Three-dimensional Restitution via Internet of Digital Elevation Networks in Towns

Fact Sheet

Project Information

**TRIDENT**

Grant agreement ID: IST-1999-11678

Funded under
FP5-IST

Overall budget
€ 3 402 693

EU contribution
€ 1 858 925

Coordinated by
DATAMAT S.P.A.
Italy

Start date 1 January 2000
End date 30 June 2002

Objective

The TRIDENT project is aimed at developing a prototype system (in the following named also system), integrating advanced technologies of aero-stereographic image acquisition, digital three-dimensional cartography restitution, data base, internet/intranet networking, in order to improve services provision to EU administrations and citizens. The end-product will be represented by a remotely accessible 3D reconstruction of a sample urban area extracted from three pilot sites (Madrid (Spain), Helsinki (Finland) and Rome (Italy)), correlated with relevant geo-referenced information, and by a set of specific applications exploiting these data to provide innovative IT services to the citizens and to the local administrations.

OBJECTIVES
A widely accessible 3D urban cartography represents an "enabling technology?" to achieve a better knowledge, management and control of the territory. Within the scope of the TRIDENT Project selected applications, exploiting this technology, will be addressed in response to specific needs coming from users directly involved in the project: Urban Development Planning (UDP); Urban Monitoring (UM); Telecommunication Services (TS). The project scope is limited to specific sample areas of Rome, Madrid and Helsinki, as TRIDENT purpose is not to build extensive data sets of the pilot sites but to demonstrate feasibility of an innovative technological approach, which is the basis for any further commercial exploitation of project results.

DESCRIPTION OF WORK
The TRIDENT Project will be developed, in a two and half year period, performing the following activities: WP 1: Management; where the project management and co-ordination will be performed by the co-ordinator; WP 2: System; which includes the activities related to the specification and design of the Core System, and the activities related to the customisation, integration and test of the TRIDENT system; WP 3: Production Environment; which includes the development of the city data set acquisition and preparation; WP 4: Data Base Systems Integration, which includes the activities related to the preparation and management of the City Data Base, and develops the basic Internet data accessibility; WP 5: Urban Development Planning Application; which develops the specific application dedicated to the urban planning; WP 6: Telecomm Services Application; which develops the specific application related to the telecommunication services; WP 7: Urban Monitoring Application, which develops the specific application for urban monitoring; WP 8: Dissemination and Implementation; which performs the activity to inform the community on the results of the project, and the activities related to the possible exploitation of the TRIDENT system. Both in the Core System and in the Specific Applications the following main conceptual phases are considered: - Definition Phase; where all the general requirements will be assessed, and the system specification and preliminary design will be performed. - Design Phase; where the detailed design of the whole project will be done. - Development Phase; where the Core System and the Applications will be developed. - Customisation, Integration and Testing Phase; where each application will be integrated in the Core System. The whole system will be tested and the applications will be adapted to the other countries.
Call for proposal

Data not available

Funding Scheme

Coordinator

DATAMAT S.P.A.

Address
Via Laurentina 760
00143 Roma
Italy

Participants (7)

COMUNIDAD AUTONOMA DE MADRID

Spain

Address
Puerta Del Sol 7
28013 Madrid

CONSORZIO U.L.I.S.S.E.

Italy

Address
Via Tor Vergata 110
00133 Roma

ENTE PER LE NUOVE TECNOLOGIE, L'ENERGIA E L'AMBIENTE

Italy

Address
Lungotevere Thaon Di Revel
76
00196 Roma

EUROPEAN COMMISSION - JOINT RESEARCH CENTRE

Italy
HELSINKI TELEPHONE CORPORATION
Finland
Address
Korkeavuorenkatu 35
00131 Helsinki

SRD - ISP S.R.L.
Italy
Address
Via Val Maira 75
00141 Roma

UNIVERSIDAD COMPLUTENSE DE MADRID
Spain
Address
Avenida Seneca 2 Edificio
Seneca
28040 Madrid

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