



ΕΘΝΙΚΟ ΚΕΝΤΡΟ  
ΤΕΚΜΗΡΙΩΣΗΣ

NATIONAL  
DOCUMENTATION  
CENTRE



NATIONAL DOCUMENTATION CENTRE  
National Hellenic Research Foundation Report

2010  
2011

access  
to  
knowledge





ΕΘΝΙΚΟ ΚΕΝΤΡΟ  
ΤΕΚΜΗΡΙΩΣΗΣ  
N A T I O N A L  
D O C U M E N T A T I O N  
C E N T R E

NATIONAL DOCUMENTATION CENTRE  
National Hellenic Research Foundation

Report

2010  
2011

## REPORT 2010 • 2011

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The publication is available online: <http://www.ekt.gr/reports>

ISBN: 978-960-89499-9-7 (print) ISBN: 978-618-80175-0-4 (pdf)

**NATIONAL DOCUMENTATION CENTRE**  
National Hellenic Research Foundation

Report

2010  
2011

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# Director's statement



Evangelos Bouboukas | Director

30 years have passed since the United Nations Development Programme that funded the establishment of the National Documentation Centre (EKT), with the mission to record, document and disseminate the country's scientific output. Significant goals have been achieved throughout this time which have led to its recognition as a leading information provider in the Greek research system.

From the beginning of its operation, EKT's strategic priority has been the integration and use of Information Communication Technologies and the Web as the main tools for communicating with users and providing services. The institution has worked in partnership with leading organisations that produce and manage content, has invested in human capital, and has cultivated an extrovert international orientation. Today, we have reached the present point, in consistency with our vision: *"to achieve more, with efficiency, good timing and less cost"*.



Dr Evi Sachini | Head of Strategic Planning and Development Department

The strategic priorities and operational goals of EKT are constantly being shaped in response to a demanding international environment, the challenging financial times, the needs of our communities, our public mission, as well as the potential and engagement of our staff.

We are an extrovert institution in all our activities, considering this to be the best way of promoting the outcomes of the Greek research community. Our performance so far allows us to guarantee high level services to the scientific and business communities and substantial benefits for the economy and for society. We have secured funding made available through the Operational Programme "Digital Convergence" while being fully conscious of the demand for efficient management, transparency, accountability and results with a multiplying effect.

As an institution of public interest, we have chosen a consistent course of presenting our activities and achievements through the systematic publication of our annual report since 1998, which are freely accessible on our website.

The Annual Report 2010-2011 focuses on some of our innovative activities that have been developed with great effort and have been widely acknowledged by the scientific community. Information about our services and resources, funded projects, collaborations with Greek and international institutions, consulting services on acquiring research funds and exploiting results, as well as our new goals are explicitly laid out in our report.

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# Access to Knowledge

## Our values

- Access to knowledge
- Scientific information as public good for social and economic growth
- Extroversion and international orientation
- Leading technology
- Transparency and efficient project management
- Strategic partnerships with public interest bodies for multiplied benefits
- Enhancement of human potential as a driving force for the organisation
- Equal opportunities for men and women
- Fostering new ideas and innovation
- Reliable and consistent presence in the field of scientific information
- Constant improvement of infrastructures and services to address user needs.



The mission of the National Documentation Centre is to aggregate, organise, provide and maintain perpetually the scientific, technological and cultural production of the academic, scientific and business community. The aim is to cover the scientific information needs of the country and promote the research outputs abroad.

Information Communication Technologies and the Web are utilised in developing a national e-Infrastructure, with integrated information systems for organising, disseminating and preserving data, metadata and content. EKT offers digital services for collecting, organising and providing access to scientific production. The recent policy on open access to the results of publicly funded research affords the management of a great volume of scientific information, which can be re-used only by referring to the source.

EKT collaborates with leading institutions in the production and management of scientific and cultural content to accomplish joint goals. Since 1996 the National Information System for Research and Technology (NISRT) - the organisation's main development project - has been growing along three basic axes:

- **Content:** reliable information and content on science, technology and culture is collected, digitised, organised and provided to users through digitisation, storage and hosting activities
- **Infrastructures:** advanced technological infrastructures to manage a great volume of content, scientific data and scientific information applications
- **Services:** a range of specialized services provided on scientific information, technological support for organising and providing content, publication of indicators, development of integrated metadata catalogues, support for research and business collaborations, and communication with the research and academic community.

Being a coordinator/partner in European networks and competitive European projects, EKT:

- Enhances scientific activity, ensures free and quick movement of knowledge, promotes Greek research results at international level and boosts the exposure of researchers in European collaborative networks
- Participates in policy-making by providing data, indicators for scientific publications and studies related to Greek participation in the European Research Area
- Supports the valorisation of research results, by conducting strategic partnerships and participating in networks for entrepreneurship and innovation
- Invests in future generations by collecting and disseminating digital content to be used in education and life-long learning activities.

## 2 New Activities 2010–11

- National Information System for Research and Technology
- Studies on Greek Scientific Publications
- Digitisation of the Greek PhD theses
- A Digital Library with material and studies for education and lifelong learning
- The Digital Libraries of Livadia and Serres online
- Deltion of the Christian Archaeological Society
- Supporting policies for Open Access to Knowledge
- Distribution of the ABEKT Library Automation Software to school libraries
- ABEKT e-opac: New online service for libraries to develop and present their holdings online
- International Centre for Hellenic Studies at NHRF
- Supporting research clusters for regional development
- Green IT - Virtualisation - Cloud Computing

# NISRT

Social Networks -  
User Generated  
Content



[www.epset.gr](http://www.epset.gr) presents the activities of the project “National Information System for Research and Technology (NISRT)” – the main development project of EKT – that is funded under the Operational Programme “Digital Convergence” (National Strategic Reference Framework, NSRF), by the Greek State and the European Union – European Regional Development Fund. The project falls under the European policy for upgrading research e-Infrastructures of scientific data and content. The website has been developed with open source software and its content is licensed by Creative Commons.

## National Information System for Research and Technology (NISRT)

New website for single point access to digital content

Launched in 2011, the website of the National Information System for Research and Technology (NISRT) ([www.epset.gr](http://www.epset.gr)) offers an integrated digital environment for access to rich resources of scientific content and a range of services to the country’s scientific, educational and business community.

The website meets the needs of the scientific and education community for a single entry point to reliable digital resources which are growing, along with the increasing volume of research production and the global technological trends. In this respect, it provides:

- **Open Access to rich and reliable digital content**

Greek web users acquire single access to more than 4.500.000 web pages of repositories, electronic journals and digital libraries of all scientific disciplines, including: a rich catalogue of research data and metadata, the National Archive of PhD Theses, books, studies, scientific publications, education material collections and audiovisual applications. In addition to the scientific information databases, visitors can discover the information systems for research activities browse EKT’s studies and publications and navigate through virtual applications on culture.

- **Timely Information**

Through the website’s “Press Centre” section, users can acquire up-to-date information about current developments in digital content, e-publishing applications, the utilisation of research results

and opportunities for open access to data, both at Greek and international level. A wide range of documents, presentations and studies related to national and European policies, a series of publications and material produced under the project are available in the “NISRT files” section of [epset.gr](http://epset.gr).

- **Valuable Browsing Experience**

Simple browsing, operability and efficiently embedded tools and services for advanced search are the main features of a research environment that is constantly and reliably enriched.

- **Social Networking**

Strategically oriented towards user-generated content, [epset.gr](http://epset.gr) assumes an active role in social networking services and develops alternative ways for the users to be informed and to participate actively in the development of content and the activities of the National Documentation Centre.

# Studies on Greek Scientific Publications

Reliable data and bibliometric indicators for mapping Greek research

Within the framework of its institutional role, EKT utilised its expertise in the organisation and processing of information on research and technology to complete a significant project in 2010, the study **“Greek Scientific Publications 1993-2008: A bibliometric analysis of Greek publications in international scientific journals”**. The study has collected, recorded and analysed bibliometric data describing the scientific activity in the country’s institutions (70 institutions across 11 categories).

Data on Greek scientific publications during the period 1993-2008 (92.456 publications and 749.583 citations of these publications) were recorded and processed, while indicators mapping the Greek scientific production and its impact on the world scientific stage were identified.

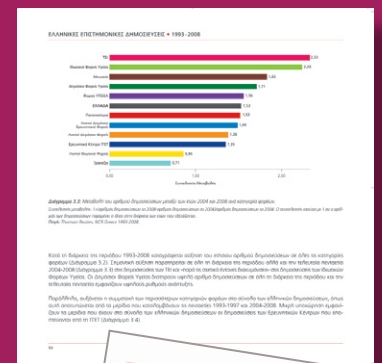
The scientific fields of excellence and the collaborations of institutions in Greece and abroad were also identified.

The study has received broad and extremely positive feedback. The results were extensively presented through Greek media, but also at national and international conferences. The findings were utilised by research institutions, universities and policy makers for evidence-based presentation of research activities.

The working environment – software, methodological approach, cleaning and verification techniques – affords quick data processing and calculation of reliable bibliometric indicators. An enriched and updated version on Greek scientific publications was released in early 2012.



**8.000 users** visited the study’s online version at: [www.ekt.gr/metrics](http://www.ekt.gr/metrics) (available in e-book format - browse and pdf version). The executive summary in English is also available. More than 700 print copies were disseminated to stakeholders.



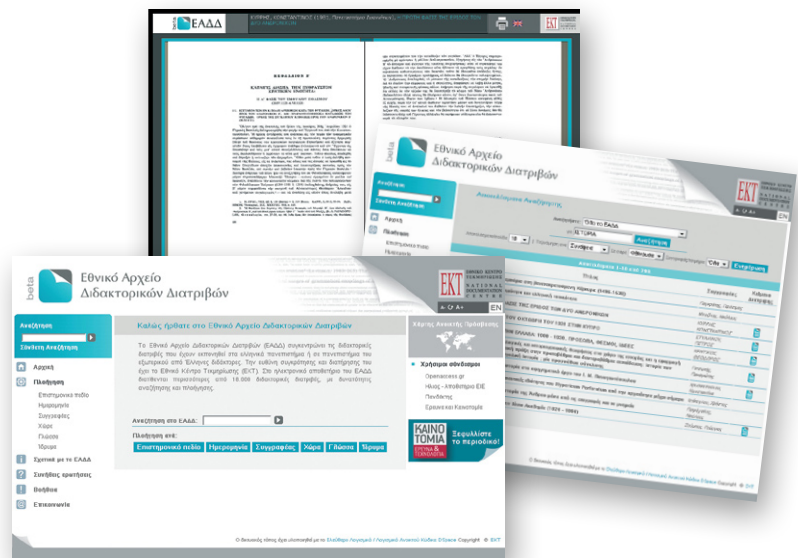
*“Greece is making progress, according to a study of the National Documentation Centre (EKT) that records the scientific publications in international journals from 1993 to 2008. Despite the difficult economic circumstances and the gloom that follows, EKT reveals that, in science, something is moving...”*

Newspaper TO VIMA (06/12/2010), [www.tovima.gr](http://www.tovima.gr)



# Digitisation of the Greek PhD theses

[www.didaktorika.gr](http://www.didaktorika.gr)  
by the National Documentation Centre



The PhD theses of Greek scholars, an important resource of rich Greek digital content, were transferred to a single repository ([www.didaktorika.gr](http://www.didaktorika.gr)).

The National Documentation Centre is the organisation responsible for the collection, development and maintenance of the National Archive of PhD Theses.

EKT has been, since 1985, the institution mandated by law to develop and maintain the National Archive of PhD Theses. 28.000 PhD theses in print form are archived at the Science and Technology Library. The vast majority are these from Higher Education Institutions in Greece from 1985. 10% of them are authored by Greek scholars abroad. Upon the institution's initiative, a small number of PhD Theses completed between 1932 and 1985 were also collected.

Given the importance and the uniqueness of the Archive, EKT is currently exploring new ways to extend accessibility to the most technologically advanced manner, integrating advanced and innovative Information and Communication Technologies. To meet the need of academics and the wider public for

open and free access to knowledge resource, following an extensive digitisation of PhD theses, the National Archive was transferred to an electronic repository infrastructure, enhanced by high usable and innovative services. This secures easy search, retrieval, long-term maintenance and interoperability with international repositories and search engines.

Record fields include information such as: title, summary, keywords, scientific field, author (name of PhD holder), members of the PhD committee, institution, date, language, etc. The repository provides options for searching all record fields and browsing by scientific field, institution, author, country, language, date).

EKT actively participates in the international network DART-Europe, a partnership of research libraries and library consortia that work together to improve global access to European research theses.

EKT makes Greek PhD Theses available on the DART portal ([www.dart-europe.eu](http://www.dart-europe.eu)). This portal provides a single search and navigation environment for access to more than 120.000 PhD Theses from 14 European countries.

Between September 2010 and September 2011, the number of visits to the DART portal from Greece amounted to 19.456, a number that points to an increased public interest for freely accessing academic content.

The National Archive of PhD Theses comprises more than **25.000 bibliographic records**, available to the end-users for searching or browsing. Access to full-text is provided for **17.055 PhD Theses (3.550.725 digitised pages)**. Users can browse and print them per page, as well as save them in **pdf format upon acceptance** of the respective terms of use.



# A Digital Library with material and studies for education and lifelong learning

A single access point to valuable content for educators and students

The education material and the studies produced under the Operational Programme for Education and Initial Vocational Training (EPEAEK I and II) are now gathered in a Digital Library. On <http://repository.edull.gr>, users can find useful educational material, read studies and reports, browse through books and handbooks, as well as watch videos and lectures presented at information events and conferences.

The Digital Library provides easy browsing, along with advanced search capacities. In the website's homepage, one can find a range of topics on education and lifelong learning. The material is continuously enriched in terms of content and operability.

More specifically, users can browse and search by: Author/Creator, Institution, Scientific Coordinator, Topic, Key-words, Type of Content, Date and Title. The Digital Library includes: Education material, Studies & Reports, Books, Conference & Information days' proceedings, Videos, Articles, PhD Theses, Handbooks & Brochures, Dictionaries, etc.

The Digital Library is the result of EKT's collaboration with the Managing Authority of the Operational Programme for Education and Initial Vocational Training



([www.edull.gr](http://www.edull.gr)). The material has been organised, documented and disseminated in a repository infrastructure. A structured web environment has been developed, making this valuable material fully available online for the first time. This material can be used in all stages of education, fulfilling the multiple needs of the new Digital School.

The Digital Library has been developed in compatibility with international standards for documentation, dissemination, interoperability and long-term preservation. EKT's know-how and infrastructure will be used for the development of respective Digital Libraries for other Operational Programmes.

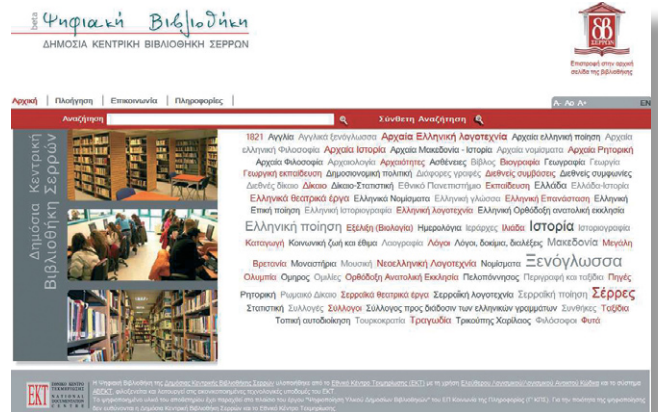


The Digital Library collects rich content on intercultural education, pre-school education, lifelong learning, special education and various other topics in a user-friendly environment. For the first time, students, teachers, scientists, researchers and other users have the opportunity to discover this material and use it in a wide range of contexts.

During the first 9 months of its operation, the website attracted more than 124.000 visitors, and this number is still growing. High-profile education websites refer to the Digital Library, thus making it extremely popular.

# The Digital Libraries of Livadia and Serres online

EKT's initiative to open up content for browsing and reading in a user-friendly environment

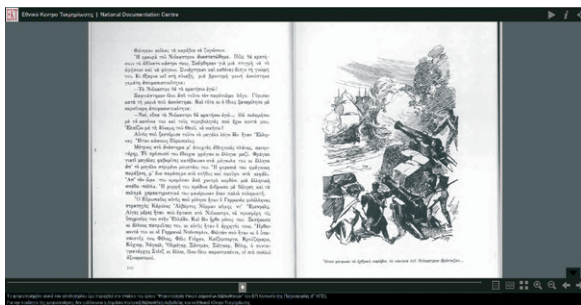


The Digital Libraries of the Public Libraries of Serres (<http://ebooks.serrelib.gr>) and Livadia (<http://ebooks.liblivadia.gr>) provide free access to books, collections and newspapers of great educational and cultural value. The material is available in a user-friendly environment for library visitors, educators, scientists, researchers, students, pupils and the wider public. The Digital Libraries were developed and hosted by EKT, within the frame of a long-term collaboration with the two libraries.

The Libraries contain material that has been digitised under the project “Digitisation of Public Libraries’ mate-

The Digital Libraries are using advanced Open Source Software, with no additional cost for a software license. The ABEKT Library Automation Software, a tool developed by EKT, was used to catalogue the material. The Digital Libraries operate on virtual machines with an advanced capacity for managing and disseminating a great volume of digital content, which have been applied for the first time in Greece. They support interoperability standards, advanced technological applications and continuous enrichment.

Following interoperability requirements, the content of the two libraries (in total, 732 documents with more than 185.000 pages) has already been integrated into the Eu-



The Digital Libraries hold rare publications of the 19th and 20th centuries of local and nationwide interest, various publications of ancient Greek literature and poetry, history, legal documents, as well as theatrical plays from Greek and foreign writers. Users can search, per thematic category, novels, biographies of Greek heroes, Greek mythology texts, medical documents, novels by local writers, anthologies and travel documents, as well as children’s literature of great educational value.

rial” (Operational Programme “Information Society”, 3rd CSF) and is free of copyright protection. The content has been organised within a repository e-Infrastructure in a standardized module with advanced user-friendly options for reading and searching. In the homepage, users can view all digital content from the homepage, in a tag cloud, locate an e-book and browse it online.

ropean Digital Library Europeana, expanding the Greek digital content available in it.

EKT aims to broaden this activity and develop more digital libraries for the Public and Community Libraries that hold digitised material.



## Deltion of the Christian Archaeological Society

EKT publishes its 6th e-journal

Upon the completion of the digitisation process, more than 1.000 scientific articles from Greece and abroad, published at Deltion since the end of the 19th century. The pilot version of the online edition offers open access to 27 recent volumes. 18 more volumes will be online by mid-2012.

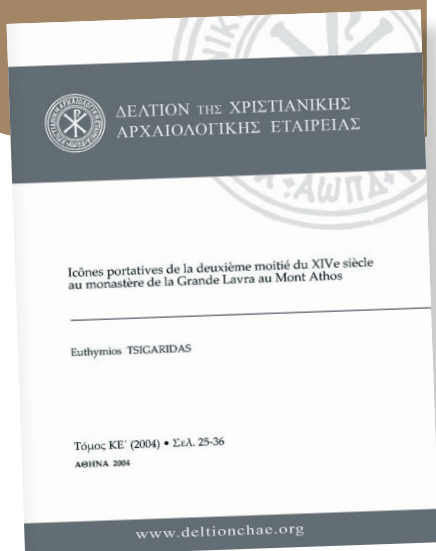
The “Deltion” of the Christian Archaeological Society, a journal whose first print edition dates back to 1982, is now available online at: [www.deltionchae.org](http://www.deltionchae.org). EKT collaborated with the Christian Archeological Society (ChAE) in the electronic publication of the Deltion, in view of securing a strong online presence for the journal, of transferring its editorial process to an online environment and of making past volumes freely available online.

Deltion, currently published annually and presented at the ChAE symposium, is internationally recognised as one of the most prestigious scientific journals in the field of Byzantine Archaeology. ChAE was founded in 1884 and is one of the oldest scientific associations in Greece. The goal of ChAE is to promote research and other scientific activities in the areas of Byzantine and Post-Byzantine Archaeology and Art.

For the online edition of the journal, the Open Journal System online publication management tool was customized in terms of function and graphic design, and the publication procedures of Deltion were updated according to international standards. The online publication process integrated the standardisation of metadata and the digitisation of past volumes.

Deltion, a peer-reviewed journal, is the sixth e-journal developed under EKT’s e-Publishing programme in partnership with scientific content providers (research, academic and cultural institutions). The other five e-journals are published in collaboration with the Humanities Institutes of the National Hellenic Research Foundation. All journals are indexed by tools such as the Directory of Open Access Journals, ISI, Scopus and Google Scholar.

The online edition of the Deltion is funded by the project “National Information System for Research & Technology (NISRT)/Social Networks-User Generated Content” (under the Operational Programme “Digital Convergence”, NSRF, which is co-funded by Greece and the EU). The project develops an integrated e-publishing system which supports e-journals, e-books and e-proceedings. During NISRT’s lifecycle, 10 e-journals, 5 e-books, monographs and conference proceedings will be published, mainly in the Humanities.





# Supporting policies for Open Access to Knowledge

Consistent with the strategy started in 2003, when the Berlin Declaration on Open Access was signed, EKT, the first Greek institution actively supporting and promoting open access to scientific and cultural content for the widest possible audience, implemented a series of national and international policy activities:

May 2010

## Forging partnerships for Open Access in Southern Europe

EKT coordinated the Greek mission at a high-level conference on “Open Access in Southern Europe” that was organised in Granada, under the Spanish EU Presidency.

The conference attracted policy-makers from Greece, Turkey, Italy, France, Portugal and Spain.

In the wake of the conference, the Alhambra Declaration on Open Access was announced. The goal is to adopt common policies on Open Access was South European countries, establish national Task Forces and translate public needs into policy recommendations.

October 2010

## Open Access Week

A series of information activities on Open Access was organised, as part of the International Open Access Week celebration, in October 2010, in Athens. The activities were planned along three axes:

**Learn:** Information material on OA and the relevant infrastructures and initiatives undertaken by EKT

**Listen:** Special 15-minute introductory presentations on OA at the Digital Reading Centre

**Ask:** EKT’s staff was available for further on-demand information on OA

November 2010

## Workshop on OA European Strategy

EKT represented Greece in a workshop organised by the European Commission for planning the future European Strategy on OA and preserving digital content in the European Research Area. 22 countries participated in the workshop. EKT presented the Greek initiatives and contributed to the brainstorming on good practices, bottlenecks, benefits and success factors of OA policies.

The workshop conclusions served as a background document for the Action Plan on “Scientific Information in a digital age” that the EC subsequently set on consultation.

Open  
Access

knowledge for all

www.  
openaccess.gr



## December 2010 2nd International Conference on Open Access

Current trends and future challenges of OA in scientific publications, research results, educational content and public data were presented at the 2nd International Conference on OA that EKT successfully organised in December 2010, in Athens. Presenters from academia and the wider research sector, as well as high-level public administrators from Greece, Europe and the USA underlined the crucial role of the free movement of knowledge for social and economic growth.

## June 2011 MedOAnet: Coordinating Open Access policies across Mediterranean Europe

The implementation of the European Directives on mandatory Open Access in the Mediterranean should be accelerated and EKT is helping through its coordination of the European project MedOAnet – a Mediterranean Open Access Network. Policy-makers from Turkey, Italy, Spain, France, the UK, Germany and the Netherlands participate in the network. MedOAnet maps existing structures and policies, supports synergies and encourages the commitment of policy-makers on OA.

## October 2011 Open Access Week: Workshop in a Box!

On the occasion of the International Open Access Week 2011, EKT prepared and offered to librarians and specialists in Information Science a ‘workshop in a box’ - a series of modular Powerpoint presentations that can be used in educating researchers about Open Access.

The ‘workshop in a box’, developed in collaboration with other European organisations, allows librarians to choose whichever part of the presentation interests them and adjust it according to the needs of their audience. For example, one may choose to present only an introduction to Open Access or the Introduction and a specialized presentation on Open Access in the Humanities, along with the practical part.



## Distribution of the ABEKT Library Automation Software to school libraries

EKT provides the tool for school libraries' modernization

The ABEKT Library Automation Software was distributed to all school libraries supervised by the Ministry of Education, in March 2011. The current version, ABEKT 5.6, integrates operations that enable school libraries to manage efficiently their collections and services, to cover the needs of educational and scholarly communities and to respond efficiently to the demands of the new digital school.

ABEKT was distributed to school libraries at no charge and the librarians were trained through the relevant e-learning application. The system is supported by an online helpdesk, as well as by the infrastructure and knowhow of EKT's experts. The work was carried out exclusively online.

The tool's user-friendly nature and swift installation process encouraged a great number of school libraries to install ABEKT, despite their lack of specialized staff and computing infrastructures.

The ABEKT system ([www.abekt.gr](http://www.abekt.gr)) was developed in 1986 and has since then been undergoing constant improvements in new versions, taking into account the features of Greek libraries, technological developments and international standards. Being installed in more than 2.300 libraries, it is the most popular library software in Greece.

Given the organisational needs and the new roles of Greek libraries in the evolving digital environment, the new edition of ABEKT is expected to be launched as Open Software in 2012. The new edition, which incorporates innovative software technologies, will be available in its 'Software as a Service' form to public authorities, and no particular requirements for equipment, know-how or support will be necessary for installation and operation.



**250 libraries** already expressed their interest in installing ABEKT from March to December 2011. A Memorandum of Collaboration has been signed with 157 libraries who wish to proceed with the online procedures for software installation and personnel training. The ongoing process aims to help school libraries utilize fully their infrastructure and collections, and thereby enhance the education process.

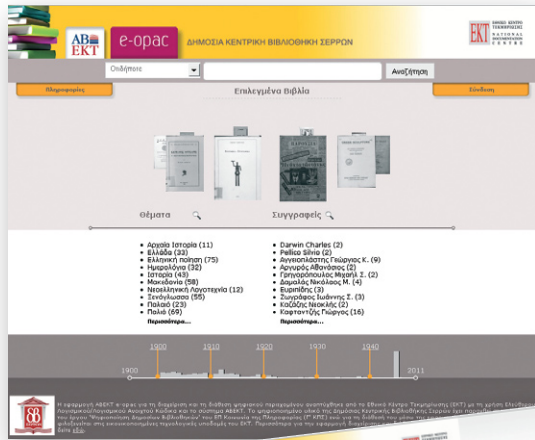
### Libraries Feedback

*"I deeply appreciate the timely and efficient service for the provision and installation of ABEKT in our library".*

*"I am absolutely convinced that, thanks to the technical support and the training provided by EKT, and my personal in interest in Library operations, we will offer high-level services to our pupils".*

# ABEKT e-opac

New online service for libraries to develop and present their holdings online



[www.abekt.gr/eopac](http://www.abekt.gr/eopac)

The new online service for the management and dissemination of library digital content, “ABEKT e-opac”, is already available as a pilot version. The service runs in a flexible and user friendly environment with advanced navigation and search functions, and various services for managing both the bibliographic records and the full version of publications and library material.

ABEKT e-opac, developed under the new edition of the ABEKT system, is already being used in the digital collections of Serres, Livadia, Konitsa, and Rethymno:

1. ABEKT e-opac at the Public Library of Serres:  
<http://eopac-serrelib.abekt.gr>
2. ABEKT e-opac at the Public Library of Livadia:  
<http://eopac-liblivadia.abekt.gr>
3. ABEKT e-opac at the Public Library of Konitsa:  
<http://eopac-libkonitsa.abekt.gr>
4. ABEKT e-opac at the Public Library of Rethymno:  
<http://eopac-librethymno.abekt.gr>

ABEKT e-opac combines the features of a traditional online OPAC library catalogue (Online Public Access Catalogue) and an application for the management and provision of digital content. The service enables the library to manage, and to provide the broader public with, processed bibliographic entries linked to digital content. Users can also track material of interest to them and navigate the digital content online, in a flexible and friendly environment.

The online application “ABEKT e-opac” was based on Open Software and the ABEKT system. Advanced meta-search engines compliant with the Z3950 protocol are used for searching bibliographic entries. The application operates on EKT’s virtualization infrastructure that allows a great volume of digital content and metadata to be provided, as well as advanced online management.



The digital content of 4 libraries (in total, **1,644 documents of more than 420.000 pages**) has already been integrated into the European digital library Europeana, in accordance with interoperability requirements.

EKT made these collections available in a ‘Software as a Service’ form, following the long tradition of working in partnership with leading Greek libraries. This activity will be gradually opened up to more libraries, increasing the Greek digital content available for the benefit of both users and libraries.

# International Centre for Hellenic Studies at NHRF



Humanities at the forefront for the country's development

The creation of an International Centre for Hellenic Studies is a plan widely endorsed and solidly based on the internationally acknowledged research output of the three Humanities' Institutes of the National Hellenic Research Foundation (NHRF) and EKT's advanced digital content infrastructures. It will operate as a centre of excellence, on an international scale, attracting well-known researchers from Universities and research centres in Greece and abroad.

The initiative is the result of a long-lasting fruitful collaboration between EKT and NHRF Humanities' Institutes, bringing together experts, specialized libraries of primary data and a unique place in the heart of Athens, close to a large number of libraries, museums and foreign archaeological missions.

The initiative places emphasis on building productive partnerships with wider research and academic institutions, as well as with significant providers of rich historical and cultural content. Synergies between Greek and international organisations are being enhanced, and strong research networks are emerging.

The initiative has already received positive feedback and support from very prestigious institutions, such as the Centre for Hellenic Studies at Harvard University and the Oxford Centre for Byzantine Research at Oxford University. Two more strategic collaborations are under way with King's College London and Ecole des Hautes Etudes en Sciences Sociales.

EKT will provide know-how and infrastructures to unlock the full potential of Information Communication Technologies for the Humanities. To this end, EKT's infrastructures will be used in: organising and providing digital scientific content (publications, repositories, and databases), supporting online scientific collaborations and enhancing web research for wider dissemination of research results.

The goal is to support research communities in the area of Hellenic Studies with innovative tools and partnerships for online communication and joint projects (an integrated environment for access to content sources, an environment for the storage and management of digital documents, an environment for the operation of virtual research communities, e-publications, e-discussion groups, online events, etc.).

## Our Vision

- **Enhance Hellenic Studies** and scientific collaborations through innovative tools
- **Produce new knowledge** with advanced tools, based on Greek historical and cultural heritage
- **Promote Greece**, at international level, as a country that supports education/culture and enhances partnerships with countries of common history
- **Develop new forms of research** (such as eResearch) and education in the Humanities following international standards and norms
- **Highlight Greek scientific potential** and its cultural resources, as factors directly linked to economic and social growth.

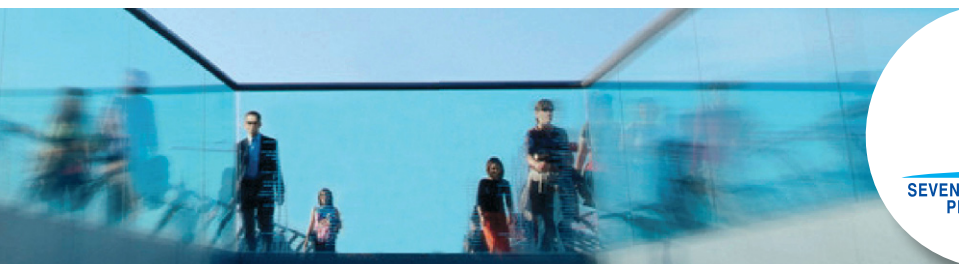
## Our activities

- **Scientific Collaborations** for postgraduate and postdoctoral studies, supported by the mobility of experienced researchers
- **International Conferences, Workshops, Training Seminars and Summer Schools**
- **E-Publishing** (journals, monographs, conference proceedings) and databases
- **Integrated environment** for networking institutes and researchers, e-research and access to digital scientific data of high cultural value
- **Research activities**, such as the digitisation and documentation of archives, and the development of education material.



# Supporting research clusters for regional development

EKT supports Greek researchers to excel in FP7



During the period 2008-2011 more than 35 million euro were granted to Greek research organisations, enterprises and local authorities to develop research clusters and unlock scientific excellence in convergence regions.

EKT, as Greece's National Contact Point for the Regional Programme (7th Framework Programme for Research of the EU), utilises networks and know-how in order for research organisations to: a) improve infrastructure, human capital and partnerships with leading European organisations ( the "Research Potential" programme) and b) introduce research and innovation to the agenda for sustainable regional development through research clusters ( the "Regions of Knowledge" programme).

Greece participates in 16,3% of projects funded by the European Commission for developing research clusters. An indicative example is the SWAM cluster in which researchers, entrepreneurs and regional policy-makers join forces in a sector of particular importance for the local community - water technology. EKT brought the Greek cluster Water-Tech into contact with two more clusters from Spain and Israel and their consortium was funded, in early 2010, with 1,31 million euro. The project creates a dialogue platform and a joint action plan for the three clusters in order to maximize their capacity for innovation investments at regional level and contribute to sustainable development, economic growth and competitiveness. In 2011, a partner of the Greek Water-Tech cluster received a distinction at the Greek competition "Greece innovates", organised by the Hellenic Federation of Enterprises - SEV and the Eurobank bank.

EKT operates as the National Contact Point for the following programmes of FP7: Health, Information Communication Technologies, Energy, Socio-economic Sciences and Humanities, IDEAS, PEOPLE, Research Infrastructures, Regions of Knowledge and Research Potential. Specialized services are provided to these research communities, such as: up-to-date information at a website dedicated to FP7 ([www.ekt.gr/fp7](http://www.ekt.gr/fp7)), efficient problem solving through an e-Helpdesk ([helpdesk.ekt.gr/fp7](http://helpdesk.ekt.gr/fp7)), information and consultation through info-days and bilateral meetings, pre-screening of proposals and partner-searching across Europe.

## Greece comes first

in terms of the number of successful projects and funding received in the "Research Potential" programme. Regarding the funding of scientific excellence in convergence regions, EKT significantly contributed to the funding of 30 Greek coordinators, covering all scientific fields and most geographical regions, from Thrace to Crete. For example, in 2011, the National Technical University of Athens received a grant of 1,94 million euro for research in the "All Electric Ship" area, while the Democritus University of Thrace received 1,38 euro for establishing a European Space Internet Centre in Xanthi.

# Green IT - Virtualisation - Cloud Computing

Applying new ICT trends



*EKT's information systems apply the latest technological trends, such as Green IT, virtualization and Cloud Computing.*

Green IT aims to provide e-services with minimal energy costs and environmental footprint. Since 2007, EKT has already optimized the energy consumption and ecological footprint for its e-infrastructures. Virtualization technologies have been widely applied, leading to broad server consolidation and a corresponding reduction in energy consumption.

The broad and measurable application of virtualization technologies, combined with the energy-friendly improvement of infrastructures and cooling systems at the EKT Data Centre, have improved the energy capacity while reducing energy consumption.

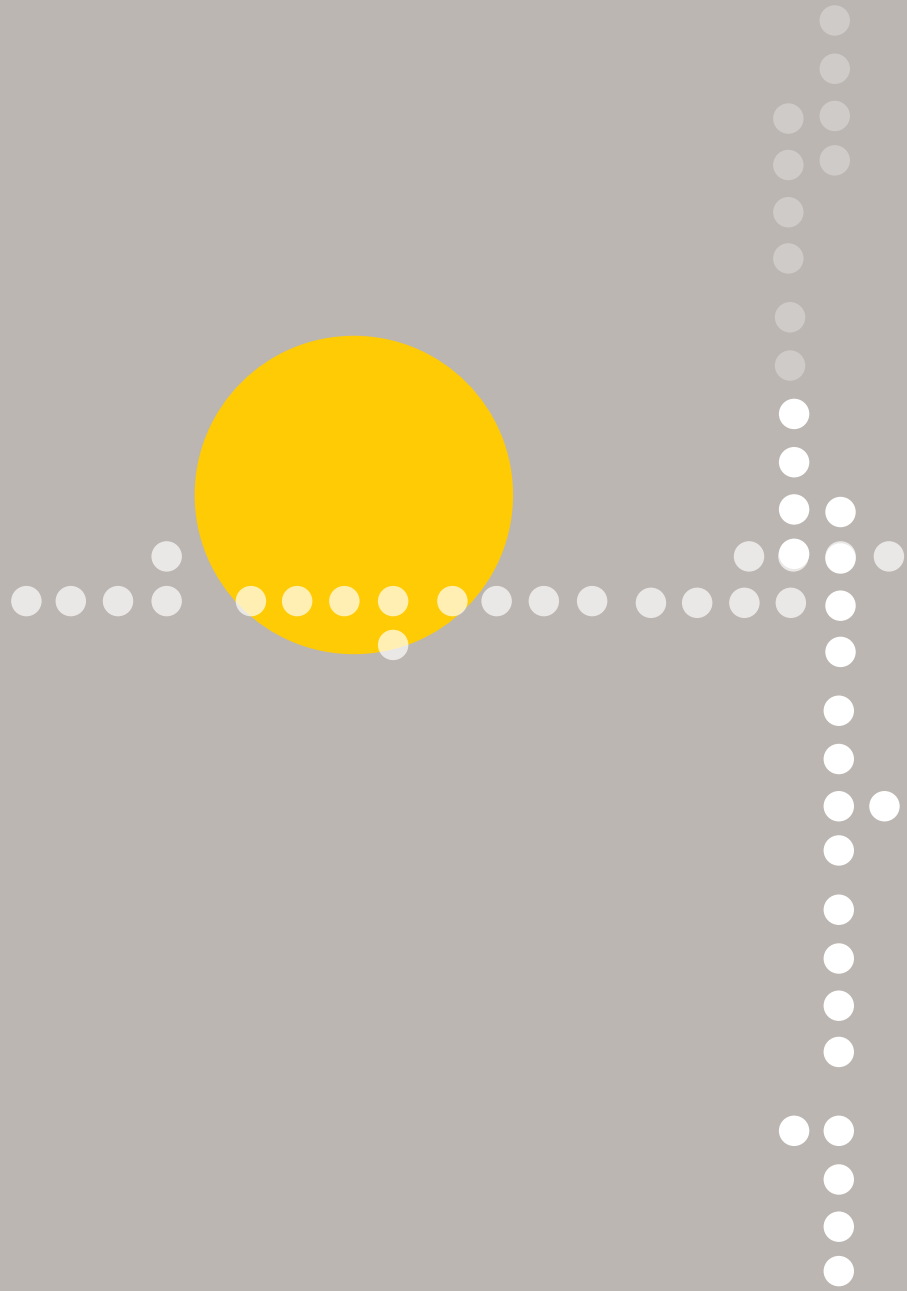
It is estimated that, since 2008, the consumption has been reduced by at least 387.940 Kwh, resulting in 387 fewer tonnes of CO2 emissions in the atmosphere. An integrated system for monitoring and measuring the energy consumption operates at the Data Centre, where HellasGrid Athena systems and GRIX/GEANT node are hosted.

The Data Centre is currently being reconstructed to include a "Cold Isle Containment" system and CFD (Computational Fluid Mechanics) tools in order to improve the Power Usage Effectiveness for high level energy capacity and economy.

## Digital content applications in "Software as a Service" form

Cloud Computing centrally provides computing resources, platforms or even integrated applications as services, utilizing virtualization technologies, infrastructures of Data Centres and new software. EKT has developed Cloud Computing Services, through its 'Software as a Service' model, specializing in the storage, organisation and provision of open documented digital content. The services are based on international standards for e-infrastructures, software and digital content systems, allowing for a layer of open content on a broad scale that is interoperable according to international standards, has a low cost and high sustainability, without the need for specialized institutions or users.

The SaaS model introduces economies of scale and ensures sustainability as well as constant compliance with standards and interoperability developments. Based on the virtualization technological infrastructures, pilot repositories and digital libraries are already available. The first SaaS applications will be in full productive operation in the second half of 2012.



### 3

## Strategic Development

EKT's activities focus on:

- The aggregation, organisation and open dissemination of Greek content – Connection to international infrastructures
- Developing information systems and services for aggregating and processing data on Greek research activity – Publication on research indicators
- Technological interventions and collaborations for increasing Greek digital content.

## The Greek & International environment

EKT's current activities are based on:

- a)** the current financial challenges that demand selective targeting, sustainable proposals, integrated efforts and productive collaborations for multiplying results
- b)** the international developments in the field of e-Infrastructures for content, data and scholarly communication.

An advanced national e-Infrastructure has been developed to aggregate high quality content, according to the following international trends:

- **Economic growth** is increasingly related to the development of the Information Society and the free movement of knowledge and innovation ("EU's Fifth Freedom") in a single European Information Space.
- **Open Access** is gaining ground, especially regarding the dissemination of research results produced with public funding.
- **Digital content** has become an essential component of everyday life, increasing the visibility of e-Infrastructures, digital libraries, e-journals, the shared use of resources, etc.
- **Information Communication Technologies** play a crucial role in innovation, education, research and lifelong learning.
- **The information management systems and digital archives** have introduced new models, rigorous preconditions and open standards to ensure interoperability, flexibility and low cost.
- **Broadband**, mobile users and the convergence of platforms (video, voice & data) form new services, business models and collaborations.
- **The new digital era** is based on an open source/open standards environment, users with advanced capacities, green computing principles and Intellectual Property management.
- **The need to record scientific activity** and to provide credit, in a reliable way, its creators has led to the adoption of CRIS (Current Research Information Systems) by research organisations, stakeholders, policy-makers, etc.



## Action Lines & Emblematic initiative

### Aggregation, organisation and open dissemination of Greek content – Connection to international infrastructures

Open access to scientific information lies at the heart of EKT's activities, in line with its forefront role in developing content provider networks, and organising scientific and cultural content in advanced e-infrastructures.

Greece produces significant scientific output both in terms of volume and potential. To a large extent, this has already been digitised, documented and uploaded to the Web. Nevertheless, this content cannot be adequately reused because it is often stored and displayed in non-interoperable, non-dynamic infrastructures, with limited search capabilities. Moreover, repositories/e-journals are not widespread as communication tools among academic and research communities. To meet the needs of the Greek research system, EKT is developing enabling factors for the provision, utilisation and promotion of content and metadata.

#### Digital Agenda for Europe - Digital Greece 2020



ψηφιακήεπίταξη2020

The Digital Agenda for Europe is one of the seven flagship initiatives of the Europe 2020 Strategy, set out to define the key enabling role that Information and Communication Technologies (ICT) will have to play if Europe wants to succeed in its ambitions for 2020. The Agenda makes proposals for the digital single market, digital services, frontier research and innovation on ICT, and the maximization of the social and economic potential of ICT.

In line with the above-mentioned initiative, EKT:

- Organises Greek scientific content that is produced with public funds, disseminates it through advanced open access e-infrastructures, and connects it to European and international infrastructures
- Provides tools, systems and e-Infrastructures to public libraries, thus enabling them to upgrade their services
- Supports the formulation of a favourable environment for digital scientific and cultural content through various activities, ranging from interventions in public consultation to support services for high-scale actions
- Participates actively in the policy-making forum “Digital Greece 2020” and is technical coordinator for the sections “Interoperability and Open Source” & “Education, Research and Innovation”
- Constitutes one of the main bodies implementing the e-Government strategy and the respective new law, as it develops and provides tools and infrastructures for open content and open data
- Develops repositories for scientific and cultural content, e-journals, and digital libraries
- Provides scientific information services to the research, business and education communities.

#### E-infrastructures for scientific knowledge

E-infrastructures are an essential building block for the European Research Area, empowering scientists with easy and controlled online access to facilities, resources and collaboration tools. They set up virtual research communities (i.e. research collaborations formed across geographical, disciplinary and organisational boundaries), foster the emergence of e-Science and enable the circulation of knowledge in Europe. The e-Infrastructures Roadmap is the main axis for the utilisation of ICT in the whole chain of scientific activity and academic communication.

Within this framework, the National Information System for Research and Technology (NISRT) introduces ICT into each stage of the research process: the organisation of repositories and databases, the management of primary data, the dissemination of results on open access, scientific communication, etc. Advanced technological infrastructures and information systems operate reliably and consistently with international standards. Detailed information on EKT's infrastructure is provided in the section “e-Infrastructure for Digital Content”.

## Horizon 2020 for Research and Innovation

Horizon 2020, the EU's new programme for research and innovation (2013-2020) focuses, on the one hand, on the development of technological breakthroughs into viable products/services with real commercial potential and impact on European's wellbeing, and on the other, on Open Access to scientific results stemming from publicly funded research.

EKT meets both priorities, since it establishes infrastructures, know-how and international strategic alliances for connecting research organisations and enterprises, as well as for disseminating research results to the public. Moreover, thanks to its extensive experience as National Contact Point for European programmes for research, innovation and competitiveness, EKT provides comprehensive information and support to Greek scientific teams and has contributed, to a certain degree, to their successful participation in the EU funding instruments.



### The EUROPEANA Digital Library

Europeana, the digital library for science and culture in Europe, provides a single access point ([www.europeana.eu](http://www.europeana.eu)) to millions of books, paintings, films, museum objects and archival records that have been digitised throughout Europe.

EKT enriches EUROPEANA with Greek collections of history and civilization (PANDEKTIS Repository for Primary Sources of Greek History and Culture, Parthenon Frieze, Digital Public Libraries) that adhere to international interoperability standards. At national level, the operation of the single search engine "openarchives.gr" gives access to the content of 57 Greek digital libraries and academic repositories, allowing the search of more than 400.000 documents (PhDs, scientific publications, etc) in various scientific fields. Finally, the ARGO environment ([argo.ekt.gr](http://argo.ekt.gr)) provides access to bibliographic information sources from all over the world.



### Enriching the Greek Wikipedia

Wikipedia, the online free encyclopedia that is written and used collaboratively by largely anonymous Internet users, is the contemporary form of encyclopedia in the age of the web, open content and social media.

The Greek Wikipedia has been constantly growing and now includes more than 68.000 terms, 900 active users and 24 administrators. EKT, together with the Greek Research & Technology Network, the Greek Free / Open Source Software Society and the Wikipedia editors, supports awareness activities – such as information days in libraries, schools, universities and cultural organisations – that encourage Greeks to enrich and use Wikipedia in their educational and everyday activities.

## LIBER – DART - OAPEN:

### European networks for scientific information

EKT is a member of important European networks for scientific information, such as:

- LIBER (Ligue des Bibliothèques Européennes de Recherche - Association of European Research Libraries), the main research libraries' network in Europe, comprising more than 400 libraries from more than 40 countries. LIBER aims to provide efficient and innovative scientific information services and contribute to the preservation of cultural heritage.
- DART-Europe, a partnership of research libraries and library consortia working together to improve global access to European research theses. The portal provides access to more than 120.000 PhD theses from 14 European countries
- OAPEN (Open Access Publishing in European Networks), a collaborative initiative to develop and implement a sustainable Open Access publication model for academic books in the Humanities and Social Sciences.

## OpenAIRE: Open Access to FP7 results

According to the EC Open Access Pilot, FP7 grant recipients are expected to deposit peer-reviewed research articles or final manuscripts resulting from their FP7 projects into an online repository. The OpenAIRE project (Open Access Infrastructure for Research in Europe, [www.openaire.eu](http://www.openaire.eu)) delivers open access infrastructures and supporting mechanisms for the identification, deposition, access and monitoring of such articles.

EKT operates as a National Open Access Desk, assisting Greek researchers in depositing their research results into open access infrastructures and in complying with the EC Open Access Pilot and ERC Guidelines on Open Access.

## Alhambra Declaration & MedOAnet: Open Access to Mediterranean countries

The Alhambra Declaration on Open Access was signed in May 2010, in Granada, by 36 institutions from 6 countries, including EKT, with the aim of developing an action plan for Open Access in Southern European countries.

In 2011, MedOAnet was launched, a project co-funded by FP7, aiming to promote Open Access to the Mediterranean countries. EKT coordinates the efforts of the 9-partner consortium to map existing structures and policies, develop synergies and commit stakeholders to Open Access.

## Developing information systems and services for aggregating and processing data on Greek research activity – Publication on research indicators

### CRIS systems

As a member of euroCRIS ([www.eurocris.org](http://www.eurocris.org)) – an organisation active in the field of Current Research Information Systems – EKT supports the dissemination of such systems in Greece. CRIS records, stores, edits and presents open research data relating to current research activity throughout its life cycle. Emphasis is given to results (publications, patents, research data and services) and their association with the producing organisation (researcher, organisation, funding programme, infrastructures).

EKT will develop and make available to academic and research institutions the platform for recording their research output. A central system will operate at EKT for aggregating and organising all the data. The operation of the CRIS system will facilitate the mapping of the Greek research environment and the extraction of indicators.

### Documentation of Greek scientific output in the Social Sciences and Humanities

This recently launched activity aims to aggregate, organise, and provide a single point access to metadata and, subsequently, content of Greek scientific publications. It addresses the need to provide organised access to bibliographic information and content in these scientific fields, to promote research published in the Greek language internationally, to preserve information and research and to facilitate the collection of data for systematic documentation, indexing and research evaluation.

The initiative will start from the bibliographic documentation of Greek scientific journals in the Social Sciences and Humanities, which have been included in the European Reference Index for the Humanities (ERIH/ESF) and additional ones that meet specific quality publication criteria. At a later stage, past scientific articles will be digitised and become available through a repository infrastructure with easy search and advanced reading services.



## Measuring scientific activity

Indicators of scientific activities are currently at the forefront of public discussions, as tools for mapping the research environment, planning and evaluating policies. Exploiting its human and technological expertise and resources, EKT regularly publishes reports on scientific indicators of scientific publications (bibliometrics), research activity (scientometrics), as well as of the use of informational web data and resources (webometrics).

For the bibliometric indicators, EKT has developed specialized software for processing primary data and has published a series of studies. The studies include, among other things, the detailed recording and processing of publications by the main Greek institutions, scientific fields of excellence and collaborations in Greece and abroad, thus revealing Greece's ranking at international level. The first study, "Greek Scientific Publications 1993-2008: A bibliometric analysis of Greek publications in international scientific journals", was published in 2010.

Aiming for the systematic publication of scientific indicators, EKT continues to develop new infrastructures and information systems, to formulate the operational environment and utilize the data collected by virtue of its institutional role. Such data sources are the National Archive of PhD Theses including the metadata of 25.500 Greek Theses, citation index systems integrated into e-publications, data from the National Contact Point for European programmes, the Greek CORDIS web-service and "Enterprise Europe Network – Hellas" (a member of the Enterprise Europe Network) regarding Greece's participation in European programmes and the transfer of research results to the market. In 2007 EKT also completed a survey on Greek women researchers.

Future activities include the development of an information management system for research activities, based on the standards of European CRIS (Current Research Information System) and funded by the Operational Programme "Digital Greece". EKT intends to continue with the publication of various studies regarding indicators in research, which are complying with European directives (e.g. She Figures). It will develop applications for recording the use of repositories, digital libraries and e-publications and for extracting qualitative and quantitative indicators. The openarchives.gr system, which aggregates metadata and content searches of Greek digital sources, will be further enriched with processing applications.

The documentation of the Greek scientific production in the Social Sciences and Humanities will provide information at article level, enabling the direct extraction of indicators. Expanding infrastructures and services present a huge and ever-increasing potential (an integrated digital cultural reserve with metadata of the content disposed by cultural organisations, "cloud computing" services rendering documented digital content open to a vast number of organisations) for extracting indicators about the use of Greek content on the web.

## Making Greek content interoperable

EKT develops infrastructures and systems on international open standards, thus supporting in practice the interoperability of Greek libraries and other content providers. Apart from providing Greek content to a series of international systems (EUROPEANA, DRIVER, OpenAIRE, and DART-Europe), EKT also collaborates with:

- WorldWideScience.org, the global science gateway that provides one-stop searching of databases from around the world
- CLAROS, the CLassical Art Research Online Research Services
- VOA3R, the Virtual Open Access Agriculture & Aquaculture Repository.

## Technological infrastructures and tools for libraries

Since 1986 the library automation system ABEKT has covered the organisational and modernisation needs of Greek libraries. It is the most popular library software in Greece, available to and installed by more than 2.300 libraries in Greece and abroad. The system is supported by an e-learning application and an online helpdesk. The new online service “ABEKT e-opac” for the management and distribution of digital content in libraries is currently available in pilot version.

The Union Catalogue of Serials of Greek Journals of the National Network of Scientific and Technological Libraries provides advanced search options to 30.719 journals from 249 libraries. The Interlibrary Loan System of the Network has received an average of 19.000 online orders for full-text scientific publications per year over the last 10 years. Finally, EKT has developed the Greek edition of the Dewey Decimal Classification and the Thesaurus of Greek terms of general and medical content.

## Development and provision of repository services

EKT utilises its infrastructure and know-how in the sector of digital repositories to enable public bodies organise their scientific and cultural content in a modern repository environment for high quality online access, interoperability with other systems (based on international standards), and long-term preservation.

EKT’s digital repositories operate according to the ‘Software as a Service’ model. Although the repositories are tailored to the needs of every individual organisation and operate in distinct web addresses, the organisations are not charged with any equipment or software maintenance costs. These services aim to formulate a favourable environment for organising, disseminating and reusing Greek content. Indicative repositories developed under this model are:

- the Digital Library of the Managing Authority of the “Operational Programme for Education and Initial Vocational Training (EPEAEK I and II)” hosting material and studies for education and lifelong learning
- the Digital Libraries of the Public Libraries of Serres and Livadia (in total, 732 documents with more than 185.000 pages).



## 4 Services & Infrastructures

Content, services and tools for researchers, academic institutions, education bodies, enterprises and policy-makers, grouped by the various user categories

### Libraries – Archives – Museums

- Partnerships for organising scientific and cultural content in repositories
- Applications and tools for organising and disseminating digital content (the ABEKT Library Automation Software, the ABEKT e-opac online service for access to libraries' digital content, the Thesaurus of Greek terms of general and medical content, and the Greek edition of the Dewey Decimal Classification)
- The coordination of the National S&T Libraries Network
- The development and provision of the Union Catalogue of Journals for searching the holdings of Greek S&T libraries
- The operation of the Interlibrary Loan System for online ordering by EDETB libraries
- ARGO: an environment facilitating open access to bibliographical information resources which are available in Greece and abroad
- The coordination of the consortium of libraries of research centres that are supervised by the General Secretariat for Research & Technology, and participation in the Hellenic Academic Libraries Link/Network (Heal-Link)
- The organisation and management of the print collection archive of Heal-Link scientific journals.

## Business Community

- The exploitation of research results and innovative technologies
- Support for participating in competitive European programmes for research, technology, entrepreneurship and innovation
- Services for international business partnerships, technology and innovation transfer, information on European policies (coordinator/member of Enterprise Europe Network-Hellas).

## General Public

- Websites for research, technology and innovation
- Science in Society activities
- The publication of the bi-monthly magazine “Innovation, Research and Technology” and the bi-weekly e-newsletter “Research and Innovation”
- Publications related to research projects, policies and S&T indicators
- The organisation of information events and international conferences
- Collaboration with print and digital media to promote research results and raise awareness on research and technology.

## Education Community

- The organisation of, and provision of online access to reliable sources and digital content for education and lifelong learning
- The distribution of the ABEKT Library Automation Software to school libraries, the installation and online training of librarians, online support for the system’s use.

## Academic Community

- The National Archive of PhD Theses
- Repositories for scientific publications, primary data, research results produced by Greek researchers in Greece and abroad
- Open access e-publications (e-journals, books, conference proceedings)
- Bibliometric indicators related to Greek scientific publications, indicators for the national participation in European research programmes, indicators from PhD Theses databases, etc.
- Services supporting the national participation in European RTD programmes (National Contact Point for FP7)
- Promotion of research results through European networks
- The operation of the Science & Technology Library “C. Th. Dimaras” at the National Hellenic Research Foundation
- Library services (bibliographic references and citation index, full-text scientific publications on demand from libraries, archives and documentation centres in Greece and abroad)
- Advanced CRIS systems for managing information on scientific activities
- Documentation concerning scientific production on the Social Sciences and Humanities.

## Public Administration

- The aggregation, documentation and online provision of content produced through public funding (from Ministries, Managing Authorities, General Secretaries, etc.)
- The provision of tools and infrastructures for organising and providing open data and open content, as the institution operationally supporting the new law on digital governance
- Support for research and innovation activities in chambers, regional authorities, municipalities and local stakeholders.

## 5 EKT in numbers: Key Performance Indicators

Digital Content, Services, Projects,  
Publications, Awareness activities,  
Funding, Human Resources

- ▶▶ Numbers allow us to evaluate and be evaluated.
- ▶▶ Results show the potential of the organisation and its commitment to setting ambitious goals and achieving them.

### e-Publishing

#### Byzantina Symmeikta

[www.byzsym.org](http://www.byzsym.org)

Peer-reviewed journal  
published by the Institute for  
Byzantine Research / NHRF

21  
volumes

226  
articles

#### Tekmeria

[www.tekmeria.org](http://www.tekmeria.org)

Peer-reviewed journal  
issued by the Institute of  
Greek and Roman antiquity  
/ NHRF

9  
volumes

86  
articles

#### The Historical Review/ La Revue Historique

[www.historicalreview.org](http://www.historicalreview.org)

Peer-reviewed journal issued by the  
Institute of for Neohellenic Research  
/ NHRF

7  
volumes

102  
articles

#### Research Notebooks

[www.ine-notebooks.org](http://www.ine-notebooks.org)

Edition presenting results of re-  
search conducted by the Institute  
for Neohellenic Research / NHRF

13  
volumes

144  
articles

#### INE Newsletters

[www.ine-newsletter.org](http://www.ine-newsletter.org)

Annual publication by the  
Institute for Neohellenic  
Research / NHRF

11  
volumes

123  
articles

#### Deltion of the Christian Archaeological Society

[www.deltionchae.org](http://www.deltionchae.org)

Peer-reviewed academic journal pub-  
lished by the Christian Archaeological  
Society (ChAE)

27  
volumes

784  
articles



## Digital Repositories

## Digital Content

### National Archive of PhD Thesis

[www.didaktorika.gr](http://www.didaktorika.gr)

Repository collecting PhD Theses from all Higher Education Institutions in Greece and PhD theses completed by Greek scholars abroad.

25.000

bibliographic records of theses

3.550.725

digitised pages

17.055

with access to full text

### Helios Repository

[helios-eie.ekt.gr](http://helios-eie.ekt.gr)

Scientific and research material from the National Hellenic Research Foundation researchers

4.239

records of publications & books by NHRF researchers

1.660

documents (full text, full picture documents)

### Pandektis

[pandektis.ekt.gr](http://pandektis.ekt.gr)

Digital collections of Greek history and civilization produced by the Humanities Institutes of NHRF

11 digital collections of Greek history and civilization

23.000 documents (full text)

40.000 records

### The Parthenon Frieze (Repository)

[www.parthenonfrieze.gr](http://www.parthenonfrieze.gr)

[repository.parthenonfrieze.gr](http://repository.parthenonfrieze.gr)

Digital representation of the Parthenon Frieze, including photos of all stones restored and interactive games

120 photos of stones

3 educational booklets

12 interactive games

## Digital Libraries

### EKT's Digital Library of Science and Technology

[www.ekt.gr/diglib](http://www.ekt.gr/diglib)

20.000 titles of scientific journals with full text access

26.570 electronic books and book series

100 electronic dictionaries and encyclopedias

26 international databases

22 Greek databases on science and technology

97 bibliographic information sources and libraries union catalogues from Greece and abroad

### Union Catalogue of Journals

<http://skp.ekt.gr>

For searching the holdings of Greek S&T libraries

30.719 journal titles

249 libraries

Digital Libraries of Serres, Livadia, Rethymno, Konitsa  
| <http://www.abekt.gr/eopac>

1.268 bibliographic entries of full text

1.644 digital archives

421.732 pages

Digital Library of the Operational Programme “Education and Lifelong Learning”  
| <http://repository.edulll.gr>

Education material and studies produced by EPEAEK I and II and EPEDBM

1.188 bibliographic entries of full text and image (that include)

1.640 digital archives

## Integrated Search Engines

[openarchives.gr](http://openarchives.gr) | [www.openarchives.gr](http://www.openarchives.gr)

Search engine harvesting content from Greek digital libraries and institutional repositories

57 Greek digital libraries and academic repositories

422.275 entries/documents

Argo | <http://argo.ekt.gr>

Search in Greek and international bibliographic databases

97 Greek and international bibliographic databases and libraries' union catalogues

## EKT Services



## Scientific Information & Library Services

	2010	2011
Number of requests received by the scientific information service	11.298	8.178
• Requests for bibliographic references & citation index	677	453
• Requests for full-text scientific publications	10.621	7.725
Number of users of scientific information services	1.380	1.019
• New users	687	472
• Number of new visitors to the Electronic Reading Room	34	37
• Number of visitors to the Library per month	600	650
• Helpdesk phone requests per month	700	800
Users of NHRF Wireless Broadband Network broadband (ground floor & Library)	1.042	1.372
Connections to NHRF Wireless Broadband Network broadband (ground floor & Library)	4.120	4.338
Data volume at NHRF Wireless Broadband Network broadband (ground floor & Library)	Inbound: 75,8 GB Outbound: 1,02 TB	Inbound: 1,5 TB Outbound: 1,7 TB

Total number of users of Scientific Information & Library Services

Around 8.000 users from 155 libraries, 25 institutions of specialized collaboration consortia, members of academic and research community, etc.

## Services & Products for Libraries



ABEKT Software | [www.abekt.gr](http://www.abekt.gr)

### General Statistics

Number of recipients of ABEKT Software **2.533** libraries (school libraries, public, local, research, academic, private, etc)

ABEKT electronic Helpdesk  
[www.abekt.gr/support](http://www.abekt.gr/support) **711** libraries  
**3.204** requests  
**196** articles in the database

Number of contracts for provision/support of ABEKT **586** contracts

### Statistics 2010-2011

	2010	2011
New users (libraries)	24	72
e-Learning seminars <a href="http://www.abekt.gr/elearning">www.abekt.gr/elearning</a>	116 trainees	248 trainees
Number of queries submitted to ABEKT electronic Helpdesk <a href="http://www.abekt.gr/support">www.abekt.gr/support</a>	630	898
New contracts for provision/support of ABEKT	67	203

ΔΕΚΑΔΙΚΗ  
ΤΑΞΙΝΟΜΗΣΗ  
DEWEY

ΣΥΝΟΠΤΙΚΗ ΕΚΔΟΣΗ

ΕΠΙΣΤΗΜΟΝΙΚΟ ΚΕΝΤΡΟ  
ΕΡΕΥΝΑΣ ΚΑΙ ΟΡΓΑΝΩΣΗΣ



### The Greek edition of the Dewey Decimal Classification

| [www.ekt.gr/products/dewey](http://www.ekt.gr/products/dewey)

Librarian tool for integrated classification and standardization of services by all Greek libraries.  
**2.500 print copies** have been distributed to public and private libraries in Greece and Cyprus.

### The Thesaurus of Greek terms of general and medical content

| [www.ekt.gr/thesaurus](http://www.ekt.gr/thesaurus)

The first Thesaurus of Greek terms of general (**6.000 terms**) and medical (**3.000 terms**) content, with translation of the terms in English, is available online. The first edition was disseminated in CD-ROM (**1.000 copies**) to libraries and information centres.



# Supporting Greek research and innovation

## General Statistics for 2007-2011

Number of individuals getting information on European programmes for research and innovation	10.000 individuals
Number of queries submitted for European programmes on research and innovation (mainly through the e-Helpdesk <a href="http://helpdesk.ekt.gr">http://helpdesk.ekt.gr</a> that has been operating since 2008)	4.777 queries (by e-mail, e-helpdesk, phone calls) 543 users of e-helpdesk 122 articles (Frequently Asked Questions) in the e-helpdesk knowledge base
Partner searches (for project consortia building) disseminated by EKT	1.954 partner searches
Number of participants at the information days on FP7 (average number per event)	100 participants per event
Number of individuals watching events remotely (live broadcasting or video) about FP7 taking place at the National Hellenic Research Foundation (average number per event)	100 - 200 individuals per event

## Statistics for 2010-2011

	2010	2011
Number of queries submitted to EKT as National Contact Point for FP7	738	650
Number of bilateral meetings between EKT and researchers/entrepreneurs for research projects	62	71
Partner searches (for project consortia building) disseminated by EKT	364	248
Number of queries on entrepreneurship and innovation submitted to EKT as coordinator/partner of Enterprise Europe Network-Hellas	358	420
Number of business and technology collaborations disseminated all over Europe by EKT, through Enterprise Europe Network-Hellas	90	110
Number of success stories (business and technology collaborations signed through EKT/Enterprise Europe Network-Hellas brokerage)	19	22



Number of research & development projects funded by national programmes	5
• Number of projects that EKT coordinates	2
Number of research & development projects funded by European programmes	23
• Number of projects that EKT coordinates	6

### Scientific/Thematic fields:

Digital Content, Open Access, Libraries, Information Communication Technologies, Research Infrastructures, Entrepreneurship and Innovation, Health, Food, Socio-economics and Humanities, Energy, Research and Regional Development, Gender equality in Research

## Proposals submitted in 2010-2011

### National Programmes

Number of submitted proposals	Total: 2 Coordinated by EKT: 2
Number of funded proposals	Total: 2 Coordinated by EKT: 2
Success rate	100%

### European programmes

Number of submitted proposals	Total: 12 Coordinated by EKT: 2 EKT as partner: 10
Number of funded proposals	Total: 7 Coordinated by EKT: 2 EKT as partner: 5
Success rate (number of proposals funded/number of proposals submitted)	58,3%



EKT develops, maintains and updates more than 30 websites that provide access to rich scientific and cultural content, inform and support the research and business community, as well as raise the general awareness on research, innovation, science, technology and civilization.

### Statistics for EKT websites (30 websites)

	2010	2011
Number of unique users	813.444	1.042.865
Number of visits	1.281.098	1.750.004
Number of pages viewed	21.467.020	32.022.588
Volume of downloaded data	2.694 GB	6.085 GB

### National Archive of PhD Theses

[www.didaktorika.gr](http://www.didaktorika.gr)

	2010	2011
Number of unique users	82.157	207.721
Number of visits	101.030	277.354
Number of pages	744.439	4.478.752

### Repository HELIOS

[helios-eie.ekt.gr](http://helios-eie.ekt.gr)

	2010	2011
Number of unique users	121.371	87.872
Number of visits	162.731	106.756
Number of pages	445.487	449.401

### PANDEKTIS

[pandektis.ekt.gr](http://pandektis.ekt.gr)

	2010	2011
Number of unique users	204.624	99.416
Number of visits	237.048	130.064
Number of pages	1.582.789	867.741

### Parthenon Frieze

[www.parthenonfrieze.gr](http://www.parthenonfrieze.gr)

	2010	2011
Number of unique users	49.921	80.756
Number of visits	64.461	98.070
Number of pages	246.586	459.033

## Open Access website

[www.openaccess.gr](http://www.openaccess.gr)

	2010	2011
Number of unique users	94.657	97.466
Number of visits	185.606	193.411
Number of pages	624.525	720.454

## ARGO - access to bibliographic information sources

[argo.ekt.gr](http://argo.ekt.gr)

	2010	2011
Number of unique users	71.607	55.121
Number of visits	119.936	95.575
Number of pages	1.612.041	1.187.969
Number of searches in Greek databases	546.146	436.538

## Digital Library EPEAEK & EPEDBM

[repository.edulll.gr](http://repository.edulll.gr)

	2010	2011
Number of unique users	-	124.775
Number of visits	-	148.855
Number of pages	-	593.898

## ABEKT Library Automation Software

[www.abekt.gr](http://www.abekt.gr)

	2010	2011
Number of unique users	5.522	7.611
Number of visits	8.159	11.372
Number of pages	62.740	76.683

## ABEKT e-learning application

[www.abekt.gr/elearning](http://www.abekt.gr/elearning)

	2010	2011
Number of unique users	1.093	2.107
Number of visits	2.087	3.545
Number of pages	368.552	545.746

## “Research and Innovation” website

[www.ekt.gr/research](http://www.ekt.gr/research)

	2010	2011
Number of unique users	142.191	131.597
Number of visits	254.850	268.178
Number of pages	3.561.951	1.733.712

## Enterprise Europe Network-Hellas

[www.enterprise-hellas.gr](http://www.enterprise-hellas.gr)

	2010	2011
Number of unique users	31.067	31.350
Number of visits	66.058	99.057
Number of pages	412.835	685.320

# Print & Digital publications by EKT

EKT actively supports anyone that wants to do research by providing information on science, technology and innovation, through its widely acknowledged print and digital publications.



“Innovation, Research and Technology” magazine (bimonthly)  
[www.ekt.gr/kainotomia](http://www.ekt.gr/kainotomia)

6.000 recipients  
 (published since 1996)



”Research and Innovation” e-Newsletter (biweekly)  
[www.ekt.gr/enewsletter](http://www.ekt.gr/enewsletter)

8.000 recipients  
 (published since 2002)



“Greek Scientific Publications 1993-2008”  
[www.ekt.gr/metrics](http://www.ekt.gr/metrics)

700 recipients of print edition

8.132 visits on the web

5.847 visitors viewed/downloaded the pdf version

1.555 users browsed the edition by this specific application

## Press Coverage

	2010	2011
Articles about EKT in print and in the digital media	237	294
Republications of articles (sourced by EKT) in print and in the digital media	> 500	> 600

## Events

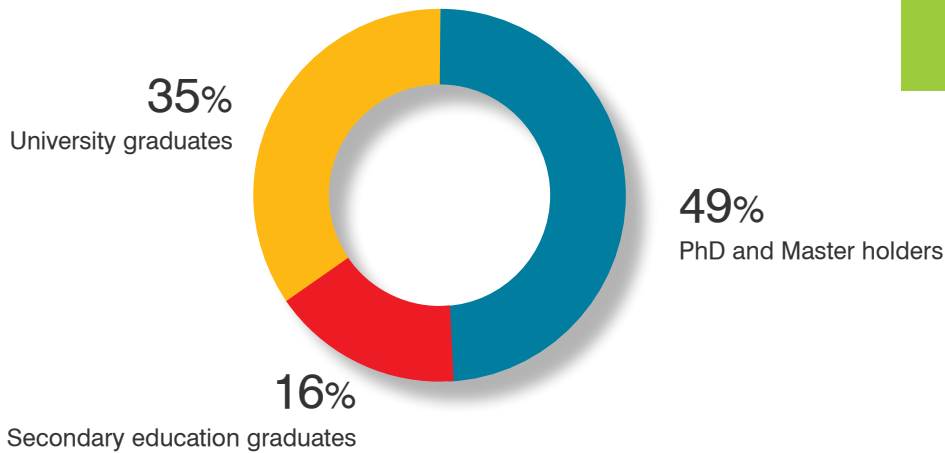
	2010	2011
Organisation (or co-organisation) of events in Greece	12	12
Organisation (or co-organisation) of events in Europe	12	20

**Scientific/Thematic fields:** Digital Content, Open Access, Libraries, Information Communication Technologies, Research Infrastructures, Entrepreneurship and Innovation, Health, Food, Socio-economic Sciences and Humanities, Energy, Research for Regional Development, Gender Equality in research.





## Personnel per education level

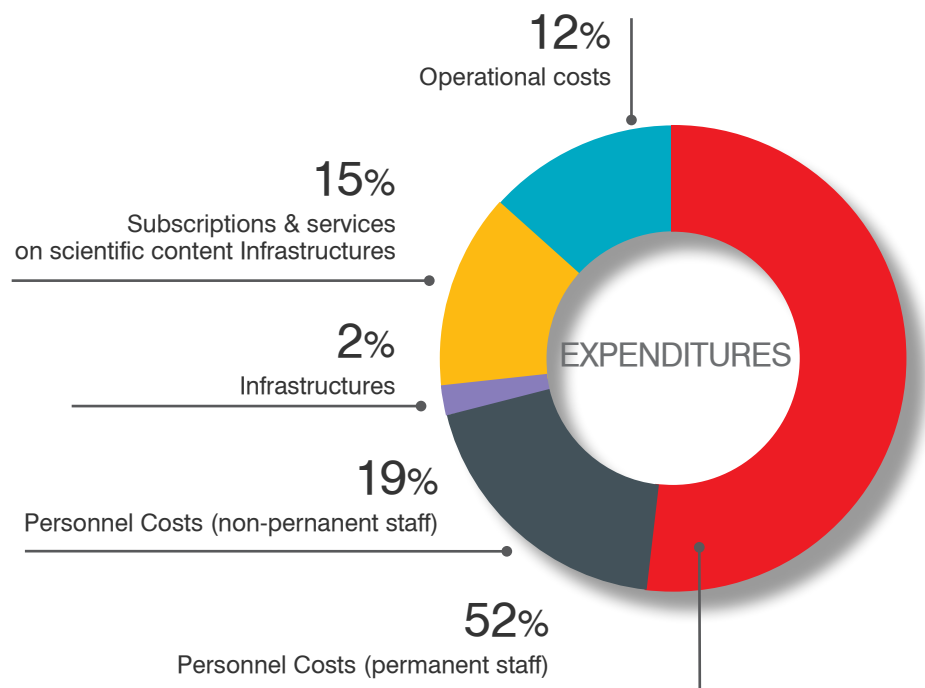
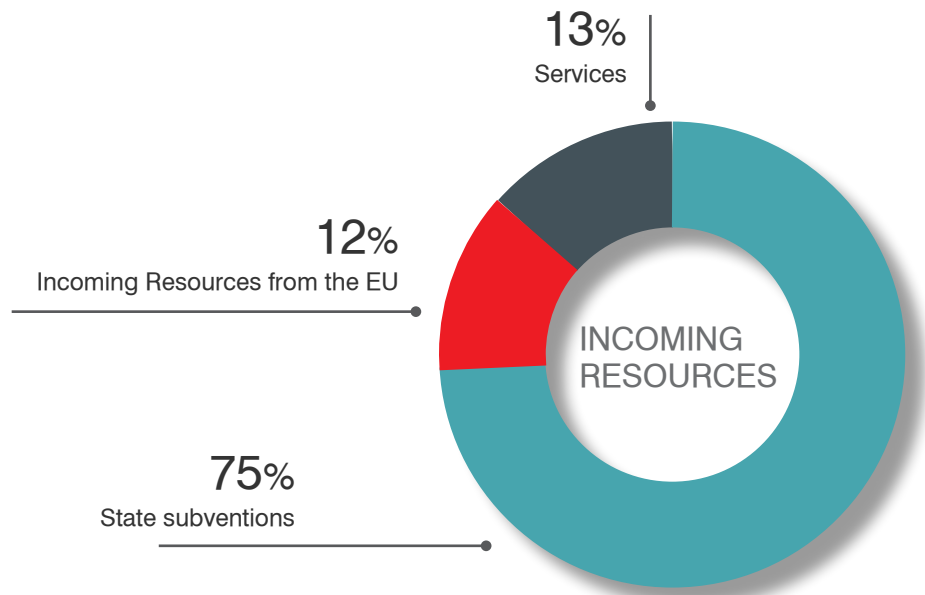


	2010	2011
<b>Personnel per work classification</b>		
Special Functional Personnel	9	9
Scientific & Technical Personnel	46	61
Administration & Support Personnel	15	13
<b>Total</b>	<b>70</b>	<b>83</b>

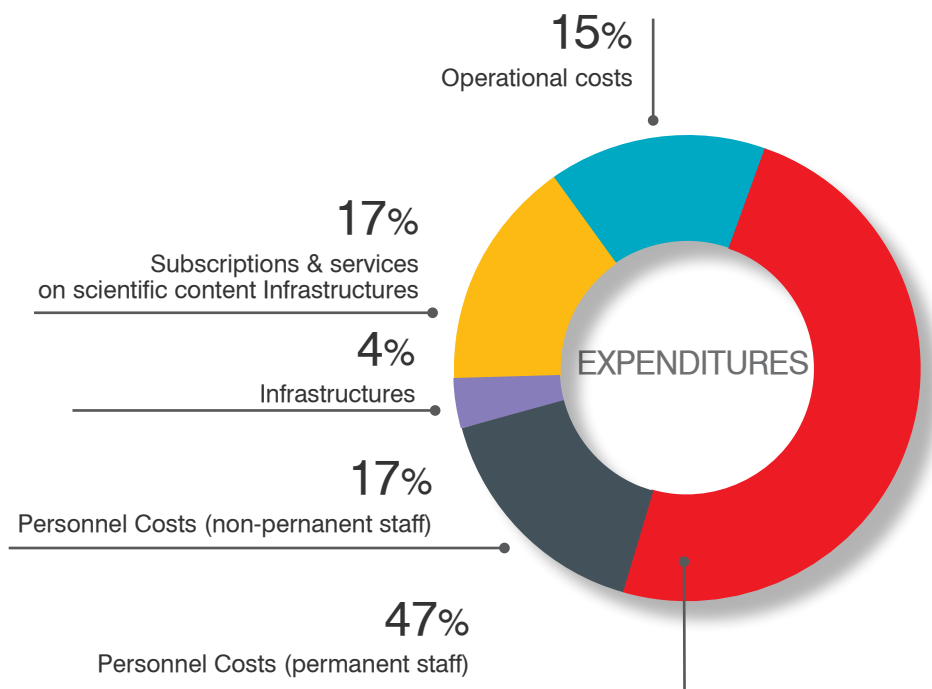
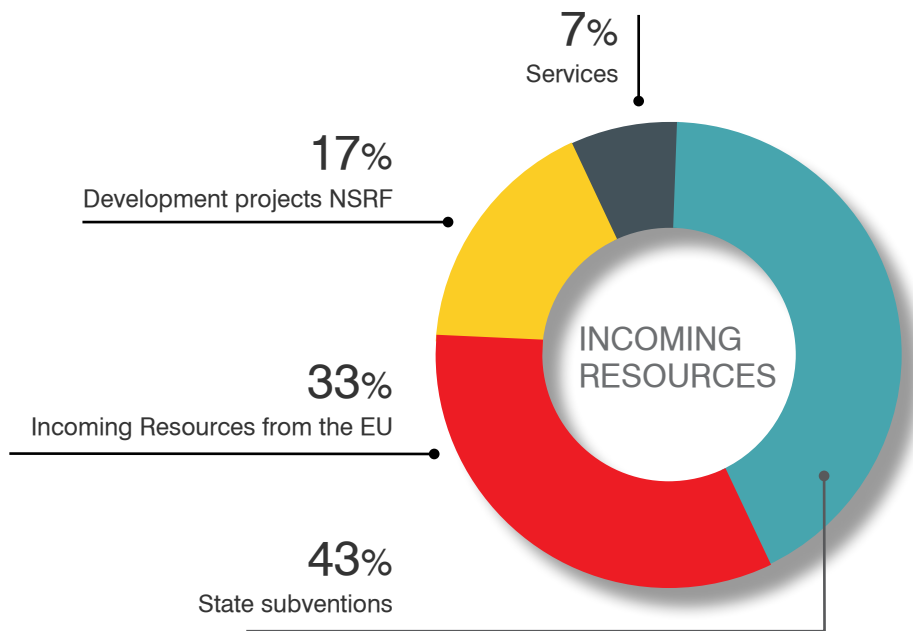
<b>Personnel per type of contract</b>		
Personnel under permanent contract	52	47
Personnel under fixed-term contract	4	4
Personnel under contracts of specific project assignments	14	32

<b>Gender Balance</b>		
Men	31	41
Women	39	42

<b>Personnel per education level</b>		
PhD holders	9	14
Master/Postgraduate diploma holders	18	27
University graduates	26	29
Secondary education graduates	17	13



# Incoming Resources & Expenditures 2011



## 6 e-Infrastructure for Digital Content

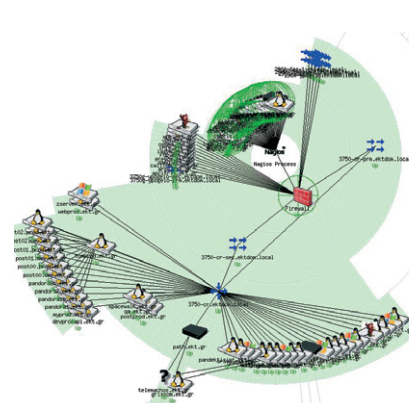
Providing the 'Software as a Service' Cloud for organising, managing, storing and preserving Greek scientific, research and cultural digital reserve – Utilizing virtualization infrastructures, Open Access, Management & Control systems

EKT develops e-Infrastructures for organising, managing, storing and preserving the scientific, research and cultural digital reserve of the country. The e-infrastructure supports at least 50TB of information, consisting of more than 4,5 million pages of Greek digital content, 400.000 metadata entries and union catalogues, hundreds of videos from educational, scientific and information events, and dozens of digital repositories, libraries, union catalogues, e-journals and S&T databases.

The system for monitoring and administering the infrastructure is based on 854 individual parameters for periodic control of its operation, including recording its energy performance. It is estimated that, since 2008, Green IT and virtualization technologies have reduced CO2 emissions by at least 417 tones.



Recording parameters for all e-services provided



Monitoring of equipment and services through open source software tools

The new phase of e-infrastructure is under development. Based on international trends and current needs, the aim is to provide the 'Software as a Service' Cloud, specialized software in organising, documenting and disseminating digital content of high value. The e-infrastructure is characterized by high deployment potential, sustainability and compatibility with international open standards.

The development and operation of the e-infrastructures adhere to the following **basic principles**:

- The targeted development of infrastructures for content provision & the optimization of systems and applications, aiming at improved services for digital content in relation to infrastructures of a general scope
- The utilisation of and contribution to open source software, from systems to content applications, monitoring and management, aiming to provide high-level services through low-cost software
- The large-scale application of virtualization technologies (since 2007). Services are nowadays offered through the virtual machine platform, which supports hundreds of virtual and physical servers, in an optimum configuration for complex content services.
- Systems for managing and monitoring hundreds of individual equipment components, software or service performance, in real time, for wide availability, safety and control.
- Green IT principles for long-term sustainability and low environmental cost. The application concerns the Data Centre infrastructures, the application's architecture, the wide use of virtualization technologies and the systems monitoring energy consumption.

The **means that provide e-infrastructure services** are the following:

- The Data Centre is a reference point in Greece, since it hosts EKT's e-infrastructures, the Hellas Grid Athena node, as well as the GRNET (Greek Research & Technology Network) nodes of GEANT, PITHOS, and ViMA, in a specially configured space. The Data Centre of 100m<sup>2</sup> is equipped with systems for access control, fire detection and firefighting, remote monitoring of climate changes, continuous energy supply, etc. Power of hundreds KW is installed and advanced Green IT features are currently being introduced at Data Centre level.
- The virtual machine platform supports the provision of services at low economic and environmental cost. It currently supports 52 high performance virtual machines, in a total of 94 physical and virtual servers. The platform, comprising 9 physical servers, has operated since 2007 and has already achieved a significant reduction in the environmental and economic energy cost.
- In total, there are 42 physical servers of high performance, 2 Storage Area Network systems in a high availability configuration using Fibre Channel connections of 4Gbps with a total capacity of 80TB for hosting digital data of significant size. Automated libraries for safety copies are utilised, with a capacity that exceeds 120TB.
- The control and management system monitors, in real time, hundreds of individual components for 854 parameters of operation and performance, being on continuous alert.
- The systems' arrays and combined software for the automated mass parallel processing of digital archives, the conversion of digital material, OCR processing, the storage and final online provision of high grading and the potential for processing hundreds of GB of information on a daily basis.
- The Digitisation Centre responds to specialized demands for particular types of material. It hosts equipment for digitizing large print documents (A2+), and other material of significant value which is photographed by digital camera, committed to microfiche/microfilm, etc.
- Network infrastructures are available, configured in such a way as to eliminate fully single points of failure. They run at speeds in the order of Gbps and also provide Disaster Recovery mechanisms and an Ethernet standard of 10GE at the required points.

## e-infrastructure for Libraries, Conferences and Teleconferences

- **Wireless Broadband Network:** Thousands of connections by Library users and NHRF visitors have been recorded. Information and statistical data in real time are available on the website: [www.broadbandcity.gr](http://www.broadbandcity.gr)
- **Electronic Reading Room with 22 workstations**, at the Science and Technology Library "C.Th.Dimaras". Access to scientific information sources is provided through "smart cards".
- **Live streaming and video on demand** for events at the NHRF auditorium (autonomously or in collaboration with GRNET); Training room, fully equipped for teleconferences, at NHRF's ground-floor. The videos from EKT's events are available online at: [www.ekt.gr/videos](http://www.ekt.gr/videos)



## 7 Strategic Priorities

- Ensuring easy and user-friendly access to metadata for the academic and research community
- Increasing open access to scientific, technological and cultural content; Introducing strategic collaborations and processes for its re-use
- Expanding the activities for aggregating data and extracting indicators on Research, Technology and Innovation
- Boosting the adoption of standards for organising, documenting and providing data/content by organisations of public interest; encouraging technological interventions and collaborations with Libraries, Archives and Museums
- Strengthening the organisation's internal operation and its placing in the environment of European content infrastructures

The Web is changing and, without national frontiers, it is being transformed into a global “cloud” of resources (content, applications and services). The users are not only consumers of information, but also producers, “prosumers”, who collaborate and communicate online.

The scientific and academic community is changing, following this new social and cognitive environment. Research increasingly utilizes the data available. Digital information and networking are considered “sine que non” conditions for advancing science and education, and Information Communication Technologies are becoming crucial for the efficiency of research systems.

Despite the differences in research needs and methods, all scientific disciplines share a common ground: they need systems, methods and techniques to ensure access, sharing and comparability of data, enhanced visibility, author attribution and provision of information about the scientific environment in which the output has been produced.

Content e-infrastructure evolve by integrating new tools for collaboration among research communities at national and international level, and for interaction with the wider public. EKT's e-infrastructure is the focal point for aggregating Greek scientific output, aimed at:

- Easy online access to content, data and information resources & permanent preservation of digital archives
- Unique services for researchers, allowing them to perform high level research and to create scientific communities
- Enhanced accessibility and promotion of open access to valuable content
- Producing new knowledge, attracting young people to science, encouraging innovation
- Improved services for Greek organisations and compliance with digital convergence for growth.

## Strategic Priorities 2012-2015

### Ensuring easy and user-friendly access to metadata for the academic and research community

Organising information and providing reliable metadata have been core activities for EKT since the beginning of its operation. Recent initiatives foresee the integration of new types of content, with the emphasis on correct documentation, the widespread use of standards and processed thematic categorization. More specifically:

- The development of bibliographic databases of Greek scientific journals, starting with the scientific output in the Social Sciences and Humanities
- The development of an integrated catalogue of the national cultural digital reserve, in collaboration with cultural organisations; the organisation of an integrated catalogue for the metadata associated with their content
- The aggregation and provision of open bibliographic documents through a single entry point
- The development of a modern environment for the union catalogue of scientific journals in Greek libraries
- The operation of an aggregator for information and metadata from Greek digital libraries. The portal [www.openarchives.gr](http://www.openarchives.gr) will be upgraded with new services and storage capacities.

### Increasing open access to scientific, technological and cultural content; Introducing strategic collaborations and processes for its re-use

The strategy for aggregating digital content addresses the needs of the academic and research community and the country's research priorities and follows the international trends. It is shaped taking into account the development of e-Infrastructures and their integration with those of Europe, the scientific and cultural reserve that is available in open access, the digitisation, documentation and disposition of unique scientific and cultural content and the facilitation of access to reliable digital content. New activities aim to confront the fragmentation of the current digitisation projects and to ensure interoperability for the wide dissemination and search of digital content.

Specific activities will include:

- Expanding repositories for aggregating, organising and disseminating content. New user-centred services will be integrated in repository infrastructures to aggregate new content in a friendly and functional way, placing emphasis on self-archiving processes. Indicatively, some of EKT's repositories in the field include byzantine and meta-byzantine manuscripts from the library of the Monastery of St John the Theologian at Patmos, educational material related to the Acropolis, the archive of educational events at the National Hellenic Research Foundation, as well as digitised material from Greek museums, public libraries and other organisations
- Finalising the Greek PhD Thesis repository which offers online services for depositing new theses and inserting retroactively digitised material
- Developing a repository for the documentation, archiving and disposition of scientific publications in the Socio-economic Sciences and Humanities, containing full texts and metadata of Greek publications
- Upgrading the subject repository PANDEKTIS, aiming to create a user-generated content community, to mobilize scientists and actively involve school communities in the utilisation of content in the educational process
- E-publication of scientific journals, including the documentation and online dissemination of past issues
- Developing digital tools and applications to boost research collaborations and creating communities in targeted scientific fields
- Developing tools for increasing public awareness regarding the "opening" of content and the efficient management of Intellectual Property rights
- Expanding the e-publishing activities
- Supporting Open Access policies, promoting open access infrastructures for scholarly communication and facilitating international collaborations for policy making.

### Expanding the activities for aggregating data and extracting indicators on Research, Technology and Innovation

Based on experience and expertise, EKT produces and publishes indicators describing the country's scientific performance. In the coming years, the aim is to upgrade its systems and widen its activities to include the systematic publication of indicators, full reports and reviews (intelligent reports) which point to the country's research activity and its position in the international environment.



Specific activities will include:

- Applying CRIS (Current Research Information Systems) according to international standards for aggregating information on research activity; Mapping research results (publications, patents, research data, services) and linking with their deriving environment (researchers, organisations, funded programmes & projects, research infrastructures)
- Providing metrics on research and technology, digital content and its use/reuse, as well as on the citation of scientific publications
- Organising and processing information on Greek research. Information is based on data that EKT collects as National Contact Point for European programmes, as coordinator/partner of Enterprise Europe Network-Hellas, as the Greek CORDIS web-service node, and from the related Greek Integrated Information System.
- Publishing indicators that link funding with research results.

## **Boosting the adoption of standards for organising, documenting and providing data/content by organisations of public interest; encouraging technological interventions and collaborations with Libraries, Archives and Museums**

New policies, at national and international level, promote the provision of public data as “open data” accessible and reusable by the public, recognizing that open data contributes to social and economic growth. In Greece, a significant number of public bodies (libraries, museums, research organisations, public administration bodies, cultural agencies, historical archives, etc.) do not possess the required resources, infrastructures, know-how and skilled personnel to achieve this. EKT utilises the technological advancements of ICT, its e-infrastructure and expertise to provide Cloud and Software as a Service (SaaS) services horizontally and on a wide-ranging scale for a large number of public bodies. The overall objective is to raise awareness of the digital content they dispose.

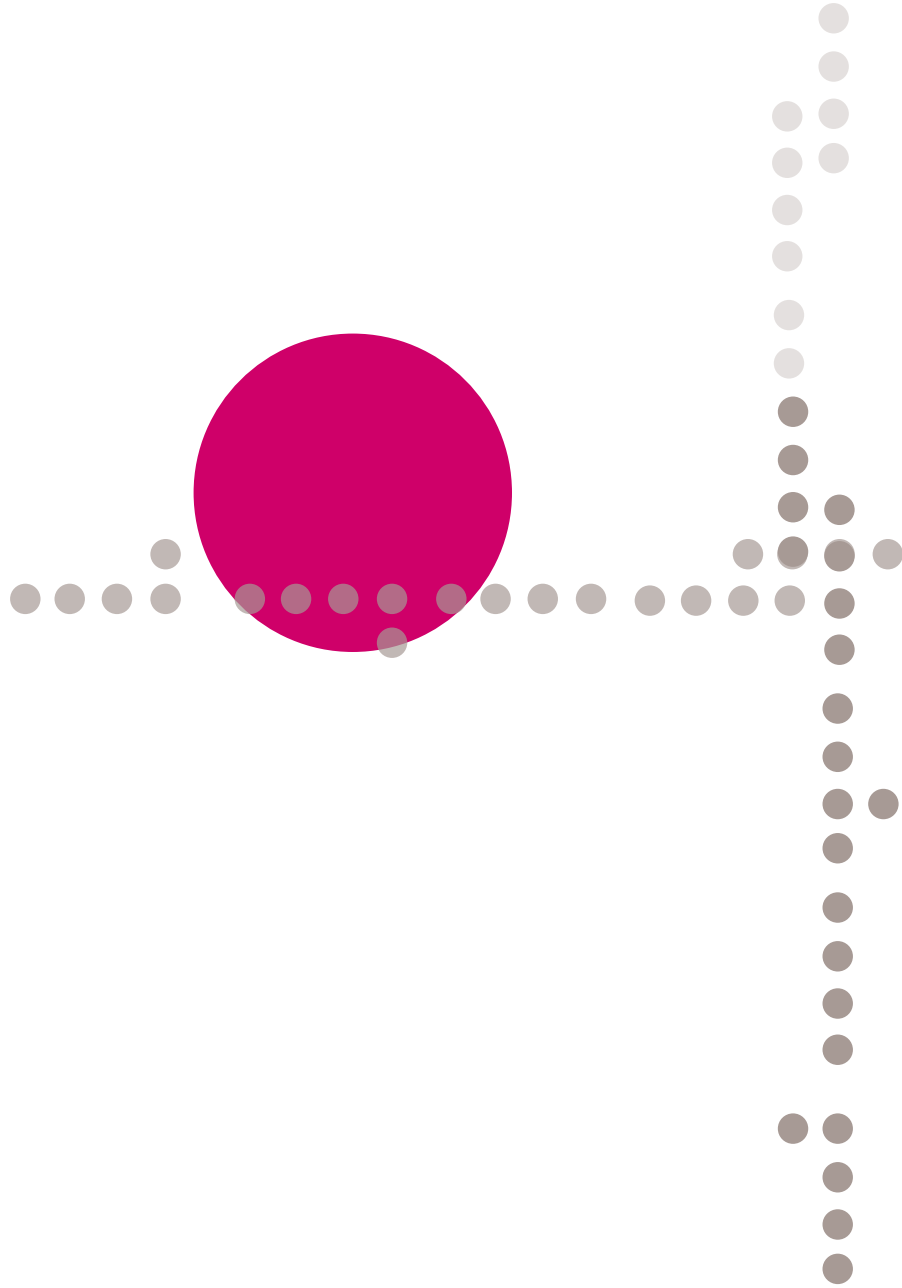
Specific activities include:

- The development of ‘cloud services’ for open documented digital content, which will be provided as integrated SaaS for installing digital repositories and organising libraries
- Support in applying standards for the documentation, processing, disposition and expansion of data, metadata and content of libraries, museums and archives
- Ensuring sustainability, compatibility with national strategies for open public data, and interoperability with platforms of central Cloud storage
- The integration of emerging standards and advanced operations for preserving host data.

## **Strengthening the organisation’s internal operation and its placing in the environment of European content infrastructures**

Specific activities include:

- Boosting the organisational culture so that services can be constantly improved
- Integrating values to improve both performance and the evaluation of public services
- Controlling costs and adopting efficient operational models
- Identifying funding opportunities in European and NSRF programmes, efficiently implementing the annual planning
- Planning to increase revenue from current/new services, ensuring funding for strategic development, and also improving performance and sustainability
- Collaborating with scientific, research and cultural bodies for joint actions
- Consulting with stakeholders for Roadmap 2020
- Strengthening the long-term collaboration with public, municipal and school libraries by developing openABEKT and the e-training/e-support environment
- Supporting open access policies in Greece and international collaborations to raise awareness on its benefits
- Providing software for cataloguing and documenting material and digital resources
- Mapping Intellectual Property Rights in Greek cultural and scientific content
- Developing an observatory for Intellectual Property in the area of research and culture
- Developing a platform for dialogue and virtual communities in the sector of libraries, museums, archives, etc.



## ● Annex I: Development & Research projects

EKT actively participates in a great number of research and development projects, funded by national and European programmes.



### National Information System for Research and Technology (NISRT): “Social Networks-User Generated Content”

[www.epset.gr](http://www.epset.gr)

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Duration: 2011-2014

Funded by: Operational Programme “Digital Convergence” (National Strategic Reference Framework)

Thematic Field: Digital Content, Digital Content Services, Information Communication Technologies

EKT: Coordinator/Beneficiary

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**Objectives:** The project aims to expand and further develop the national e-infrastructure of NISRT by integrating new Information Communication Technologies and content provision models that converge on international developments regarding support for research, education and lifelong learning. The main priorities are to improve the quality of scientific communication, to support open access to research results and to promote the potential for the utilisation of scientific and cultural digital content. The project focuses on collecting content and its dynamic distribution, as well as on its collective reuse and expansion (user-generated content) through users’ social networks and open access infrastructures.

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**Results:** Upgraded e-services are foreseen for the following:

1. Digital Libraries
  2. Social networking and content
  3. The development of e-tools for research
  4. Thematic repositories
  5. E-journals, e-publications
  6. The recording, assessment and organisation of research activity.
-

## Projects funded by national programmes



HELLAS HPC [www.hellashpc.gr](http://www.hellashpc.gr)

Duration: 2010-2011

Funded by: General Secretary for Research and Technology

Thematic fields: Information Communication Technologies, Research Infrastructures

EKT: Partner

**Objective:** The project developed a national network of excellence in the field of supercomputing infrastructures and High Performance Computing (HPC). The network brought together research teams, scientists and users of advanced infrastructures from 35 research and education institutions. It is directly linked to PRACE (The Partnership for Advanced Computing in Europe), a unique pan-European infrastructure partly funded by FP7.

**Results:** A feasibility study on the current situation and the demand among the Greek scientific community for HPC; a financial study on the acquisition and establishment of a supercomputing system in Greece; and the organisation of a single and consistent community of Greek users with a common interest in utilizing supercomputers for research and production activities.

## Services platform for the disposition, management and provision of open public data for documentation and digital content

Duration: 2011-2014

Funded by: Operational Programme "Digital Convergence" (National Strategic Reference Framework)

Thematic field: Information Communication Technologies, Research Infrastructures

EKT: Coordinator/Beneficiary

**Objective:** The project develops an open environment, integrated into EKT's research e-infrastructure, for cloud computing services on open digital content in the form of 'Software as a Service' (SaaS). These services support both the development of digital repositories and the organisation of libraries, ensuring access to high-quality documented open public data. They are provided centrally, through EKT's infrastructures, to diverse institutions that are interested in organising and/or disseminating the digital content and/or the metadata they produce. The services include e-helpdesk, e-learning facility, online support tools, as well as networking activities for the organisations involved.

**Results:** The project's services constitute a horizontal intervention for a wide range of public interest institutions (libraries, museums, research organisations, public bodies, cultural organisations, historical archives) that produce and manage content and metadata. In the knowledge society, such content should be provided in digital, accessible, searchable and reusable form. EKT's integrated environment, offering cloud computing services, ensures that open public data is sustainable, consistent with national strategies and interoperable with central cloud storage platforms. It also ensures that the organisation of content/metadata is standardized and that emerging advanced operations are directly integrated to ensure the preservation of the hosted data.



CLARIN-EL [www.clarin.gr](http://www.clarin.gr)

Duration: 2010-2011

Funded by: General Secretary for Research and Technology

Thematic field: Information Communication Technologies, Socio-economic Sciences and Humanities

**Objective:** The project mapped the field of Socio-economic Sciences, Humanities and Language Technology in Greece and, specifically, the resources/potential of language technology. The project was implemented under the pan-European e-infrastructure CLARIN (Common Language Resources and Technologies) that which integrates digital language resources (texts of all sorts, audio/video) and language technology tools (speech recognizers, aligners, tokenizers, part-of-speech taggers, parsers, manual annotators, viewers etc.) in a repository made available, through e-services, to all researchers. CLARIN is an open European network, consisting of 171 members from 22 countries, among which is EKT.

**Results:** A database of organisations active in Socio-economic Sciences and Humanities research, as well as individuals disposing language resources and technologies. By the end of 2011, 43 organisations and 3 individuals were recorded, as well as 34 resources of primary material, 39 of processed data, 26 reference sources and 69 tools/applications of language technology.

## Projects funded by European programmes



### Enterprise Europe Network-Hellas [www.enterprise-hellas.gr](http://www.enterprise-hellas.gr)

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Duration: 2008-2013

Funded by: European Commission (DG Enterprise and Industry)

Thematic field: Entrepreneurship & Innovation

EKT: Coordinator of 16 partners (2008-2010), Partner (2011-2013)

**Objective:** The Enterprise Europe Network-Hellas is the largest network of integrated business support in Greece. It provides “one-stop-shop” services to enterprises that are interested in boosting their competitiveness based on knowledge and innovation, utilizing innovative technologies, business agreements and research programmes across Europe. The Network comprises 16 industrial associations, research and technology organisations, chambers of commerce and industry, governmental SME Agencies and established Innovation players with extensive experience on innovation and SMEs.

**Results:** Access to a European database with companies’ profiles from all over Europe; 70 partnership agreements between research organisations and enterprises; 96 Greek technologies promoted in Europe and 10.000 European technologies promoted in Greece (2008-2011). Gained a European distinction for good practices, awarded by DG Enterprise and Industry of the European Commission.



### Euro-RISnet & EuroRisNET+:

European Research Infrastructures Network of National Contact Points  
[www.euroris-net.eu](http://www.euroris-net.eu)

Duration: 2007-2011 & 2011-2013, respectively

Funded by: European Commission (DG Research and Innovation & Information Society and Media)

Thematic field: Research Infrastructures

EKT: Coordinator of 36 & 16 partners, respectively

**Objective:** The Network will upgrade the services that National Contact Points provide to organisations for participating in the FP7 Research Infrastructures (RIs) programme. It will increase awareness of research infrastructures in the European Research Area through synergies between RIs NCPs but also with those of other themes/areas of FP7.

**Results:** Euro-RisNet: an integrated platform for the RIs programme; a virtual helpdesk; success stories; an information service on funded projects and transnational access opportunities; workshops on the socio-economic benefits of infrastructures; and synergies with other funding instruments (national & regional programmes, industry, etc). Euro-RisNet+: development of an Observatory (national/regional policies, funding tools for RIs, etc) and a Knowledge Repository; statistical studies; e-tools for better services.



### ResPotNet: Trans-national cooperation among Research Potential NCPs [www.respotnet.eu](http://www.respotnet.eu)

Duration: 2008-2011

Funded by: European Commission (DG Research and Innovation)

Thematic field: Research excellence in convergence regions

EKT: Coordinator of 16 partners

**Objective:** The project coordinated the operation of the National Contact Points for the FP7 Research Potential (REGPOT) programme. The Network supports excellent organisations in convergence and outermost regions in Europe to fully utilize their research potential through the REGPOT programme.

**Results:** A database on excellent organisations in convergence and outermost EU regions; a study on the results of the projects funded; European Forums on regional development; workshops; training visits and promotion activities at high-level European events.



**NET4SOCIETY & NET4SOCIETY+:** Trans-national co-operation among National Contact Points for Socio-economic sciences and the Humanities (SSH NCPs)  
[www.net4society.eu](http://www.net4society.eu)

Duration: 2008-2011 & 2011-2013 respectively  
Funded by: European Commission (DG Research and Innovation)  
Thematic filed: Socio-economic Sciences and Humanities  
EKT: WP Leader for Training activities

**Objective:** The Network aims to upgrade the services that National Contact Points for the FP7 Socioeconomic Sciences & Humanities (SSH) programme provide to research organisations and enterprises

**Results:** A virtual helpdesk, a database of organisations active in SSH; workshops; training seminars; European conferences and brokerage events.



**C-Energy + C-Energy & C-Energy+:** Reinforcing the Network of Energy NCPs  
[www.c-energyplus.eu](http://www.c-energyplus.eu)

Duration: 2008-2010 & 2010-2013, respectively  
Funded by: European Commission (DG Research and Innovation)  
Thematic field: Energy  
EKT: WP Leader for Dissemination & Awareness activities

**Objective:** The project reinforces the European Network of National Contact Points for the FP7 Energy programme. The Network is addressed to research and academic institutions, as well as to enterprises that are interested in participating in this specific programme

**Results:** A study/mapping of organisations that are active in the field of Energy; an electronic system for partner search and consortia building; brokerage events; and awareness-raising events.



**IDEALIST2011:**  
Trans-national cooperation among ICT national contact points  
[www.ideal-ist.eu](http://www.ideal-ist.eu)

Duration: 2008-2011  
Funded by: European Commission (DG Information Society and Media)  
Thematic field: Information Communication Technologies  
EKT: Partner

**Objective:** The Network has been operating since 1996 and covers the FP7 ICT programme. It is addressed to universities, companies, research organisations, public and private institutions and provides consulting and partner search services.

**Results:** A partner search platform for the Information & Communication Technologies (ICT) programme (note: during the lifecycle of the project, 226 partner searches have been disseminated and 110 new records inserted in the Greek client-base); brokerage events and awareness-raising events.



**TRANS REG NCP:** Coordination Action to improve trans-national cooperation of NCPs  
[www.transregncp.eu](http://www.transregncp.eu)

Duration: 2008-2011  
Funded by: European Commission (DG Research and Innovation)  
Thematic field: Regional research clusters  
EKT: WP Leader for Dissemination & Awareness activities

**Objective:** The project upgrades the operation of NCPs for the FP7 Regions of Knowledge programme. The Network supports research organisations, enterprises and local authorities to develop research-driven clusters. The aim is to get regions to commit themselves to, and invest in, research as a precondition for economic and social growth.

**Results:** Database on research clusters in Europe; Forums on clusters; workshops, training seminars.



**OpenAIRE:** Open Access Infrastructure for Research in Europe & **OPENAIREPLUS:** 2nd-Generation Open Access Infrastructure for Research in Europe. [www.openaire.eu](http://www.openaire.eu)

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Duration: 2009-2011 & 2011-2013, respectively  
Funded by: European Commission (DG Information Society and Media)  
Thematic field: Open Access  
EKT: Partner

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**Objective:** The project implements the EC pilot action for Open Access in FP7 and the ERC OA Guidelines. According to EC rules, researchers funded by FP7 have to publish their results in an Open Access infrastructure within a certain timeframe, thus making them accessible to everyone. EKT, as the Open Access Centre for FP7 research results in Greece, provides Greek scientists with the support they need to deposit into an open access repository those scientific publications of theirs that were funded by the EU's FP7 programme.

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**Results:** OpenAIRE: a guide on how to implement the Open Access initiative (for researchers, repository managers and policy makers); a Network for supporting National Open Access Desks; and the OPENAIRE portal (in Greek).  
**OpenAIREplus:** infrastructure that allows researchers to submit their research datasets as well as their results; examination of existing data management services.



**GENDERA:** Gender Debate in the European Research Area  
[www.gendera.eu](http://www.gendera.eu)

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Duration: 2009-2012  
Funding by: European Commission (DG Research and Innovation)  
Thematic field: Socioeconomic Sciences and Humanities, Gender equality  
EKT: Partner

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**Objective:** The project aims to promote policies and best practices on gender balance in research, as well as boost the participation of women in the European Research Area.

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**Results:** A database of good practices that foster equal opportunities across genders in research (practices related to recruitment, selection and promotion); guidelines for the integration of gender issues into research organisations; a study on policies for women's career development in research; and the development of national task forces.



**Fit for Health:** Promoting sustainable participation of high-technology, research-intensive SMEs operating in the Health Sector in FP7  
[www.fitforhealth.eu](http://www.fitforhealth.eu)

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Duration: 2010-2013  
Funded by: European Commission (DG Research and Innovation)  
Thematic field: Health  
EKT: WP Leader for Promotion & Networking

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**Objective:** The project supports high technology-research intensive SMEs, as well as individual researchers, to fully utilize the innovation opportunities in the Health sector.

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**Results:** A database of organisations that are active in the Health sector; and training material for all stages of FP7 (information, preparation of competitive proposals, partner search, utilisation of research results, etc).



**SWITCH4FOOD:** Services for Water and InTegrated techniques for FOOD  
[www.s4food.eu](http://www.s4food.eu)

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Duration: 2010-2012  
Funded by: European Commission (DG Enterprise and Industry)  
Thematic field: Food, Environment  
EKT: Partner

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**Objective:** The Network supports SMEs in the food sector to improve the process of water management, reduce the environmental impact and, at the same time, ensure the quality and safety of their products.

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**Results:** The e-Application “Virtual Clubs” for the sectors of water management and food (<http://s4food-clubs.ekt.gr/>); the study “Conditions for resource efficiency-related innovation in selected European food regions”; knowledge transfer and the dissemination of good practises.

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**SBD Hellas** – Small Business Dialogue  
[www.sbbe.gr/m2/m2\\_sbd.asp](http://www.sbbe.gr/m2/m2_sbd.asp)

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Duration: 2010-2012  
Funded by: European Commission (DG Enterprise and Industry)  
Thematic field: Entrepreneurship & Innovation  
EKT: Partner

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**Objective:** The project boosts the dialogue of enterprises with the European Commission. An information mechanism is developed so that, on the one hand, the European Commission is aware of the national legal/political initiatives and, on the other, local authorities can become involved in the assessment of the EU policies.

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**Results:** Support for consultation on the Legal Framework concerning product marketing (harmonization of 10 Directives for compliance of products with the Decision 768/2008), and for mechanisms of alternative problem solving (support for consumers’ reimbursement).

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**PAERIP:** Promoting African-European Research Infrastructures Partnerships  
[www.paerip.org](http://www.paerip.org)

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Duration: 2011-2013  
Funded by: European Commission (DG Research and Innovation)  
Thematic field: Research Infrastructures  
EKT: Partner

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**Objective:** The Network boosts the collaboration of European and African organisations in the sector of Research Infrastructures.

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**Results:** An e-Helpdesk; newsletters and events.

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**SHEMERA:** Euro-Mediterranean research cooperation on gender and science,  
SHE Euro-Mediterranean Research Area  
[www.shemera.eu](http://www.shemera.eu)

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Duration: 2011-2014  
Funded by: European Commission (DG Research and Innovation)  
Thematic field: Socio-economic Sciences and Humanities, Gender equality  
EKT: Partner

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**Objective:** The network supports research collaboration on science and gender in Europe and the Mediterranean countries. It aims to increase the participation of women in scientific research, as well as to introduce the gender factor in research policy.

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**Results:** A database of bibliographies related to gender in science in the Mediterranean; studies & indicators.

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## FLASH-IT Facilitating Access to Socio-economic Research through Information and Communications Technology

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Duration: 01/11/2011-31/10/2013  
Funded by: European Commission (DG Research and Innovation)  
Thematic field: Socioeconomic Sciences and Humanities  
EKT: Partner

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**Objective:** The project will utilize ICT-based technologies and tools to increase the dissemination and exploitation of the SSH (Socio-economic Sciences and Humanities) projects' research findings.

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**Results:** A database of research results from SSH projects (funded by FP6 and FP7); a study on the conclusions/data of projects funded by the FPs and the relevant infrastructures.

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## ARROW Plus: European Registries of Rights Information and Orphan Works [www.arrow-net.eu](http://www.arrow-net.eu)

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Duration: 2011-2013  
Funded by: European Commission (DG Enterprise and Industry)  
Thematic field: Information Communication Technologies  
EKT: Partner

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**Objective:** The project will assist libraries and other users who need to address rights management issues that may arise during any digitisation project involving text and image based works. The ARROW infrastructure streamlines the process of identifying authors, publishers and other rights holders of a work, including whether it is an orphan work, in or out of Intellectual Property rights or if it is still commercially available. The infrastructure will reduce the quality gap in the field among diverse European countries.

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**Results:** The infrastructure that will ensure interoperability between data sources of European books (across countries and thematic areas); the identification of users' requirements for the successful adoption of the Arrow system; a national sustainability strategy; the Arrow Plus system for identifying Intellectual Property rights.

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## MEDOANET: Mediterranean Open Access Network [www.medoanet.eu](http://www.medoanet.eu)

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Duration: 2011-2013  
Funded by: European Commission (DG Research and Innovation)  
Thematic field: Open Access, International Cooperation  
EKT: Coordinator of 9 partners

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**Objective:** MedOANet addresses the necessity for coordinated strategies and policies in Open Access to scientific information in six Mediterranean countries: Greece, Turkey, Italy, France, Spain and Portugal. The project records existing infrastructures and policies, supports synergies and encourages the political commitment to strengthen Open Access.

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**Results:** The project started in December 2011. It is foreseen to establish national task forces, organise national/European workshops and conferences, publish guidelines on how to apply Open Access policies with a top-down approach (by ministries, research and funding organisations, etc.) and develop a 'Mediterranean Open Access Tracker' tool for mapping national strategies, policies and structures in the countries involved.

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## KYR-LIB-NET

Resource Sharing Network of Academic and Research Libraries of Kyrgyzstan

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Duration: 2006-2010  
Funded by: European Commission (DG Education and Culture)  
Thematic field: Education and Culture (Libraries)  
EKT: Partner

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**Objective:** The project created a collaboration network of academic and research libraries in the Republic of Kyrgyzstan, and trained staff of the libraries of KNTU, ISU and JSU in using electronic media and documentation systems (integrated information system, digitisation, subscription management, and enrichment of sources via the Web).

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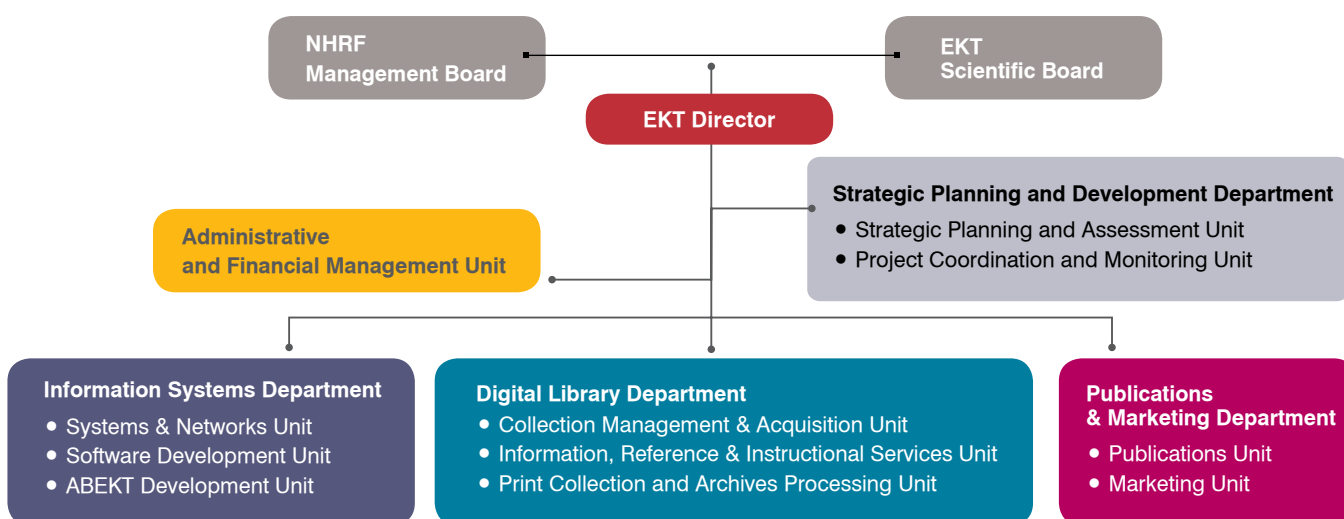
**Results:** The development of a data processing system; E-cataloguing; a digital document delivery network, Personnel training.

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# Annex II: Organisational Structure - Scientific Board

## Governance

The National Documentation Centre (EKT) is a national scientific infrastructure operating at the National Hellenic Research Foundation (NHRF) under the supervision of the General Secretary for Research and Technology (GSRT). The Director is Mr Evangelos Bouboukas.



## Scientific Board (ESEKT)

The Scientific Council of EKT (ESEKT), consisting of distinguished scientists and members of the academic and research community, contributes to the strategic planning and the efficient operation of the organisation.

### Members of ESEKT

<b>President</b>	<b>Yannis D. Caloghirou, Professor</b> National Technical University of Athens, School of Chemical Engineering
<b>Vice-President</b>	<b>Katsougianni Eleni-Kleanthi, Professor</b> National & Capodistrian University of Athens, Medical School
<b>Members</b>	<p><b>Sartzetakis Stylianos</b> Researcher, Grade A, Athena Research and Innovation Centre in Information, Communication and Knowledge Technologies, Institute for Networking Research &amp; Technology</p> <p><b>Tsakiris Dimitrios</b> Researcher, Grade B, Foundation for Research and Technology-Hellas, Institute for Computer Sciences</p> <p><b>Chrysomallidis Charalampos</b> GSRT Representative</p> <p><b>Bouboukas Evangelos</b> Director, National Documentation Centre</p>



## Credits

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**Editing:** Margaritis Proedrou, Georgia Tzenou, Nena Malliou, (for the English edition: Ioanna Doutsou, Henry Scott, Victoria Tsoukala)

**Design:** Dimitra Pelekanou

**Photos:** Ioannis Voulgarakis

The Annual Report 2010-2011 was published by the Publications & Marketing Department of EKT.  
It is available online at: [www.ekt.gr/reports](http://www.ekt.gr/reports)

ISBN: 978-960-89499-9-7 (print) ISBN: 978-618-80175-0-4 (pdf)





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ΤΕΚΜΗΡΙΩΣΗΣ  
N A T I O N A L  
D O C U M E N T A T I O N  
C E N T R E

2010  
2011

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ISBN: 978-960-89499-9-7 (print) ISBN: 978-618-80175-0-4 (pdf)