



**ECOSYSTEMS** Ltd.

Company profile

**Ecosystems, established in Florence (Italy) in 1984, is a company specialized in consulting and planning studies for the creation of “ready to use” information systems, to manage and process environmental data. If required, hardware and third part software can be supplied.**

**We have planned and developed software products and have supplied services, reaching a highly specialized know-how: our experience allows us to be one of the most reliable and experienced companies in the world in the planning and management of Environmental Information Systems.**

**Ecosystems has a large experience in management and planning, installation and tailoring of environmental information systems and monitoring systems, staff training, software support both in remote and on-site, tests and all kinds of operative support to users (outsourcing, data-entry, etc.)**

**Our experience started with the development of Hydrodat (an environmental information system that had more than 25 installations in Italy when we changed it over to Intersistemi Italia S.p.A. in 1999). Later we developed similar products for third parties (information systems and LIMS, highly specialized to manage and process environmental data). Now Ecosystems offers its experience to solve any kind of problems about planning, services to manage data (data management), full service for automatic and semiautomatic monitoring systems, training, assistance, tele-assistance, data-entry, memorization or reformat of already existing data on paper or magnetic media.**

**Ecosystems has also experience in SW planning for the management of museums data and in service of informative support to third parties. For this service the company realized thematic maps of about 200.000 ha in the province of Siena (Italy) for the Consorzio Azimuth, and other thematic maps (DTM, slopes, three-d models, etc.) for other customers.**

### **Some of the most important activities of Ecosystems:**

*2017 – A proposal for the realization of a new kind of datalogger proposed by Ecosystems is co-financed by the Tuscany Regional Administration as part of the administration's plan for small & medium industries support.*

*2017 – Maintenance and upgrading of the remote data transfer system of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of Syndial S.p.A.*

*2016 – Maintenance of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of Syndial S.p.A.*

*2016 – Executive planning of possible revamping the piezometers monitoring in a remediation area near Ferrandina (MT) on request of Syndial S.p.A...*

*2015 – Maintenance of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of Syndial S.p.A.*

*2015 – Winner of a tender for SW development, consultant services, engineering service and g.p. services supply on request of Saipem S.p.A..*

*2015 – Maintenance of the geognostic and environmental monitoring system around the protected area of the Biviere lake near Gela (CL) on request of SAIPEM S.p.A..*

*2014 – Design and full re-building of geognostic and environmental monitoring system around the protected area of the Biviere lake near Gela (CL) on request of SAIPEM S.p.A..*

*2014 – Enhancement and upgrading of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of SAIPEM S.p.A.*

*2014 – Maintenance of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of SAIPEM S.p.A.*

*2013 – The group of companies and professionals whose Ecosystems is part wins the tender for the realization of the environmental databases and other activities for the valorization and disclosure of environmental data according with EMAS procedures, announced by the Natural Park of Mont Avic (AO).*

*2013 – Maintenance of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of SAIPEM S.p.A.*

*2013 – Realization of a structural monitoring system for an archeological target using laser distance meter on request of SAIPEM S.p.A.*

*2013 – Planning and realization of an environmental data timing, management and transmission system on request of SAIPEM S.p.A.*

*2013 – Support along 6 months with a senior project manager at the management of the Regional Environmental Information System of Tuscany Region (SIRA), on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).*

2012 – *Planning of the structural monitoring of an archeological target using laser telemetry on request of SAIPEM S.p.A.*

2012 – *Winner of a tender for SW development, consultant services, engineering service and g.p. services supply on request of Saipem S.p.A..*

2012 – *Early project for structural monitoring of an archeological target using laser telemetry on request of SAIPEM S.p.A.*

2012 – *Restoring and maintenance of the data transmission devices for geognostic and environmental monitoring system data around the protected area of the Biviere lake near Gela (CL) on request of SAIPEM S.p.A..*

2012 – *Comparative analysis between structural monitoring systems (Laserscan, Laser Telemetry and IBIS-radar) of an archeological target on request of SAIPEM S.p.A.*

2012 – *Maintenance of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of SAIPEM S.p.A.*

2011-2013 – *QuiT project. Together with the Department of Evolutionistic Biology of the University of Florence.*

2011 – *Restoring and maintenance of the geognostic and environmental monitoring system around the protected area of the Biviere lake near Gela (CL) on request of SAIPEM S.p.A..*

2011 – *Enlarging and restoring of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of SAIPEM S.p.A.*

2010 – *Enlarging and restoring of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of SAIPEM S.p.A.*

2010 – *Winner of a tender for the request for a senior project manager at the evolutive steps of the Regional Environmental Information System of Tuscany Region (SIRA), on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).*

2010 – *Planning of an enlargement of the geognostic and environmental monitoring system around the protected area of the Le Biviere lake near Gela (CL).*

2010 – *Winner of a tender for SW development, consultant services, engineering service and g.p. services supply on request of Saipem S.p.A..*

2009 – *Enlarging and restoring of the geognostic and environmental monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR) on request of SAIPEM S.p.A.*

2009 – *Restoring of the photovoltaic power supply of the Archeologic Museum of Capo Colonna (KR) on request of SAIPEM S.p.A.*

2009 – *Winner of a tender for the request for a senior project manager at the evolutive steps of the Regional Environmental Information System of Tuscany Region (SIRA), on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).*

2008 – *Winner of a tender for SW development, consultant services, engineering service and g.p. services supply on request of Snamprogetti S.p.A (now Saipem S.p.A.).*

2008 – Planning of the photovoltaic power supply of the Archeologic Museum of Capo Colonna (KR) on request of Snamprogetti S.p.A.

2008 – Early project of a F.O. sensors monitoring system on a pipeline trunk in sliding area for Enser S.r.l.

2008 – Planning and R/D procedures for the acquisition of accelerometric response using National Instruments CompactRIO – FPGA hardware architecture on request of Snamprogetti S.p.A.

2008 – Support with a senior project manager at the evolutive steps of the Regional Environmental Information System of Tuscany Region (SIRA), on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2006-2007 – Planning and execution of a remediation plan on the geognostic and meteorological monitoring systems near the archeological area of Hera Lacinia Temple, Capo Colonna (KR), on request of Snamprogetti S.p.A.

2006 – Training on security systems and geognostic data acquisition to the staff of Archeological Museum of Hera Lacinia Temple, Capo Colonna (KR) on request of Archeological Superintendence of Calabria Region.

2006 – Support with a senior project manager at the evolutive steps of the Regional Environmental Information System of Tuscany Region (SIRA), on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2006 – Planning and early project of an experimental software for the acquisition of accelerometric response using National Instruments CompactRIO – FPGA hardware architecture on request of Snamprogetti S.p.A.

2005 – According with the statements the EC tender for project management of environmental software evolution in ARPAT (Tuscany Regional Environmental Protection Agency) won in 2003, Ecosystems is reconfirmed in support for next steps of evolution of the project.

2005 – Participation, as reference technical firm, to an early integrated project for a large river renaturalization plan.

2005 – Support with experienced staff to the G.I.S. operations related with environmental database management, on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2005 – Development of a geognostic data management software for an archeological area monitoring on request of Snamprogetti S.p.A..

2004 – Support with experienced staff to the G.I.S. operations related with environmental database management, on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2004 – Deployment of a first level experimental system for structural monitoring using fiber optic based sensors.

2004 – Deployment of a geologic data monitoring system on an archeological area near Crotona, on request of Aquater S.p.A..

2004 – Development of a second level experimental project for pipeline structural monitoring using fiber optic based sensors.

2003 – Support with two senior project managers at the management and planning of the upgrade of the Regional Environmental Information System of Tuscany Region (SIRA), on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2003 – Support with experienced staff to the data entry of PCB data, on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2003 – Support with a senior project manager at the development and management of the Help-Desk software system for support of the users of departmental laboratory information system, on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2003 – Support with a senior project manager at the development of the Technical Specifications for the tender that will be managed by ARPA Sicilia (Sicily Regional Environmental Protection Agency) for its Environmental and Laboratory Information System.

2003 – Support with experienced staff to the G.I.S. operations related with waste database management, on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2003 – Development of a general project for pipeline structural monitoring using fiber optic based sensors.

2003 – Winner of an EC tender for project management of environmental software evolution in ARPAT (Tuscany Regional Environmental Protection Agency).

2002 – Support with a senior project manager at the operative start-up of the Regional Environmental Information System of Tuscany Region (SIRA), on request of General Direction of ARPAT (Tuscany Regional Environmental Protection Agency).

2001 / 2002 – Planning and teaching of a course about informatic support to environmental data, modelling and mapping management, on request of I.A.L. Toscana by Arezzo Province Administration.

2001 – Analysis and early project of the Water Quality Information System of the Department of Environment of Sardinia Region, on request of Intersistemi Italia S.p.A..

2001 – Analysis and project development of a new interface between Hydrodat and G.I.S. systems, on request of Intersistemi Italia S.p.A..

2000 / 2001 – Analysis and early project of an automated support system for the management of UNI EN ISO 14000 operations work-flow, on request of Intersistemi Italia S.p.A..

1999 / 2001 – When the Hydrodat<sup>®</sup> System was made over to Intersistemi Italia S.p.A., Ecosystems acquired a three years technical support package for Intersistemi Italia S.p.A..

1999 / 2000 – Planning and project development of the automated reconnaissance system of field sampling points using transponders (“TAG”) and portable terminals, on request of Intersistemi Italia S.p.A..

1999 – *Planning and teaching of the course of Geomorphology and Earth Sciences in a regional course at Centro di Formazione di Sinalunga of di Siena Province Administration.*

1999 – *Analisis and planning of release 1 of HYDRODAT 32 (Windows 32) Information System. Release of technical documentation according with UNI EN ISO 9001 standard of Intersistemi Italia S.p.A..*

1998 – *Analisis, and early project of an automated riconnaissance system of field sampling points using transponders (“TAG”) and portable terminals.*

1988 / 1998 - *HYDRODAT® Project:*

1988 – *Analisis and software development of an information system for geothermal fluids composition data management, on request of Geochemistry Department of CNR.*

1989 - *Analisis and software development of the information system for water quality data management of the Tevere River, on request of A.C.E.A. (Rome).*

1990 / 91 - *Analisis and software development of the Laboratory Information Management System provided with support of environmental data management, on request of UNISYS Italia S.p.A. by A.I.M. (Vicenza) - A.M.A.G. (now Azienda Padova Servizi S.p.A., Padoa).*

1991 - *Analisis and software development of the Laboratory Information Management System provided with support of environmental data management, for the laboratory of U.S.L. n° 16 (Modena) (now Emilia-Romagna Regional Environmental Protection Agency, Department of Modena), on request of C.N.R..*

1991 – *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the Florence WaterWork laboratories (now Publiacque S.p.A.).*

1991 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the Tevere River Basin Authority.*

1991 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the Bergamo WaterWork laboratories (now Bergamo Ambiente e Servizi S.p.A.).*

1991 / 93 – *Planning, analisis, project development and software development of the automated monitoring system of Mantignano Plant of Florence WaterWork (now Publiacque S.p.A.).*

1992 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the ACEA laboratories (Rome).*

1992 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the water and gas quality laboratory of Fiorentinagas pluriservizi S.p.A. (E.N.I. Group,), Florence.*

1992 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the water quality laboratory of A.M.I.R. S.p.A., Rimini.*

1993 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the water quality laboratories of Società Metropolitana Acque Torino S.p.A..*

1993 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the water quality laboratory of Vicenza Treatment Plants, A.I.M. S.p.A, Vicenza.*

1993 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the water quality laboratories of Società Acque Potabili S.p.A. (E.N.I. Group), Turin.*

1994 / 96 – *Analisis and user interface development of the Surface Water Information System of the Ministry of Environment, on request of Olivetti Information Services S.p.A., Syntax Stato branch (Rome), by CO.RE.S.I.A.*

1994 / 95 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the environmental analisis laboratory of Pistoia area (now Tuscany Regional Environmental Protection Agency, Department of Pistoia), on request of Pistoia Province Administration.*

1995 / 96 - *Analisis and project development of the Laboratory Information Management System provided with support of environmental data management for the water quality laboratories of A.G.S.M. S.p.A. (Verona).*

1997 / 98 – *Analisis, project management and software development for UNI EN 45001 compliance of laboratories provided with Hydrodat.*

1991 / 1998 – *Analisis, project management, and software development of automated data acquisition from continuous monitoring systems of environmental data (HW and SW parts of HydroLog® project).*

1991 / 93 – *Analisis, planning, project management and software development of HydroLog® aothomated data acquisition system and its integration with HYDRODAT® information system at Mantignano Plant of Florence WoterWork (now Publicacque S.p.A.).*

1991 / 93 – *Analisis, planning, project management and software development of analogic continuous data jogging remote data acquisition and remote valves control at the Mantignano Plant of Florence WaterWork (now Publicacque S.p.A.).*

1995 / 96 – *Analisis, planning, project management and software development of HydroLog® aothomated data acquisition system at the laboratories of A.G.S.M. S.p.A. (Verona).*

1995 – *Planning, management and teaching in a 50 hours course of informatic application to environmental data managemen, on request of CE.FOR.COOP (Florence), by Pisa Province Administration.*

1991 / 1994 – *Data memorization, data processing and automated mapping of 200.000 ha in Siena province, on request of Consorzio Azimut (Florence) by Siena Province Administration.*

1991 / 1993 – *Planning, analisis and project of a model for the quality evaluation of rivers water.*

1992 - *Data memorization, data processing and automated mapping of Albegna River area for E.I.A. studies for a dam project, on request of Consorzio Azimut (Florence).*

1989 – *Analysis and preliminary planning of a structural monitoring system for a tunnel in land slide area along the Aosta-Pré St. Didier railway, on request of Geofisica Toscana S.r.l. (Florence).*

1988 / 89 - *Data processing and 3d DTM of the project area of controlled waste depository of Urban Solid Waste of Rio Scarpino (Genoa),on request of R.S.T.A. s.c.r.l. (Genoa).*

1988 / 89 – *Data memoriziation, data processing and automated mapping of slopes using 3d DTM in some areas of Tuscany, included Florence area, on request of Geotecn Studio Associato (Florence).*

1987 / 89 – *Planning, project and software development of a prototypal information system of the Natural History Museum of Florence University, on request of the Florence University's Museum of Natural History.*



*1988 – Planning, analysis, project and software development of a windows system in AOS/VS operating system environment, on request of Geochemistry Department of CNR.*

*1986 – Data processing and 3d DTM of a quarry restoration followed by partial reuse as controlled waste depository of Urban Solid Waste near Rio Moia (Reggio Emilia), on request of Ecoter pool s.c.r.l. (Reggio Emilia).*

*1985 / 86 – Data processing and automated mapping of cultivation availability of terrains in Foggia and Bari provinces (Italy), on request of Soils Sciences and Plants Nutrition Department of the Florence University.*

*1985 / 86 – Planning, project and software development of an information system for petrographic analysis data, on request of Earth Sciences Department of Florence University.*