R&E Network Models in Europe

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Overview of presentation

› Surveys in Europe
  › Annual TERENA Compendium of National Research and Education Networks (NRENs) in Europe
  › (Surveys conducted in 2007 as part of the EARNEST study)
› Availability of survey results
› Characteristics of NRENs in Europe
  › Funding sources
  › Communities served
  › Services offered
National Research and Education Networks (NRENs) in Europe

- ~50 countries in Europe
- TERENA membership:
  - 37 NRENs
  - 2 international members (CERN, ESA)
  - 10 associate members
TERENA Compendium of NRENs in Europe

› Annual publication
  › Published since 2001 (trial edition in 2000)
  › In recent years funded by European Union

› Part 1
  › Basic information: organisation, staffing, finances, user base, capacity, services, developments
  › Only available on-line

› Part 2
  › Basic information, users/clients, network characteristics, traffic figures, services and tasks, staffing and funding
  › Aggregated data for groups of countries
  › Analysis, multi-annual trends
  › Available on-line and in printed form
Surveys conducted as part of the EARNEST foresight study (2007)

› Survey of NRENs on organisation and governance issues

› Survey of campus-level IT support managers

› Survey of researchers about their requirements, use of services and future expectations
Availability of survey results

› TERENA Compendium of NRENs: www.terena.org/compendium/

› EARNEST reports: www.terena.org/earnest/publications.html

› All TERENA publications in pdf: www.terena.org/publications/
Characteristics: funding sources (1)

<table>
<thead>
<tr>
<th>Type of funding</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central government grant</td>
<td>6</td>
</tr>
<tr>
<td>Mixed (incl. government grant and users)</td>
<td>18</td>
</tr>
<tr>
<td>Mainly user-funded</td>
<td>2</td>
</tr>
<tr>
<td>Government + European Union</td>
<td>5</td>
</tr>
<tr>
<td>Not stated</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total number of NRENs in survey</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

EARNEST report on Organisation and Governance Issues, p. 13
Characteristics: funding sources (2)

TERENA Compendium 2007, p. 87

Slide 8
## Characteristics: communities served

<table>
<thead>
<tr>
<th>Community</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universities</td>
<td>100%</td>
</tr>
<tr>
<td>Institutes for higher/further education</td>
<td>91%</td>
</tr>
<tr>
<td>Research institutes</td>
<td>100%</td>
</tr>
<tr>
<td>Secondary schools (6th-12th grade)</td>
<td>74%</td>
</tr>
<tr>
<td>Primary schools (K-6)</td>
<td>62%</td>
</tr>
<tr>
<td>Libraries, museums, national archives</td>
<td>85%</td>
</tr>
<tr>
<td>Hospitals (other than university hospitals)</td>
<td>51%</td>
</tr>
<tr>
<td>Government departments (national, regional, local)</td>
<td>74%</td>
</tr>
<tr>
<td>Other</td>
<td>55%</td>
</tr>
</tbody>
</table>

TERENA Compendium 2007, p. 24-25 (all countries)
Characteristics: services offered

- Certification Authority: 57%
- eduroam: 93%
- CERT/CSIRT: 89%
- Bandwidth on demand: 30%
- Premium IP: 30%
- IP telephony: 60%
- Support for specific user groups: 60%
- Distributed storage: 13%
- Mirroring services: 40%
- Other: videoconferencing, hosting and colocation, dynamic lightpaths, portal for multimedia content, repository service for learning objects, etc.

TERENA Compendium 2007, p. 59-77 (EU+EFTA countries)
For all information:

www.terena.org