

# Why infrastructures are Important for Cultural Heritage?

**Artur Serra**

Indicate Workshop, June 14, 2011

# Summary

1. What is an e-Infrastructure?
2. Types and its evolution.
3. An e-Culture Infrastructure?

# 1. What is an e-Infrastructure?



# European Commission ICT Research in FP7

a CORDIS service



European Commission > CORDIS > FP7 > ICT > ... > e-Infrastructure > Home

Calls | Library | FAQ | Sitemap

Home

Programme

e-Infrastructure Home

Overview

Programme

Calls

Projects

Events

Publications

Contacts

Previous Research

Participating

Projects

Newsroom

## e-Infrastructure



e-infrastructure

The **e-Infrastructures activity**, as a part of the **Research Infrastructures programme**, focuses on ICT-based infrastructures and services that cut across a broad range of user disciplines. It aims at empowering researchers with an easy and controlled online access to facilities, resources and collaboration tools, bringing to them the power of ICT for computing, connectivity, storage and instrumentation. This allows for instant access to data and remote instruments, "in silico" experimentation, as well as the setup of virtual research communities (i.e. research collaborations formed across geographical, disciplinary and organisational boundaries).

**e-Infrastructures** foster the emergence of e-Science, i.e. new working methods based on the shared use of ICT tools and resources across different disciplines and technology domains. Furthermore, e-Infrastructures enable the circulation of knowledge in Europe online and therefore constitute an essential building block for the [European Research Area\(ERA\)](#).

The [Communication from the European Commission on ICT Infrastructures](#)



### Highlights

New publications available [here](#)

New calls for tenders [here](#)

Joint [neuGRID /outGRID](#) Event at Euro Parliament: 26 January 2011

[GÉANT Expert Group](#): "What role for European Research and Education networking in 2020"

[AfricaConnect Project kicks off at IST Africa 2011](#)



### Calls

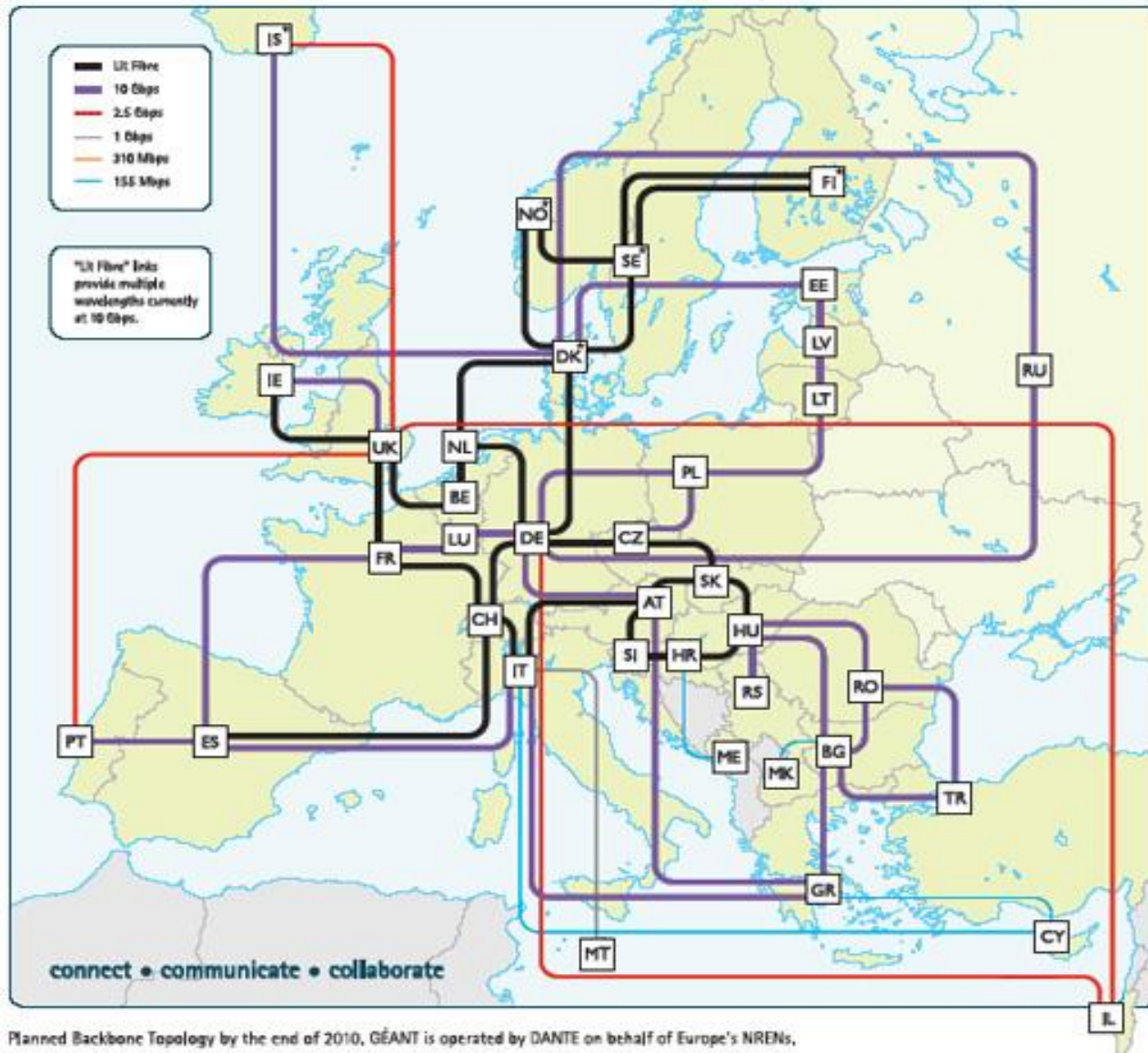
# e-Infrastructure

- ICT based Infrastructure supporting research collaboration between different disciplines across boundaries:
  - networking capacities
  - computing facilities
  - storage
  - sharing instruments
  - set up of virtual research communities.

# GEANT: an example of networking eInfrastructure

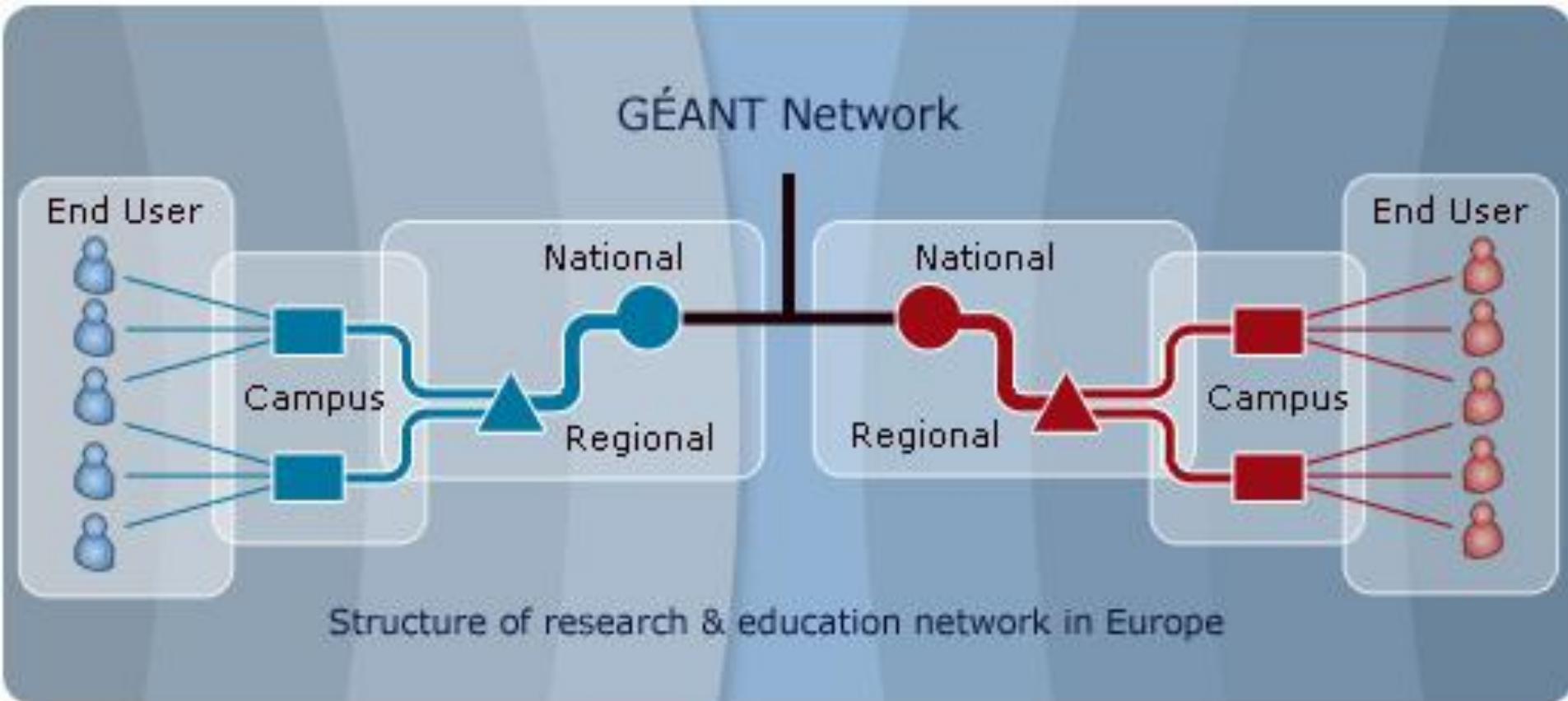
The screenshot shows the GEANT Project website homepage. The browser address bar displays <http://www.geant.net/pages/home.aspx>. The website features a dark blue header with the GEANT logo (a globe with yellow stars) on the left and navigation links for [FAQS](#), [CONTACT US](#), and [SITEMAP](#) on the right. A search bar is also present with a "SEARCH" button and a link to "advanced search". Below the header is a horizontal menu with links for [ABOUT GÉANT](#), [NETWORKS](#), [RESEARCH](#), [SERVICES](#), [USERS](#), [MEDIA CENTRE](#), and [EVENTS](#). The main content area begins with the text "Welcome to the GÉANT Project website" on the left and "Friday 10 June 2011 | Time -" on the right. A large banner image shows a globe with yellow stars and the text "Transforming the way researchers collaborate". Below this, a paragraph states: "GÉANT is the pan-European data network dedicated to the research and education community. Together with Europe's national research networks, GÉANT connects 40 million users in over 8,000 institutions across 40 countries." To the right of the banner is a "GÉANT in Focus" section with the text: "GÉANT enables the global research village through extensive links to research networks around the world. Click the links below to learn more: Research Networking, UPDATED Topology Maps". At the bottom, there are three sections: "Get Connected" with links for [Topology Maps](#), [Deliverables](#), and [User Communities](#); a "Connect" banner for "Issue 4 - April 2011"; and "News & Media" with a date of "9 June | 2011" and a headline: "European Bioinformatics Institute drives ge research with GÉANT". The browser's status bar at the bottom indicates "Please wait while scripts are loaded..."

# Network Topology



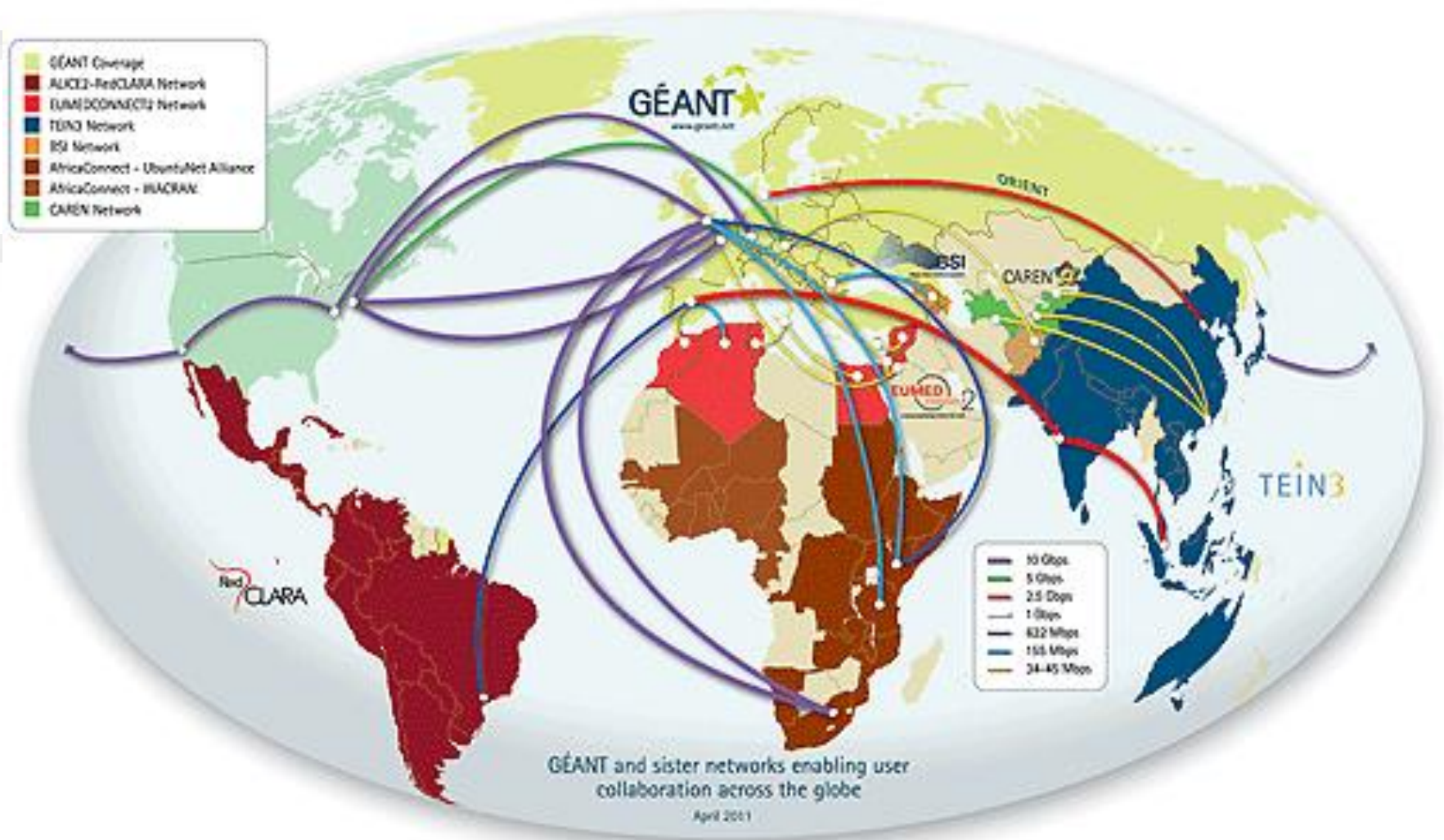
Planned Backbone Topology by the end of 2010, GÉANT is operated by DANTE on behalf of Europe's NRENs.

# From local e-Infrastructures...





# To Global e-Infrastructures....



## 2. Types and its evolution



# Each type of e-Infrastructure responds to the needs of a kind of community

## ARPANET, 70s

Type: computer network infrastructure

Community: computer scientists

Applications: telnet, FTP, mail,...

## NSFNet, 90s

Type: data intensive infrastructure

Community: natural scientists (physicists, biologists,...)

Applications: Supercomputing,....GRIDs

### 3. How about the e-Infrastructure for eCulture?

# Internet 2, Arts and Humanities Initiative at UCAID. Seattle 1998



A screenshot of a presentation slide. The slide has a blue gradient background with white wavy lines. The title "Arts &amp; Humanities Initiatives" is centered in black text. In the bottom right corner, the "INTERNET 2" logo is visible, with "INTERNET" in black and "2" in red. The slide is shown within a browser window interface. The browser's address bar contains the word "Buscar". The zoom level is set to 72.5%. The browser's status bar at the bottom shows navigation arrows and the page number "9 / 25".

# Live performing arts: HD interactive media.



# i2cat Foundation

 Generalitat de Catalunya  
Departament de la Presidència  
**Secretaria de Telecomunicacions  
i Societat de la Informació**



**Universitat Ramon Llull**

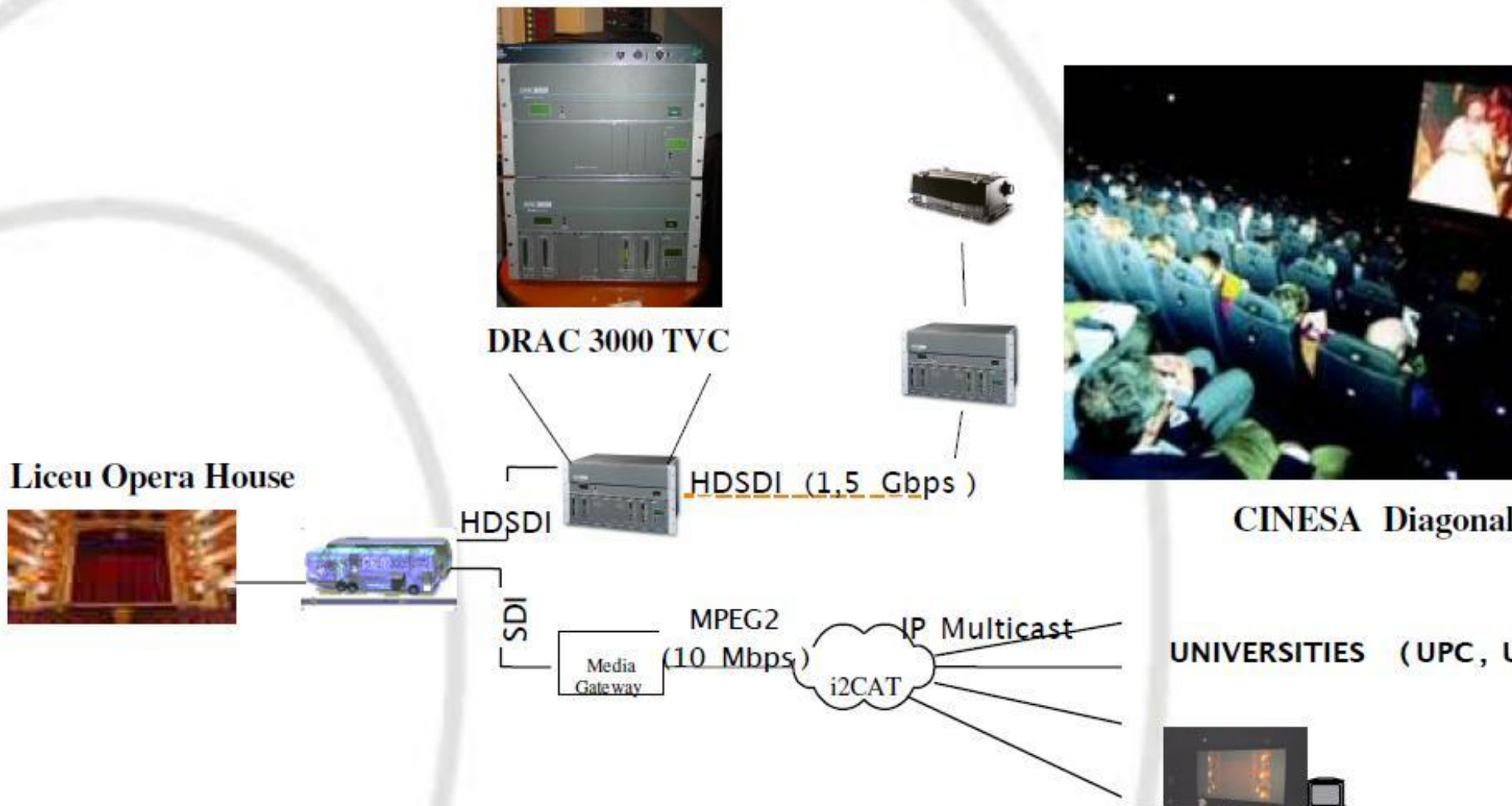


- The board is composed by 4 public institutions, 3 universities
- and 9 private companies from the telecommunications and media sector.



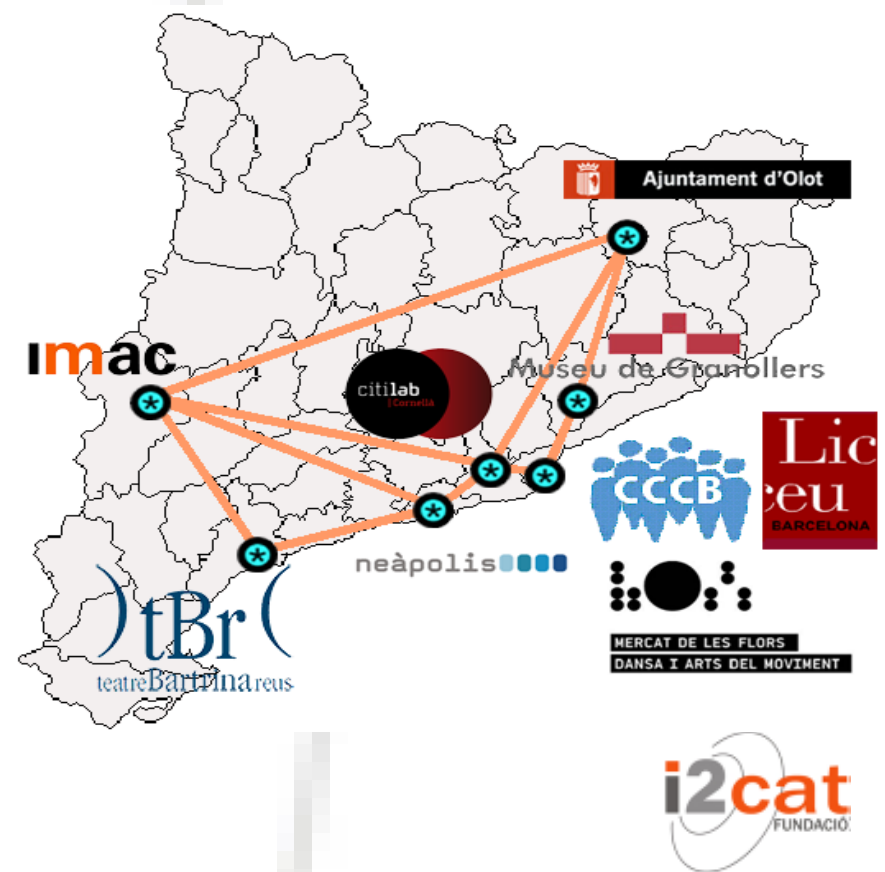
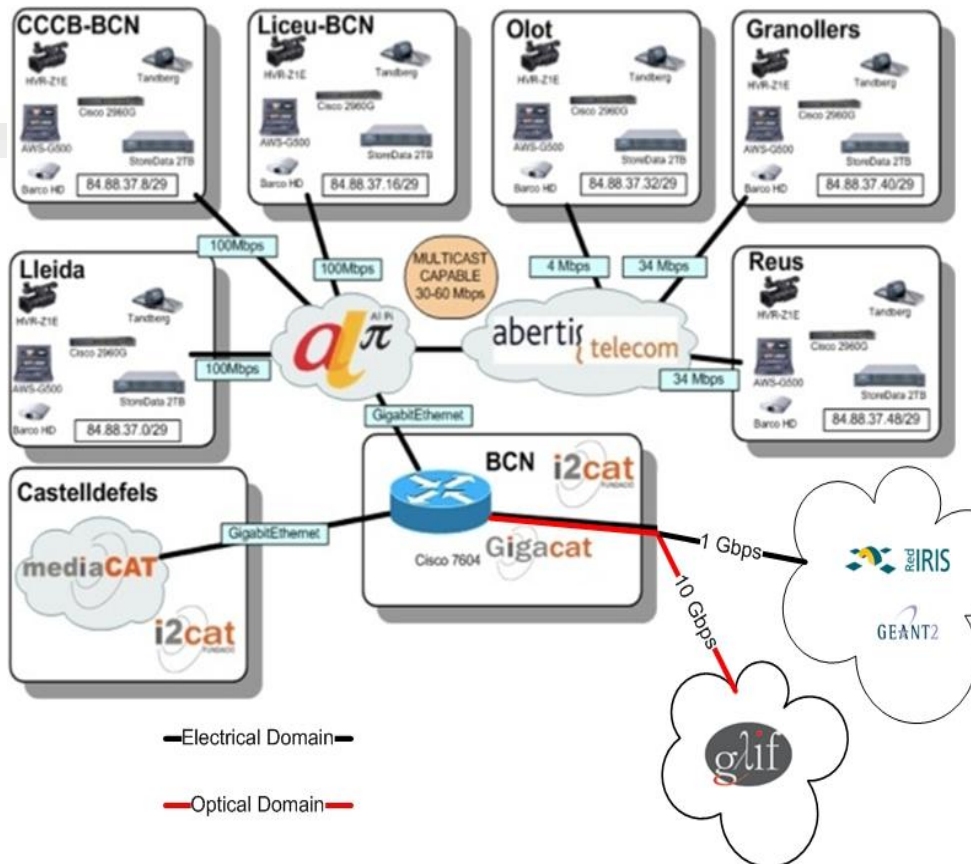


# Open Opera (2001)



# Anella Cultural (Cultural Ring)

- It aims to build a robust infrastructure for eCulture in Catalonia, offering to the cultural community composed by different cities the chance to be connected by means of an experimental media network to share live cultural events.



# Networking infrastructure



Teatre Bartrina - Reus



Gran Teatre del Liceu



Teatre Principal - Olot



Teatre Monumental - Mataró



Teatre de l'Escorxador - Lleida

i2cat  
FUNDACIÓ

• IP network, from 5Mbps to 1Gbps symmetrics

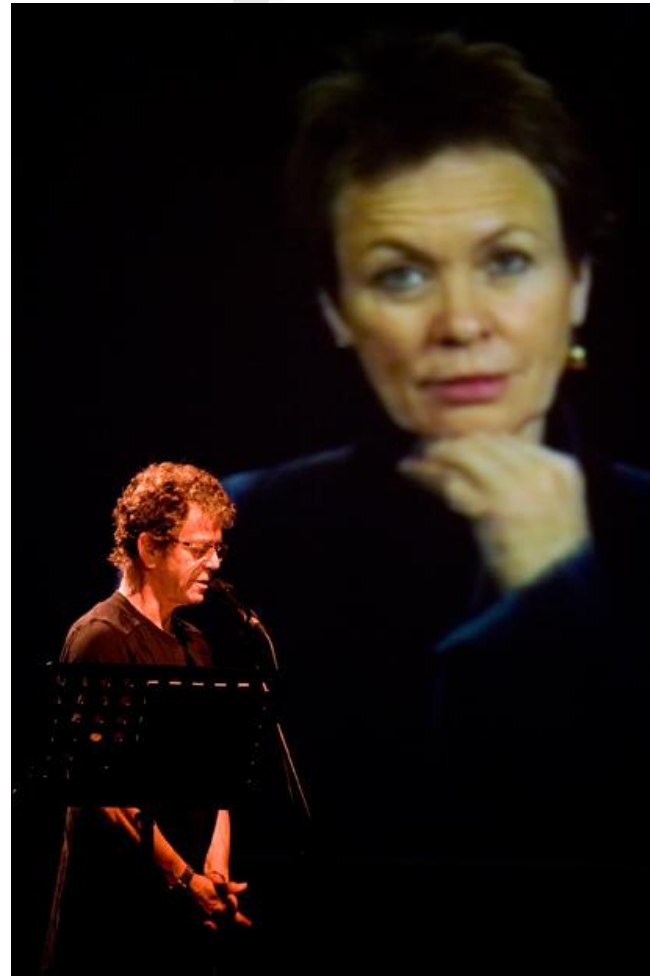
i2cat  
FUNDACIÓ

# Media interactive infrastructure

- 2 portable PCs
- 1 audio card
- 1 HD projector
- Power amplifier
- Audio system.
- Audio mixer.
- Sony Anycast station



# Content Shared Infrastructure



**Poetry festivals**

**Guided tours**

**Master Class**

**Workshops**

**Courses**

**Conferences**

**Artistic performances**



**“Difussion is where technology offers major opportunities to the opera in the XXI century” J. Matabosch.**

# Metamembrana 2008, Exploring new art formats



Buscar

Créditos

Español

Português

English



# Anilla Cultural

LATINOAMÉRICA-EUROPA

Inicio

Qué es

Quiénes somos

Mediateca

Programación

Noticias

Contacto

blip.tv

twitter

flickr

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## TWITTERATURA



**Anilla Cultural**  
6 Episodios

	Francisco Brugnoli presenta Anilla Cultural TV-UN	0:32
	Artur Serra presenta Anilla Cultural TV-UN	1:05
	Lucía González presenta Anilla Cultural	3:26



How about cultural heritage e-Infrastructure?

# HD Gaudi, 2002

First compressed HD live transmissió between Europa-USA over Internet at 270 mbps by i2CAT-Research Channel



# VISIONAIR

# VISIONAIR News

Home

How to access

Events

Installations

Scientific  
Visualisation

Ultra High  
Definition

Virtual  
Reality

Collaborative  
environments

## The first Open Forum of VISIONAIR was opened on 2011, march the 10th

### [organisation information](#)

The Visionair Kickoff meeting and first Open-Forum were organised in Grenoble (France) from March the 9th to 11th 2011 About 120 persons attended the first Open-Forum. It was the first public opportunity to present the ressources belonging to the infrastructure.



### What VISIONAIR stand for ?

VISIONAIR is acronym for "VISION Advanced Infrastructure for Research"

### Trans National access

Visionair will open a call to project in 2011. External researcher will be welcome to access and use facilities when projects will be elected respect to scientific interest. Travel\* and hosting\* is granted by the infrastructure.

\* Max fees defined by the



# Kaist: Digital Cultural Reconstruction and Games



[http://www.youtube.com/watch?v=\\_ieEWCX\\_g9s](http://www.youtube.com/watch?v=_ieEWCX_g9s)

# The Lost Sound Orchestra: Performing Arts of Cultural Heritage



<http://www.youtube.com/watch?v=EKgChmuXSVw>

# Citizens and the digitalization of cultural heritage



**Fotorally.eu**

European Photo Albums

English Català Español Suomi Nederlands

Fotorally conecta álbumes fotográficos europeos. Encuentra una foto interesante, explora las fotos conectadas y participa en Fotorally con tus propias fotografías.

### Vilanova i la Geltrú

18/10/2010 15:39

Hoy, 18.10.2010, comienzan las clases para profesores de secundaria para la inclusión de ... [Leer el artículo completo](#)

### En Barcelona

18/10/2010 15:34

El 15.10.2010 ha finalizado el Concurso Fotorally de Fotografía para Amateurs.

GENTE

LUGARES

HISTORIA



[BUSCAR FOTO](#) | [PUBLICAR FOTO](#)



# Seniorlab, helping the digitalization of cultural heritage

http://www.citilabpro.eu/seniorlab/blog/2011/06/09/120-anys-duna-escola-colonia-guell-2/

- Contacte
- El projecte
- L'equip
  - Artur Serra
  - Carlos Bezos
  - Dolors Solano
  - Rosa Casanovas

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### Aportacions recents

- 120 ANYS D'UNA ESCOLA – COLÒNIA GÜELL
- FESTA DE LA CIRERA A SANTA COLOMA DE CERVELLÓ
- LA CÀPSULA DEL TEMPS
- DONES GRANS ENREDADES
- LA PUERTA DE MI CASA – REFLEXIONS

jun  
09  
2011

## 120 ANYS D'UNA ESCOLA - COLÒNIA GÜELL

Escola Add comments



Tots coneixeu a Genoveva, també heu vist les seves presentacions realitzades sobre la Colònia Güell, el proper dimarts ens torna a sorprendre amb la presentació del treball que està realitzant sobre un lloc d'allò més emblemàtic: L'escola de la Colònia.

Conèixerment

### Temàtiques

- ◆ Articles
- ◆ Dones
- ◆ Dones Corn
- ◆ Escola
- ◆ Etnografia
- ◆ Formació
- ◆ General
- ◆ Premi
- ◆ Projectes
- ◆ Senior TIC
- ◆ SeniorLab
- ◆ Uncategorized

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### Núvol

can suris **corne**  
**Dones** Esco

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### Utilitats

ES 13:24  
10/06/2011



WIKI loves monuments



Novetats Concurs Participa-hi! Contacte

## Wiki Loves Monuments 2011

Wiki Loves Monuments 2011 Europa és un concurs de fotografia d'abast europeu amb l'objectiu de fotografiar i donar a conèixer tots els monuments del patrimoni cultural d'Europa.

L'any passat es va iniciar als Països Baixos i, a causa de l'èxit assolit, aquest any s'estén el concurs per Europa. Tindrà lloc en diversos països europeus de forma federativa, amb una fase local i una de paneuropea. Tothom està convidat a enviar-hi les seves fotos de monuments, durant el mes de setembre del 2011, amb una llicència de distribució lliure per al seu ús a la Viquipèdia. L'objectiu és donar una visió completa i única del patrimoni immobiliari cultural europeu amb la seva informació bàsica i gràfica.

## Wiki Loves Monuments 2010



VIQUIPÈDIA  
L'enciclopèdia lliure



# Next step: Cultural heritage, performing arts communities and bits.

http://www.tarracoviva.com/el\_festival\_roma\_de\_tarragona.php

XIV edició del festival TARRACO VIVA  
del 17 al 27 de maig de 2012

# TARRACO VIVA

EL FESTIVAL ROMÀ DE TARRAGONA

GALERIA  
D'IMATGES



Index | El festival Romà de Tarragona

TARRACO VIVA



PROGRAMA 2011



Sala de Premsa



Oficina Tarraco Viva



→ SENATUS clou el festival Tarraco Viva

19/5/2011 13:35

→ MOLTES GRÀCIES A TOTS

16/5/2011 19:00

→ La inscripció més llarga de l'Imperi romà

**Thanks :-)**  
[www.i2cat.cat](http://www.i2cat.cat)  
**artur.serra@i2cat.net**