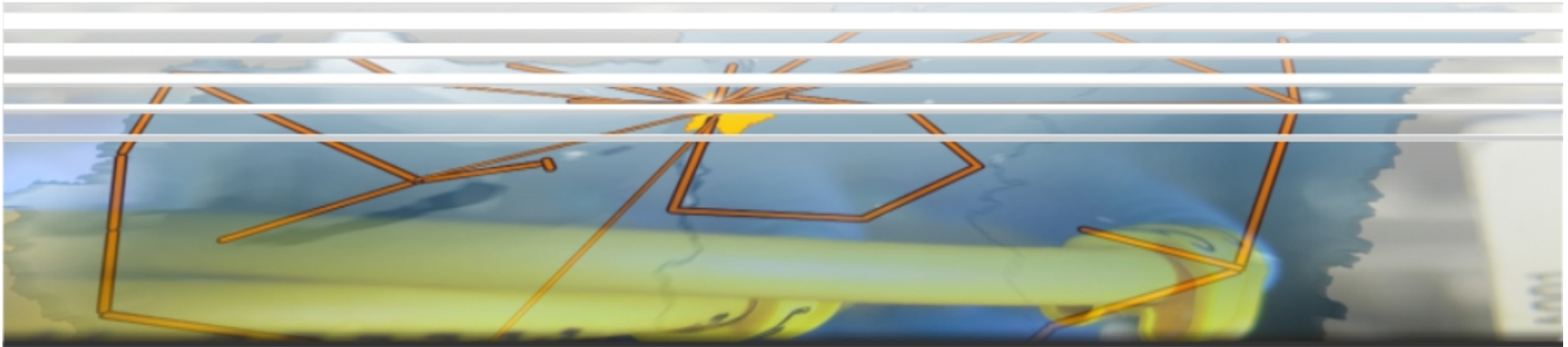


# HBONE+ projekt - campus best practices



2011. Június 9.

Mohácsi János  
NIIF Intézet



A slide-ok GN3 projekt NA3T4 munkacsoportjának vezetőjétől Gunnar Bøe-től származnak a TNC2011 konferencián elhangzott előadásából  
Kiegészítve magyar vonatkozásokkal

# Összefoglalás – Networkshop 2009 fólia

- HBONE+ esélyt teremt a kutatási infrastruktúra megújulására - Európai szint elérésére
- Lehetőséget biztosít a következő generációs Internet/hálózatok és egyéb EU IST kutatások támogatására
- A HBONE+ alapot nyújt a kutatási és (felső) oktatási infrastruktúra számára - ERA-val összhangban
- A TÁMOP támogatást nyújt a megújult infrastruktúra szolgáltatással és lehetőségekkel történő megtöltésére
- A siker rajtunk múlik - **szükséges az intézmények aktív részvétele!**

# The role of NRENs

- “...dedicated to the needs of education and research...” (JANET)
- “To improve higher education and research by promoting, developing, and operating shared ICT facilities that are not offered by the market of its own accord” (SURFnet)
- “The UNINETT Group delivers network connections and services to Norwegian universities, university colleges and research institutions, and handles other national ICT tasks in the best interests of society” (UNINETT)
- “a felső- és közoktatási intézmények, kutató-fejlesztő helyek, közgyűjtemények és egyéb oktatási, tudományos és kulturális szervezetek információs infrastruktúrájának összehangolt fejlesztése és országos infrastruktúrájának összehangolt fejlesztése” (NIIF)
- “end-to-end”
  - Performance
  - Services

# Essential elements

- Workshops and working groups

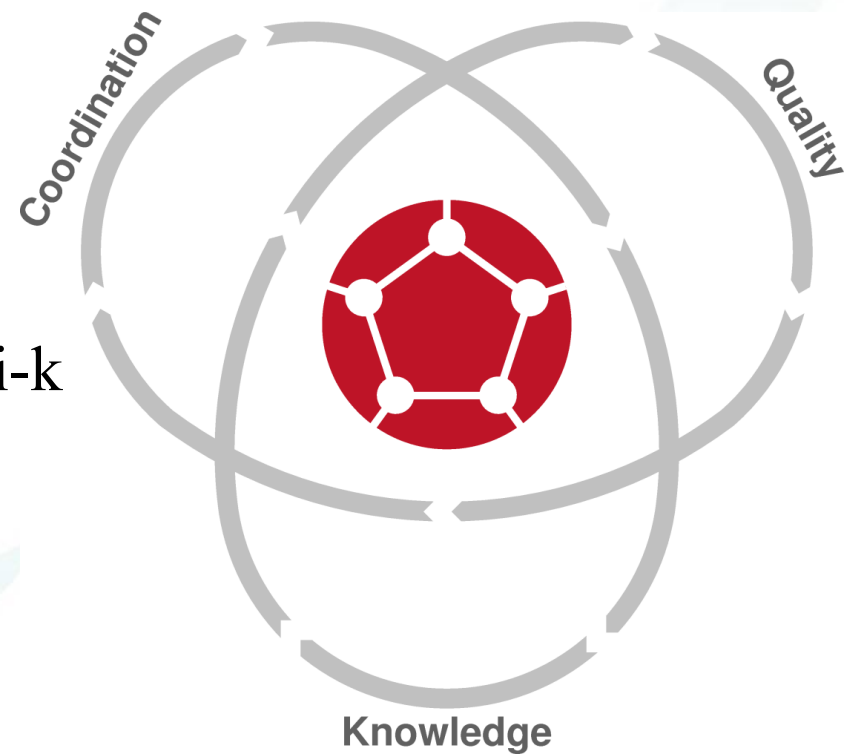
HBONE(+) workshopok - Műszaki tanács munkacsoportjai

- Best practice documents

Itt még nem sok történt!

- Advise and support

Levelezési listák, weboldalak, wiki-k



5

# Working groups

- Purpose:
  - Provide an arena for people working with similar technical campus challenges
  - Present and discuss challenges and solutions
  - Technical updates with campus focus
  - Discuss best practices,
    - input for Best Practice documents

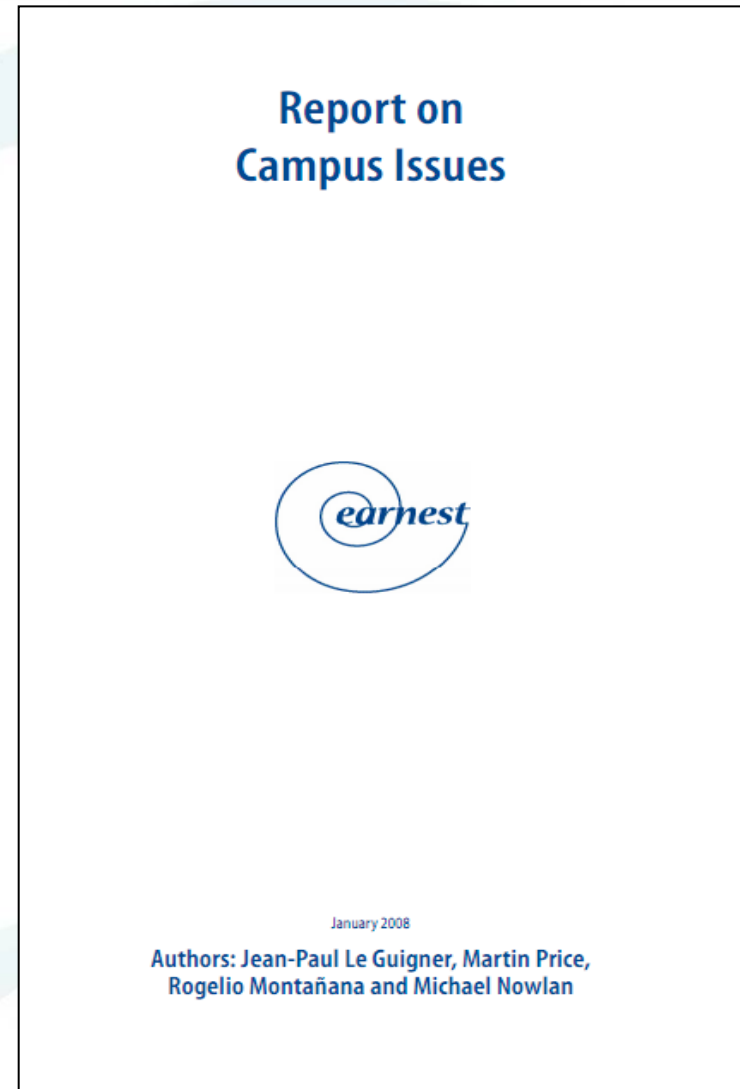
# Best practice documents

- How are they produced?
  - Facilitated in working groups/task force (mainly)
  - Active participation from NREN
- How are they approved?
  - Rough consensus in working groups
  - Approved by IT director at universities



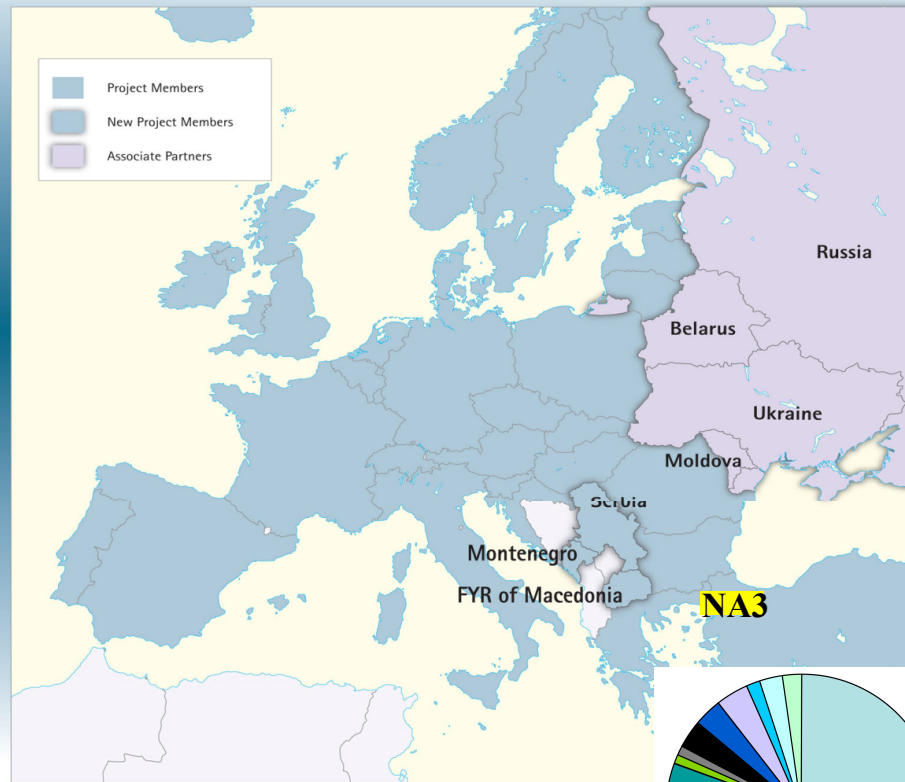
# The support?

- EARNEST report on campus issues in 2008
- “Strengthen the collaboration between National Research and Education Networking organisations and institutions to improve the deployment of key services: .....co-ordinate working groups, .....”





# GEANT3: 2009-2013



## GEANT3 (GN3)

### Joint Research Activities:

- JRA1: Future Network
- JRA2: Multi-domain Resources and Services
- JRA3: Enabling Communities

### Service Activities:

- SA1: GÉANT Network Architecture Design and Planning, Procuring, Building and Operating
- SA2: Multi-Domain Service Operation
- SA3: End-User Services in a Federated Environment
- SA4: Software Governance

### Networking Activities:

- NA1: Management
- NA2: Joint Dissemination and Outreach
- **NA3: Status and Trends**
  - **T4: Campus Best Practice**
- NA4: Liaison and Support

# Campus Best Practice - Task Objective

- Address key challenges for the European campus networks
  - Important areas of focus:
    - ❑ Physical infrastructure
    - ❑ Campus network
      - Lighthpaths, IPv6
    - ❑ Wireless infrastructure
    - ❑ Network monitoring
    - ❑ Security
    - ❑ Real time communication
- Challenge NRENs to reinforce their national efforts
  - The NREN should be a fascilitator that stimulates collaboration between the "campus guys" at the university level and with the NREN itself
  - Get working groups up and running
  - Provide an evolving and to-the-point set of best-practice documents for the community.
- Dissemination

*Network challenges on campus*

# Results

- Working groups in all countries
- 25 Best Practice Documents

<http://www.terena.org/activities/campus-bp/bpd.html>

[http://www.geant.net/About\\_GEANT/Campus\\_Best\\_Practice/Pages/home.aspx](http://www.geant.net/About_GEANT/Campus_Best_Practice/Pages/home.aspx)

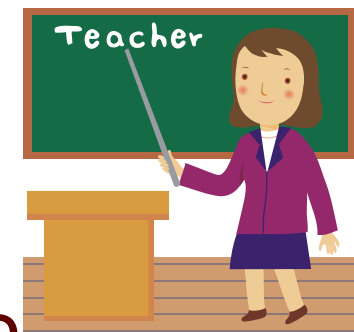
- ❑ physical infrastructure
- ❑ audio visuals
- ❑ campus networking (including IPv6),
- ❑ wireless,
- ❑ security,
- ❑ network monitoring
- ❑ real-time communications.

- Dissemination



# Lessons learned

- Community building takes time
- Establish an inner core of participants/contributors, but allow hang-arounds (open membership)
- Challenging for the working group leader to enforce progress (volunteering)
- Key experts are usually very busy and have no time to write



# Lessons learned

- Initially the NREN should pick best-practice topics.
- Draft best-practice documents should be prepared in advance of meetings for best discussion.
- Do not write textbooks.
- The working group meeting settings are highly valuable for informal talks and discussions on related topics.



# Further work in GN3

- Continue to create Best Practice Documents
  - E.g.
    - 802.1x in wired networks (supporting Information Security)
    - Multicasting on campus (supporting more distributed lectures)
    - The legal aspect of WLAN-networks
    - IPv6 security in the local network
    - Requirements for ventilation and cooling in ICT rooms
- Dissemination continued
  - Presenting in your country?
- Meeting with your NREN?
  - Sharing experiences
  - How to organise a campus program

## More information / Contact

### GEANT3 NA3 Task 4: Campus Best Practice

- [http://www.geant.net/About\\_GEANT/Campus\\_Best\\_Practice/Pages/home.aspx](http://www.geant.net/About_GEANT/Campus_Best_Practice/Pages/home.aspx)
- <http://http://www.terena.org/activities/campus-bp/>
- [gn3campus@uninett.no](mailto:gn3campus@uninett.no)
- Look out for more BPDs coming along...
- Subscribe to announcements
  - [campus-bp-announcements@terena.org](mailto:campus-bp-announcements@terena.org)

# NIIF – Campus Best Practices

- Van-e intézmény aki megosztaná tapasztalatait?
- Van-e igény magyar best-practice-re?
- Workshop(ok)?
- Témák?



**Köszönöm a figyelmet!**

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