

National Projects



JO Group

/ Companies

SME



Research and Development ICT



e-Learning and Serious Games



e-Health and Smart Healthcare



Agrifood Tech and App Development



Blue Technology and Energy Efficiency



European Funds



Digital Marketing

NO PROFIT



Active Citizenship

JOEducation

Smart Innovation

Domus Sapiens

DOMUS SAPIENS project involves the construction of an advanced home automation system, based on innovative technologies, which allows monitoring of the health status and habits of users in domestic environments. The system collects and processes data through a network of sensors placed inside the building and worn by people. Such sensors allow the monitoring of anomalous behaviour and patterns of behaviour to change for the well-being of the users.

HT deals with the management and collection of data from the sensors, the semantic analysis of statistics and the implementation of the ontology. The latter is elaborated thanks to a profiling algorithm in order to allow a quick and intuitive initial configuration and the creation of the server and the web interface.



CODE

F/050207/01-03/X32



Jan 2017 - Feb 2021



€ 1.220.007,50



HT

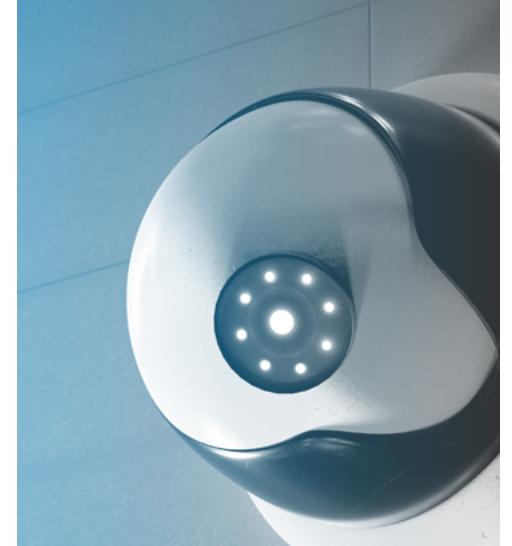


Horizon 2020
PON 2014/2020

VESTA

VESTA involves the construction of a security system based on innovative short-range technologies. The system is based on a virtual cloud unit that collects information from the sensors, processes them and makes them available to users through web or app. Therefore, the system signals dangerous situations in the moment they occur by detecting possible intrusions through audio and video inputs. Differently from traditional security systems, the sensors play an active role in the detection of possible intruders.

The contribution of P.M.F. consisted in the creation of the virtual control unit able to manage and monitor a network of sensors in a simple and optimal way. PMF managed the creation of the web and interfaces (Android and iOS).



F/050074/01-02/X32



Jan 2017 - Dec 2018



€ 825.721,26



PMF



Horizon 2020
PON 2014/2020

AMELIE

Advanced framework for manufacturing engineering and product lifecycle enhancement



AMELIE project methodological, technological platform for the optimization of the management of the life cycle of a product. The project seeks to analyse all the steps of the product life cycle, in order to follow the evolution of the production phases and facilitate the relationships between workers. PMF collaborates in the definition of information flows related to the business, as well as for the definition of services infrastructure required to support the business itself. PMF participates in the creation of the business infrastructure and flow management subsystems.



Jan 2016 - Mar 2018



€ 14.380.970,00

AMELIE



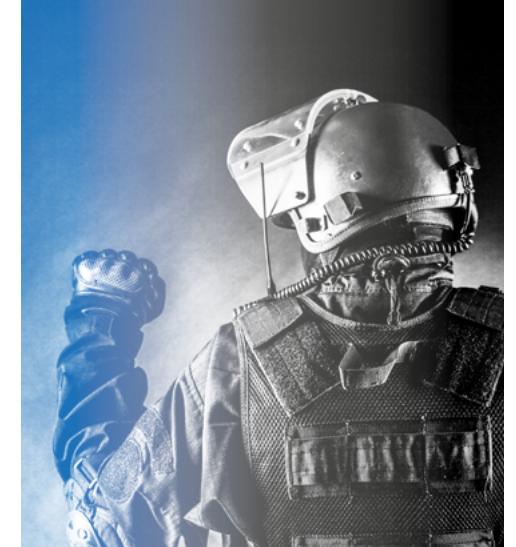
PMF



PON 2007-2013

PRIME

Reasoning integrated platform, multimedia, expert



PRIME project aims to create a sophisticated tool to support law enforcement agencies in the prevention of organized crime, tax evasion and corruption. The techniques employed by the project regard the application of probes and sensors for the monitoring of the environment and systemic processes. HT contributed to the development of the general architecture of the system, as well as the development of mobile Android and iOS interfaces.

P
RIME



Jan 2013 - Dec 2015



€ 1.332.554,04



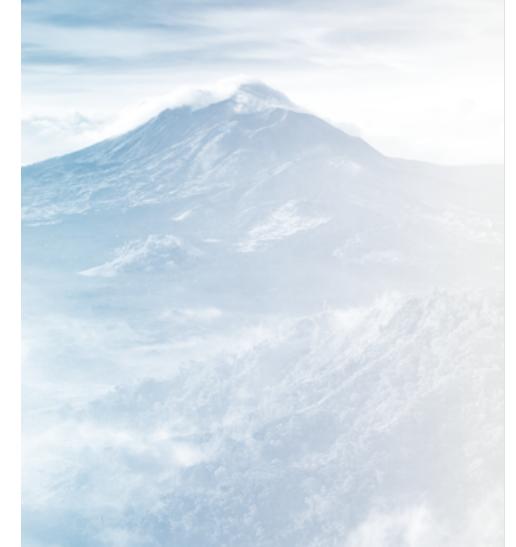
HT



PO FESR Sicilia
2007-2013

Volcan Guard

Monitoring of inertial elements and gas in volcanic sites



Volcan Guard project aims to develop a network of low cost sensors to monitor the variation of some inertial elements and gas concentration in the atmosphere. The purpose of this monitoring network is to provide not only accurate estimates of observed variables (light, temperature, vibration) but also a qualitative indication of how these parameters are changing. The innovative nature of the project lies in the ability of this tool to develop prompts on the phenomenon measured and provide extremely useful information necessary to the generation of a state of alert. P.M.F. realized the web interface and successfully implemented the algorithms for the analysis of available data. Interaction with the server has been managed through queries exchange with the database implemented within the server and through responses in JSON format.



G63F12000220004



Nov 2012 - Dec 2015



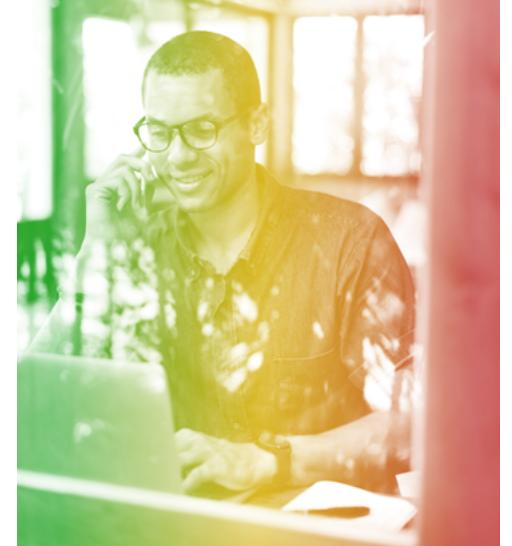
€ 1.220.007,50



PMF

PO FESR Sicilia
2007-2013

Semantic Sicily



The SEMANTIC SICILY project is an ongoing project lead by P.M.F. Srl which involves 23 Sicilian SMEs. The consortium goal is the research and development in the field of the Semantic Web for the increasing number of types of information. The technological platform employed in the project is based on modern techniques of Cloud Computing, which means that instead of running locally, the applications run in a data center shared by the partners of the project. The objective of the project is thus to develop a semantic core platform shared by all partners and distributed on cloud computing hardware. The semantic core platform will be then used as the starting point for the development of applications in the field of e-learning, Semantic document management, Semantic Networks, Voice recognition and text mining, real-time translation, Reverse Engineering, Semantic Web Gis, ERP etc.

P.M.F. incorporated a semantic engine purposely made by CNR into the e-learning platforms. The integration allowed the insertion of supplementary material related to the contents of the platform itself.



01CT6202000042



Sep 2012 - Dec 2015



€ 3.765.000,00

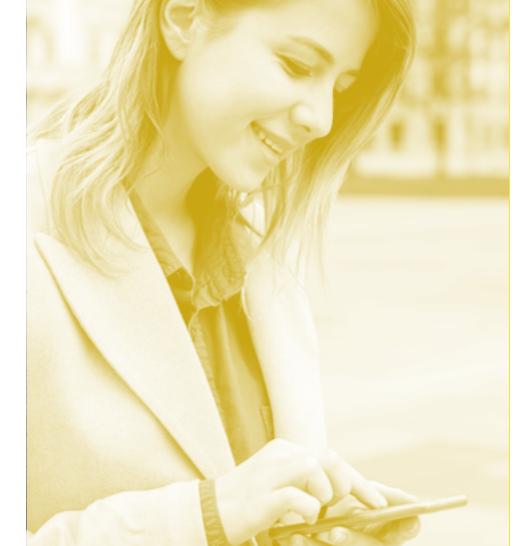


PMF

PO FESR Sicilia
2007-2013

INDOOR Location

Indoor location and assistive mobile technologies



INDOOR LOCATION project consists of a “social application” Client/Server addressed to the enhancement of commercial and non commercial services in the field of healthcare, accessibility and disabilities. The project idea was developed in close collaboration with researchers from the University of Catania and its main intent is to build a platform that provides functional, heterogeneous services for private agencies with particular attention towards their implementation on mobile devices. The services offered efficiently employ last gen features and technologies such as the ability to link and communicate, geolocation, reproduction and use of multimedia etc. Ultimately, the focus of the project was the development of a new core functionality through the creation of an indoor localization system capable of referring to customized maps.

The role of VITECO in the implementation of the project concerned the creation of the platform, the web client and the mobile client for both users and admins.



Feb 2012 - Nov 2013



€ 240.000,00



VITECO



PO FESR Sicilia
2007-2013

Secesta

Network of sensors for monitoring of volcanic ash in the air transport safety



SECESTA project consists of a network of sensors for the monitoring of volcanic ashes in the air and transport safety. The atmospheric dispersion of ashes produced by the explosive activity of volcano Etna is a significant risk factor for eastern Sicily and in particular for the area surrounding the city of Catania. The project was developed by P.M.F. Srl in close collaboration with the University of Catania and local research centers. SECESTA's ultimate aim is thus to implement a monitoring system of volcanic ash that can pinpoint the exact location of pyroclastic materials in order to provide warnings and recommendations in timely aeronautical users.

P.M.F. Srl developed the management software platform. In addition, the company created the web interface and implemented the algorithms required to monitor the ash flow and developed by the University of Catania. Communication flow with the server has been managed through API realized with the contribution of the partners. P.M.F. Srl was also in charge of dissemination and exploitation of project results.



01CT6202000042



Jul 2011 - Feb 2015



€ 1.518.686,00



PMF

PO FESR Sicilia
2007-2013

Resima

Smart sensor networks and mobility assistant to the elderly and disadvantaged people

The project RESIMA aims to develop a methodology based on the use of multi-sensory architecture and computational intelligent paradigms to improve the indoor use of by the elderly and vulnerable people. The system employed a network architecture in which multisensory nodes are responsible for monitoring the location of users within the environment and the state of the environment. In this way it is possible to estimate the interaction between user and environment and provide to the blind person the necessary information for a secure and efficient use of the environment. HT ensured the correct execution of research and development activities and their coordination. In the specific project, the company developed and implemented the decision-making system, which allows to step in support actions for the user, based on user-acquired information and surrounding environment.



G63F11000590004



Jun 2011 - Feb 2015



€ 919.236,00

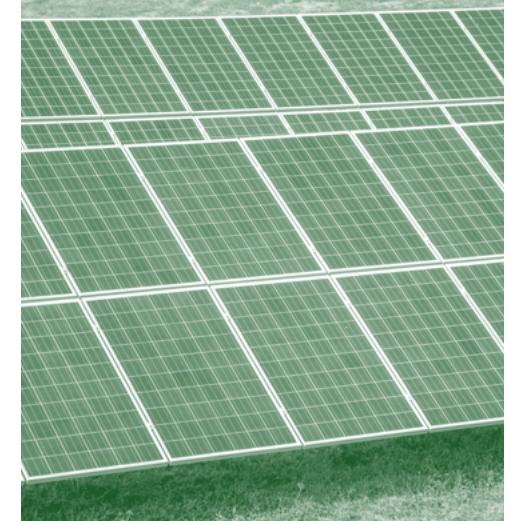


HT

PO FESR Sicilia
2007-2013

SAGRO

Photovoltaic panel of third generation: development of solar celles sensitized with organic colorant from sicilian vegetal products



The aim of SAGRO project was to produce, through experimental research and development, new photovoltaic systems of third generation. The idea was to use Sicilian vegetal products as photo-active raw material, in order to reduce manufacturing costs. Specifically, the developed cells are the photo-electrochemical ones that are sensitized with organic colorant. This kind of cells has being subject of study for over 20 years (indicated by DSSC stands for Dye Sensitized Solar Cell). The project has been developed in collaboration of University of Catania.

JO Consulting provided its competencies in business consulting to the partnership, through a team of consultants specialized in project management



G63F11000470004



Oct 2011 - Jul 2014



€ 2.169.525,32



JOConsulting



PO FESR Sicilia
2007-2013

SAGRO

MVCS

Mobile video communication system

MVCS project intends to find a viable solution to multimedia convergence. The activity presented in the project plan aims at introducing new multimedia services relevant in terms of technological innovation, both for companies and privates users. The main objective of the initiative is to develop a mobile/fixed convergent solution which can connect in videoconference all types of mobile devices through a traditional internet-based video communication system. Our innovative solution will allow the use of a PDA as a video-mobile IP phone, able to manage video-calls among PDAs, 3G terminals and fixed PCs. The research programme envisages the analysis of topics concerning the interoperability among different networks (CDMA and packet based) and transmission techniques of audio/video data flows among WiFi and UMTS networks.

P.M.F. contributed to the activities development based on available transport networks to introduce new multimedia services useful either for corporations either for private users.



 Oct 2006 - Jun 2008

 € 500.000,00

 PMF

 POR Sicilia
2000-2006



JO Group



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