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INTERVIEW

SUSTAINABLE CONSTRUCTION: THE PROVINCE OF SAVONA PROJECT LEADER "SCORE"

Angelo Vaccarezza
President of Savona Province

The province of Savona from years promotes the sustainable housebuilding, the energetic saving and the production of energy from renewable sources through different initiatives and European projects.
Between these retailed a strategic importance the European project "Score" of whom the Province of Savona is leader.
The initiative includes the promotion of sustainable energy policies in the construction sector in the Mediterranean coastal and rural areas with exceptional landscape values using elements of traditional construction combined with innovative technologies.

The most innovative experiences defined by European local groups will be presented in Savona, where the final will be hosted the international meeting in the fall of 2012.
The main contents include the construction of common guidelines for policies that encourage the use of bio-architecture to make new buildings energy efficient and to adapt existing buildings with particular regard to public and historical value.

In this regard, as in other countries, the project partners, the province coordinates the focus groups involving local municipalities, associations, companies, professional bodies and academics who collaborate in the development of the project.
The results of this work are disseminated through specific communication activities, including the creation of a dedicated website that provides a platform for sharing and exchanging experiences between international actors.
The goal in the institutional order is to have a framework of rules and regulations adapted to promote and encourage sustainable construction.

I am particularly pleased with this project which will see our province at the forefront of supporting interventions that aim at saving and energy efficiency. The project results will provide concrete tools and opportunities for businesses in the construction industry and useful citizens.

In fact, a major cause of rising global temperatures is represented by the energy consumed in residential construction that absorbs its own almost 30% of national energy consumption.
While the concept of energy saving and energy production from renewable sources are developed in the Nordic countries, particularly in Germany, countries like Italy, Portugal, Spain, France, Slovenia, Cyprus and Greece that have a view over the Mediterranean climatic conditions more favorable, especially for the exploitation of solar energy, still suffer from a certain delay that must be recovered as soon as possible.

The practice of sustainable construction must therefore become a cultural phenomenon shared by new forms of communication that reaches citizens as the website of the SCORE project, which will run from October.

They are also already been launched information campaigns aimed at public institutions, schools, citizens and businesses that acquire greater awareness of the importance of reducing energy consumption to benefit the environment and saving on energy bills each.

Sustainable Construction in Rural and Fragile Areas for Energy efficiency

Project cofinanced by
European Regional Development Fund
med L'Europe en Méditerranée Europe in the Mediterranean

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EXPERIENCES

THE TEACHING OF THE SUSTAINABLE APPROACH EXPERIENCES "LEARNING BY DOING"

The teaching of the sustainable approach to the project, in a region such as Liguria, should allow the future technicians (architects, engineers and other professionals) to compete directly with the landscape features, natural, social and cultural of a rich and complex context. In most cases, however, during the training of architects and engineers are not given any chance to test what actually happens in the transition from project to its realization.The two initiatives "learning by doing" summarized below, both developed by the Faculty of Architecture of Genoa, show the ability to make students direct experience of concepts such as respect for natural materials and resources, recovery of local historical building technologies and participation.

POTENTIAL FOR TRANSFERABILITY

It is believed that such experiences, however made with limited resources and costs and based mainly on the concrete commitment of teachers, students, administrators and interested citizens, are easily reinventing into coastal areas and interior MED area and can significantly contribute to diffusion of a culture of sustainable intervention in areas of high complexity.

RICICLAB

RICICLAB (Recycling Laboratory), born from an idea of Prof. Rossana Raiteri of the Faculty of Architecture of Genoa, is a workshop that begins to work from the moment in which the context has a requirement that can be satisfied with the intervention of a small group of student volunteers, with the cooperation of the concerned citizens and with the supervision and guidance of some teachers and graduates as senior.

The main objectives of RICICLAB are:
- motivating students, citizens and local authorities to the issue of sustainability using mainly recycled materials and producing "zero cost" objects;
- allowing students to gain awareness of the whole construction process of a small building into a complex context;
- promoting the participation of citizens;
- underlining what can be produced by a creative collaboration between University and local authorities, in a critical moment for the lack of resources for both.

The experience started with RICICLAB is the thesis of Riccardo Rossi and Amedeo Scofone: it's the redevelopment of an urban area on the seaside promenade of Genoa Pegli, realized with the participation of other students and users, mainly retirees, who have worked directly providing their own work previous experience as blacksmith or bricklayer, acquired in previous employment. The project, supported by technical and communal, has been realized entirely from recycled materials.

APPLICATION LABORATORY OF NATURAL ARCHITECTURE

In 2009, students of the course of History of Technology of professor Massimo Corradi were hosted at the CentroAnidra for the experimental application of bioengineering techniques. Through the year, students have designed accommodation types of soil stabilisation that they have realized during summer. It's been a successful experience for students who were able to test the project during construction, and also for the soc. agrarian Anidagri that pursues sustainable living practices.

The ligurian landscape is entirely man-made also at high altitude; an ensemble of small signs (cribwalls, riverbank protection, brush layers, dry-laid stone walls) defines a system of flood control and containment of the slopes which, together with crops trees (chestnut, olive, etc..) conserves the environment from erosion and landslides. The abandonment of decades has made this landscape - which is only apparently natural - very fragile.

The recovery of the rural park, in accordance with its landscape values, can be realized only maturing a proper ability to read the signs that man left in the area for centuries and that the territory has demonstrated to "sustain" and through a group of small works realized in accordance with the naturalistic emergencies, recovering a longstanding culture of environmental management that is going to be forgotten (in danger of being forgotten).

Experiences such as this one described contribute to keep alive and to spread this culture.

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EXPERIENCES

SUSTAINABLE MEDITERRANEAN CONSTRUCTION: CASE STUDY: FORT D'ENTRECASTEAUX

ACTA VISTA (www.actavista.fr) is an association specialized in the restoration of built heritage that serves as a basis for its action in favour of the professional integrating and training of people in heritage and construction-related trades.
Our teams of site foremen/training officers, work supervisors and managers have been trained in the use of natural materials such as hemp and lime for the purpose of insulating old buildings, and particularly historical monuments made of freestone or other material. Our first experience came with the development of our activity premises in Fort d'Entrecasteaux, where we have our registered offices. We aim to restore over 1,220 m² using this insulating principle based on fillers and hemp-based concrete.

This process is the result of an energy audit carried out in view of achieving a superior energy performance

What is the surface area consumption for the renovated building?
(in kWh / m2 / year)

Existing theoretical consumption

Usable requirements=
101,233 usable kWh / year
that is
166 usable kWh /m2 / year

Future theoretical consumption

Usable requirements=
36,367 usable kWh / year
that is
60 usable kWh / m2 / year

The development work concerns the first part of the professional integration and training centre with the creation of technical and hosting workshops, flows, parking, sanitation, interview rooms in an existing listed building (Fort d'Entrecasteaux). These infrastructures will be used to welcome candidates sent to us by local prescribers and partners.

SITUATION	SURFACE AREA	YEAR OF COMPLETION
Indoor premises located in the crescent-shaped Dauphine area: (rooms for interviews, training, hosting…)	459 M²	June 2012
Indoor carpentry, timber frameworks workshop: (Beringhen bastion)	92 M²	June 2012
TOTAL	**551 M²**	

TYPE OF WORK INVOLVED

This professional integration centre will be adapted to, and fit into this listed site and will concern masonry, stone cutting, carpentry, finishings, electricity, plumbing, heating, telephony, low voltage networks and IT.

SUSTAINABLE DEVELOPMENT

The project is part of a sustainable development approach coordinated by the architect and project manager in collaboration with ACTA VISTA's sustainable development supervisor. With this in mind, a preliminary energy audit has been conducted by a heating engineer to enable the design office to include this data in their project (natural insulation, energy saving, use of environmentally friendly techniques and materials). The approach adopted by PRIDES* BDM** of which Acta Vista is a member, is being applied. A green project charter has been set up, and an action plan based on the ISO 14001 approach is also being applied.

*regional innovation, economic development and solidarity centre

** sustainable Mediterranean constructions

Acta Vista's project is a showcase for a comprehensive sustainable development approach combining its environmental impact through eco-construction and energy saving, its **social impact** through its professional integration and training vocation, its **economic and societal impact** through its contribution towards the development of employment and finally its **cultural impact** through the promotion of heritage.
In terms of impact on the public, the integration centre aims to:

- Welcome some 600 candidates
- Give 180,000 hours of training
- Train all salaried employees hired to work on our site in the trade of masonry applied to old buildings, and raise their awareness regarding eco-construction, energy efficiency and eco-citizenship.

HISTORY / HERITAGE - FULL FOCUS ON A SYMBOLIC MONUMENT

The professional integration centre is being created within a monument set on a strategic location on the south bank of the entrance to the Vieux-Port in Marseille, Fort Saint Nicolas, later rechristened Fort d'Entrecasteaux. The latter is a defensive building surrounded by two walls made up of ditches and bastions. Built between 1660 and 1664 by Louis Nicolas de Clerville, Brigadier and Commissioner General in charge of the fortifications, the fort was later altered slightly by Vauban. It was listed as a historical monument in 1969.

ENVIRONMENT - AN ENVIRONMENTAL EXAMPLE

The work carried out in line with sustainable development in view of achieving a superior energy performance and using materials that are environmentally friendly combined with ACTA VISTA's commitment as a sustainable development actor have enabled this project which aims to develop a professional integration centre within the fort to become an exemplary building within the region's AGIR programme, supported by the ADEME* (AGIR PREBAT : regional project: "100 exemplary low-energy consumption buildings in Provence-Alpes-Côte d'Azur").
*ADEME: Agence de l'Environnement et de la Maîtrise de l'Energie – Environment and energy efficiency office

PARTNERSHIP - AN INNOVATIVE local PUBLIC– PRIVATE – EUROPEAN PARTNERSHIP

is co-financing this integration centre work: 50 % by FEDER, European funds managed by the urban community, 20% by private funds (sponsorship) and 30% by public funds other than FEDER (the State, the Regional Council of Provence-Alpes-Côte d'Azur (PACA) and the General Council of the Bouches-du-Rhône (13).
This union of associations is recognized throughout the department for the quality of its work focused on professional integration and training, but also for its work and involvement in sustainable development, environmental protection, and the promotion and preservation of heritage sites.

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HIGHLIGHTS

ENVIRONMENT ROUND-TABLE & BUILDINGS: "Sustainable construction for Energy Efficiency in the Mediterranean" Friday, November 4, 2011 / 9:30 AM to 1:30 PM

Location : CCIMP Headquarters - Palais de la Bourse - 9, La Canebière Marseille, France

CCIMP is organising this event on Friday, November 4, 2011, in the framework of European funded SCORE project which aims to assist stakeholders involved in the Construction Sector and to support the implementation of the « French Building Plan »* in the Mediterranean area.

The aim is to highlight the specific constraints, such as climate conditions, of use and landscape integration related to the Mediterranean area :
- to demonstrate the potential of Eco-Innovation combining traditional construction & innovative "green techniques ",
- to highlight the Mediterranean Sustainable Buildings' process.

THE OBJECTIVE IS TO FAVOUR EXCHANGES BETWEEN INDUSTRIALISTS IN VIEW OF THEIR ANSWERING TO THE FOLLOWING QUESTIONS:
- What implementation for the Building Plan: challenges and deadlines of the round-table in terms of Mediterranean specifity ?
- Which are the sustainable buildings in the Mediterranean ?
- Which are the technical and innovative issues for Energy Efficiency in the Mediterranean?

Contact Marc Valentin - CCI Marseille Provence
The event is co-organised by CCIMP, the French Building Federation and Mediterranean Sustainable Buildings.

For SCORE project, the event will also be an opportunity to bring together members of the Focus Group, finalise a press release and report on the progress of the project.

* In France, the objectives of the «Grenelle Environment» Forum (Environment Round-Table) are ambitious: Reduce energy consumption by 38% and greenhouse gas emissions by 50% by the Year 2020.

It is therefore imperative to ensure the quality of all future buildings and to renovate existing assets.

To achieve this, a Building Plan is in force with following objectives:
1/ As from 2012, all new buildings need to be certified "low consumption" (BBC)
2/ As from 2020, all new buildings and homes to be certified "positive energy" i.e. producing more energy than their consumption.
3/ 1st Grenelle (Environment) Law set a yearly pace of 400,000 homes to be renovated by the year 2013,
4/ and, by the year 2020 further renvovation of 800,000 most energy-consuming social homes,
5/ before the end of 2012, initiate the energy renovation of all State and Public buildings.

INFO & CONTACTS

WEB
For further information about the Programme, project news, procedures and reference documentation visit:
www.scoremed.eu

MAIL
Please contact us: info@scoremed.eu

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Lead Partner
Province of Savona (ITALY)

Project Partners
- Region of South Aegean (GREECE)
- Read S.A. (GREECE)
- Official Chamber of Commerce, Industry and Shipping of Seville (SPAIN)
- Chamber Of Commerce and Industry Drôme (FRANCE)
- Local Energy Agency Pomurje (SLOVENIA)
- Rhône Chamber of Crafts (FRANCE)
- Cyprus Chamber Of Commerce and Industry (CYPRUS)
- Agência Regional de Energia do Centro e Baixo - Alentejo (PORTUGAL)
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- Chamber of Commerce & Industry Marseille Provence (FRANCE)