DEXTERA
C O N S U L T I N G

"Grécke skúsenosti s využitím štrukturálnych fondov""

21st June 2007,
iDEME, Bratislava '07

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Operational Programs Information Society

- Greek Population: 10M

- GR OPIS (2000-2006)

- Public Expenditure 2.269,6M€, National Contribution 25% & EU Contribution 75%

- ESF (25,6%) & ERDF (74,4%) combined funding

- 5 Action Lines
  - Education & culture (14,8%)
  - Citizens & quality of life (31,0%)
  - The digital economy and employment (31,8%)
  - Communications (20,0%)
  - Technical Assistance (2,4%)

- Slovak Rep. Population: 5M

- SK OPIS (2007-2013)

- Public Expenditure 1.168,3M€, National Contribution 15% & EU Contribution 85%

- ERDF funded only

- 4 Action Lines
  - Electronization of public administration and development of electronic services (63,0%)
  - Development and renewal of the national infrastructure of repository institutions (11,6%)
  - Improvement of broadband internet access (22,3%)
  - Technical Assistance (3,1%)

A long story short…
…Greek "experience" before NSRF 2007-2013

NATIONAL DEVELOPMENT PLANS OF GREECE FUNDED FROM EU 1986-2006 BASED ON THE INITIAL APPROVALS

	(MIP). (1986-1989) In thousands ECU** Base line prices 1986	1st C.S.F. (1989-1993) In thousands ECU** Base line prices 1989	2nd C.S.F. (1994-1999) In thousands ECU** Base line prices 1994	3rd C.S.F. (2000-2006) in thousands Euros Base line prices 2000
Total Budget	**2.101.933**	**14.342.054**	**29.721.300**	**44.363.540**
National Public Participation	695.740	5.802.196	7.069.900	11.126.075
EU Contribution	2.576.000	7.193.241	13.980.000	22.707.000
Private Participation	210.193	1.346.617	8.671.400	10.730.465

* MIP (Mediterranean Integrated Programmes) after 1989 was incorporated to the 1st C.S.F.
** 1 ECU = 1 Euro (exchange rate on 1/1/1999)
Source:Greek Ministry of Economy and Finance

Operational Program Information Society (OPIS) was the 1st horizontal action line dedicated to Information Society

Identity

- **Title of OP:** '**INFORMATION SOCIETY**'
- **Duration of OP: 1.1.2000 to 31.12.2006**
- Deadline for completion of the OP Actions: **31.12.2008**
- **Deadline for full payment of the OP Action: 31.12.2008**
- Priority Axis CSF 2000 – 2006: 6 – Information Society
- **National Independent Managing Authority for the OP: Greek Ministry of Economy and Finance**
- OP Submission: **April 2000**
- Date of OP Approval: 14.03.2001, C (2001) 551
- Date of OP Modification: 29.12.2004, C (2004) 5868
- Date of 2nd OP Modification: 20.12.2005, C (2005) 5839
- Programme Complement Submission: May 2001

Budget:

- **Total Cost: 2.676 MEURO**
- **Public Expenditure: 2.167,5 MEURO (80,99% of the Total Cost)**
- **Community Contribution ERDF & ESF: 1663,4 MEURO (76,74% of the Public Expenditure)**
- Community Contribution ERDF: 1.242,3 MEURO (57,3% of the Public Expenditure)
- Community Contribution ESF: 421,1 MEUR O (19,42% of the Public Expenditure)
- National Participation: 504,1 MEURO (23,26% of the Public Expenditure)
- Private Participation: 508,5 MEURO (19% of the Total Cost of OP)

OP Information Society 2000-2006
Action Lines

- **Action line 1 – Education and Culture**

  The aim is to adapt the educational system to the needs of the digital age and to achieve increased use of new technologies in education, including the networking of schools, universities and the academic community (including administrative services); training teachers and pupils; and developing digital educational content.

- **Action line 2 – Citizens and Quality of Life**

  Using ICTs for improved services to the public in critical sectors of the public administration, and improving of the quality of life through the introduction of new technologies in the areas of health and welfare, the environment and transport as well as to develop Land Registry applications and infrastructure.

- **Action line 3 - The Digital Economy and Employment**

  Creating conditions for conversion to the "new economy", through the promotion of e-business and research and its relationship to production, skills upgrading, employment and tele-work and the exploitation of Information and Communication Technologies (ICT) by the SMEs.
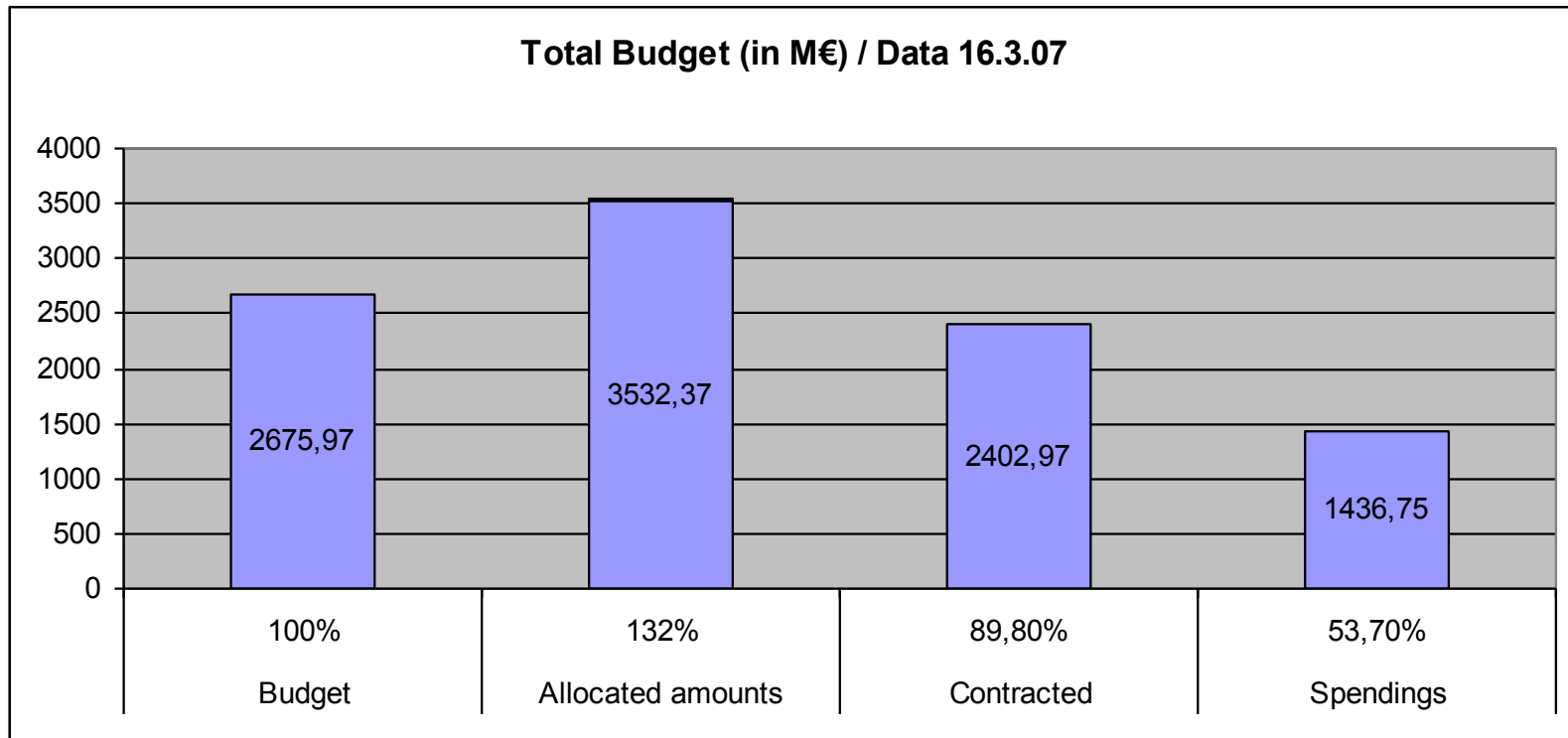
- **Action line 4 – Communications**

  Supporting the market liberalisation process and **developing telecommunications infrastructure in remote areas for the provision of advanced services at low cost and points of access to the IS for the public** and the utilization of ICTs by the Public Media.
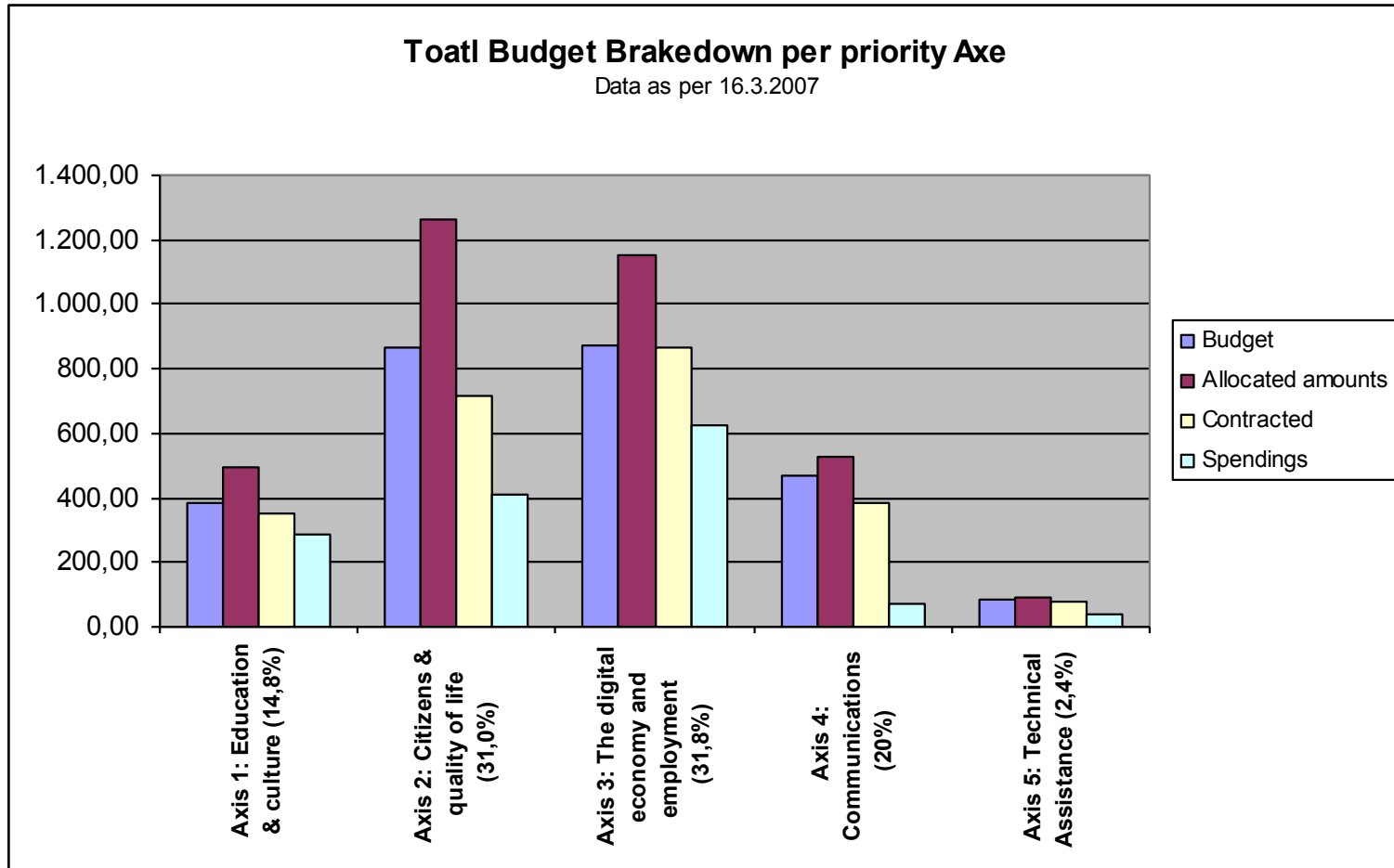
- **Action line 5 - Technical Assistance.**

Current status of OPIS implementation
Budget/Allocations/Contracts/Spending

Total Budget (in M€) / Data 16.3.07

	Budget	Allocated amounts	Contracted	Spendings
Value	2675,97	3532,37	2402,97	1436,75
Percentage	100%	132%	89,80%	53,70%

Current status of OPIS implementation
Budget/Allocations/Contracts/Spending

Toatl Budget Brakedown per priority Axe
Data as per 16.3.2007

Legend:
- Budget
- Allocated amounts
- Contracted
- Spendings

X-axis categories:
- Axis 1: Education & culture (14,8%)
- Axis 2: Citizens & quality of life (31,0%)
- Axis 3: The digital economy and employment (31,8%)
- Axis 4: Communications (20%)
- Axis 5: Technical Assistance (2,4%)

Projects funded from Structural Funds that changed the way we live, learn, play and communicate….

- Education
  - GRNET / GUNET / EDUNET

- Public Sector
  - SYZEFKSIS / ARIADNI / Grants for SMEs
  - HOT SPOTS

- Broadband Penetration
  - OPTICAL MANs / FUNDING INVESTMENTS FOR BROADBAND PENETRATION

The Greek Network of Research, Academic and Education Community

Research Community: GRNET *(Backbone)*	www.grnet.gr	35,8 M Euros
Academic Community: GUnet *(Based on GRNET Backbone + local hubs and additional services)*	www.gunet.gr	57,9 M Euros
Education Community: EDUnet *(Based on GRNET Backbone + local hubs and additional services provided from Greek Universities)*	www.sch.gr	15,9 M Euros

GRNET

- The **Greek Research and Technology Network (GRNET)** supports the research and development of Information and Communication Technologies (ICT) within Greece and internationally, through:

  - the provision of its high-capacity **networking** and **grid computing** infrastructure,

  - the strengthening of **e-Learning** & **e-Business** practices, as well as

  - the participation in **international research and education** efforts.

- GRNET operates under the auspices of the <u>Ministry of Development and is supervised by the General Secretariat for Research and Development.</u>

- The network connects 27 Universities, 15 Technical Universities, 33 Research Institutions and 12,673 schools to the Pan-European Research and Education Network, **GEANT**.

GRNET Topology
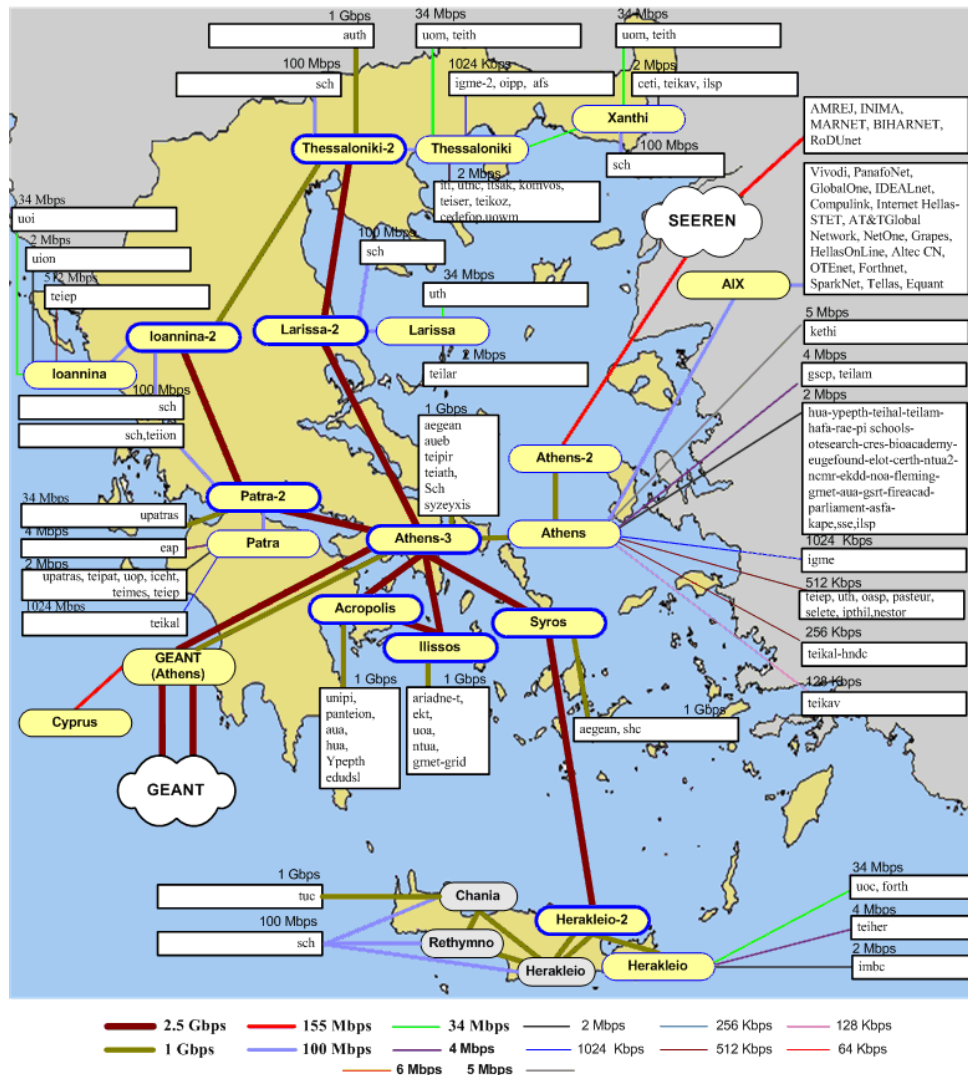
The GR-NET backbone consists of network nodes in 7 major greek cities, that is, Athens, Thessaloniki, Patras, Ioannina, Xanthi, Heraklion and Larisa. All 7 nodes are co-located in the Greek Public Network Operator's (OTE) central offices under a leasing aggreement.

GUnet
Objective & Description

- The project **"Academic Internet- GUnet: Access Network and Core Services for the Education"** was initially financed from the 2nd CSF (1994-1999) *(Operational Program Education and Initial Professional Training).*

- Implementation is based upon both the **experience of the institutions-members (all the Greek Universities) and of the civil non profit society GUnet** (Management Authority).

- **Advanced telematics services of horizontal character as well as digital content** has been implemented, aiming to cover the needs for information and use of advanced applications by the users of the Academic Community.

GUnet Services

- The development of **advanced telematics services <u>(catalogue services, security, voice-over-IP),</u>** for the academic community. These services will have a horizontal character, integrating complementary actions of the institutions- members.

- The development of **digital content** and especially **ICT related content**, aiming at the <u>dissemination of the learning content created within the Greek Academic Institutions.</u>

- The development of **synchronous and asynchronous e-learning services** and the implementation of projects for the acquisition of know-how in the new technologies of telematics and networks by the members of the Network Operations Centers (NOC).

GUnet
The VoIP service

- The Voice Over IP service constitutes one of the main activities of the GUnet.

- **The objective of the service is the provision of voice communication without any charge among the end users of the academic institutions.**

- By this way:
  - the potential of the data network to transport voice packets is developed,
  - the collaboration and communication among the members of the academic community is strengthened, and simultaneously
  - the telecommunications costs of academic institutions are limited.

- The service implementation was based on **the international standard H.323 that determines a set of network components and protocols for the transmission and reception of voice, video and real time data.**

- **The service is provided by GUnet in collaboration with GRnet.**
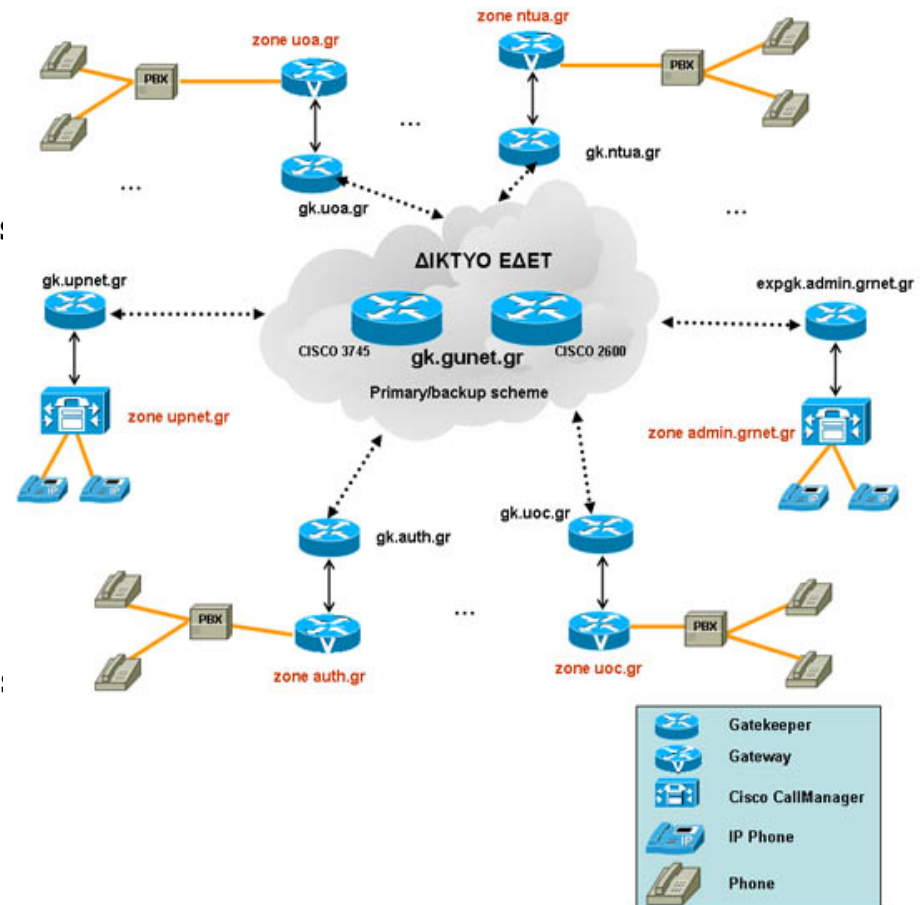
Greek School Network Objective & Description

- The **Greek Schools' Network (GSN - www.sch.gr)** is the educational intranet of the Ministry of Education and Religious Affairs (www.ypepth.gr)

- It interlinks all schools and provides basic and advanced telematics' services.

- It contributes to the creation of a new generation of educational communities, which takes advantage of ITC in the educational procedure.

- The implementation of the Greek Schools' Network is funded by OPIS 2000-2006 in close cooperation between the Ministry of Education as well as 12 Research Centers and Highest Education Institutes, specialized in network and Internet technologies.

Greek School Network
Users Categories

In order to maintain the educational orientation of the network, **its users are certified individuals, educational or administrative entities of the National Education.** In particular, the users are divided in the following categories:

- **Schools :**
  At least one user account have been provided to all secondary schools and 92% of primary schools.

- **Administrative units :**
  At least one user account has been provided to more than 2.282 administrative units of National Education.

- **Educational & Administrative staff :**
  The Greek Schools Network offers **fully personalized access to all educational staff,** with the dial-up service being broadly used under certain terms.

- **Students :**
  Network access is provided to students through the school laboratories. In addition, pilot personalized access is offered to second grade students of Achaia and Corinthian Prefectures.

Greek School Network Architecture

- **The network is hierarchically structured into three layers:**

  - **Core Network:** The Greek Schools Network interconnects with the Greek Research and Technology Network (GRNET, www.grnet.gr), in seven main points (Athens, Thessaloniki, Patras, Heraclion, Larisa, Ioannina and Xanthi), using it as its core network.

  - **Distribution Network:** The Greek Schools Network installs in the capital of every prefecture network and computational equipment, thus ensuring optimal access of the prefecture's school to the network and its services

  - **Access network:** It is used to directly and efficiently interconnect the schools to the prefecture's access point The telecommunication junctions used to interconnect each school are selected on the basis of financial and technical criteria from an array of available options:

    - Digital ISDN circuit (bandwidth: 64 - 128 kbps)

    - Analog leased line (0,128 - 2 Mbps)

    - Public Switched Telephone Network circuit (56 kbps)

    - Wireless link (10 Mbps)

    - VDSL circuit (10 - 15 Mbps)

    - ADSL circuit (384/128 Kbps, pilot implementation)

Εθνικό Δίκτυο Έρευνας και Τεχνολογίας
Δίκτυο Διανομής ΠΣΔ
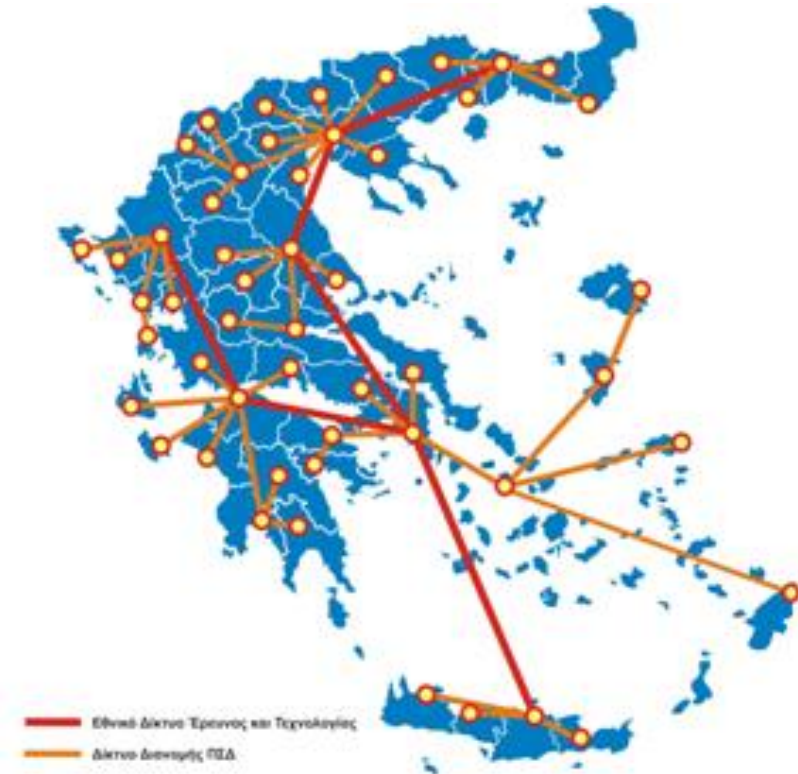
Greek School Network Available Services

- The Greek Schools Network offers a broad package of services to its units and users. The most important of these are:

  - **Automated registration** procedure for educational staff and students - Users Administration Service
  - **Remote network access (dialup)**
  - **E-mail,** accessible through the POP3 and IMAP protocols, as well as the world wide web (www.sch.gr/mail)
  - **E-mail lists** (www.sch.gr/lists)
  - **Web Portal** (www.sch.gr), offering news services and personalized access to telecommunication and informatics services
  - **Controlled access to the World Wide Web, prohibiting access to web sites with harmful content for underage**
  - **Web hosting** for static and dynamic pages
  - **Wizards for automatic webpage creation**
  - **Asynchronous distance learning**, for hosting and distributing digitized lessons (www.sch.gr/e-learning)

  - **Teleconference** (www.sch.gr/conf)
  - **Video On Demand** (www.sch.gr/vod), delivering streaming educational multimedia material
  - Live Internet transmission **(webcasting)** of various of various events (www.sch.gr/rts)
  - **News** (www.sch.gr/news) and Discussions (www.sch.gr/forums)
  - **Electronic Magazine** (www.sch.gr/ magazine)
  - Personal Calendar, Personal Address Book, Notes and "To Do", accessible through the World Wide Web
  - **Directory Service**
  - **GIS**
  - **Voice over IP**
  - **Online statistics** (www.sch.gr/ statistics)
  - **Help-Desk,** for immediate solution of technical problems. The Help-Desk is accessible through one-phone 801-11-801-81 and (www.sch.gr/ helpdesk)

http://www.sch.gr

Greek School Network /Stats…

	Schools	Students	Labs	Workstations	Students per workstation
Primary Schools	5.897	596.314	2.202	12.722	48,8
High Schools	1.837	341.975	2.284	21.740	73
Lyceums	1.237	230.871	987	17.203	13,
Technical Lyceums	448	126.501	731	11.689	10,82
TOTAL	9.419	1.295.661	6.204	63.354	20,45

These rates are useless if these workstations are not connected !

Greek School Network /Stats…
… and conclusions

Average Data Transfer per day (1GB) - 2006

Μέσος όγκος δεδομένων ανά ημέρα [GB]

Legend:
- **Incoming**
- **Outgoing**
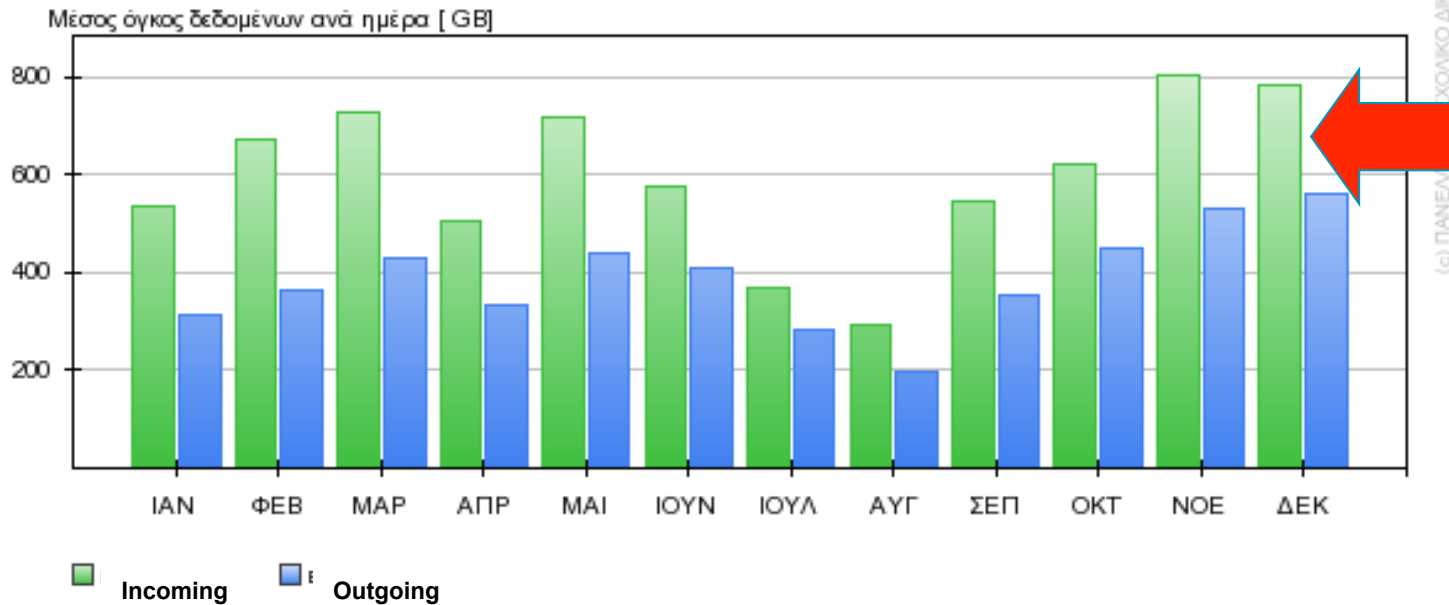
This is the real added value for the education community !

Public Sector Broadband Network "SYZEFXIS"
(http://www.syzefxis.gov.gr/)

- **Scope of the project:** Creation of a Voice, Data and Video network for Greek Public Sector Bodies

- **Participating Agencies:** Initial plan was 1800 PS bodies but currently more than 3300 PS bodies have applied for access in "Syzefxis".

- **Public Bodies covered:**
  - All the bodies of the **Ministry for the Interior, Public Administration and Decentralization**: general secretariats, regions, local government organisations, prefectures, citizen service centers.
  - All the bodies in the **health sector**: **Regional Health System, hospitals, health centres etc.**
  - All the **managing authorities of the 3rd CSF of the ministry of Economy and Finance.**
  - All the **army offices** of the country.

  The number of final clients is approximately **1,800 and each one of them is connected only with its central building**..

"SYZEFKSIS" coverage map
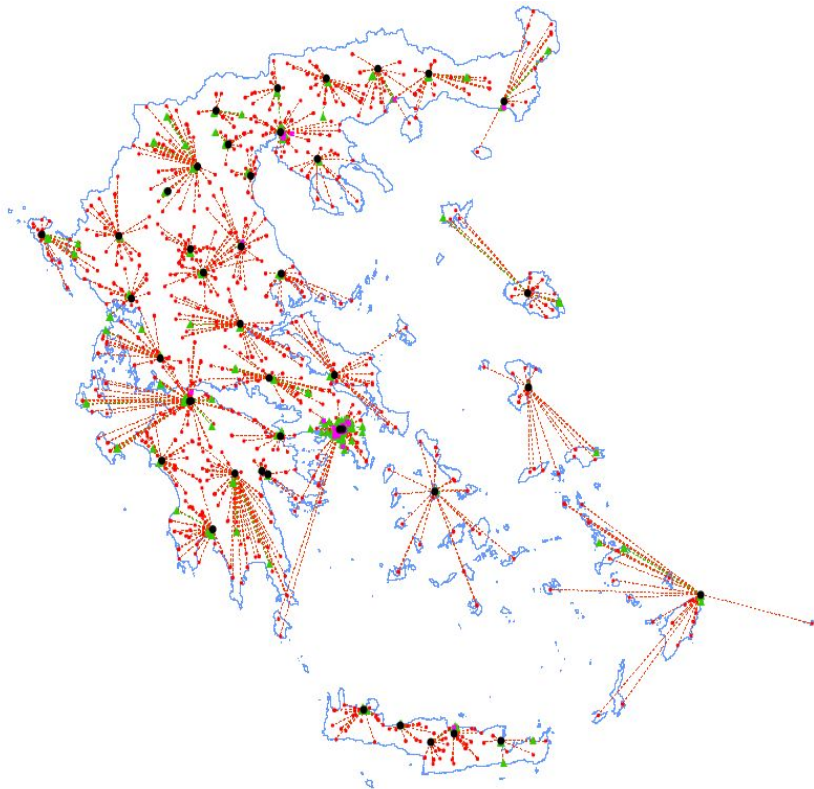
- **Public Sector bodies are connected to "Syzefksis" with a access speed of 2 up to 34Mbps (both ways) and with guaranteed voice and video quality.**

- **Soon the network shall be upgraded to 155 and 622Mbps (NSRF 2007-2013)**

- **It includes 700Mbps internet connection and 2.5 to 10Gbps Backbone links**

Telephony & Video Services

- **Internal PS telephony the cost is covered by the project (Zero cost for the participated PS bodies).**

- **External telephony with a low cost in a pre-agreed rate**

- **National Calls – All national calls is special rate and without and minimum standard monthly subscription cost.**

- **Video calls**

- **Teleconference**

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Secure Access for all Public Sector Bodies to the INTERNET

- Firewalls
- Private IP addresses in all Syzefksis
- Web connection via proxy
- Reverse proxy connection for all portals
- Antivirus – in browsing and e-mail
- Content Filtering
- IDS – Intrusion detection systems
- Antispamming – for e-mail

Access to the European Network TESTA
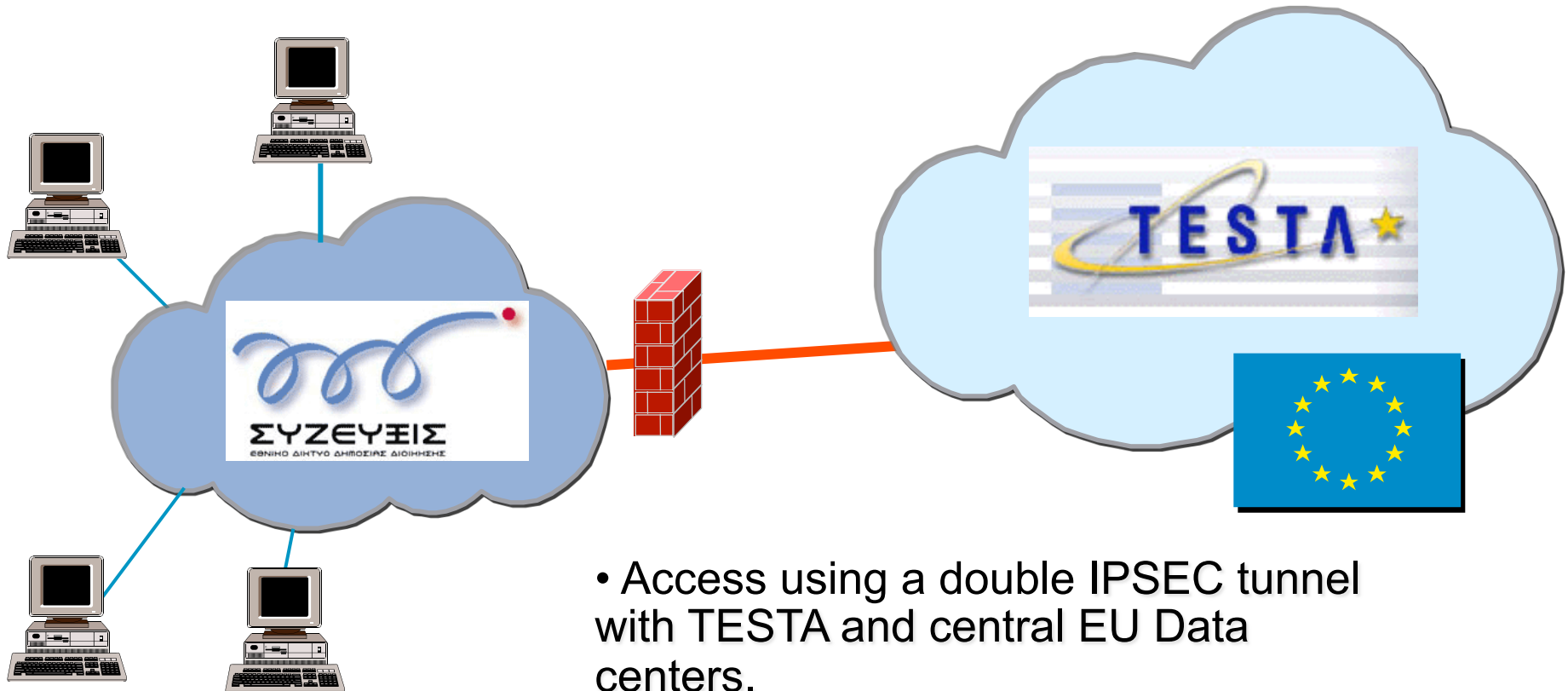
• Access using a double IPSEC tunnel with TESTA and central EU Data centers.

• Increased security to classified EU applications

Interoperability of Public Sector Information Systems

- Access to databases and applications
- Data sharing between PS bodies
- E-Government applications (E-gov - G2G, G2C, G2B)

E-Learning

Digital Signature in Public Sector (PKI) with 50.000 Digital Certificates in Smart Cards

2500 SSL certificates for Public Sector Portals
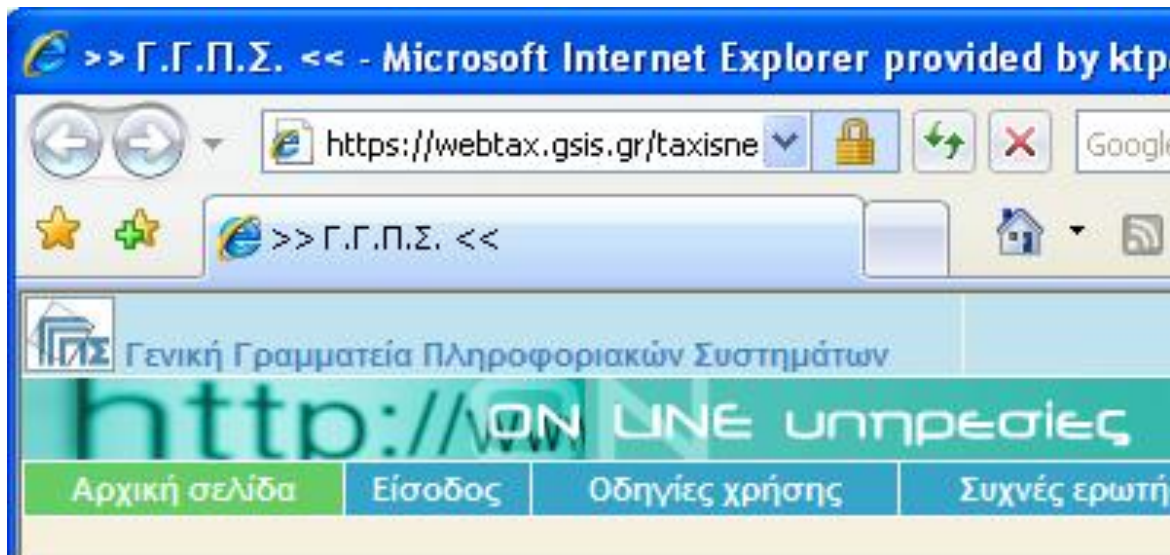
4 Virtual Private Networks

VPN-1
Public
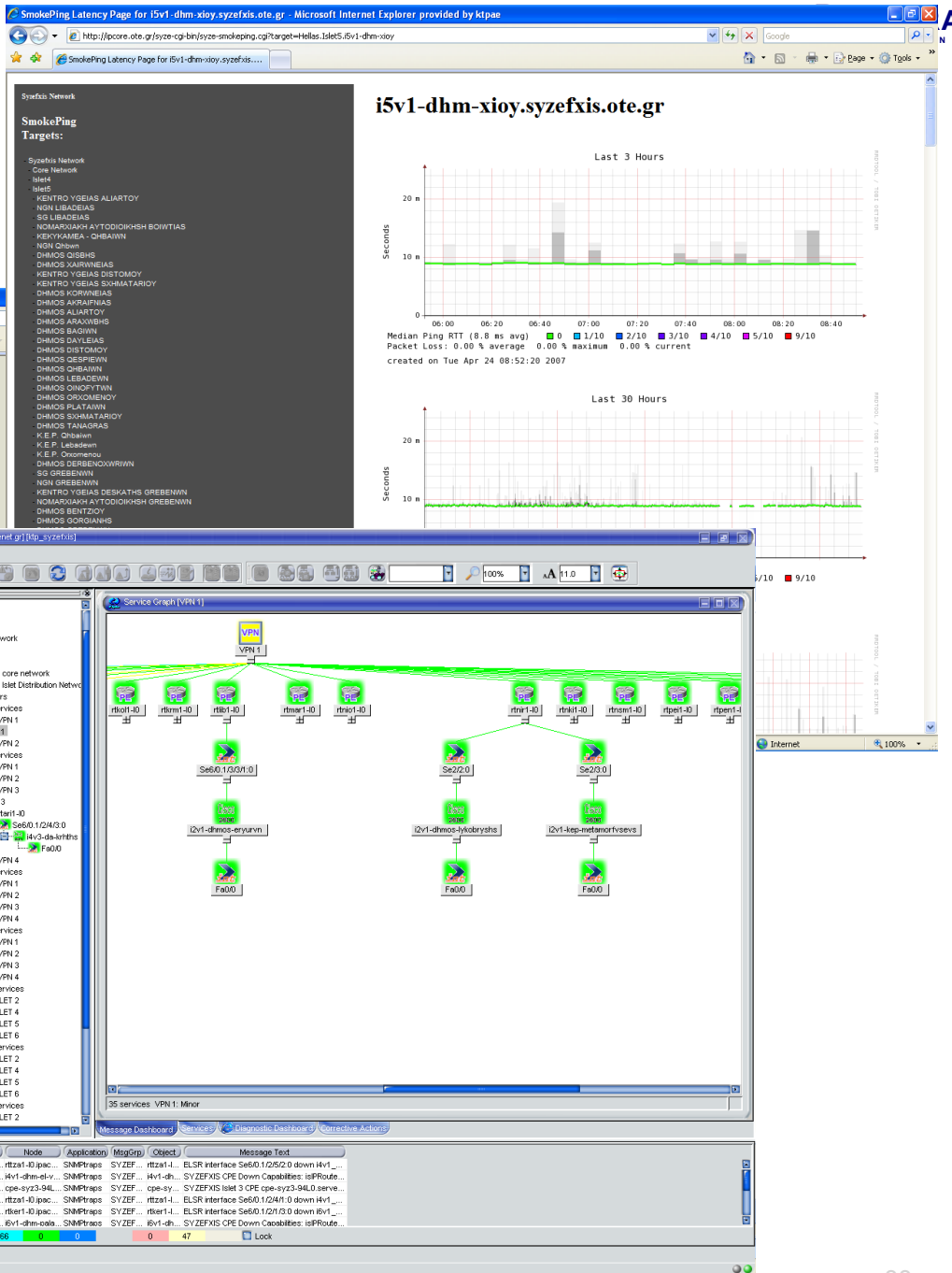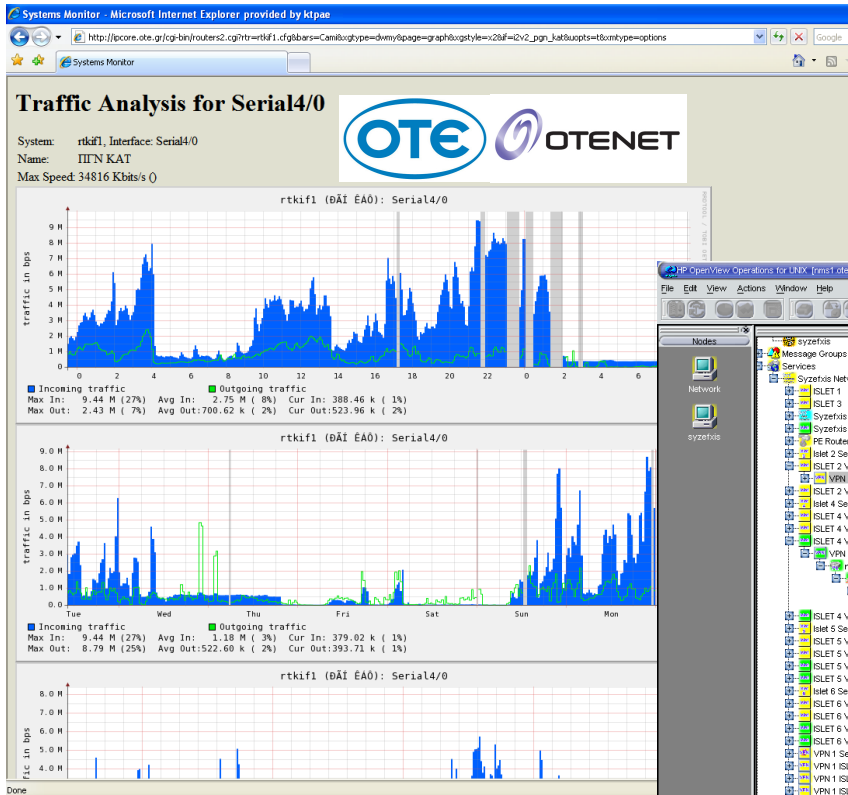**Administration**

VPN-2
Helath

VPN-3
Min. of Finance

VPN-4
Army Offices

Syzefksis is SLA!!!

- **The objective of "SYZEFXIS" is the provision of Internet services and not infrastructures while it applies the logic of providing services at the level of services with pre-agreed qualitative and quantitative characteristics (Service Level Agreement).**

SLA OTE

SLA ALTECTELECOMS

SLA FORTHNET

Implementation time and cost

1
2005

3
2006 - 2008

■ **implementation**

■ **In operation**

1. **The "SYZEFXIS" project, which is financed by the OPIS in the framework of Measure 2.2 (e-Government Priority Axis),** is the first venture of providing large scale broadband telecommunication services in Greece
2. **The budget of the project is approximately 75.5 m€, 70 m€ of which concern the technical part of the project, while 5.5 m€ the training part in the "SYZEFXIS" services.**

Innovative applications: Greek Earthquake Institute in Syzefksis

N.O.A. STRONG MOTION NETWORK

(Updated by November, 2006)

- ▲ analog (SMA-1)
- ▲ digital (A-800/900)
- ▲ digital (QDR)
- ▲ digital (ETNA)
- ★ local array
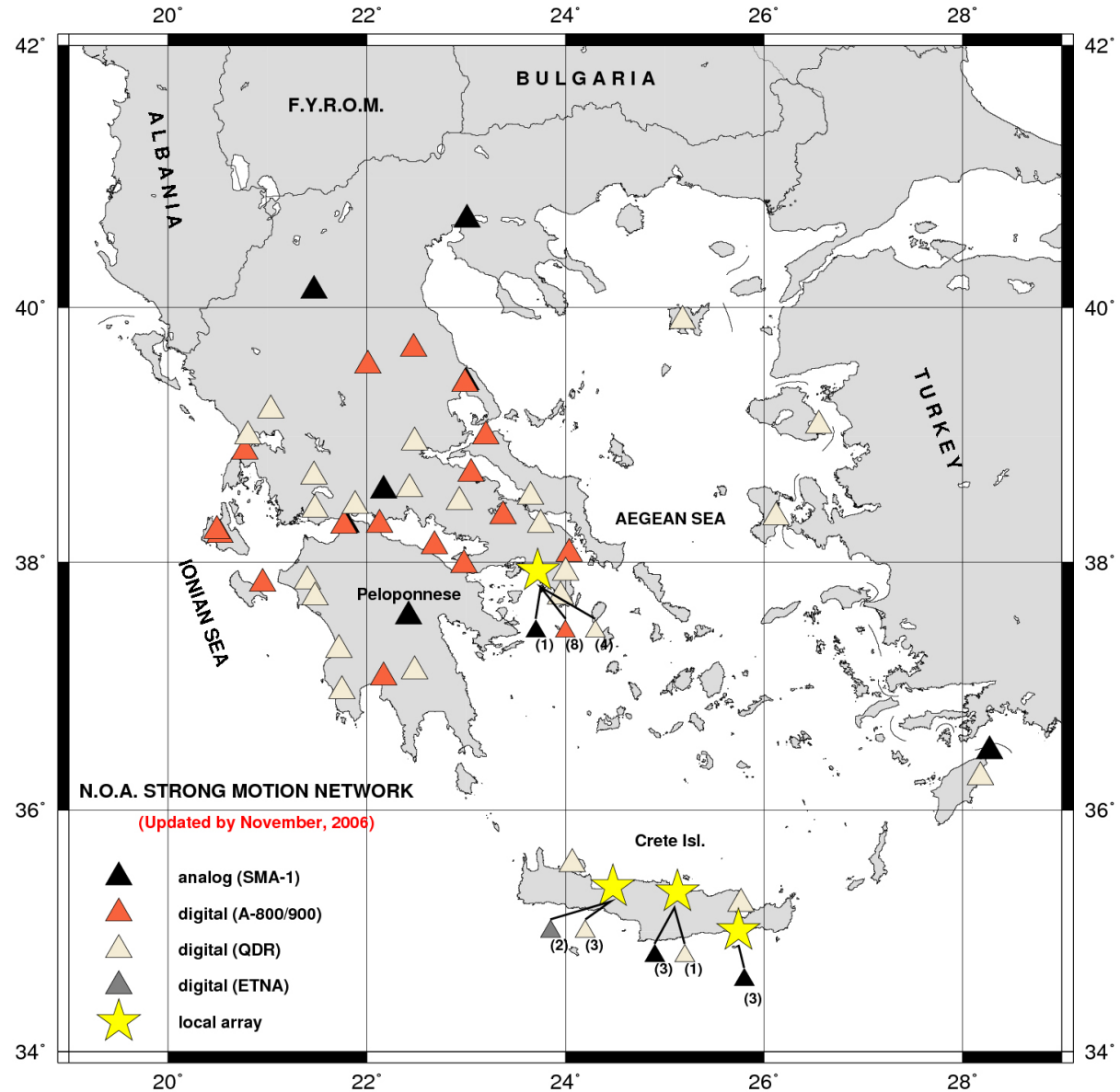
Innovative applications: Greek Earthquake Institute in Syzefksis
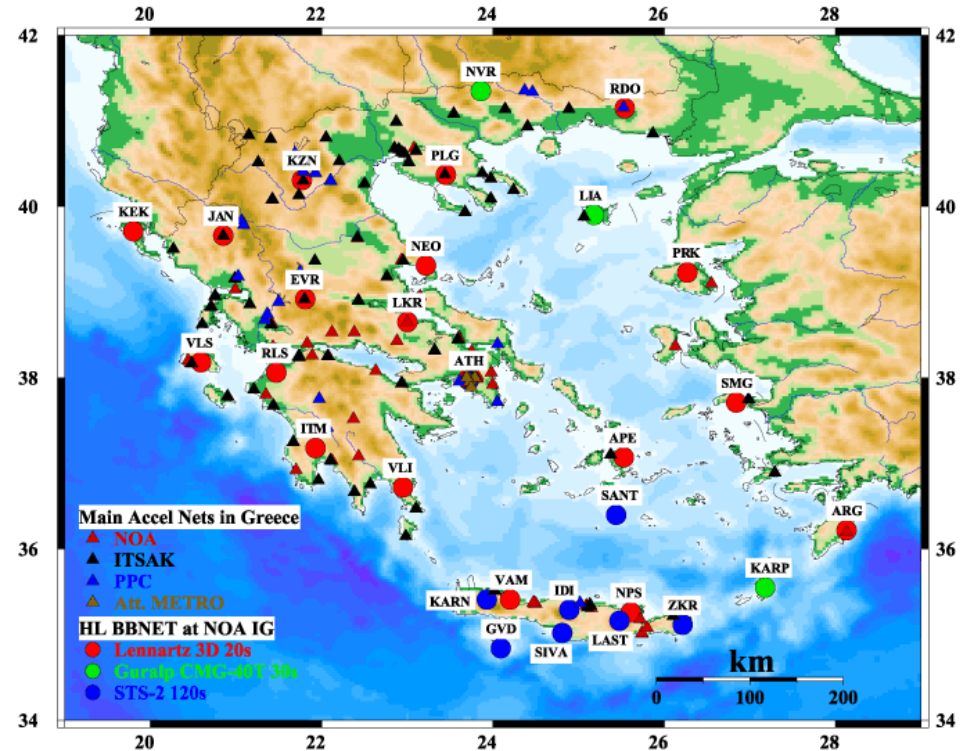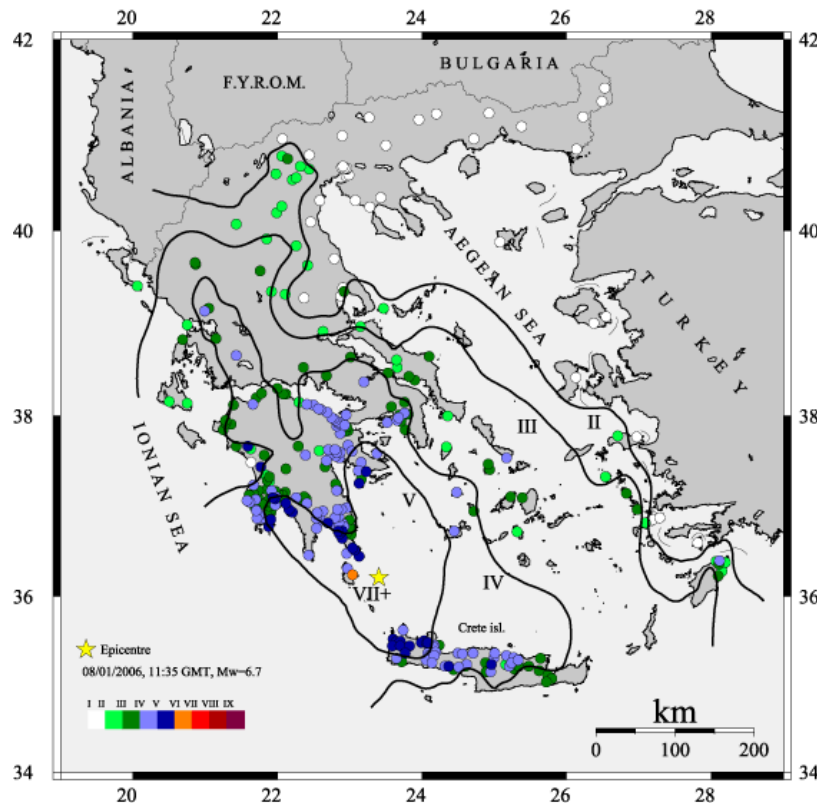
- 40 labs are already connected
- Until end of 2007 another 60 points to be connected.

Innovative applications: Civil Protection Agency in Syzefksis
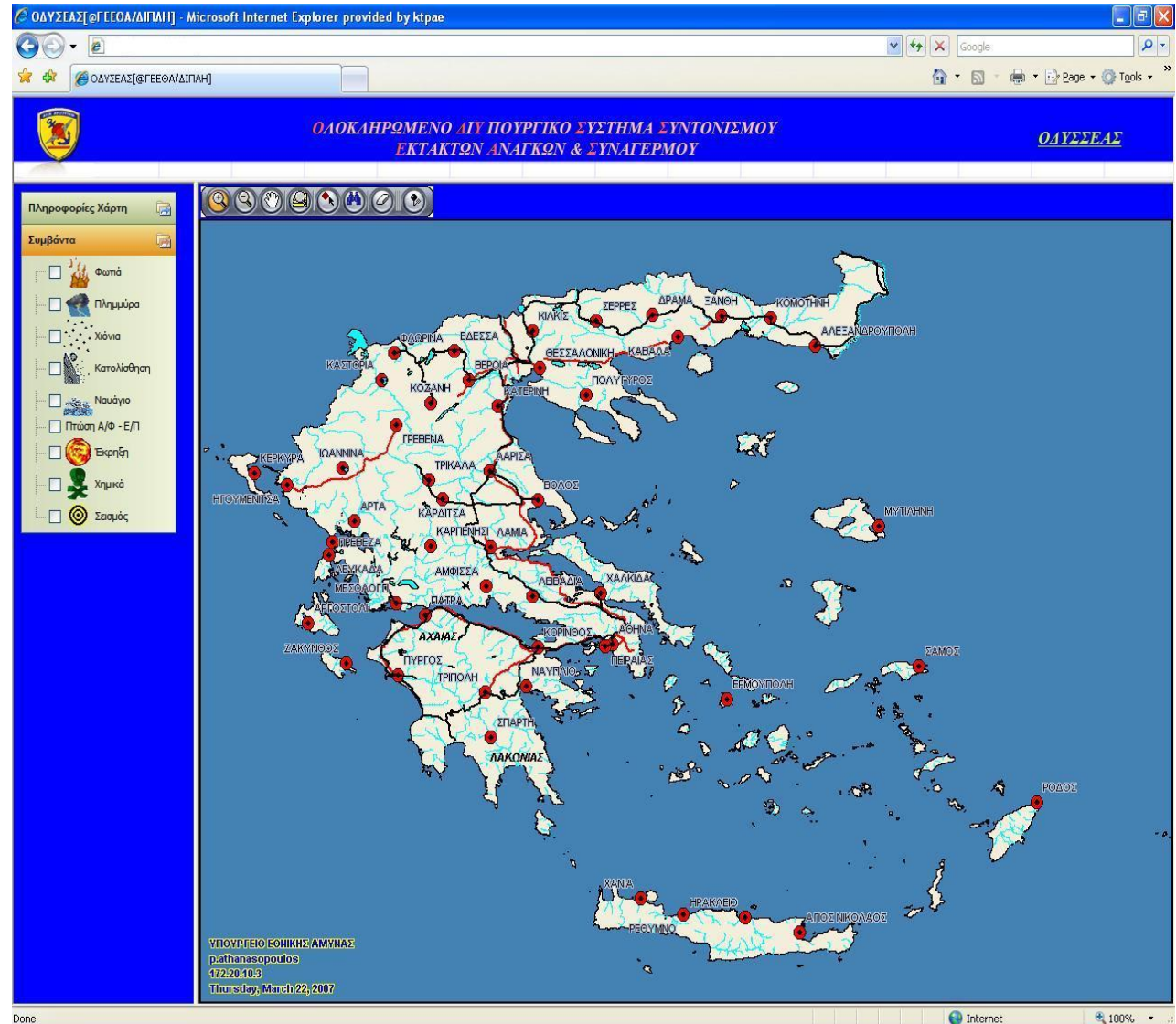
Innovative applications: Municipality of Karditsa (Central Greece) Fleet Management using Syzefksis
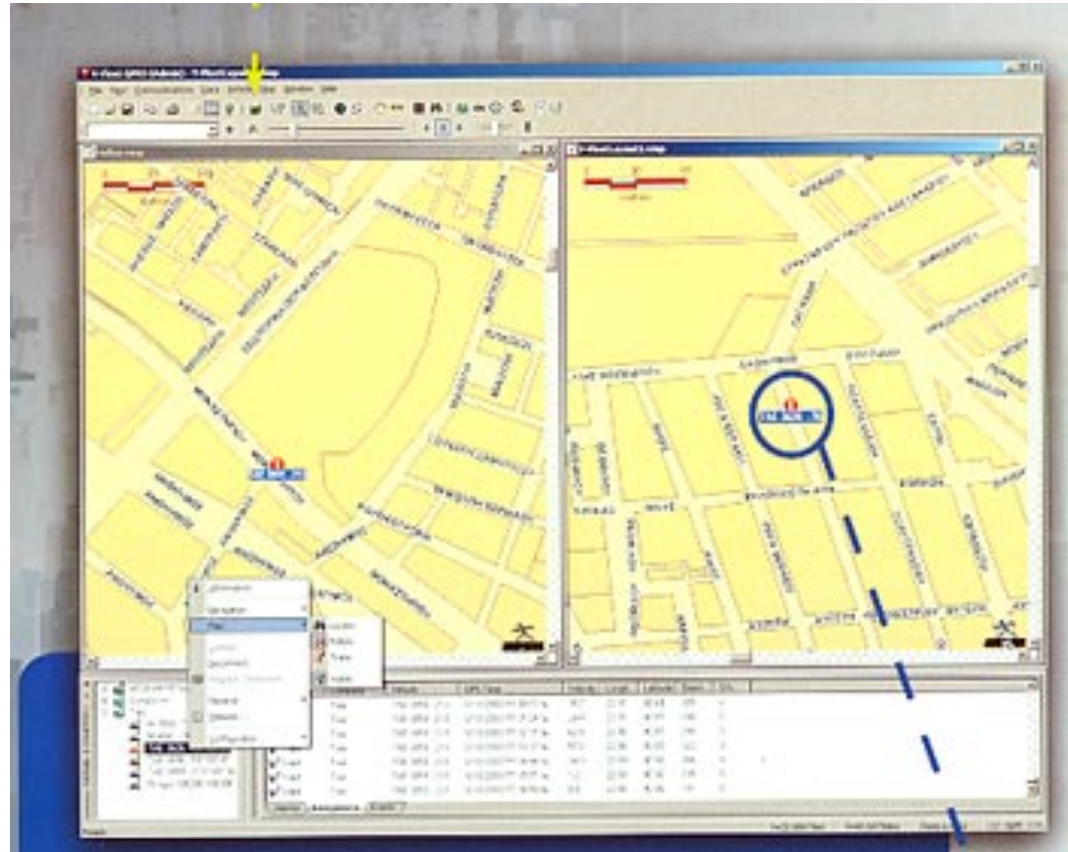
Innovative applications: National Television in Syzefksis

Innovative applications: National Television (ERT) is using Syzefksis

- **100 studio for teleconference all over the country**

Public Sector Broadband Network "SYZEFXIS"
(http://www.syzefxis.gov.gr/)

Project Name & Funding source	**The "SYZEFXIS" project, which is financed by the OPIS in the framework of Measure 2.2.,** is the first venture of providing large scale broadband telecommunication services in Greece **The budget of the project is approximately 75.5 m€, 70 m€ of which concern the technical part of the project, while 5.5 m€ the training part in the "SYZEFXIS" services.**
Project Description and scope	**The "SYZEFXIS" project implements the network of the public administration which will connect all the bodies of the public sector (hospitals, social insurance funds, libraries etc), the public administration and local authority with broadband networks for their internal communication so as to be able to provide all citizens and enterprises access, via the Internet, to all the services of the public administration without digital exclusions.** The "SYZEFXIS" project is a typical project of providing telecommunication and telematic services of large range and scale since **it covers all the Greek territory with presence in approximately 1,800 points.**
Public Bodies covered	Such bodies (65 in total) are: ▪All the bodies of the **Ministry for the Interior, Public Administration and Decentralization**: general secretariats, regions, local government organisations, prefectures, citizen service centers. ▪All the bodies in the **health sector**: **Regional Health System, hospitals, health centres etc.** ▪All the **managing authorities of the 3rd CSF of the ministry of Economy and Finance.** ▪All the **army offices** of the country. The number of final clients is approximately **1,800 and each one of them is connected only with its central building**..
Services	"SYZEFXIS" provides advanced telematic services and value added services: **advanced telephony and fax services, calls to/ from fixed and mobile telephones as well as telephony for abroad, access to the Internet with all the related services, teleconference, tele-training, remote access services (tele-work), certification and electronic transaction security services (infrastructure of public key) etc.** The provision of single prices for telephone calls outside "SYZEFXIS" (local –long distance – mobile – international) follows the international practice while the telephone calls inside "SYZEFXIS" are provided rate-free.
Operation Model	**The objective of "SYZEFXIS" is the provision of Internet services and not infrastructures while it applies the logic of providing services at the level of services with pre-agreed qualitative and quantitative characteristics (Service Level Agreement).**

Public Sector Broadband Network "SYZEFXIS"
(http://www.syzefxis.gov.gr/)
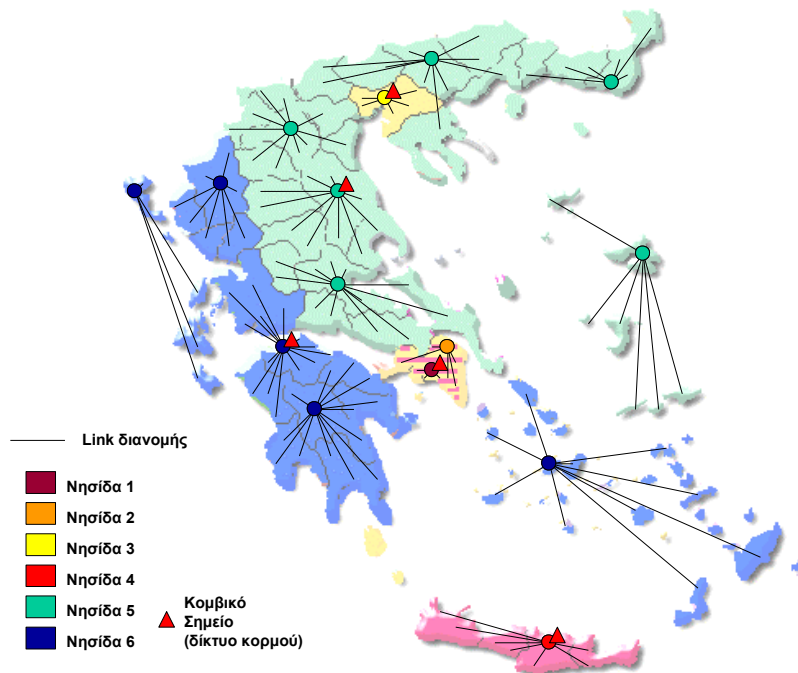
- **Subproject 1 (ATTICA-1): Area 1 (Ministries, general secretariats, managing authorities and army offices –services located in the region of Attica).**
- **Subproject 2 (ATTICA -2): Area 2 (The region of Attica, the local government bodies of the 1st and 2nd degrees and the Citizen Service Centres of the region of Attica as well as the hospitals and health centres of the same region).**
- **Subproject 3 (PREFECTURE OF THESSALONIKI): Area 3 (The bodies of the four categories belonging to the prefecture of Thessaloniki).**
- **Subproject 4 (CRETE): Area 4 (The bodies of the four categories belonging to the region of Crete).**
- **Subproject 5 (NORTHERN GREECE): Area 5 (The bodies of the four categories belonging to the regions of Eastern Macedonia & Thrace, Western Macedonia, Central Macedonia (with the exception of the bodies of the prefecture of Thessaloniki), Northern Aegean, Thessaly and Sterea Ellada [Continental Greece]).**
- **Subproject 6 (SOUTHERN GREECE): Area 6 (The bodies of the four categories belonging to the regions of the Ionian Islands, Epirus, Western Greece, the Peloponnese and Southern Aegean).**
- **Subproject 7: Backbone network.**
- **Subproject 8: Training management.**
- **Subproject 9: Public Key Infrastructure service**

The budget of the project is approximately 75.5 m€, 70 m€ of which concern the technical part of the project, while 5.5 m€ the training part in the "SYZEFXIS" services.

Public Sector Broadband Network "SYZEFXIS"
(http://www.syzefxis.gov.gr/)
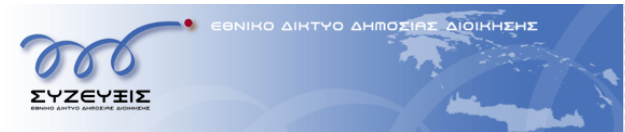
Results of the project

- The modernization and **improvement of the operation** of the Greek public administration bodies.

- The **effective utilisation of the IT systems of the Greek public sector bodies** through the operational interconnection of these systems.

- The **exploitation of alternative information sources** and the **avoidance of overlapping** – repetitions in data bases and network facilities.

- The **cost reduction of the communication among the Greek public sector bodies** with a simultaneous increase in the speed and security of the data transfer.

- The **unified upgrading of the services provided for the citizen through automated and user-friendly information services** and services of concluding transactions with the Greek public services.

- The **quick and easy search of information by the citizen** which have as a source bodies of the Greek public sector.

- The **decrease of the "digital gap" in the framework of the information society.**

- At the same time, along with the implementation of the project, the aim is the development of the information and communication industry in an environment of healthy competition and the complete utilisation of the investments on information and communication technologies. A big project, such as SYZEFXIS, is expected to influence the telecommunications market, mainly in the field of providing broadband services.

- **The improvement of serving the citizen, especially for procedures which require involvement of more than one bodies having the provision of one-stop services as the final objective.**

One Stop Governments Shop: "ARIADNE" Citizens Service Centers

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Citizen Service Centres

Focusing on the citizen

Scope of the project	The "ARIADNE" programme is designed to **improve communications with the public and the quality of service the citizen receives from the country's public services.**
Innovative aspect	It signals the collaboration between the central public administration and local government authorities, and is currently implemented through both central and decentralized actions.

Services for Citizens	The citizen have access to administrative information and data (e.g. e-forms) in the following ways:
	
	  –**By telephone**
	  –**Via the Internet**
	  –**Through service structures on the local level.**
	
	These structures, providing a total of about 1000 service points, have already been set up in local government authorities across Greece. These 1000 citizen service points will also be public Internet access points.

Budget / Final Beneficiary and Funding Source	"ARIADNE" has a total budget of **79 M EUROS** allocated from OP Information Society / Measure 2.2. Government On-Line / Action 5 about the administrative citizen service. Final Beneficiary is the **Ministry of Interior**
Implementation status	The project has been implemented to all the 13th Regions with the creation of 1047 Contact Points for Citizens in different Municipalities of the country.

Wireless Hot Spots

Financing of enterprises for the creation of wireless hotspots of broadband access
(www.w-hotspots.gr)

Project Name & Funding source	The above action is included in action category **"Projects of initial application of broadband network technologies"** of Measure **4.2** "Development of infrastructures of local access networks". **The total budget of the action comes up to 21,427,120€ ; 10,000,000€ of the budget concern private participation and 11,427,120€ public expenditure.** **(About 400 beneficiaries)**
Project Description and scope	The project "Financing of enterprises for the creation of wireless hotspots of broadband access" **subsidises the development and operation of wireless hotspots in public mass places for access to the Internet with the use of LMDS, ADSL or Broadband Satellite Internet Access technologies.**
Coverage	The development of wireless hotspots of broadband access is carried out in areas where a considerable number of users/ visitors gather, such as: **guest, accommodation and entertainment areas** (hotels, restaurants, students' residences, sport facilities/ gyms etc), **waiting/ transportation areas** (airports, railway stations, ports/ marines/ bus stops etc), **educational centres, universities**, private schools, cultural areas (museums, archaeological sites, galleries etc), **shopping centres, department stores, banks, event and conference areas** (conference centres, commercial exhibition areas, Press centres etc) **and other areas of providing services for the citizens** (hospitals, courts, public bodies etc).

Indicative Grants from Greek CSF 2000-2006

Projects	Available Grants	Market	Source
"GO – Digital"	**Up to 5K**	Very small enterprises	OPIS
M.E.TEX.O.	**Up to 20K**	SMEs – De Minimis rule applicable	OPIS / ROP
"Digitalization"	**Up to 200K**	SMEs - De Minimis rule applicable	OPIS
"Digital Jump"	**Up to 800K**	All - De Minimis rule not applicable	OPIS
Renovation and upgrade of hotels and tourism related enterprises	**Up to 100K**	All	OP Comp /ROP
Intelligent Transport	**Up to 200K**	Transport companies	OPIS
Start-ups	**Up to 50K**	New Companies	OP Comp
Wireless HOT SPOTS	**Up to 50K**	All	OPIS
Funding of Business Plans	**Up to 150K**	SMEs – De Minimis rule applicable	OP Comp / ROP (pending)
E-Health	**Up to 150K**	Companies rel;ated with health industry	OPIS

Broadband Networks at Local Level
Construction of metropolitan broadband optical fibber networks (MAN) in less developed areas of Greece

Project Name & Funding source	The above projects belong to the action category **"Development/ implementation of local access broadband networks" of Measure 4.2 and is related to the basic principle of the «eEurope 2005, An information society for all»** initiative which anticipates the encouragement of secure services, applications and content based on widely available broadband infrastructures. **The budget of the of the project is 67M€ (3M€ for the technical support to the Local Government).**
Project Description and scope	The projects to be implemented include mainly: **troughs, channels, optical fibbers, interconnection points, as well as the installation of passive equipment and active network equipment** **The physical scope of the above projects is:** ▪ the implementation of metropolitan optical networks for the development of supplementary broadband infrastructure in the local authorities of the country ▪ the interconnection of the buildings of public interest in bodies of education, health- welfare, culture, public administration, people with special needs etc with the use of MAN technologies.
Public Bodies covered	More specific objectives are the **public administration**, as well as all the **schools, universities, museums, libraries, records etc** to have broadband access, the strengthening of broadband access with emphasis on the less privileged areas and the introduction of information networks between health points with broadband access.
Operation Model	The basic target is the creation of competition conditions in the area of services, both of access as well as of content, to the benefit of the consumer **–user based on the availability of open optical fibber infrastructures in a cost-oriented way. Towards this direction, moreover, the release of part of the infrastructures for private exploitation through long-term leasing per measure and pair of fibbers is encouraged; this will generate cost-oriented revenues with the aim of covering the operation and maintenance expenses.**

Funding of private-sector companies for the development of broadband access in the Regional Areas of Greece
(http://www.broadband.gov.gr)

Project Name & Funding source	The project **«Funding of private-sector companies for the development of broadband access in the Regional Areas of Greece»** has been included in the O.P.I.S. and is co-subsidized by ERDF at the rate of 70%, with regard to public participation. **The total budget to be made available through this Call amounts to 210,000,000 euros**
Project Description and scope	The aim of the project described in this Call is **to <u>support the development of the necessary infrastructure for the provision of broadband services to those regions of Greece, where such infrastructure neither currently exists nor is it expected to be deployed under the current market conditions in the immediate future, or where no competitive conditions are expected to be developed.</u>** The aim of the state subsidy is the bridging of the digital divide in those regions. The total budget is distributed as follows in two main axis: 1. the **development of broadband access** in the regional areas of Greece, though the subsidization of infrastructure development, from now on called "Axis 1" of the project, and 2. The **stimulation of the demand for broadband services** through subsidization actions of end-users in the Greek Districts, from now on called "Axis 2" of the project.
Coverage	The entire project covers the whole of the Greece, with the exception of : –the district of Attica –the Metropolitan area of Thessalonica The individual prefectures of the country are grouped into seven (7) zones, so that the entire project is divided into an equal number of sub-projects. **For each zone one and only one proposal is selected for subsidization.**
Operation Model	**50% of the budget shall be Public Spending, while the remaining 50% shall be covered by private participation.**

Beyond ICT Policy:

Lessons Learned

Policy implementation elements observed
…the problems we faced from design to execution

DESIGN

- **Complexity in the Legal and Regulatory Framework**

- **Technophobia** – cultural aversion to the use of ICTs by lower and middle level public officials.

- **Low Political and Managerial Priority** and commitment in promoting ICT usage and integration in the public sector

- **Lack of Expertise** and understanding of the specificities of ICT technologies by public officials

- **Diverging Priorities** set among different government departments and ministries,

- **"Bad Looser" behavior** exhibited by a number of bidders led to significant delays in the implementation time-plan

- **Overlapping** in the division of responsibilities among different public administration entities involved in the implementation phase,

EXECUTION

Conclusions and some thumb advises

- Do not re-invent the wheel. Other countries experience is very useful. Cultivate the culture of bench-learning.

- From the culture of the "very big and complex IT systems" to the Internet culture. Dolphins not whales approach.

- Some simple thumb advise for the implementation process:

  - *Think the BIG picture. Design for the FUTURE!*

  - *Adopt MODULAR approach and STEP-by- STEP implementation.*

  - *Start NOW. Start SMALL. Move FAST.*

  - *MAXIMIZE efficiency (in terms of project cost, quality and implementation time) and effectiveness in terms of USER REQUIREMENTS.*

DEXTERA
C O N S U L T I N G

Thank you for your attention.

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