

TRUBA and ELIXIR Interest

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- > TUBITAK & ULAKBIM
- NREN, NGI structure and TRUBA relation
- TRUBA (resource, projects and users)
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TUBITAK



TUBITAK -The Scientific and Technological Research Council of Turkey- is the leading agency for management, funding and conduct of research in Turkey.





TUBITAK ULAKBIM



ULAKBIM (Turkish Academic Network and Information Center) was founded as a non-profit public institution by TUBITAK in June 1996.





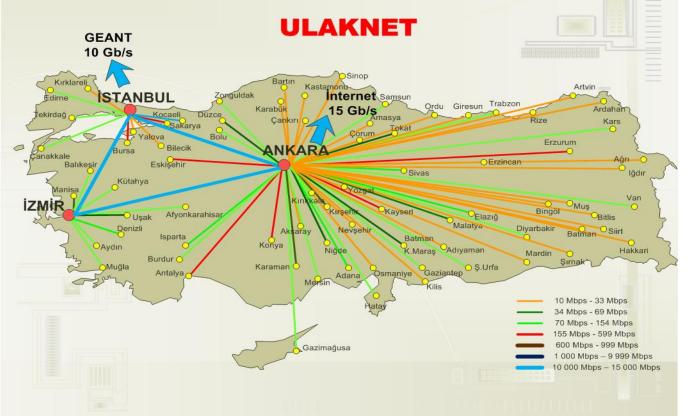
ULAKBIM (Turkish Academic Network and Information Center)

- Operates Turkish Academic Network (ULAKNET)
- Coordinates IPv6 protocol transition
- Provides nationwide information and document services
- Coordinates Grid and HPC activities (NGI)
- Operates TRUBA (Turkish e-Infrastructure) and manages TRUBA Advisory Board





ULAKBIM (Turkish Academic Network and Information Center)



- Directly connected 170 Universities & Research Institutions (10% Dark-Fiber)
- > ~ 1000 Connections ~ 160.000 Researchers ~ 2.700.000 Students
- Including Thematic Research Centers and Central Research Laboratories (60)





ULAKBİM

2003

Linux cluster (128 PC)

2004

SEE-GRID Project, Grid test bed

2005

NGI:TR-Grid (NREN+ 4 universities), 5 grid nodes in 4 different cities

2006

 +1024 cores, +48 TB storage, TUGA National Grid Infra. project, SEE-Grid2, EUMedGrid and EGEE-II

2007

+240 cores, Lustre storage

2008

 +128 cores, + 560 TB storage, Tier2 (CMS &ATLAS), EGEE-III, SEE-GRID-SCI, NGI update (NREN+ 7 univ. + 1 Public. Inst.)

TRUBA



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 +1232 cores, + 72TB lustre storage, TR-Grid RelS National project, SEERA-EI EC project.

2010

2009

 +5760 cores, + 768 TB lustre storage, EGI-InSPIRE, EUMedGrid-Support, e-IRGSP3

2010

NGI is expanded and re-organized (NREN + 4 universities, 3 public organizations + 2 private sector and 2 ministries)

2011

 +4608 cores, + 480TB lustre storage, National Seismic Data Center Project

2012

• +32 GPU, +1154 TB storage















TRUBA Users

- +800 Researchers:
 - √ 93 Universities and 48 Different disciplenes
- Projects funded by Academic Research Funding Programme Directorate:
 - √ 16 projects from 2008 to 2012
- Public Institutions:
 - ✓ Turkish Atomic Energy Authority
 - ✓ Disaster & Emergency Management Presidency,
 - ✓ Turkish State Meteorological Service
 - ✓ Kandilli Observatory and Earthquake Research Institute
 - ✓ TUBITAK Earth and Marine Science Institute
 - ✓ TUBITAK Defence Industries Research and Development Institute
 - ✓ TUBITAK Space Technologies Research Institute



ELIXIR Interest

- Potential Community:
 - ✓ Computational Genomics Lab. (Bilkent University) http://www.cs.bilkent.edu.tr/~calkan/compgen/
 - ✓ Moleculer Biology and Gentics Department (Bogazici University) http://www.bioen.boun.edu.tr/
 - ✓ Computyational system Biology (COSBI) Group (Koc University) http://prism.ccbb.ku.edu.tr/cosbi/
 - ✓ Experimental Medicine Reserach Institute (Istanbul University) http://www.detae.org/
 - ✓ Genetic Engineering and Biotechnology Institute (TUBITAK) http://www.mam.gov.tr/english/GMBE







Next Steps through ELIXIR

- > We need to:
 - Increase the ELIXIR awareness through the potential community
 - Expand the local interest
 - Understand the communit's expectations and ELIXIR requirements for the best collaboration
- We have to provide communication between local community and ELIXIR:
 - ✓ Ewan Birney (Associate Director of EMBL-EBI) has been invited for the participation to the event that will be organized by Bilkent University (28 February 2013)
 - ✓ This event could be a meeting point for our local community, TRUBA as infrastructure provider and ELIXIR & EMBL-EBI





Next Steps through ELIXIR

- > For more information about the event:
 - ✓ Can Alkan <u>calkan@cs.bilkent.edu.tr</u>
- > For more information about TRUBA
 - ✓ Burcu Ortakaya <u>burcu.ortakaya@tubitak.gov.tr</u> grid-pm@ulakbim.gov.tr

THANK YOU VERY MUCH

