

**CTI**  
COMPUTER  
TECHNOLOGY  
INSTITUTE

# NTS/ Networking Technologies Sector

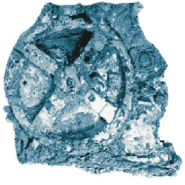
[www.cti.gr/nts](http://www.cti.gr/nts)

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## Institute Profile

Established:

1985

Home:

Patras - Greece

Non-profit Research and  
Development Organization,

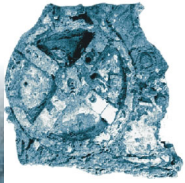
Administration:

7 Member Board of Directors

Supervised by:

Ministry of Education & Religious Affairs

*Total number of CTI s' employees 250 persons*

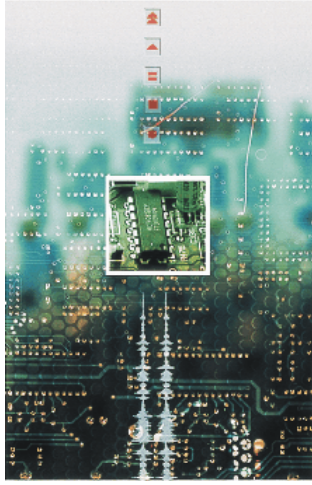


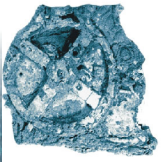
# Networking Technologies Sector



## Goals- Activities

- Technical consultancy services for the design and implementation of network infrastructures and network services
- Design of broadband networks
- Design and implementation of basic network services
- WWW and Data Base technology
- Design and implementation of advanced telematic services
- Support of networks operation and of users of telematic services





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**NTS**

# Structure

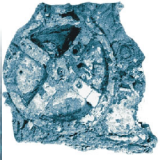
**Networking Team**

**System Management and Services Team**

**Support and Training Team**

**Staff: 23 employees**

- 4 PhDs
- 12 experienced network engineers
- 5 technicians
- 2 employees for secretarial support



NTS

# Projects

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## •School Networks

- Panhellenic Education Network– EDUnet
- Winds of Aiolos, Odysseas, School Pilot–Netweb–Achaios

## •GRNET

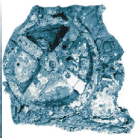
- Administration of additional Services IPv6, Grnet node of West Greece
- Study of cost accounting of management of services of GRNET

## •Networks of 3rd Level Education

- GUnet (Greek Universities Network)
- Design and Implementation of the University of Patras Campus network
- Implementation of Telematics Services - Portal in the University of Peloponnese

## •Telematic Services

- School Network Portal
- Recording of the potential and educational staff of the Greek Ministry of Education
- Website and CD–CD-ROM for Development Enterprise of Achaia Prefecture
- Network Portal "SEGAS and Olympic Games»



# Projects

## • EUROPEAN UNION'S PROJECT

- ❑ Advanced Network Architecture for in flight cabin systems (ANAIS)
- ❑ Quality and on-line confidence in SME's e-Business processes (DIGI-Q)
- ❑ Pan-European Network IPv6 – 6net
- ❑ e-Photon/OnE NoE

## ❑ Optical Technologies (MUFFINS)

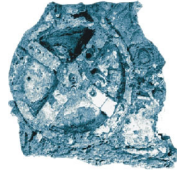
## • OTHER PROJECTS

- ❑ Educational Support of the program Go-online
- ❑ Centre of Business and Technological Development (C.B.T.D.) – Western Greece Area (WGA)
- ❑ Evaluation of Telecommunication costs of the Ministry of Education and Religious Affairs for 2002 Ministry of interior, public administration and decentralization (MIPAD)
- ❑ SYZEFXIS (writing of technical specifications)
- ❑ Extracting of answers of the questionnaires for broadband networks
- ❑ Centre of Telematics of Western Greece, Eperus and Ionian Islands
- ❑ Development of Information System at the Hellenic Open University

# HellasGrid Resource Center and the Regional Operation Center in the Patras.



Enabling Grids for  
E-science in Europe



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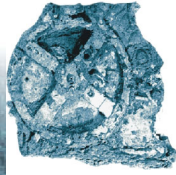
The CTI group in Patras  
will operate the  
Resource Center and the  
Regional Operation  
Center providing  
continuous support to its  
users



## **HellasGrid Resource Center and the Regional Operation Center in the Patras.**

### **Actions**

- 1. Installation and support of the cluster in Patras
- 2. Installation and support of the system and grid software
- 3. Support and operation of the network systems
- 4. Integration of the node to HellasGrid and EGEE
- 5. Specification of the operation rules
- 6. Support of the users and operation of a hotline
- 7. Dissemination of technological information to the users
- 8. Monitoring the usage of the node
- 9. Hardware and software upgrades of the node
- 10. Research on grid resource management tools







## HellasGrid Resource Center and Regional Operation Center in Patras

### Goals

- The support of the HellasGrid resource center and the network systems will ensure
- ❑ The reliability and high availability of the node
  - ❑ The security of the systems, the applications, and the data
  - ❑ The high performance of the system

