



# IPOGEA

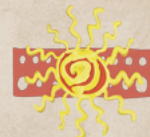
Research Center on Local and Traditional Knowledge

## CURRICULUM AND METHODOLOGY



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## CURRICULUM AND METHODOLOGY

IPOGEA

Research Center on Local and Traditional Knowledge

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[www.ipogea.org](http://www.ipogea.org)

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## main activities

1993-2017

Ipoqea was founded in Matera (Italy) in 1993, when the initiatives for the inclusion of the Sassi of Matera in the UNESCO World Heritage List were undertaken. It was situated in a monumental complex in the Sassi, granted by the Ministry of Cultural Heritage and the Ministry of Finance to enable activities enhancing the cultural heritage and promoting the international role of the Sassi in connection with the area's inclusion in the UNESCO World Heritage List.

Ipoqea is now established also in Florence, with an office located in via Roma 595, Bagno a Ripoli (FI), Italy.

Pietro Laureano, director and coordinator of Ipoqea, was the author of the insertion of the Sassi in the UNESCO World Heritage List. He is also responsible for the inclusion of Italy's Cilento National Park, with the archeological sites of Paestum and Velia, in the list of World Heritage Sites. He was a member of the UNESCO team that developed the master plan of greater Petra (Jordan), and he is team leader of the UNESCO campaign for the preservation of the archaeological monuments of Lalibela (Ethiopia).

He is the promoter, coordinator and project manager of the archaeological park of Gravina in Puglia, and has designed plans for important archaeological sites and parks on the Italian and international levels. He is the author of the methodology for the implementation of management plans of UNESCO sites.

Ipoqea is recognized by the European Union as possessing the highest degree of excellence in the protection and enhancement of European Cultural Heritage, it has been an associate member of ICCROM (International Centre for the Study of the Preservation and Restoration of Cultural Property) and it executes projects for the World Monuments Found.



Ipogea is currently engaged in activities in the following fields:

- Master plans of parks and archeological sites;
- UNESCO World Heritage List management plans;
- Soil protection;
- Sustainable management of water resources;
- Application and dissemination of traditional techniques;
- Protection and enhancement of landscape;
- Landscape planning;
- Environmental restoration;
- Sustainable development;
- Ecosystem protection;
- Dissemination of know-how and capacity building;
- Enhancement of world heritage and cultural identity.

Ipogea is experienced in management of multilateral activities, in programs for developing countries and in co-ordination of multidisciplinary groups of international experts. It also organizes exhibitions, forums, seminars, workshops, courses and internships. It has carried out the scientific coordination of three major European projects, and it is working for the UNDP Morocco on the study of an area of desert land and the creation of an eco-museum.

Ipogea's general management approach is to encourage the full development of local skills and resources, and to inventory and enhance local archaeological, historical, environmental and traditional values. To this end Ipogea and UNESCO have hammered out a methodology for the classification of local values (SITTI - Iconographic System of Traditional and Innovative Techniques) and the creation of readily accessible archives and data banks (TKWB - Traditional Knowledge World Bank) that allow the memory and values of specific places to be preserved, and that provide operational tools for the organization of territorial parks.

This system, based on a GIS (Geographic Information System) platform and on Google Earth, is a powerful tool for planning and permits the creation of:

- An easily accessible interactive database of all available documentation;
- A numeric chart of archaeological values;
- Compound maps for the organization of parks;
- Scenarios and future projections for stakeholders and public officials;
- Web-based interactive itineraries for the development and enhancement of tourism.



## Ipogea's activities of management and coordination of projects

The restoration and organization of a sustainable town with the use of traditional materials, water-harvesting systems and passive architecture was achieved by Ipogea in the Sassi of Matera, a troglodyte town on the UNESCO World Heritage List. The successful recovery of the whole historical heritage of the Sassi of Matera, an area completely deserted by its inhabitants in the '60s, was made possible thanks to a pilot restoration program.

Italy is re-proposing a similar experience in the Kasbah of Algiers with a Training Initiative funded by the Italian Ministry of Foreign Affairs and entrusted to Ipogea.

In the field of landscape, the Italian Ministry of Universities and Research (MIUR), within the framework of the National Operational Project RIADE, funded analysis and re-proposition of traditional techniques and their innovative use to safeguard territory; the project was carried out by Ipogea on behalf of ENEA (Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile).

Ipogea is coordinating two projects, funded by the European Union, concerning water-management techniques in 10 Mediterranean countries (*Foggara*, Inventory, Analysis, and Valorization of Traditional Water Techniques of European and Saharan Catchment Tunnels and *Shaduf*, Traditional Water Techniques: Cultural Heritage for a Sustainable Future). Further projects, involving Asian countries, will join these.

*Foggara* and *Shaduf* have already attained significant results. The studies will provide the first detailed framework of these techniques and appropriate methods for their recovery and dissemination. Specific surveys of terracing systems were carried out in Italy and all over the Mediterranean. The results have been published in *La cultura dei terrazzamenti* (The Culture of Terracing Systems), a study carried out by Ipogea together with Italia Nostra.

Pilot projects in landscape restoration with the technique of terraced walls are being carried out in the small towns of Palagianello and Grottaglie, in the Italian region of Apulia. Following this experience the region of Campania will draft a law safeguarding and funding the terracing systems, and some European Parliament members have offered to pose the issue to the European Union.

Italy, through Ipogea, has contributed to the drawing up of the Environmental Kit to Combat Desertification, for use by teachers and students of primary schools in desertification-affected countries, developed by UNESCO's MAB (Man and the Biosphere) Programme, in collaboration with the UNCCD Secretariat.

The importance of activity concerning traditional knowledge received acknowledgement from NATO, which underscored the affirmative role of traditional knowledge in the mitigation of conflicts caused by environmental disasters and migratory flows.

In 2004 NATO granted Ipogea an award as coordinator of the project, *Combat Desertification with Traditional Knowledge – A Contribution to Euro-Mediterranean Security*.

**Pietro Laureano - Coordinator of IPOGEA**

[www.laureano.it](http://www.laureano.it)

Pietro Laureano, an architect and urban planner, is a UNESCO consultant for arid regions, water management, Islamic civilization and endangered ecosystems.

He lived eight years in the Sahara, engaged in the study and restoration of oases in Algeria. In numerous essays and books published since the late 1980s, he has demonstrated that oases are the result of human ingenuity, and that they represent a heritage of technical knowledge to combat aridity

and a model of sustainable management for the entire planet. He has coordinated and managed projects based on the recovery of the ancient techniques of water harvesting systems with various international organizations throughout the Mediterranean, and in Yemen, Mauritania and Ethiopia. In particular, he has rebuilt the water systems of Petra, in Jordan, contributing to the UNESCO plan for 'Greater Petra', and restored canals and drainage systems in the monolithic town of Lalibela, Ethiopia, as team leader of the UNESCO and World Monument Fund (WMF) projects. He is currently producing an oasis eco-museum for the kingdom of Morocco and a publication that aspires to launch a worldwide appeal and to promote an alliance between Arab countries for the protection of oases.

He is the promoter of the recovery of the troglodyte city of the Sassi of Matera in southern Italy, which had been completely abandoned in the 1960s. To this end he spent ten years in the Sassi of Matera, living in caves he restored using traditional methods and recovering prehistoric systems for the collection of rainwater and methods of passive cooling. He is the author of the reports that led to the inclusion of the Sassi and the Cilento Park on UNESCO's World Heritage List and has contributed, with his example and activities, to the model of success achieved in these two areas in relation to the recovery of urban ecosystems and the preservation of landscape.

He is founder and coordinator of Ipogea, Centre for Studies on Traditional Knowledge, a non-profit organization based in Florence and Matera that carries out projects to preserve landscape through the use of ancient systems such as dry stone terraces, water harvesting cisterns and catchment tunnels.

He is part of the work group responsible for drafting the new UNESCO Landscape Convention. As Italian representative on the Technical-Scientific Committee of the United Nations Convention to Combat Desertification (UNCCD), and as Chairman of the Panel for Traditional Knowledge, he has promoted the creation of a World Bank of Traditional Knowledge and its Innovative Use ([www.tkwb.org](http://www.tkwb.org)). This initiative is being pursued with UNESCO through the creation of the International Traditional Knowledge Institute (ITKI), based in Florence, which will have a decisive role in shaping the new Landscape Convention.

His numerous publications and his work in general have been widely reported in the international press.



### **Panaiotis Kruklidis - Collaborator of IPOGEA**

Is an eclectic and multiforme enthusiastic architect of Cultural Heritage, illustration and graphics computer. Graduated at the University of Florence as an architect and researcher in the archaeological field, he increase passion for archeology after visiting the ancient ruins of Mycenae in 2005. Since then he took part of his studies between skills of architectural and archaeological. His knowledge, however, is not only a result of "classical" studies, but also the result of various travels abroad for work, with participation in museum projects, archaeological investigations, excavations and archaeological reliefs, to study the places of history and myth. He has many collaborations with the University of Florence as a tutor and lecturer at the Faculty of Architecture and the Faculty of Letters as a collaborator of the scientific team, and ETT Solutions, Noè Multimedia Srl, Itinerary Bruttii and MummuAcademy. In the museum sector he took part on the projects MUSINT and MUSINT II; graphic and illustrative design of the panels and guide of the Museo Brettii e del Mare; to the realization of the reconstruction of the fortified medieval hill of Montecastrese for the Museum of Camaio; in publishing and reconstructing panels for the Vatican Museums and the Museo profano Gregoriano; illustrations for the Archaeological Park of Francavilla; in designing and creating the contents of Eco Center in Al Ain in the United Arab Emirates. He also collaborated with publishers Fabula, Iiriti, and FUP as part of the scientific publications.



### **Niccolò Robucci - Collaborator of IPOGEA**

Extroverted Landscape Architect, graduated at University of Florence. He has developed the passion for Cultural Heritage and the Arida Zone completed by the degree thesis "Oasiscape: itinerary and visitor center for the UNESCO site of Al Ain (UAE)". Since then, thanks to numerous working experiences abroad with participation in architectural projects, museums and applications UNESCO, has specialized his knowledge, despite his young age, becoming an Oasis expert and an ICOMOS member. He has collaborated on UNESCO's report on the inscription of the Hasa oasis (Saudi Arabia) to the UNESCO World Heritage List, to the Concept Design for the conservation, interpretation and the infrastructural and tourist adaptation of the oases of Hili and Qattara (UAE), to the design and supervision of the works of Oasiscape: itinerary and visitor center, contents and design Al Ain (UAE); design a new narrative for the World Heritage Site as the oasis-city model of Al Ain (UAE); design at Al Ain's Quick Win Project: Landscaping, Eco Museum and Visitor Center; Environment World Heritage Sites of Al Ain (UAE).



**IPOGEA**

**CENTRO STUDI ITALIANO  
SULLE CONOSCENZE TRADIZIONALI E LOCALI**



**ITALIAN ACTION IN SUPPORT OF THE UNITED NATIONS CONVENTION TO COMBAT DESERTIFICATION**

*NATIONAL FORUM  
ROME JUNE 1997  
INTERNATIONAL FORUM  
MATERA JULY 1996*

BY  
MINISTRY  
OF ENVIRONMENTAL



UNCCD



**ITALIAN ACTION IN SUPPORT OF THE UNITED NATIONS CONVENTION TO COMBAT DESERTIFICATION VOLUME II**

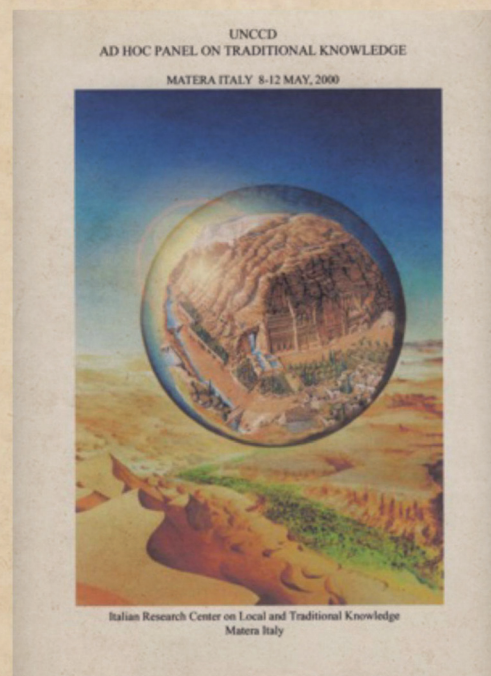
*INVENTORY OF TRADITIONAL  
AND LOCAL KNOWLEDGE  
SECOND INTERNATIONAL FORUM  
MATERA OCTOBER 1998*



**MATERA ITALY 5 -18 JULY 1999**



UNCCD



**MATERA - ITALY 8 -12 MAY 2000**

**AD HOC PANEL MEETING ON TRADITIONAL KNOWLEDGE  
UNCCD - LOTTA ALLA DESERTIFICAZIONE E AL DEGRADO DEI SUOLI**





# FOGGARA INVENTORY, ANALYSIS AND ENHANCEMENT ON TRADITIONAL WATER TECHNIQUES

Author: IPOGEA

RESEARCH CENTRE ON LOCAL AND TRADITIONAL KNOWLEDGE  
MATERA (ITALY)

**Foggaras** are traditional systems of water catchment and distribution typical of arid and semiarid areas. The general aim of the project is the better understanding of the characteristics and the functioning of foggaras within European and Maghreb countries in order to enhance them both as World Heritage and as an efficient way of water production guaranteeing the proper management of water resources and the ecosystem preservation. In particular in Italy, Spain, Morocco, Algeria and Tunisia research relies on theoretical basis and on experimental surveys on field:



inventory of existing drainage tunnels; analysis of their functioning and methods of realization; causes of persistence or abandonment; study on restoration and maintenance methods; potentialities for re-using and reintroducing foggaras.

The project provides an understanding of the link between traditional water management techniques and environmental/social issues: water is not a mere commodity, but a socially constructed concept of cultural significance. The local knowledge offer a wide range of solutions to be safeguarded and that can be reused, adjusted and renewed thanks to modern technology.

**Italy**  
IPOGEA - Matera

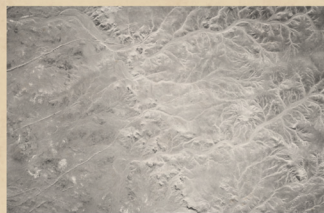
**Spain**  
University of Valencia,  
Department of Geography - Valencia



**Partnership:**

**Algeria**  
Société Sud Timmi - Adrar

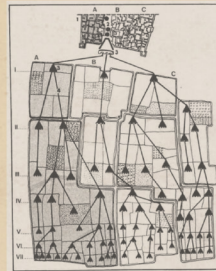
**Morocco**  
University Moulay Ismaïl - Meknes



**Tunisia**

Institut des Régions Arides - Médénine

**Algeria**  
Ecole Polytechnique d'Architecture et  
d'Urbanisme d'Alger - Algiers



**European Project Details**  
Foggara  
ICA3-CT2002-10029  
Inventory, analysis and enhancement  
of traditional water techniques of European  
and Saharan drainage tunnels

**Co-ordinator:**  
Pietro Laureano  
**Co-ordinator's affiliation:**



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EUROPEAN COMMISSION  
5<sup>th</sup> FRAMEWORK PROGRAMME





## INTERNATIONAL ACTIVITIES AND COMMITMENTS

### UNESCO

**2011** - Mission and elaboration of the report "Improvement of human waste management in Petra" in the framework of UNESCO's Major Program IV, Culture, and notably its Main Line of Action (MLA) 1, "Protecting and conserving immovable, cultural and natural properties, in particular through the effective implementation of the World Heritage Convention"

**2003** - Assistance to Mauritania government to the *Management Plan of Azougui cultural landscape*.

**2003** - Restoration of traditional water works into M'Zab Valley (Algeria) and organization of a training workshop on the management of the site.

**2002** - Pointing out of an indicative list of Algerian sites to candidate to the insertion into the World Heritage List. Organization of a national work team leading the choice and the proposal of the sites.

**2002** - Assistance to Mauritania government to the elaboration of the dossier for the insertion of Azougui cultural landscape into the Humanity Heritage List.

**2001** - Restoration project of some historical monuments at Harar (Ethiopia).

**1998**- Executive project of the initial phase of Lalibela (Ethiopia) hypogeum complex restoration.

### UNESCO- WMF

**2009** - Restoration project of the complex of Lalibela "*Conservation action plan for the rock hewn churches of Lalibela. Monitoring System for Biet Gabriel Refael*".

**2007** - Restoration project of the complex of Lalibela "*Safeguard of Lalibela, Ethiopia, by recovery of its ecosystem*".

### ICCROM

**1996** - Coordination of the participation of Algerian archaeologists to the Excavation Campaign in Gravina di Puglia.

**1994** - Organization of the seminar "ARC COURSE" in Matera, concerning the monitoring and the development strategies for the Sassi. Five years after the inscription on the World Heritage List, the series of seminars that are being held provides a record of the current state of conservation in the Sassi.

### UNCCD

**2008-2009** - Pilot project for the restoration of Timimoun, Algeria : "*Projet pilote de restauration des Foggaras dans la Sebkhia de Timimoun avec les techniques traditionnelles et leur usage innovateur*".

**2001** - *ITKnet : Innovative Traditional Knowledge Network*. The project aims at setting up a network of institutions, bodies and experts on traditional knowledge hereinafter referred to as ITKnet

**1999-2000** - In the framework of the activities foreseen by PAN (National Action Programme), Organisation and co-ordination, for the UNCCD Secretariat, of two meetings of the ad hoc Panel on traditional knowledge, held in Matera (Italy) respectively in July 1999 and May 2000.





## ICOMOS

**2010** - Technical evaluation mission report on “the Land of Caves and Hiding in the Judean Lowlands – Maresha, Bet – Guvrin and Adulam”, Israel

**2008** - Assessment of the candidature of Shusthar, Iran

**2005** - Assessment of the candidature of the Aflaj Irrigation System in Oman

**1999** - Assessment of the candidature of the walled city of Ibiza and of the sea reserve Park for the insertion into the World Heritage List.

**1997** - Study of the state of preservation of the archaeological site of Butrinto in Albania. Into the framework of the initiatives led by the UNESCO World Heritage Center on the Albanian cultural heritage, assessment of the other cultural landscapes already included into the Indicative List

**1989** - Restoration of the archaeological area of the city of Tipasa (Algeria) and elaboration of its new Urban Restoration Plan

## EU

**2015** - Member of the expert’s roster in charge for the evaluation of projects submitted in the framework of EU Research Programs

**2014** - Evaluation of the Projects submitted to EC in the framework of INCO-MED PROGRAMME (VFP)

**2010-2013** - Coordination of the project *Knowledge, Health and Food for All - Advocacy campaign for a sustainable application of Intellectual Property Rights on development processes*, a study of the impact of Intellectual Property Rights (IPR) system on the development processes of Developing Countries with particular reference to: access to medical treatment and the right to health, agricultural systems and farmers’ rights, traditional knowledge and the collective rights of indigenous peoples on their own resources and biodiversity.

**2006-2010** - Coordination of MELIA project, *Mediterranean dialogue on integrated water management*. MELIA is a Coordinated Action (CA) aimed at the establishment of a strategic dialogue between research centres, governments, regulators, users and providers, in the field of Integrated Water Resources Management, one of the leading topics identified by the Monitoring Committee of the Euro-Mediterranean Partnership in Science, Technology and Innovation, as a key field for the sustainable development of the Mediterranean countries. The particular strategic objective of MELIA is to contribute to the improvement of the regional water planning and management under scarcity condition to enhance sustainable development in the Mediterranean region; the specific objective of MELIA is the fostering of dialogue and communication among its 45 partners, to build-up and share a common knowledge and awareness that is open to legislators, political deciders, water users and providers and citizens, and would contribute to the sustainable management of limited water resources in the Mediterranean, including by exploring solutions outside the water resources of the Mediterranean Basin, i.e. trade and tourism.

**2009** - Organization and coordination in Prague of the Forum “*ITKnet Innovative and Traditional Knowledge network for the proper use of natural resources*” that aimed at sharing the results of the European project Resourcenet, at strengthening and improving the existing network involving the new European member states, selecting pilot projects, creating a databank on traditional knowledge.



**2005-2007** - Coordination of the European project "*Resourcenet. Coordination of actions granted by EU and other international organisms to rational use of natural resources in arid and semiarid areas*"; 6th FP, INCO-Specific Support Action; Scientific measures in support of International Co-operation Mediterranean Partners Countries ( MPC).

The proposal aims at carrying out a coordination action among the most relevant ongoing projects concerning the rational use of natural resource in arid and semiarid Mediterranean areas by traditional techniques . "Foggara", "Shaduf", "Desertlink", "Wasamed", "Medcoastal" "Index" "Cledmes" are projects granted by UE. It is strong from all these actors the necessity of a coherent inventory of the ongoing initiatives as well as a discussion forum in order to harmonize and integrate terminology, methodology, objectives, indicators and plans of action. Such coordination work will foster the international cooperation and the convergence of European and Mediterranean research efforts for the rational use of natural resource in arid and semiarid areas; will contribute to the development of common and integrated approaches and strategies to the issue; will integrate research capacities currently existing and emerging in the framework of the various projects; will promote dissemination of information and exchange of experience among different working teams; will strengthen the complementarities of the different projects activities.

**2004-2007** - Scientific coordination of the INCOMED Project entitled *SHADUF Traditional Water Techniques: Cultural Heritage for a Sustainable Future*. The project aims to contribute to the development of a bank of information on traditional and indigenous technologies and to focus attention on the rich and diverse water saving, water irrigation and wastewater-related heritage in the Mediterranean region. It also aims to provide a model of how archaeological data integrated with historical information and traditional knowledge could create a new sense of awareness of the role of water and wastewater in society and nature, and to integrate a long-term understanding of water management with efforts to develop sustainable development strategies. The Mediterranean region provides a clear example of how water management has been inexorably linked with social, economic, and political history of the region. It also reveals the innovative ingenuity of human societies in the Mediterranean in face of climate change, and documents exchange of ideas and practices from one area to another within the region.

**2003-2009** - Coordination of the project *FOGGARA Inventory, analysis and enhancement of traditional water techniques of European and Saharan drainage tunnels*. The general aim is the better understanding of the characteristics and the functioning of foggaras within European and Maghrebian countries in order to valorise them both as World Heritage, as the whole of knowledge and as an efficient way of water production guaranteeing the proper management of water resources and the ecosystem upkeep. In particular, in two European countries, in Morocco, in Algeria and in Tunisia research will rely on theoretical basis and on on-site experimental surveys: inventory of existing drainage tunnels; analysis of their functioning and methods of realization; causes of persistence or abandonment; study on restoration and maintenance methods; potentialities for re-using and reintroducing foggaras.

**2003** - Coordination of the research activities in the framework of the Eumedis Project MEDINA – (MEDiterranean by INternet Access) - Thematic section "*Rupestrian civilizations*"

## NATO

**2004-2006** - Scientific coordination of the Project entitled "*Combating Desertification with Traditional Knowledge - A Contribution to Euro-Mediterranean Security*". The joint impact of human and natural causes of land degradation can pose a serious human influx from both Sub-Saharan Africa to North Africa and from the MENA region to Europe. Such a massive human movement is expected to bring about undesirable socio-economic transformations in the target countries on both shores of the Mediterranean Sea. One possible measure of alleviating such a movement is to help people in the Eastern and Southern Mediterranean



countries to better cope with drought succession by means of conserving land and water resources. In this context land degradation and desertification will be analyzed as a security issue for the environmental security dimension with a focus on the interactions between the human individual as a cause, contributor and a victim of global environmental change. As a human security challenge, desertification poses severe problems for food, health and livelihood security. Desertification is conceptualized as a manifold new security challenge that poses no military threats but environmental challenges, vulnerabilities and risks to the well-being, survival of individuals and national stability. This cooperation will bring together four natural scientists and a social scientists who focus from different disciplines on the security implications of desertification efforts. This unique interdisciplinary effort will most likely contribute to a policy agenda-setting of new soft security challenges.

### EXPOAGUA ZARAGOZA 2008

**2008**- Scientific director of the Pavilion “Thirst ” and its Catalogue.

### PNUD MAROC

**2009-2010** - Elaboration of a report on the oases in the world and drafting of a strategy for the organization of an International conference on the safeguard and sustainable development of the oases.

**2009-2010** - Elaboration of a project proposal for the establishment of an Ecomuseum of the Khettara of the Tafilalet, Morocco.

### INTERNATIONAL CENTER ON QANATS AND HISTORIC HYDRAULIC STRUCTURES

**2012** - Evaluating report for the first five years of performance of the International Centre on Qanats and Historic Hydraulic Structures

### ABU DHABI TOURISM & CULTURE AUTHORITY

**2017** - Concept Design for the conservation, the interpretation and the infrastructural and tourist adaptation of the oases of Hili and Qattara

**2016** - Oasiscape: itinerary and visitor center, contents and design

**2014 - 2015** - Historic Environment World Heritage Cultural Sites Of Al Ain: design a new narrative for the World Heritage Site as the model oasis-city; design a Quick Win Project of Al Ain: Landscaping, Eco Museum and Visitor Center; design a Quick Win Project of Al Qattara: Landscaping, Itineraries and Visitor Center December

### KINGDOM OF SAUDI ARABIA

**2016** - UNESCO report on the inscription of the al Hasa oasis to the World Heritage List UNESCO



## NATIONAL ACTIVITIES AND COMMITMENTS

### AATO LAGUNA DI VENEZIA

**2009-2011** - Coordination of the project “O.A.S.I. *Ottenimento di Acqua nel Sahara Interno attraverso il restauro delle tecniche tradizionali delle gallerie drenanti e la valorizzazione delle conoscenze degli antichi maestri locali*” funded by “Fondo ABC- Acqua Bene Comune”.

### ITALIAN FOREIGN MINISTRY

**2002-2007** - Planning, Coordination and realization of the project “*Training course on the restoration and the valorisation of the Algeri Kasbah through traditional techniques and their innovative use*”.

### ENEA

**2003** - Coordinator of the project “*Study of the relations between territory, traditional knowledge and use of natural resources and climate change in the whole territory between the Puglia and Basilicata Regions in order to prevent desertification in Italy*” in the contest of the project Riade – Integrated Research for the application of innovative technologies to combat desertification (MIUR National Operating Projects).

**2001** - Author of the report on the study “*Analysis of biodiversity factors of territories subjected to desertification and deterioration*”.

**2000** - Author of the feasibility study for the program to mitigate the desertification and deterioration phenomenon of the Murge in Lucania and Puglia.

### APAT

**2003** - Study for “*Realization of a Interactive database on Traditional Knowledge in order to combat desertification and drought in Italy*”.

### MUNICIPALITY OF MATERA

**1993** - Author of the report on the inscription of the Sassi of Matera to the UNESCO World Heritage List

### MUNICIPALITY OF ALTAMURA

**2001** - Integrated Sectorial Project- *Rocky Habitat Route On the footprint of Dinosaurs from the rocky settlements to the Byzantine crypt.*

### ITALIAN DEPARTMENT OF EDUCATION, SKILL, UNIVERSITY AND RESERCH

**1998** - Co-planning and coordinator for the project DIPARCH *Environmental Defence of the Architectural Heritage*. The acronym DIPARC stands for Environmental Protection of Architectural Heritage. It is a project funded by the Ministry of the University, of Scientific and Technological Research (MURST) in the framework of the Scientific and Technological Park of Basilicata (BASENTECH). It is a three-year project focusing on the experiments of restoration methods and conservation of architectural heritage and employs nine researchers who work at the office of IPOGEA.



### **BASILICATA REGION**

**1998** - Inventory of the Traditional techniques to combat desertification and soil deterioration in the Mediterranean area in the contest of the regional program to combat desertification.

### **SALERNO DISTRICT, MUNICIPALITY OF CAPACCIO, P.N. OF CILENTO**

**1996** - Coordination of the project to add "Capaccio Pestum. National Park of Cilento and Vallo di Diano" to the UNESCO World Heritage List.

### **NATIONAL PARK OF GARGANO**

**2000** - Author of the report on the addition of the National Park of Gargano to the Unesco World Heritage.

### **CAMPANIA REGION**

**2002** - Author of the report on the use of terraced fields in the Campania Region as a rural traditional technique for the safeguard and maintenance of environment and landscape.

### **MUNICIPALITY OF TARANTO**

**2003** - Coordinator of the activities for the addition of the Gravine of the Arco Ionico of the Taranto District to the Unesco World Heritage List.

**2000** - Integrated project for the cultural, environmental and economic valorization of the Rocky heritage of the Trulli in the Municipality of Ionica (1st phase 1995, 2nd phase 1998, 3rd phase).

**2000** - Author of the report on the project for the addition of the Gravine of the Arco Ionico to the Unesco World Heritage.

### **NATIONAL PARK OF CILENTO**

**2003** - Scientific and technical Consulting in the contest of the project STRABON- Multilingual and Multimedia Information System for the euro-Mediterranean heritage and tourism promoted by EU .

### **MUNICIPALITY OF GINOSA**

**2005** - Author of the report for the restoration of the Historical City centre of Ginosa.



## TEACHING ACTIVITIES

**1974-1978** - University lecturer of Gardens and landscape architecture by the School of Architecture of the University of Florence.

**1982-1985** - As an expert of the Development Cooperation Departments of the Italian Foreign Ministry, he become university lecturer of the Urban Planning post-graduation course at the Ecole Polytechnique d'Architecture et d'Urbanisme of the Algeri University.

**1982-1990** - University Lecturer of Analyses of Urban System at the School of Architecture of the University of Florence.

**1996-2001** - University lecturer of Science and town planning at the Polytechnic Institute of the University of Bari.

**2004-2005** - University lecturer of Landscape Restore for the Master Course Science and town planning of the University of Bologna .

**2007-2008** - He held lectures in many international institutes among which the following: the Institute of Arab World (IMA, Paris), National Institute of Anthropology and History (INAH, Mexico City), the Museum of the Man (Musee de l'Homme, Paris).

**2010** - He held the opening speech on the occasion of the XXX Anniversary of the Department of Architecture, University of Baja California.

**2007-2014** - He held keynote speech in University of Antafogasta (Chile) Beijing (China), Barcellona (Spanish) and in the world general assembly of IFLA and GBC







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