

GEANT-3

« Keeping Europe at the cutting edge
of Science Discovery »

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Challenges

- High performance:
 - Data rate is not a problem in the core
 - Technology is progressing faster than economy in « remote » areas within countries and within Europe
 - Network and service architectures must adapt to any needs of scientific communities (e2e)
 - Network must work with users to help them making dreams to come true.
 - That was demonstrated for the world LHC Grid!
 - PRACE cannot be at world rank if its core network is not !



Challenges

- Data rate explosion on networks will never be justified if not for good and efficient science
- Final quality assessment will not be made with bps but with scientific excellence
- Interdisciplinarity
 - A lot to be gained from cross-discipline exchanges (especially with SSH, BMS and ENV)
 - Biggest challenges for society will be there.
 - Data deluge will be an issue :
 - AAI and security
 - Metadata and interoperability



Challenges

- To-morrow's use of the networks is most probably unknown today!
- Governance : There is no obligation for universal service!
But the mission of the NRENs is to serve all their user communities
- Global landscape: A key role to build the European dimension and to support the interfaces with global projects.
- Because of being outside the competitive telco market, NRENs are also a proper vehicle to fight some digital divide and to be inclusive to many in the fields of Research and Education.

