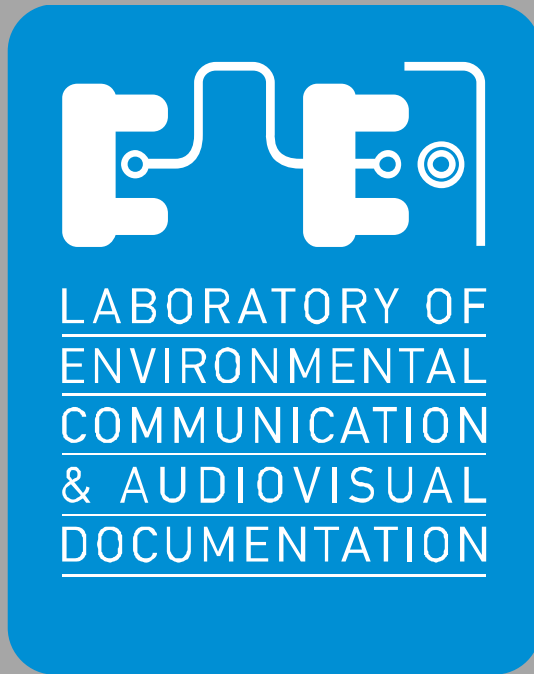


**Lab of Environmental Communication
and Audiovisual Documentation (LECAD),
Department of Architecture,
Polytechnic School of the University of Thessaly
<http://www.arch.uth.gr/en/labs>**



The Lab of Environmental Communication and Audiovisual Documentation (LECAD) was founded in 1999 at the Department of Planning and Regional Development (DPRD), University of Thessaly and in 2004 it was transferred to the Department of Architecture.

The aim of LECAD is the utilization of traditional as well as hi-tech and digital multimodal means of representation and communication in research, teaching and media production ranging from artifacts up to the urban scale.

The Lab is part of an expanding network together with research units as well as NGO both in Greece and abroad.



Objectives

Audiovisual databases on urban, architectural and everyday life in historic as well as in contemporary environments and settings.

Development of educational and research tools aiming at enhancing communication (educational, social, physical environment at a private or public level)



Development of interactive multimedia products and installations on urban, architectural, artistic and social frameworks.

Laboratory and technical support in the fields of media, fine arts, technology, multimedia and Virtual Reality.

Investigation, analysis and process of traditional and contemporary modes of communication - utilisation in education, research and production.

LECAD staff

Vassilis Bourdakis, associate professor

Spyros Papadopoulos, associate professor

Giorgos, Papakonstantinou, associate professor

Nicolas Remi, adjunct lecturer, member of Cresson, France

Giorgos Kalaouzis, computer scientist

Ifigenia Charatsi, video editing and research programs' coordinator

Eleni Pispiri, photo and graphic processing

Nikos Vamvakas, sound engineer, Sound Studio



Research Activity

The main research focus for the first decade of the lab's operation was the establishment of an elaborate **archive of audiovisual urban life documentaries** as communicated through satellite news channels and the press.

This collection was the basis for two art installations/ exhibitions by P.Lazaridis, the former LECAD director, as well as the production of two edited volumes.



Structure and Equipment

LECAD is organized in two discrete units physically positioned in adjacent buildings within the Engineering School Campus. The vision unit is hosted in the first floor of the Dept of Architecture building occupying approx. 50sqm in a series of well-defined and organized rooms. The audio unit occupies a dedicated, custom made space of 200sqm at the basement of the DPRD.



Audio unit features a professional recording studio of 120msq and a secondary studio. This setup includes:

Recording (45sqm) mainly for live recording of small number bands. Includes an A-size Steinway studio piano, ddrums, series of microphones (Neumann, Schoeps, AKG), MIDIsystem (Kurtzweil Roland), lamp and transistor amplifiers, hardware filters, etc.

Main control-room, a 32 channel digital ProTools console v5.0 on Machintosh featuring ProControl AD controls and supporting production of both stereo and 5.1 surround

INTERNATIONAL COOPERATIONS

The lab has also completed, in co-operation with various institutions and consortia, a series of research projects.

The audio studio has completed a series of recordings as standalone productions and contract based work in recording and/or sound editing.

Since 2009, LECAD expanded into buildings' sound design and city soundscapes with the co-operation of Dr. Nicola Remy, teaching staff at the Dept of Architecture and member of CRESSON, France.



PLEIAS

Supporting a Network of Excellence in Interactive Art

Laboratoire des Arts et Medias -LAM, University of Paris 1 (Anne-Marie Duguet)

CITU- University of Paris 8 (Maurice Benayoun)

LECAD - EPEOT, University of Thessaly (George Papakonstantinou)

Interaction Design, University of the Aegean (P. Kyriakoulakos)

ISEA, Instabul 2011

<http://isea2011.sabanciuniv.edu/workshop/supporting-network-excellence-interactive-art>



Research Activity

DeMuCiV, 2012-2015

Designing the Museum of the City of Volos: Historical research and development of innovative interactive content for the dissemination of knowledge

THALES RESEARCH PROJECT, financed by European Union



Research carried out by three groups:

- LECAD, Department of Architecture, UTH
- Laboratory of Anthropology, IAKA, UTH
- Department of Architecture, AUTH

Combination of historic data and oral history.

Volos, situated in the network of Mediterranean cities and ports

Creation of digital multi-modal data bases

Creation of interactive applications

Focus on new participatory digital technologies for the display of knowledge based on very site- and people- specific research.

The Volos museum as a trans-local public space and the soundscape projects sound



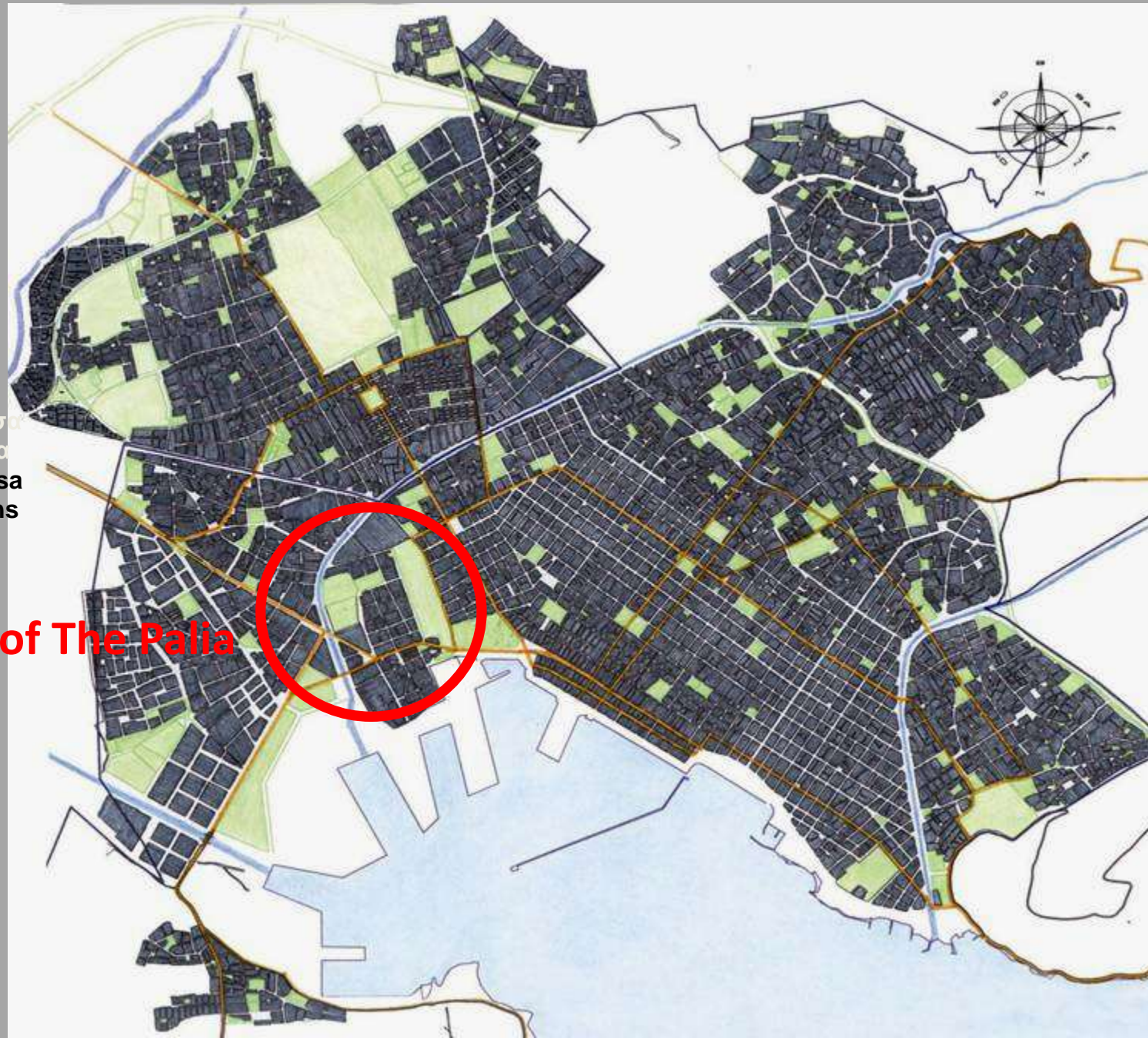
Multipurpose 3D digital city model

The vision studio of LECAD is involved in a multipurpose 3D digital city model of the historic city centre of Volos as a backbone for the development of various augmented reality and ubiquitous computing applications.

Urban Soundscape Pilote Data Base



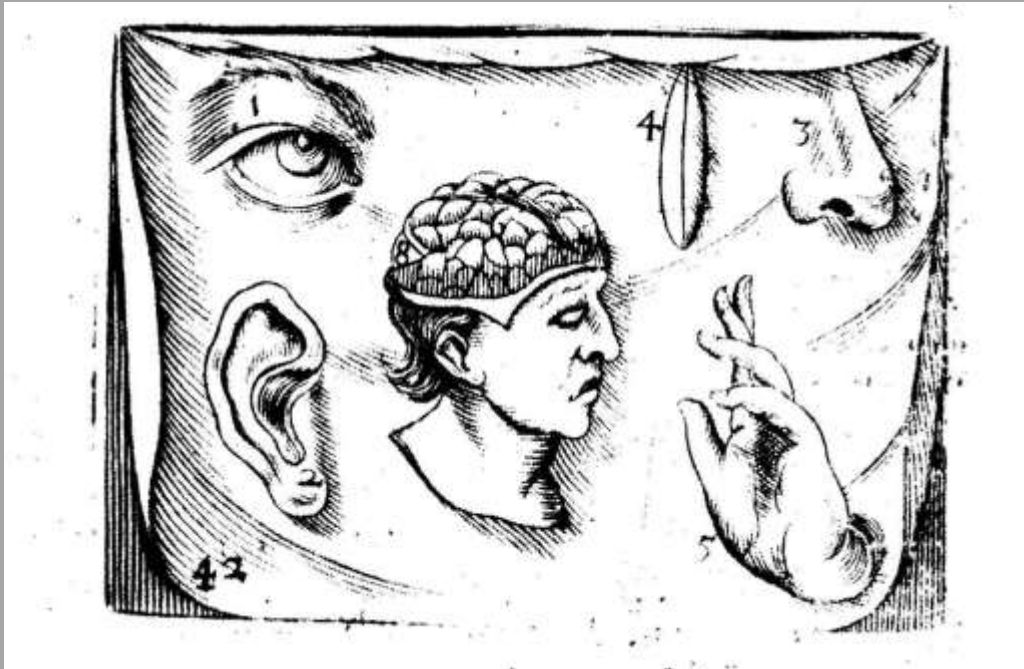
Volos, The urban fabric, 2010



Λάρισα
Αθήνα
Larissa
Athens

Area of The Palia





In the last three decades and with an increasing rhythm, architectural thought focus on a global sensuous experience *in situ*, adding to the prevailing visual experience the other neglected senses

.

Today, it is largely accepted that sound identity of a space in the city, formed by multiple sound qualities, tensions and multiple layer depth, represent its historic, social and functional characteristics.

Tsalapatas



Cinema Multiplex

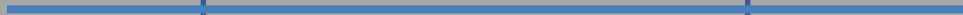


Railway Station

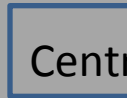
Upper Palia
Habitat and Entertainment
Archeological sites



Future city museum

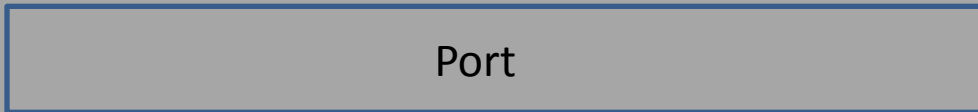


Main street



Central Square

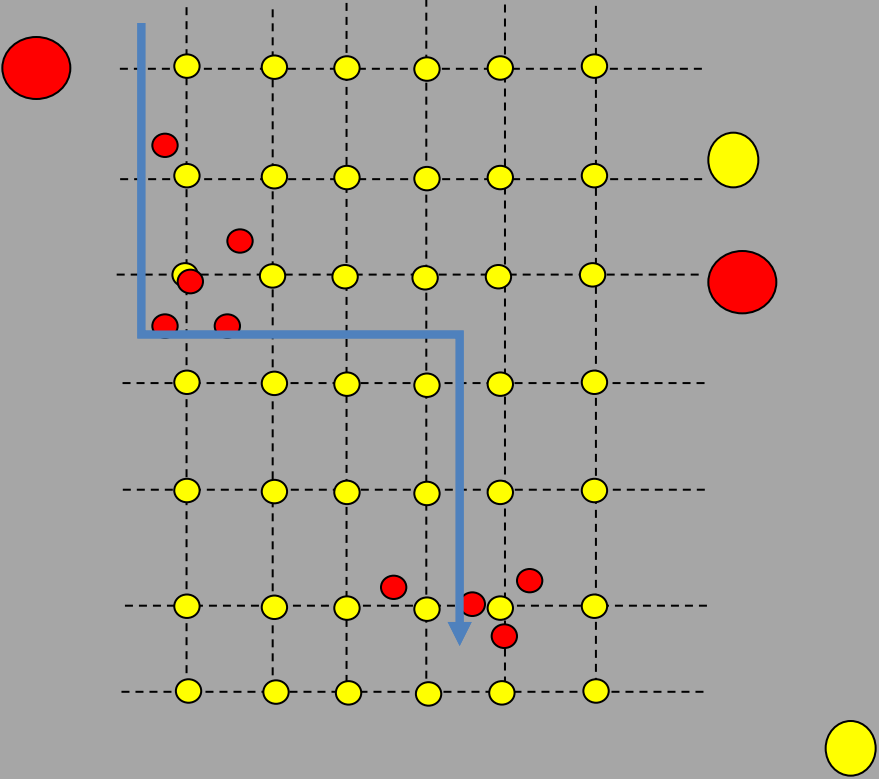
Traditional commercial area
habitat



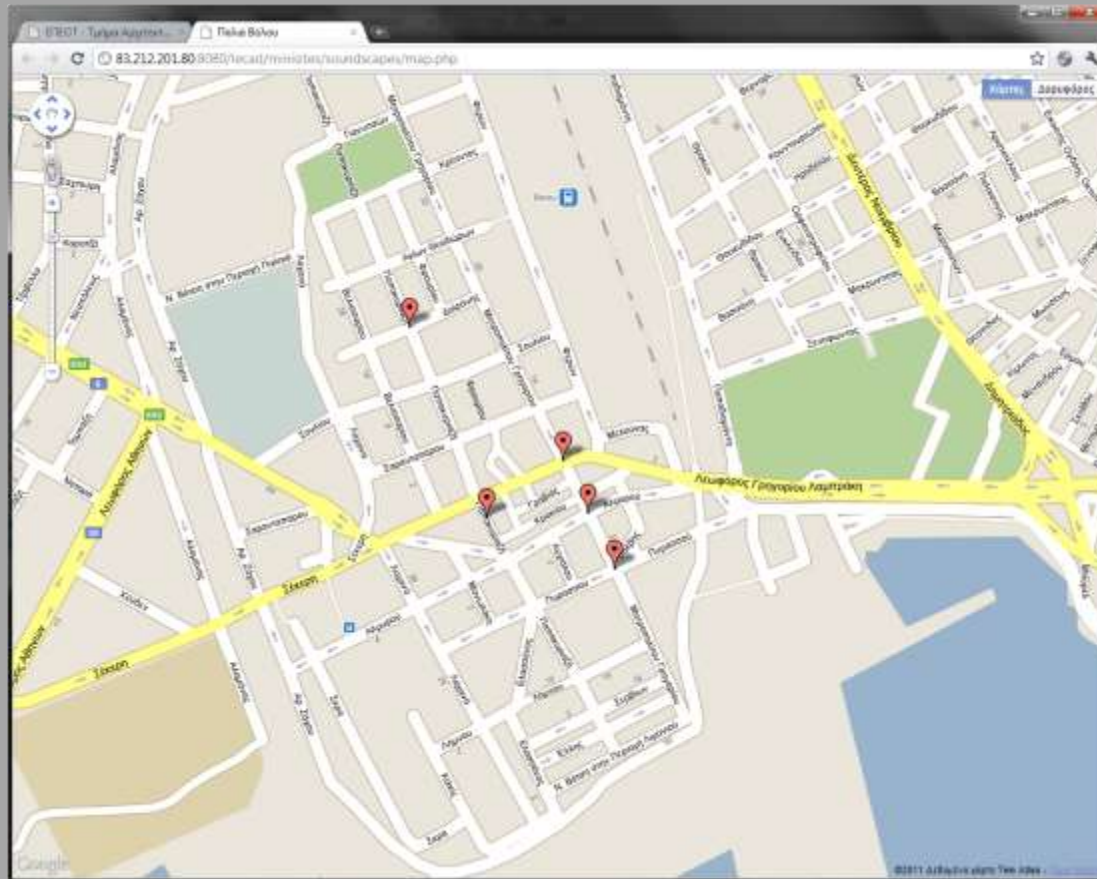
Port

THE AREA OF "PALIA"

SOUNDSCAPE OF PALIA, VOLOS



- Atmosphere recorded on every crossroad
- General urban atmosphere recorded from high-level landmarks
- Specific sounds recorded
- ▶ Soundwalks



Μητρ. Γρηγορίου - Λαμπράκη.

Ήχος:

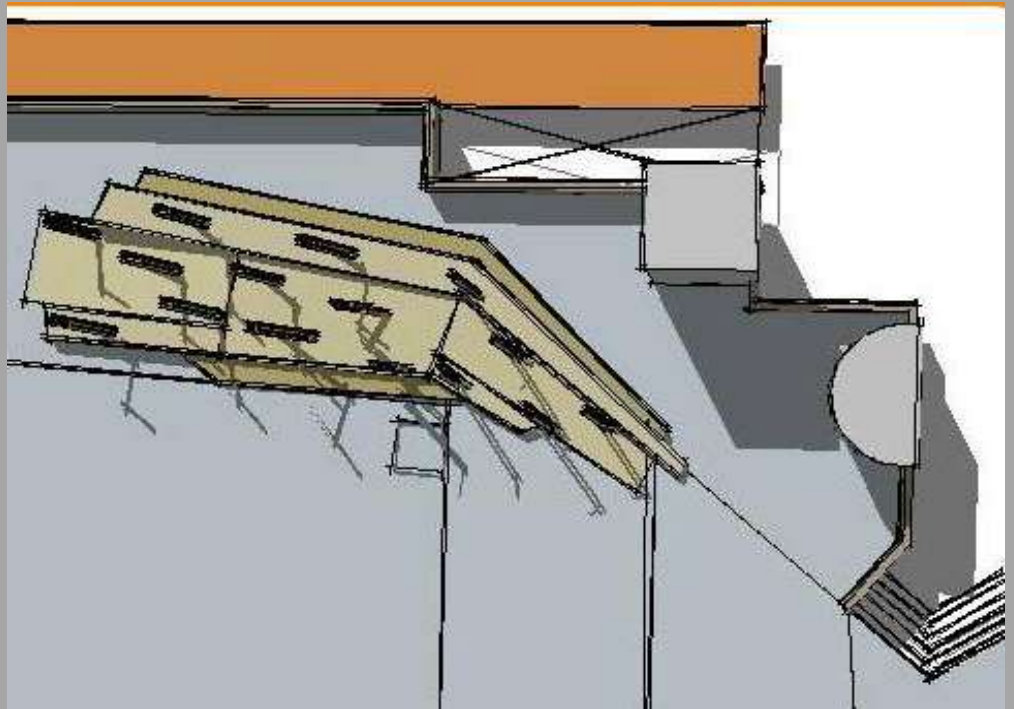
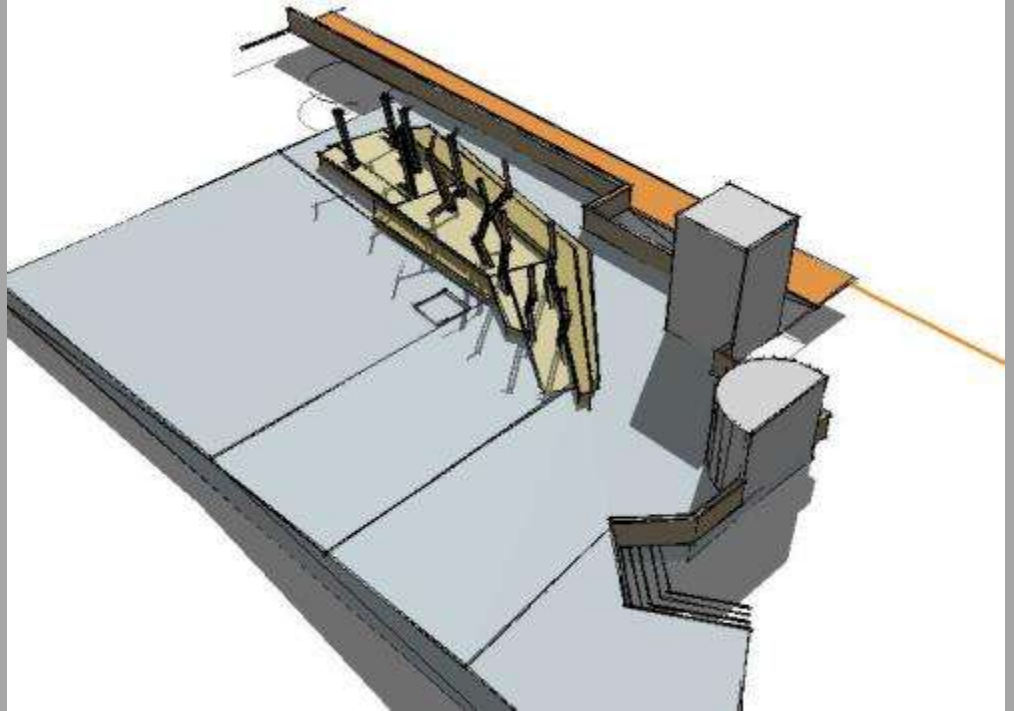


μεγάλη κυκλοφορία οχημάτων, πουλιά, φορτηγά, ομιλίες - δραστηριότητες ανθρώπων

**DÉTOUR INSTALLATION
2004**

**Dimitris Charitos
Vassilis Bourdakis
Evelyn Gavrilou
Coti K.
Aris Tsangrassoulis
Aris Andreou
Dimitris Skoufis**

**ATHENS BY ART
SUMMER 2004**









Βόλος: εξερευνώντας την πόλη και την ιστορία της

Η πολυμεσική εφαρμογή επιδιώκει να αναδείξει την πολιτισμική κληρονομιά του Βόλου μέσα από ένα διαδραστικό παιχνίδι περιηγήσεων στο χρόνο και στο χώρο. Με οπτηρία το σύγχρονο χάρτη της πόλης, ο χρήστης ταξιδεύει στο παρόν και το παρελθόν, ενημερώνεται για την αρχιτεκτονική, την κοινωνική και οικονομική ιστορία της πόλης. Οι αναρχές της νέας πόλης, η βιομηχανική και πολιτισμική ανάπτυξη του Βόλου, ο αστικός βίος, η ιστορία του περιηγήσιμου "Μουσείου" είναι ορισμένα από τα θέματα που αναπτύσσονται στον πολυμεσικό δίσκο μέσα από τρισδιάστατα μοντέλα, ηθούσιο φωτογραφικό υλικό, σύγχρονο και αρχαϊκό, βίντα και πρωτότυπες μουσικές συνθέσεις.

Volos: exploring the city and its history

The cultural heritage of the city of Volos is the theme of this multimedia production; a modern interactive map functions as the vehicle that transfers the user to the past and present of the city informing about architecture, social and economic history of Volos. The construction of Volos as an urban centre, its industrial and cultural development, education, work and entertainment in Volos are some of the topics that are presented in this CD-Rom; 3D models, modern and old photos, videos and original music constitute the multimedia environment in which the user is called to interact.

Βόλος: διαδρομές στην πόλη και την ιστορία

Volos: a travelogue in the city and its history



Βόλος διαδρομές στην πόλη και την ιστορία Volos a travelogue in the city and its history



Εθνικός υπολογιστικός εξοπλισμός
Microsoft Windows: Pentium II 300 Mhz / Windows 95, Me,
2000, XP, 128 MB RAM / DVD-ROM / Sound Card Resolution: 1024x768, 2



SARTIDA
ΟΠΤΙΚΟΑΚΟΥΣΤΙΚΗ ΕΠΕ



HERMES

Αρχειοθετείται από το Υπ. Παιδείας
μέσω του Εργαστηρίου Σελήνας



ΒΟΛΟΣ: ΔΙΑΔΡΟΜΕΣ ΣΤΗΝ ΠΟΛΗ ΚΑΙ ΤΗΝ ΙΣΤΟΡΙΑ ΤΗΣ



ΠΑΡΑΡΤΗΜΑΤΑ



ΙΣΤΟΡΙΑ

ΒΙΟΜΗΧΑΝΙΑ

ΕΚΠΑΙΔΕΥΣΗ

ΨΥΧΑΓΟΓΙΑ



Η ΟΙΚΟΝΟΜΙΑ



ΠΑΡΑΡΤΗΜΑΤΑ



ΙΣΤΟΡΙΑ

ΒΙΟΜΗΧΑΝΙΑ

ΕΚΠΑΙΔΕΥΣΗ

ΨΥΧΑΓΟΓΙΑ



NAVIGATION MAP

INTRODUCTION

HISTORY

- VOLOS
- THE BEGINNING OF VOLOS
- THE NEW CITY OF VOLOS

EDUCATION

- EDUCATION
- EDUCATION IN VOLOS
- THE NIKOLAIDIS SCHOOL
- THE COMMERCIAL SCHOOL OF VOLOS
- GREEK – FRENCH SCHOOL
- THE HIGHER GIRL'S SCHOOL
- UNIVERSITY OF THESSALY

INDUSTRY

- INTRODUCTION
- IN THE INTER-WAR YEARS
- IN THE POST-WAR YEARS
- RE-USE OF INDUSTRIAL BUILDINGS
- LIST OF INDUSTRIES

ENTERTAINMENT

- INTRODUCTION
- THE HATZINIKOLAOS ROOM
- THE SCALA OF MILAN
- STUDENT PERFORMANCES

CITY AREAS

- THE PALEA NEIGHBORHOOD
- THE FIELDS OF MARS
- RAILROAD STATION
- NEA IONIA
- THE VOLOS' TOWN-HALL
- VOLOS CENTRAL AREA
- THE HARBOUR OF VOLOS
- THE AREA OF AGHIOS KONSTANTINOS
- ANAVROS AREA

APENDICES

DEMEKAV

HERMES

CITY MAPS

BUILDINGS

BIBLIOGRAPHY

RE-USE OF INDUSTRIAL BUILDINGS