

CESNET

- Association set up by universities and AS CR
- NREN operator since 1996
 - Communication network
 - Grid
- NGI since 2009
- Czech branch of Future Internet Forum founder
- Research organization in accordance with EC Regulation

CESNET

- NREN operation and development requires R&D activities according to specific needs of academic community
- Long term research plan (2004 - 2010)
 - Network development
 - Computing grid
 - Network monitoring tools
 - Virtual collaborative environment (videoconferencing tools and infra, streaming etc.)
 - AAI

CESNET – international cooperation

- GÉANT (pan-European communication network)
- FEDERICA (testbed for advanced network application)
- Grid project (EGEE, EDI_DS, EGI_Inspire)
- OSIRIS (platform for coordination ICT RI)
- Member of TERENA

CESNET – future plans

- Transformation to e-Infrastructure
 - Communication network (bandwidth, E2E services)
 - NGI (extend existing resources by coordinating computing clusters on national level)
 - Collaborative services (videoconferences, content sharing)
 - **Storages**
 - Middleware allowing the users a comfortable access to e-Infra resources

Role of NRENs in open access to scientific information concept

- Cooperation with scientific libraries
- Interconnect SI repositories
- Provide storage capacity, backup
- Identity and access management (Identity federations,...)