FCCN
Fundação para a Computação Científica Nacional

LigarPortugal

Services over Broadband for Education and Research

Projects Panorama and Fore Coming Challenges in Portugal

Fostering Services over Broadband Workshop

14th July 2006

Taguspark, Oeiras, Portugal

UMIC
Knowledge Society Agency

Context

European Policy Priorities

- e-Europe and i2010 action Plan
- **Education** systems as key sector to boost Information and Knowledge Society

Objective

- Bringing Schools to the Information and Knowledge Society

How?

– Taking advantage of ICT to boost Change

1. Infrastructures Deployment
2. ICT Services Development
3. Education Content Diffusion
4. e-Skills Dissemination

Portuguese Key Initiatives

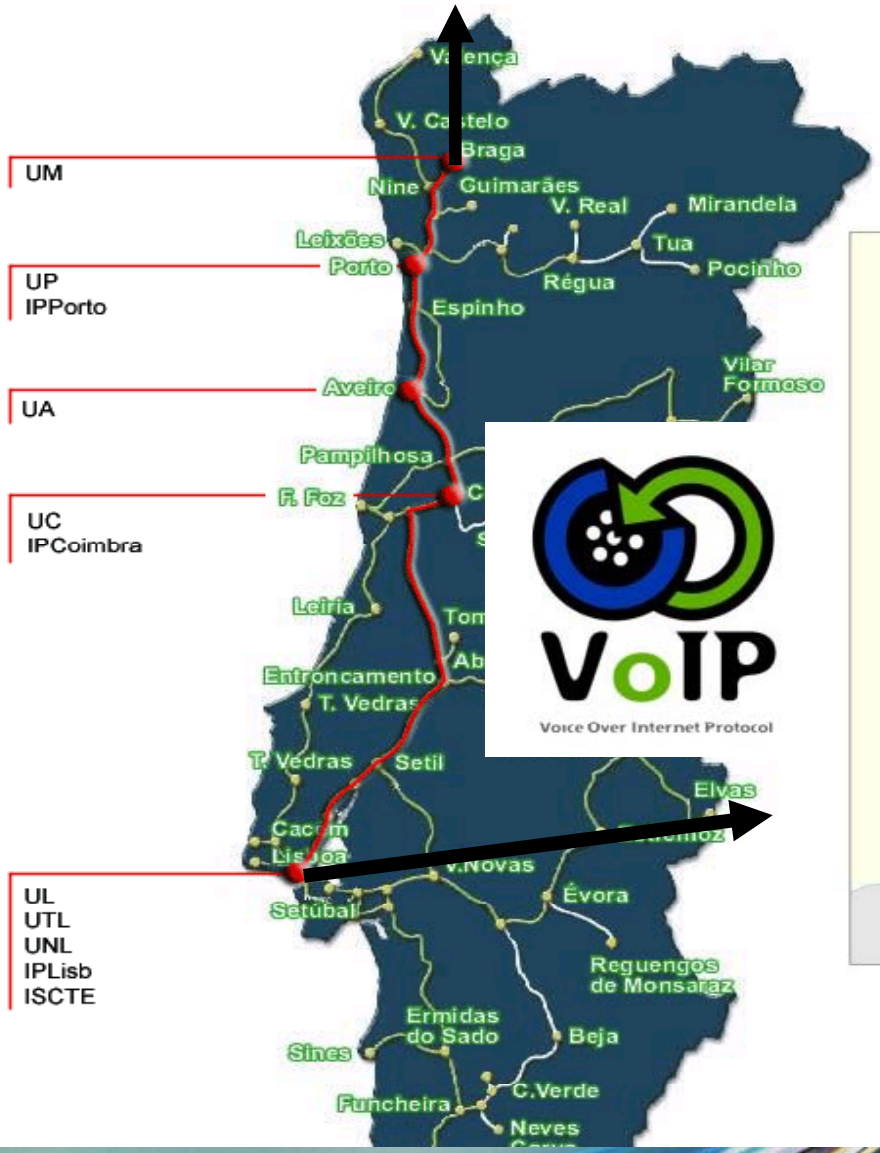
1. RCTS – The Portuguese NREN
2. Connecting Schools over Broadband
3. e-U - Virtual Campus
4. b-on - Online Knowledge Library

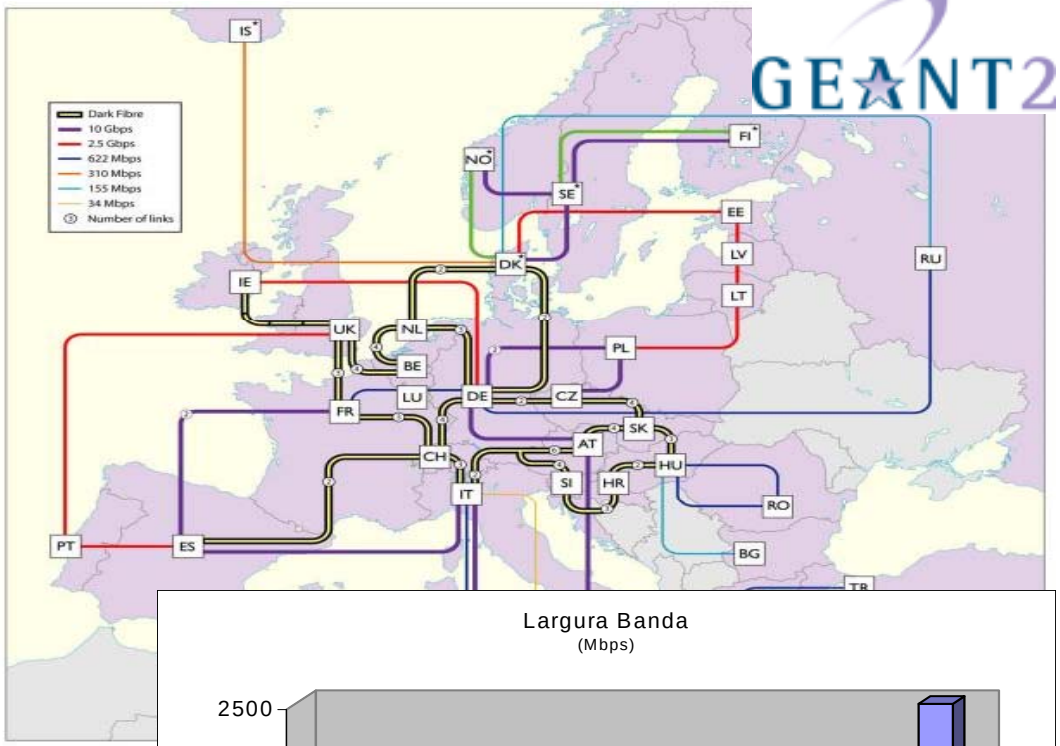
Recent Development Domains

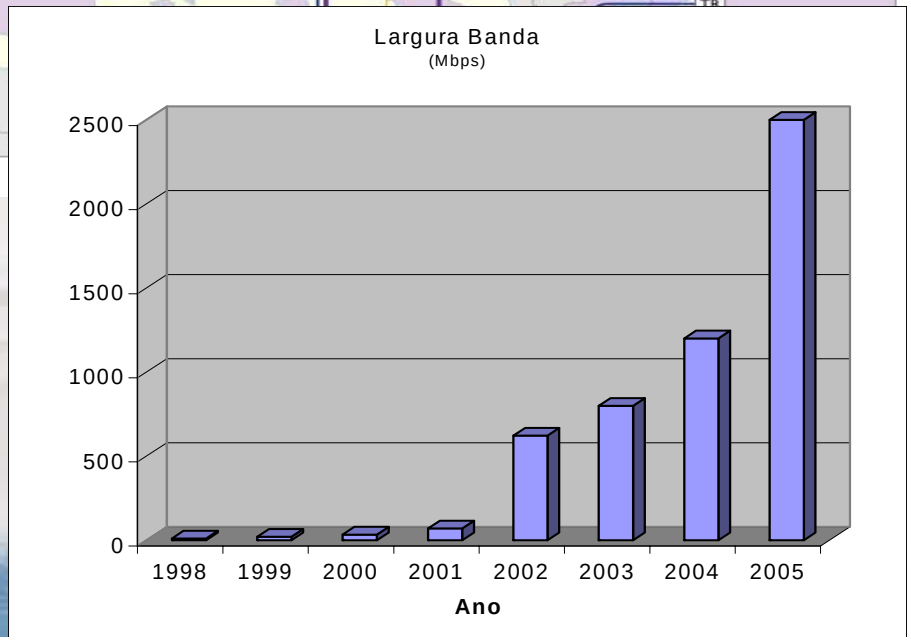
1. Grid Computing
2. VoIP

VoIP
Voice Over Internet Protocol

RCTS – The PT NREN







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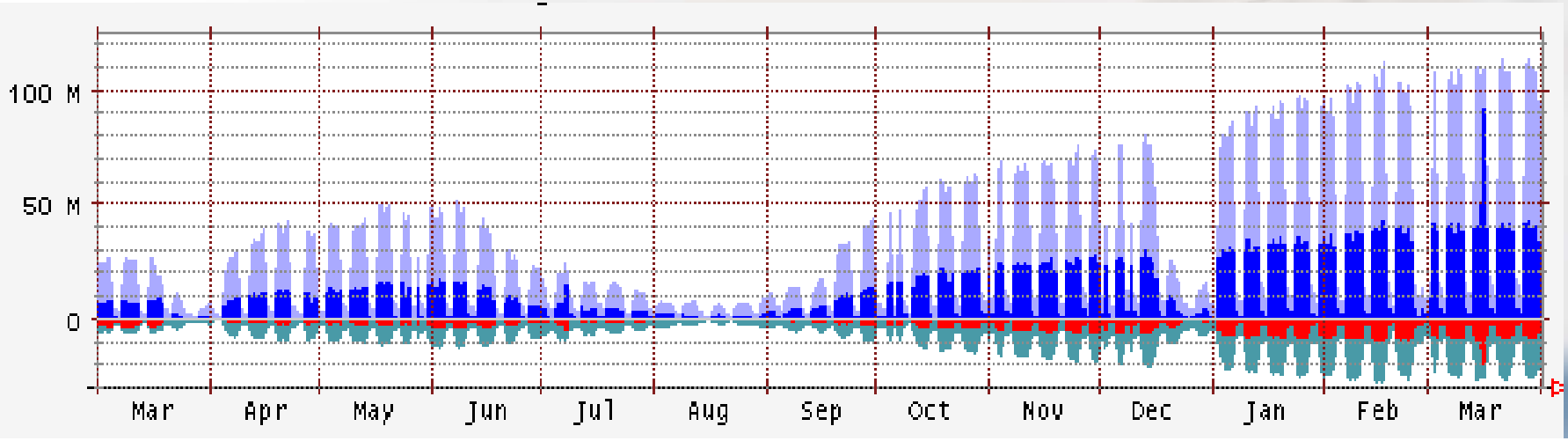
Schools Over Broadband

- All ~8.000 schools are connected
- IP VPN with broadband local loop
- Redundant connection to NREN

Technology	# of schools
aDSL 1024Kbps	1111
aDSL 512Kbps	6442
aDSL 256Kbps	385
ISDN 256Kbps	339

Traffic growth (past 12 months)



Averaged Traffic over the last 3 months

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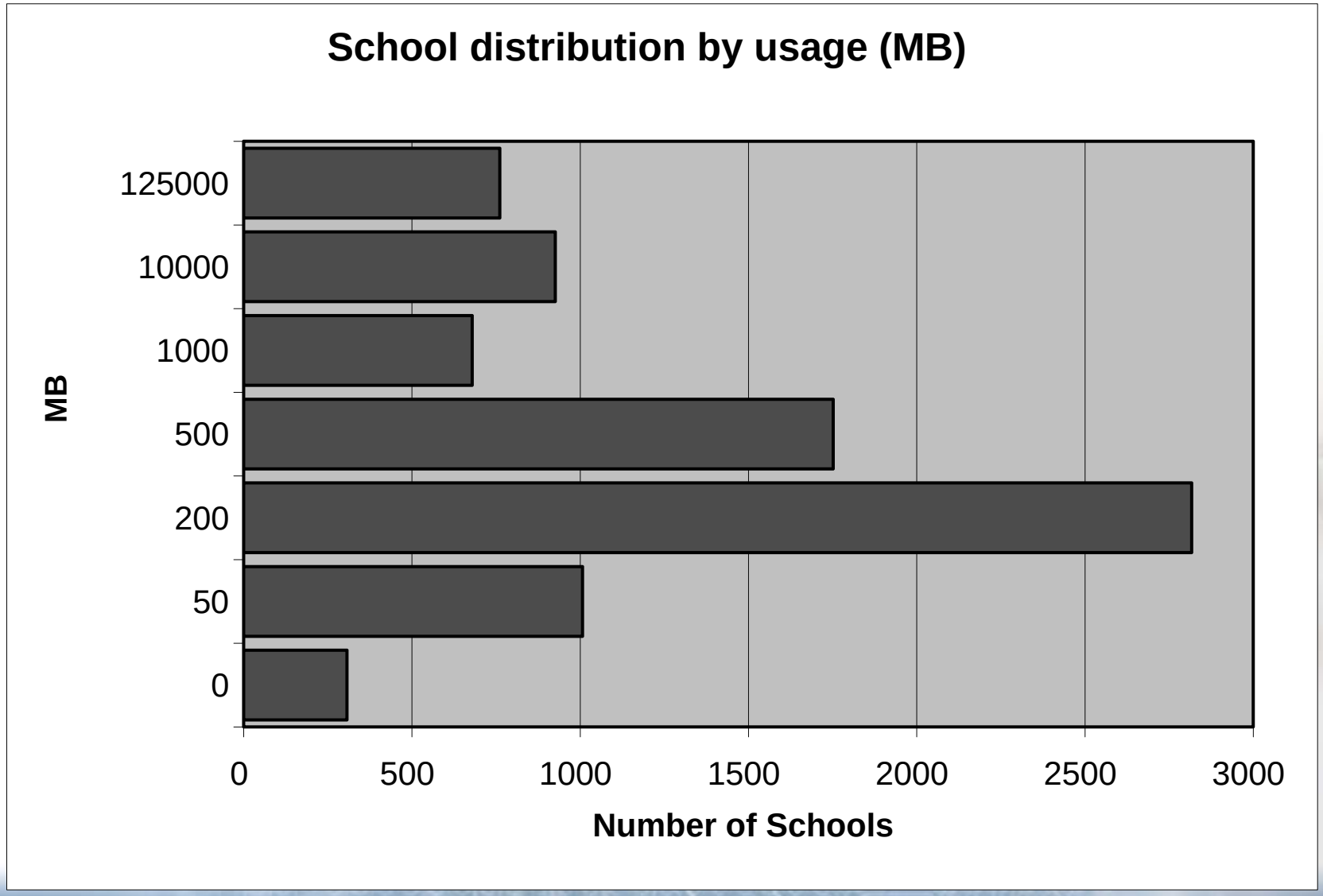
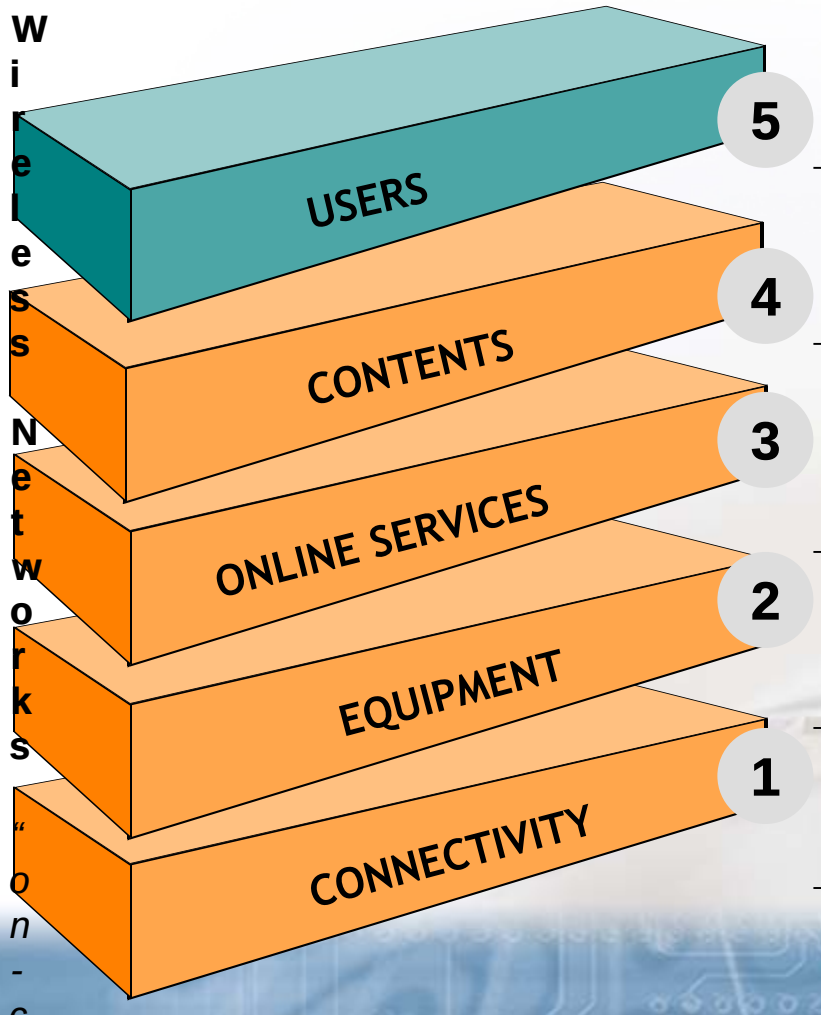


e-U Virtual Campus

Concept: ”Contaminate” the Portuguese Society Trought Higher Education



Students, Teachers and Researchers

Publications and Contents - 24x7

Online Academic Services (exercices, old exams, online payments, forum)

Laptop diffusion – *Recent Models with wireless technology*

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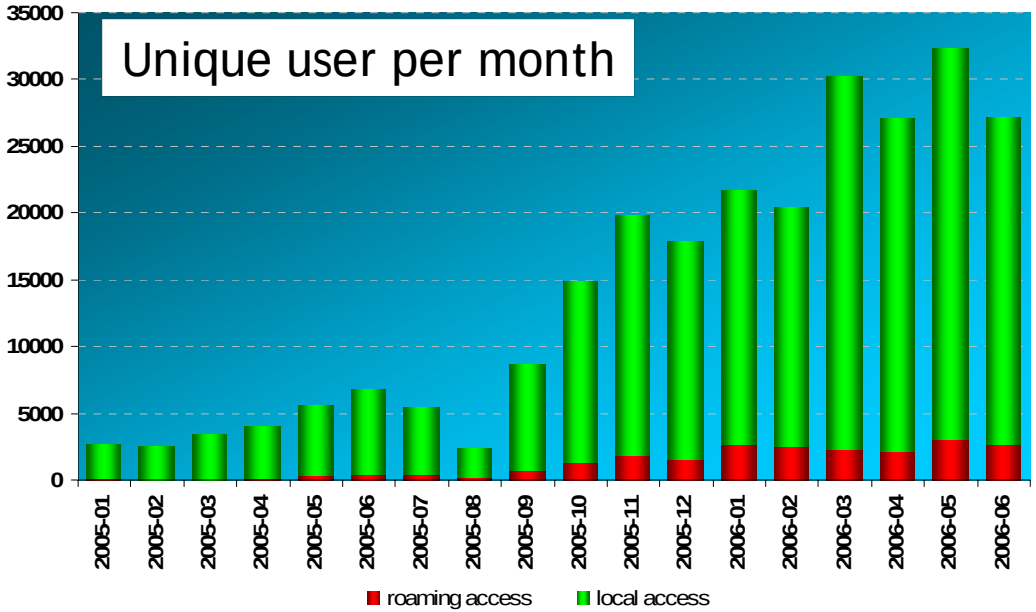
e-U Virtual Campus

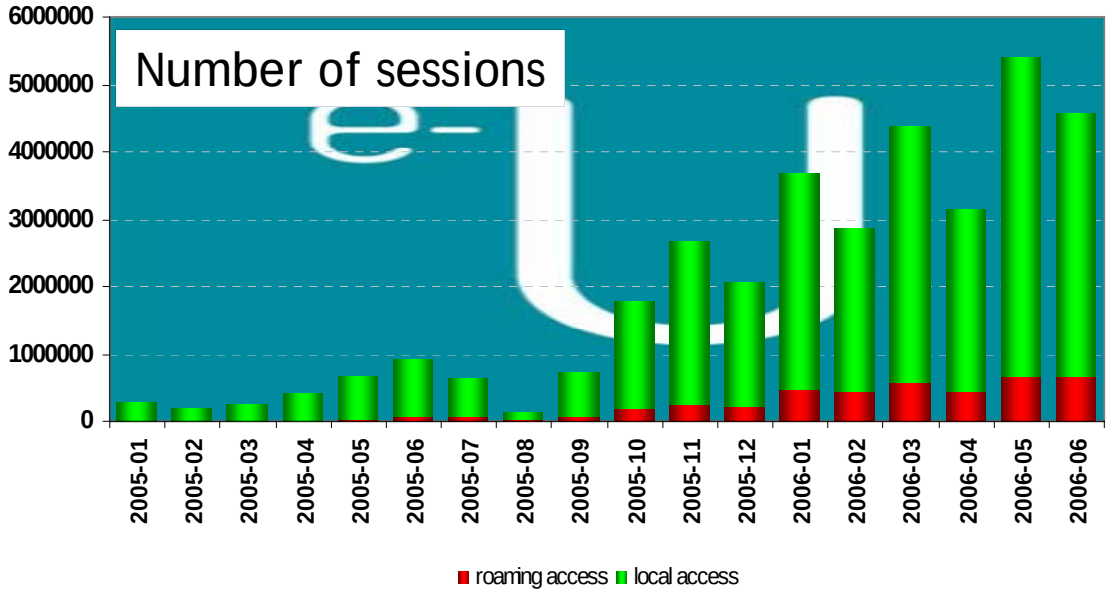
Achievements

- 57 Higher Education Institutions integrate the project, representing 92% of the Portuguese Academic Community
- More than 300.000 students with e-U Wireless Networks Access by the end of 2006
- Until the end of 2006, all e-U institutions will have the 38 services available

This is the focus now

e-U Virtual Campus





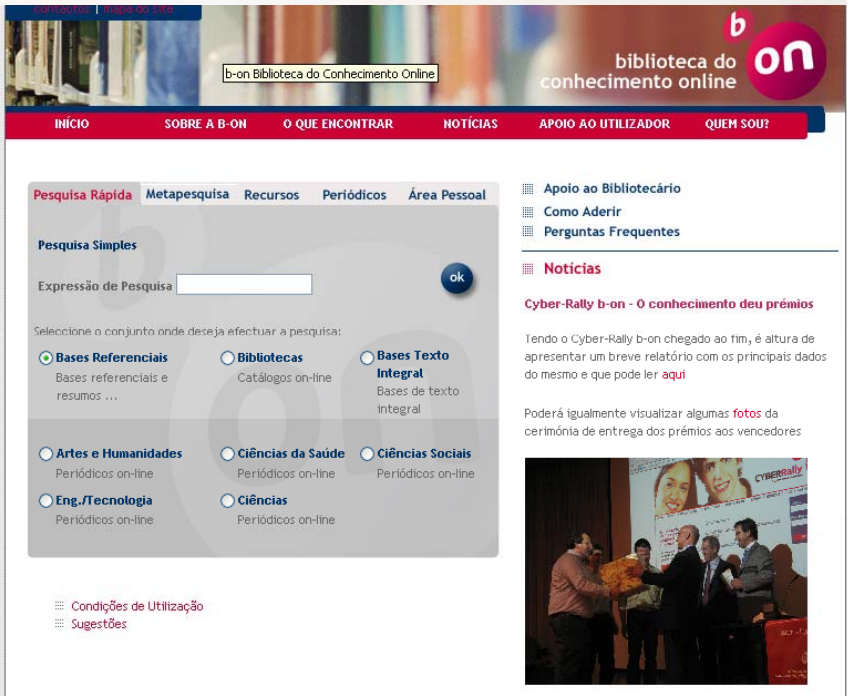
b-on – Online Knowledge Library

Concept

- Provide the National Community online access to the main international sources of scientific content.

Achievements

- Full Text Online Access to 16.750 Publications from 16 International Publishers + Ref databases
- 70 Institutions involved: universities, Polytechnic Institutes, hospitals, Public R&D Labs



b-on – Online Knowledge Library

Desc.	Prof/Med/Inv	Alunos	%
Universidades	15997	182329	64,42%
Politécnicos	8.230	100.216	25,33%
Laboratórios e Centros de investigação	1.531	0	3,02%
Organismos Administração	803	0	1,59%
Organismos sem fins lucrativos	242	0	0,48%
Hospitais	2620	0	5,17%
Total	**29.423**	**282.545**	

3.5 million full text downloads/views in 2005

- 11.2 full text downloads/views per user, including students
- Considering only 10% of the students it gives 60 full text downloads/views per user

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"Million Dollar Questions"

- Which new initiatives should be done in Portugal to boost ICT usage in the National Education and Research Networks?
- Which new priorities should be handled?
- How to involve all the interested actors (public and private) in National ICT Education Goals, including the management level?
- How to make the process All-inclusive?

And last, but not least…

- How and which international experiences can (should) be mobilized to the Portuguese ICT panorama?

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Thank You!