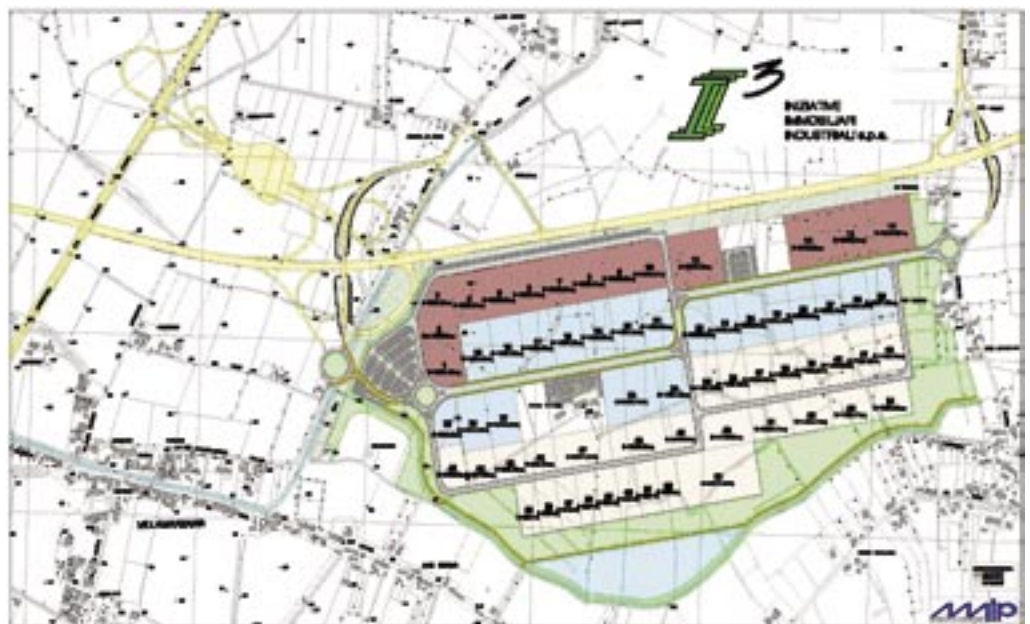
4.1 and 4.2

(experimentation of the model) regarding the Rovigo industrial area.

As part of the SIAM project, the province also co-operates in the task for disseminating its results (task 7).

● **I3** is a company that includes the Province and the Rovigo Chamber of

Commerce. These entities are interested in fully creating an industrial area equipped with high-tech infrastructures on the border of the municipalities of Villamarzana and Arquà Polesine. This will enable the experimentation of the model specified in the SIAM project, in an area yet to be equipped (task 4.1 and 4.2). I3 will also be involved in task 7 (dissemination of results).



The production zone which is being constructed in the Rovigo province, right on the crossroads between the A13 Padua–Bologna motorway and the Transpolesana (across–Polesine road) will occupy an area of 1,400,000 sq.m. Over 310 thousand will be set aside for greenery and 87 thousand for car parks. The I3 company proposes it as “Veneto’s most innovative industrial area”.

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The Consorzio ZIP has constructed on over 1,050 hectares in Padua, the largest 'continuous format' industrial zone in the North-East under joint management. Over 1,400 companies are established there. The zone is served by a railway junction, 2 motorway toll-gates, and a 30 km optic fibre loop. 18% of its territory is assigned to greenery. All these are excellent presuppositions for experimental verification of the SIAM model.

How the project will be executed

The central activities (actions concerning studies and research, definition of models, drafting guidelines, etc.) will be carried out by a **Technical Committee** which will assist the **project manager** and will coordinate the activities of the **Local committees** (experimental actions).

Every local Committee will refer to an industrial area and will consist of the representatives of the relevant local authority and/or of the organisation which manages the area, and will be assisted by a consultancy **Forum** which will include all the interested parties.

At the initial stage of the project, the Technical Committee will conduct a preliminary study of the ecologically equipped areas, will identify the relevant requirements, and **will then define a model of a sustainable industrial area.**

The model will then be tested by the local Committees, responsible for conducting the project's experimental task, and – according to the results of the experimentation – a specific **guideline** will be produced.

To satisfy the need for **new professional positions able to sustainably plan and manage an industrial area**, specific courses will also be organised and certified.

All the results will be widely diffused both in Italy and the EU, and the model could be subsequently tested in countries due to join the European Union.

Some of the projects' partners and local firms intend to obtain **EMAS registration**, thus making it possible to assign practical evidence and solidity to the project.



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LIFE AMBIENTE



Beneficiaries of the SIAM project

- local bodies at the definition stage of their Territorial Set-up Plans
- bodies for production sites (CIP) and for sustainable town planning
- companies sited in production areas which make use of benefits in managing environmental and energy problems
- private citizens interested in becoming specialists in sustainable planning and management of industrial areas



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