

NORDUnet Networking Conference

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15 April 2002

Early results from the TERENA Compendium Survey: some things that will get into the Compendium and others that won't...

> Bert van Pinxteren, TERENA Chief Administrative Officer



How well do you really know the Nordic Research and Education Networks?

Structure of talk:

- A few words about TERENA;
- Background to the TERENA Compendium;
- Some key facts about the Nordic countries;
- The Gigabit revolution and its consequences;
- A word about benchmarking;
- Will you help?



What is **TERENA**?



An association consisting of:

 the national research & education networks of 33

• 9 associate members (DANTE, NORDUnet, industry)



What does TERENA do?

The four pillars of TERENA:

- providing an environment for fostering new initiatives of the European research networking community
 - e.g. pilot services (such as the CSIRT Trusted Introducer)
- supporting joint European work in developing, evaluating, testing, integrating and promoting new networking, middleware and application technologies through the TERENA Technical Programme
 - task forces, projects, workshops/meetings
- supporting the exchange of information in the European research networking community, and promoting knowledge transfer to less advanced networking organisations
 - conferences/workshops, training
- promoting members' interests by representing the common interests and opinions of the membership in contacts with relevant organisations



Background

- Idea first discussed at TERENA GA meeting in Istanbul, October 1999
- First trial in 2000
- First 'real' version out in October 2001 (print & web)



2002 questionnaires distributed early this year, currently processing the results.

Review panel:

- Lajos Bálint (HUNGARNET)
- Urs Eppenberger (SWITCH)
- Sabine Jaume (RENATER)
- Mike Norris (HEAnet)
- Helmut Sverenyák (CESNET)









Some key results from the Nordic countries,

with comparative data from a few other countries.



Some basic data: market share of NRENs



Some basic data: number of institutions with permanent connection



Some basic data: % of students with Internet access through the NREN





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Absolute network size: Mbps x km:



I will return to this matter of relative size later.

But first, let's go back in time...

to 1999: the TERENA – NORDUnet Conference in Lund, Sweden.

Its theme was: "The Challenge of Gigabit Networking"

Now, Gigabit networking has arrived!



The GÉANT Quantum Leap of Nov./Dec. 2001

Capacity of highest link, June and Decem ber 2001



Bandwidth has gone up tremendously, but...



Telco cost as % of total budget, 2002



Core networks speeds, 2001 and 2002



Large-site access speeds, 2001 and 2002



Where is the congestion in the network? (rankings)



Where is the congestion in the network? (absolute: estimated percentage of connected institutions experiencing congestion)



Relative financial size:

NREN budget per capita, 2002 (preliminary data !)



The policy relevance of the Compendium:

- Has been used by several NRENs to help convince their governments that more funding was needed
- Was an important basis for the Internet for Research & Development section of the SIBIS project, which aims to develop Statistical Indicators for Benchmarking the Information Society
- Was used for eEurope Action Plan benchmark indicators.

http://www.sibis-eu.org http://www.europa.int/



- The Commission will provide funding for the COM-REN project, which will make publication possible of the Compendium in 2002 and 2003
- The COM-REN project is also supposed to generate two sets of benchmarking data

Benchmarking

What on Earth does it mean?

It is one of these new buzzwords that in theory has a precise meaning, but in practice can mean almost anything.



- In the eEurope Action Plan, the main indicator in the area of *"Faster Internet for researchers and students"* was:
- Speed of interconnections and services available between and within national research and education networks (NRENs) within EU and world-wide
- But the eEurope Action Plan is ending, and there is no certainty about the fate of benchmarking in its successor (eEurope 2005?)



So, will Benchmarking disappear as quickly as it appeared??

I don't think so...

- The EU will continue to play an important role in the development of research networking
- Europe is being forced to be accountable for what it does with all its funds
- This is likely to happen at the national level as well

Therefore: let's work together to make sure that indicators that are developed are both meaningful and useful!



Relative size:

Traffic per student per year in Gigabytes



HELP WANTED!

- Send us your criticisms!
- Volunteer for the new Review Panel!
- Let's think about what we really want to know. (note: more questions leads to fewer answers!)
- Ideas / proposals for further study?
- Check and update your data as they become available!
- To be continued...



TERENA Networking Conference, Limerick, Ireland, 5-7 June 2002

ou are cordially invited to attend, gistration is still open,

All present again in the session on e i FRENA Technical Riogramme.

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http://www.terena.nl/tnc2002.