Short Description of IDEA's background

I.D.E A. srl (IDEA) was established in 1984 as a software company.

We offer a wide and comprehensive range of software products and services including software design and development, consultancy services.

We provide complete software development life cycle, from specifying and developing software to meet the client's needs.

Our software project portfolio demonstrate our experience. It ranges from simple to complex "intelligent" information systems, aiming at the solution of specific decision support and management problems, to be optimized at each customer request. We also provide a dedicated consultancy service primarily based in the use of our software expertise as well as software solutions for Regional and Local Authorities, Private companies, NGOs and CSO.

Company Expertise

- Mathematical models, dedicated software design, Information systems, DSS design and development;
- Structured Documents Processing;
- Prototype testing and applied research in systemic information, data transmission, encryption, multimedia information and educational pilot-projects;
- Design and implementation of monitoring systems and networks, databases (DB) and decision-support systems (DSS), based on risk-analysis approach.
- Data logging software tools;
- Image processing of remote sensing data: techniques and software tools;
- Data entry, storage, manipulation, presentation, analysis (spatial and alphanumeric data)
- Data retrieving, data mining;
- Web based information systems, web related services in outsourcing for remote clients;
- Pharmaceutical data bases management tools;
- 2 and 3D representation of geographic dynamics (Dynamic GIS) for the support of spatio-temporal information retrieval and analysis, using a proprietary developed spatial data model and General Mapping information System® (GMS);
- Representation and analysis of spatio-temporal disease and census attribute data, within a GIS environment. Geostatistical analysis of collected data;

- Web based information systems and web related technologies to visualize personal, public health and epidemiological data for analysis by healthcare professionals, policy makers, epidemiologists, and emergency management personnel;
- Telemedicine;
- Computer aided education;
- Survey planning, supply and analysis.

The logical-mathematical and conceptual structure of IDEA's software is characterized by an intrinsic flexibility in order to conform to every project or applied research.

IDEA's kernel software GMS$^®$ is based on last generation relational databases and on 2D/3D graphic and geographic representation; they are activated by dynamic models based on statistic and stochastic primitive models (see also GMS description in the GMS-En file) .

GMS$^®$ can be interfaced with CAD ad GIS products on the market.

The in-built SW flexibility allows the customer a user friendly approach to our software in order to:

- Obtain relevant data from various sources, to identify new features to add to the geo-localised objects;

- Display data collected from various sources along with newly created information;

- Apply user's rules in analyzing gathered information and provide flexible solutions to changes in the operational environment.

- Use queries to select and local features of interest and "clusters" of objects attributes' related information;

- Create new dataset on a spatial- temporal framework (personal geodatabase feature class, as well as shapefile);

- Add attributes to the newly created features and use GMS$^®$ software to calculate spatial attributes;

- Apply analysis responsible for the processing of the situation awareness picture and making a decision regarding the current situation awareness picture with or without connection to the external databases;

- Analysis can be performed on the current situation pictures (without memory) or can be performed on the accumulation of historical information combined with the information currently collected as well as association of the information over a longer period of time;

- Perform statistical inferences and display chosen data sets in the preferred shape.

OUR "OPERATING SYSTEM"

Nowadays, in the light of the quick changes in progress, they who are in charge of the local, regional or national government need to understand quickly and moment by moment what is happening or what can happen to:

- Environment - utilization of reproducible resources at middle/long term;
- Territory - places where we live and act;
- Economy - production of income and employment.

"Globalization" needs overall frameworks of complex realities endlessly developing. As a matter of fact, it is more and more indispensable and fundamental to use information instruments for analysing, controlling, simulating and managing environment, territory and economy, according to the new "Glocality" concept.

Without such a change, the worldwide transformed balances will penalize the weakest economic systems, democracies and cultural identities.

We have to open the way to "globalization", by turning the first existing sequence over:

ECONOMY - TERRITORY - ENVIRONMENT

into

ENVIRONMENT - TERRITORY - ECONOMY

and by turning the second existing sequence over:

ECONOMY - TERRITORY - INFORMATION

into:

INFORMATION - TERRITORY - ECONOMY

Reality is quickly changing. In the light of such a consideration, it is evident that "static systems" are not able to perform an intelligent management of the activities and that, on the contrary, only "dynamic systems" can do it.

Every structured planning on the basis of a static model is destined to fail in time. The only possible alternative is to use a flexible information instrument which, related to data banks updated in real times allows to get precise information. All this can transform into operational decision activity.

A global management information system together with the dedicated human resources, produces continuous monitoring and management while running the "sustainable development".

END-USER GROUPS OF I.D.EA. srl's Software

- Central and Local Governments
- International governmental and non-governmental organizations
- National and multinational enterprises on the way towards "globalization"

SOFTWARE GENERAL FEATURES

Each project arises from:

- Analysis of the state of facts;
- Feasibility study;
- Project and software development;
- Data loading;
- Information system calibration.

For each project I.D.EA. offers:

- Data updating and loading service, according to cadences and procedures pre-arranged with the customer;
- Database management service on its own server in remote connection (via internet and, in any case, secure networks) to the customer's pcs;
- Training service on raw data research, selection and classification (later to be separately loaded into the databases);
- Training service on using idea programs, for the "in service" management of the network (if the customer chooses such an operational management);
- Training service on using the provided programs;
- General service by means of a "dedicated" green number and/or internet service and direct support.

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Montesilvano (PE) Italy
12/05/2009

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