



« networking the networkers »

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# TERENA

## Who we are, What we do and *YOU*

some of the slides from Licia Florio, TERENA

TRANS-EUROPEAN RESEARCH AND EDUCATION NETWORKING ASSOCIATION



# TERENA Organisation

- › A not-for-profit association of European National Research & Education Networks
  - › NRENs
- › Founded 1986 (as RARE)
- › Secretariat located in Amsterdam (The Netherlands)
- › 33 National Members
- › 2 International Members:
  - › CERN, ESA
- › 10 Associate Members
  - › including DANTE, NORDUnet, equipment vendors and telecoms operators
- › Steered by an elected Executive Committee (TEC)
  - › Marko Bonac (ARNES) one of the six members of the TEC





It's not what you know.  
It's who you know

TERENA – *networking the networkers*



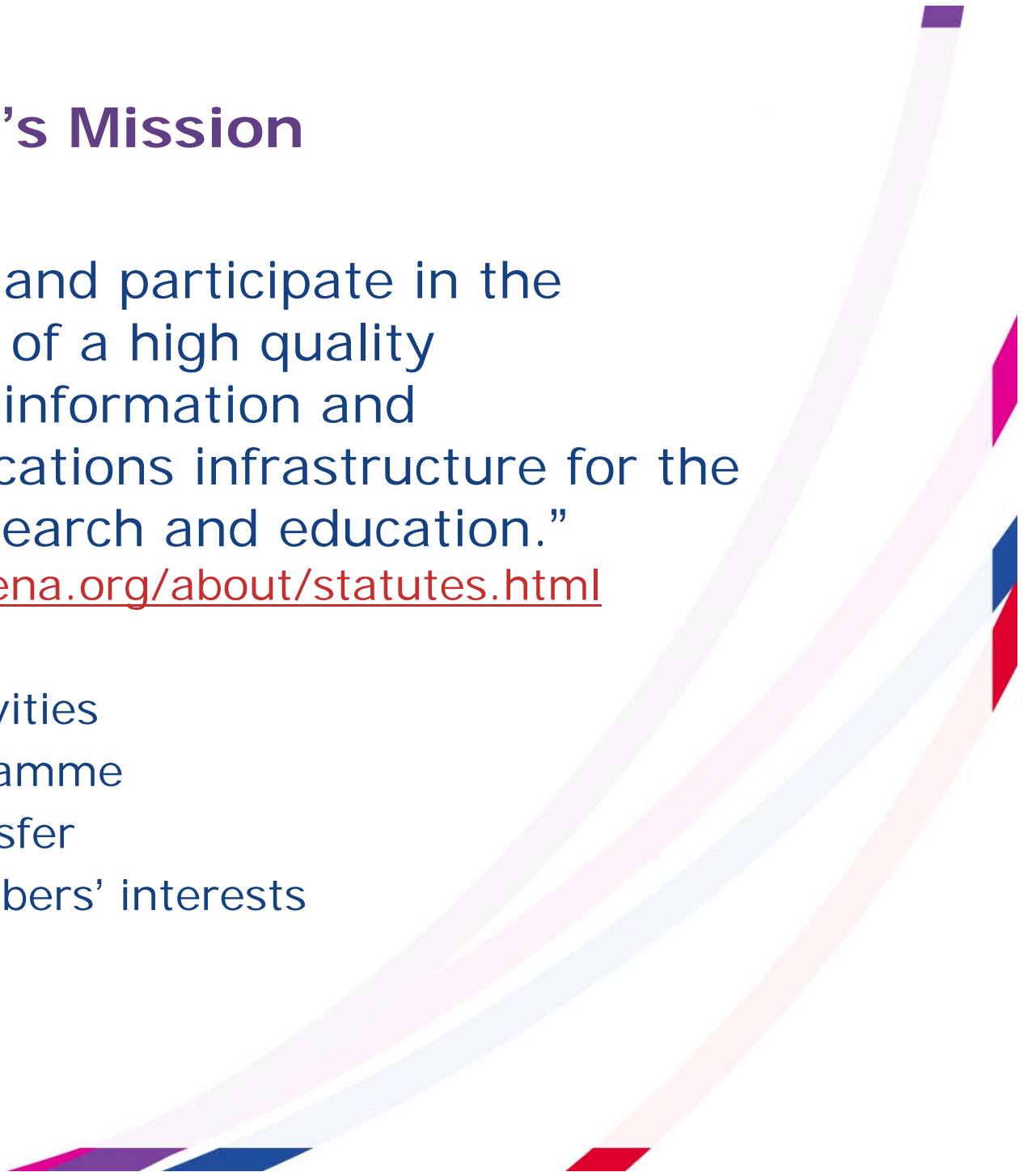


## TERENA's Mission

“...to promote and participate in the development of a high quality international information and telecommunications infrastructure for the benefit of research and education.”

<http://www.terena.org/about/statutes.html>

- › Foster new activities
- › Technical programme
- › Knowledge transfer
- › Promoting members' interests





It's right to be wrong.

Paul Arden, former Executive Creative Director, Saatchi&Saatchi

Try again. Fail again. Fail Better.

*from Worstward Ho, by Samuel Becket*

TERENA – *networking the networkers*



# TERENA Technical Programme

- › Technical Programme spans over different areas:
  - › Middleware and Security
    - › Task Forces and Services
  - › Voice and Video
    - › Task Forces and workshops
  - › Optical Networking
    - › Workshops and support for GLIF
  - › Grid
    - › Mainly Workshops: NRENs and Grids
- › Projects: GN2, SEEREN2, NoAH, Lobster, ...





## Task Forces

- › Small groups of volunteers working on specific problems.
- › Limited duration, typically 2 years.
- › Open to any individual or representative offering expertise, manpower, equipment or services.
  - › So not only from *member* organisations; USERS Welcome!
- › Set of defined tasks and deliverables.
- › Each task force has its own meetings mailing list & web space
- › TERENA provides organisational and secretarial support.



# TERENA Task Forces

- › TF-CSIRT
- › TF-EMC2
- › TF-MOBILITY
- › TF-ECS
- › TF-VSS
- › TF-LCPM
- › And of course TF-PR
  - › To promote and coordinate PR efforts among the various NRENS





# (Unfortunately) common problems

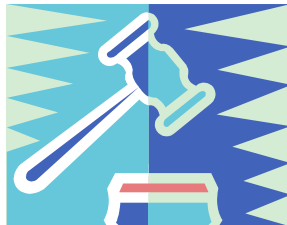




# TF-CSIIRT – towards smoothing the computer security experience



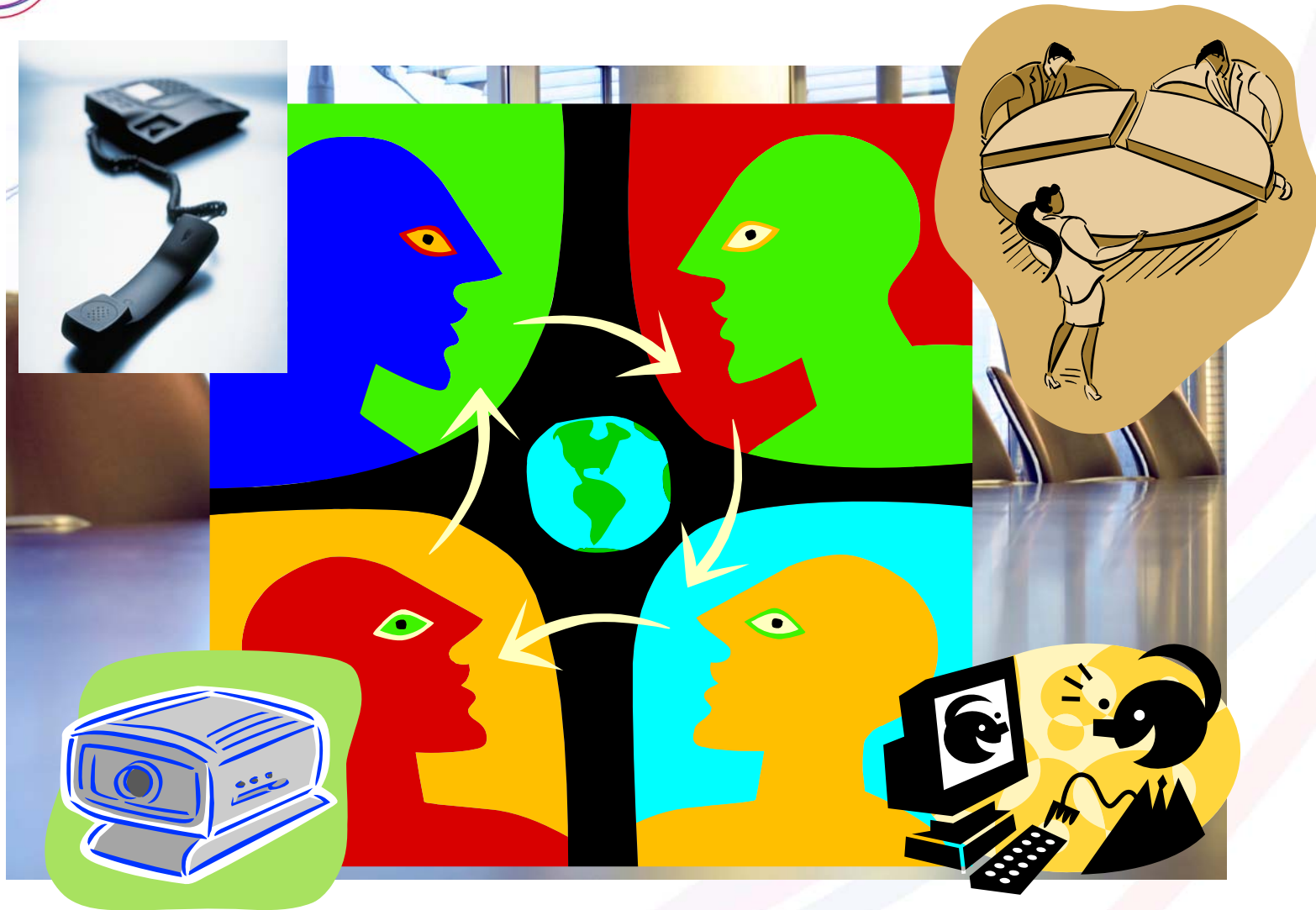
- › Security incidents are international
  - › Must work together to solve them
- › Perceived importance of Internet grown
  - › A truly critical infrastructure
  - › Very attractive to all sorts of criminal activity
- › No team knows everything
- › Operational people talk directly to each other
  - › Around 70 people on average at meetings
  - › Trusted contacts for later work
- › Little or no formalities, collaborative atmosphere



Chairman: Gorazd Bozic, ARNES



# Real-time remote collaboration





# Remote Real-Time Collaboration

- › European Videoconferencing Service proposal developed by TF-VSS
  - › Better coordination
  - › Improved problem solving
  - › Address digital divide
- › Experiment with new technologies in TF-ECS
  - › SIP, ENUM, SPIT-prevention, AAI, ... give me your favourite acronym in this area, they are evaluating the technology
  - › David Vrtin (ARNES), member of the TF



# Any-\* Internet Access





## Federated network access:



- › eduroam = roaming for education
- › Federation of national eduroam federations
  - › To provide network access between the institutions connected to eduroam
  - › Using the same credentials they would use to get on-line at their home institution
- › First real test back in 2003
  - › As part of a TF-Mobility test
- › Today...
  - › Since 2005 eduroam is part of GÉANT2/JRA5
  - › 500+ institutions connected, in Europe and APAN
- › I'm using eduroam.si today



## Server Certificate Service (SCS)

- › Clear demand for (non-expensive) server certificates
  - › Awareness raising results: use of https, secure email
  - › Wide deployment of AAI
  - › Annoying pop-up window in browsers if the certificate is not recognised; but worse for middleware that needs AAI
- › TERENA (on behalf of an ad-hoc consortium of 8 NRENs) signed a contract with GlobalSign in Jan 2006
  - › For an initial one year; currently extended till 2010
  - › First certificate issued on 16 March 2006
- › SCS server certificates chain up to the GTE CyberTrust Global Root
  - › Hence no pop-ups on most browsers
- › More than 1400 certificates issued in 2006
  - › ARNES to join in 2007



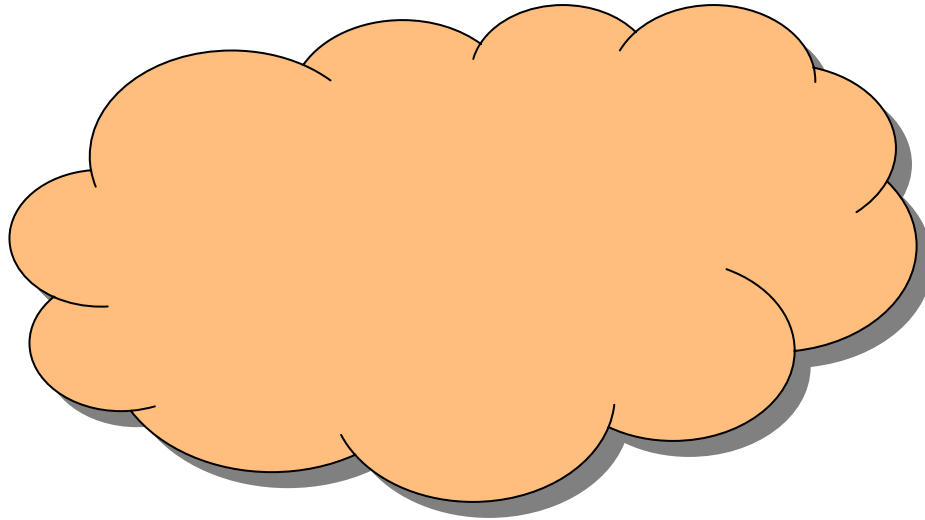
## Schema Harmonisation Committee



- › Set-up in Feb 05 to harmonise schemas in the field of high education; a TF-EMC2 initiative
- › Mainly concerned for inter-institutional data exchange
- › Very good progresses:
  - › First release of “SCHAC Individual Attributes Specification” in May 2006.
  - › Last release issued in December 2006
- › This release defines a set of attributes to describe individuals in the academic and research institutions and contains also an appropriate LDAP profile in appendix.



# NRENs and Grids



- › Grid users: small community of scientists
- › NRENs users: Big and heterogeneous community
- › Same classes of problems:
  - › provide access to resource
  - › security, security, security
  - › end-to-end performance



# NRENs and Grid Workshops

- › Brings together NRENs and Grids communities
- › To discuss common needs, and differences in the approaches
- › Bi-annual workshop
  - › April 2006 edition
    - › Focused on Security
    - › Conclusion:
      - › NREN CSIRTs adequate for handling Grid incidents,
      - › improvements in the collaboration with the projects is desirable
  - › Dec. 2006 edition
    - › Focused on SLAs and monitoring
    - › Conclusion:
      - › service level *specifications* are more adequate for the academic environment.
      - › monitoring, reporting and alerting on service levels requires stronger contacts between the communities
- › Next workshop - June 2007
  - › Focus on AAI and end-to-end issues



# Get involved in TERENA, we need *YOU!*

- › Check the TERENA website
- › Subscribing to one or more mailing lists
  - › To get in touch with experts in that particular area
  - › To get to know what other countries are up to
- › And if possible attend some of the events
  
- › Participation is open to anybody
  - › No need to commit any time
  - › Just share what you know





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