The transformational power of RENs

Technology, Culture, Economy and Society

Erik Huizer, CEO, GÉANT
Optimised for research data transfers

**Public Internet**

Geneva to Canberra

**GÉANT and R&E partners**

Geneva to Canberra GÉANT + R&E networks US to Australia

R&E networks are designed for different goals than the Internet

Comparative Times for a 100TByte data transfer:

<table>
<thead>
<tr>
<th>File Size (TB)</th>
<th>Data rate (Gbit/s)</th>
<th>Time taken (Hours)</th>
<th>Time Taken (Days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NREN</td>
<td>100</td>
<td>9.27</td>
<td>34.0</td>
</tr>
<tr>
<td>ISP A</td>
<td>100</td>
<td>1.72</td>
<td>181.2</td>
</tr>
<tr>
<td>ISP B</td>
<td>100</td>
<td>0.11</td>
<td>2864.3</td>
</tr>
</tbody>
</table>
Internet Governance
Durban
RENs are key to combining the knowledge of all people in the world to solve the problems our society is facing.
Erik Huizer, CEO, GÉANT
Twitter: @Milkshake