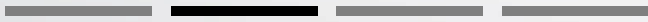


Reporting on EOSC matters

Onur Temizsoylu
TÜBİTAK ULAKBİM



About TÜBİTAK ULAKBİM

EOSC & TÜBİTAK ULAKBİM

What has been done regarding EOSC



TÜBİTAK ULAKBİM

ULAKBİM carries out work regarding education / research network infrastructure and information products and services on national scale.

- EKUAL
- UBYT
- TR Index
- JournalPark
- Bibliometric Analysis
- Document Supply Nationwide



Cahit Arf Information
Center

- Fatih Project
- PARDUS



Education Technologies




- Turkish National e-Science e-Infrastructure (TRUBA)
- National Research and Education Network (ULAKNET)

Network Technologies

Turkish Science e-Infrastructure - TRUBA

- TR-Grid initiative was established in 2003 and TR-Grid e-Infrastructure project was supported by TUBITAK funds between 2003-2008.
- TR-Grid Research e-Infrastructure Strengthening project was supported by T.R. Prime Ministry State Planning Organisation (SPO) funds between 2009-2011.
- TRUBA Strengthening project is supported by Republic of Turkey Ministry of Development funds between 2012-2018
- In the context of next phase five year project which was submitted at the start of this year TRUBA e-Science Center will be established.

STATE OF TRUBA RESOURCES

CPU cores	≥ 17000
High performance storage capacity	3.2 Pbytes
Registered users	≥ 1800
Computing resource usage	≥ 310 Million CPU core hours
EGI resource usage	≥ 5.3 Million CPU core hours
SCI Publications (2012-2017)	454
Theses (2012-2017)	104
Supported research projects (Since 2008)	50
Supported national communities	HEP, Seismology, ELIXIR
Participated EU projects	11
EGI sites	 2 Grid, 1 Federated cloud

TÜBİTAK ULAKBİM

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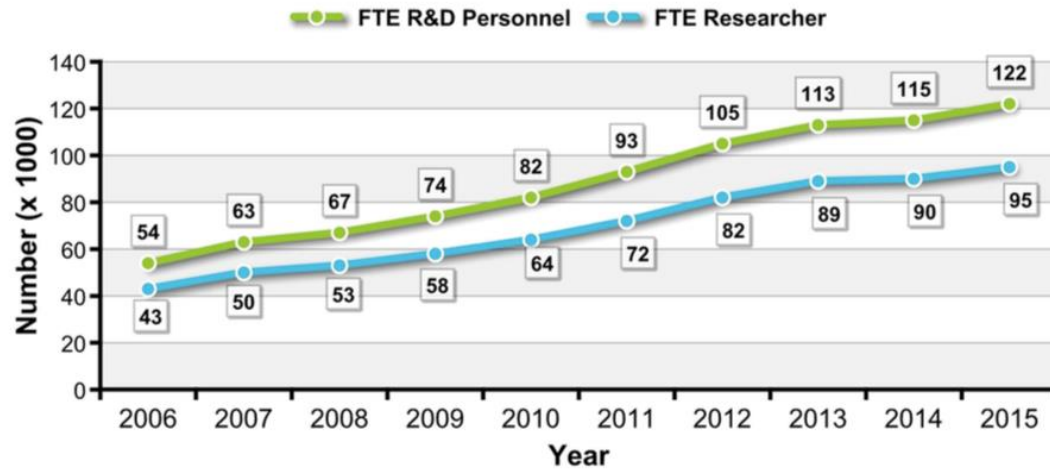
What has being done regarding EOSC



EOSC Vision and R&D in Turkey

- EOSC will provide 1.7m EU researchers an environment with free, open services for data storage, management, analysis and re-use across disciplines. (Over 120K Turkish Researchers)

R&D Human Resources – FTE* (Turkey)



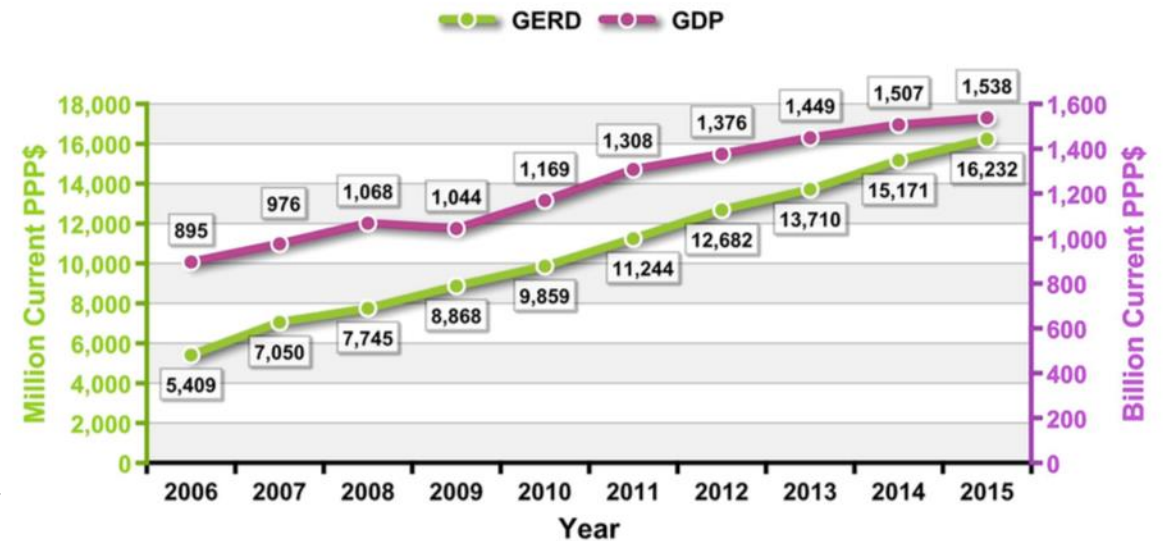
GDP - Gross domestic product



TÜBİTAK

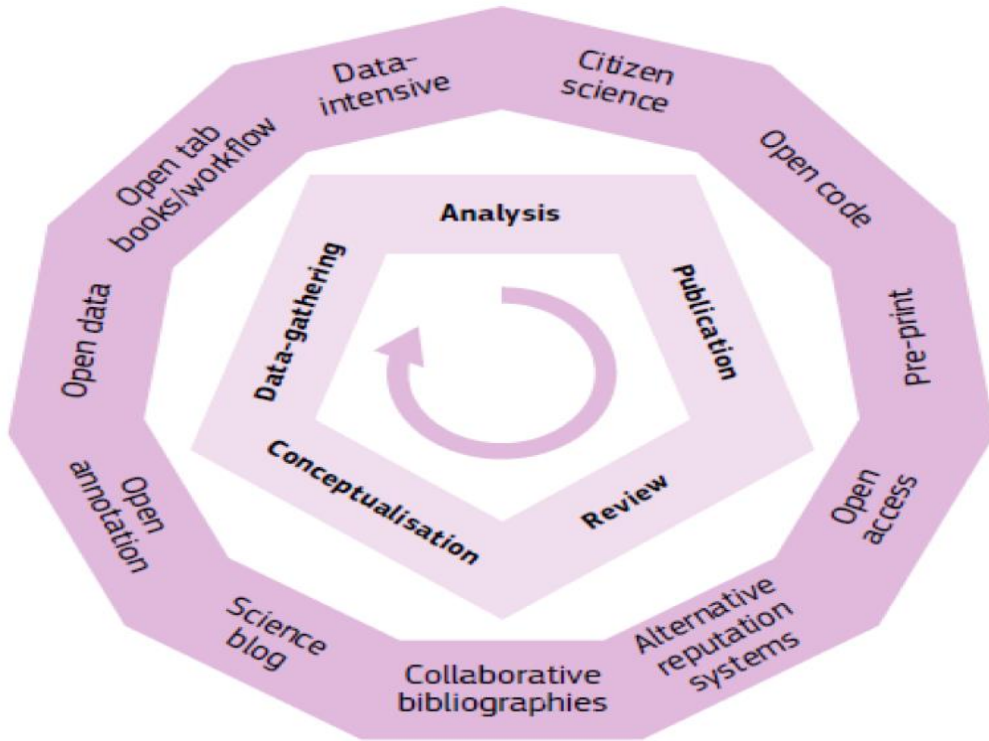
ULAKBİM

current and past infrastructure GERD vs GDP (Turkey)



GERD - Gross domestic expenditure on R&D

EOSC & TUBITAK ULAKBİM



Open Science opens up the entire research enterprise (inner circle) by using a variety of means and digital tools (outer circle) [EC - DG R&I 2016, p. 36]

- ULAKBİM is the main agency in Turkey to support:
 - Open data and data-intensive science with TRUBA,
 - Pre-print, open access and open annotation via the services provided by CABİM,
 - Diffusion of open source software.
- Being a founding member of EGI.eu,

 ULAKBİM has a commitment to
TUBITAK
ULAKBİM several EOSC actions.

TÜBİTAK ULAKBİM

EOSC & TÜBİTAK ULAKBİM

What has being done regarding EOSC



LToS and Research Communities

- ULAKBİM has been providing computing and long term data repository services to the LToS users for over 15 years.
- By using this expertise ULAKBİM can play a crucial role in service level management (SLAs) and customer relationship management for the LToS community.
- On the way to EOSC, ULAKBİM will also empower national research communities to perform collaborative compute-/data-intensive science across Europe and worldwide.
- TRUBA e-Science Center which will supported by Ministry of Development and TUBITAK will hopefully support individual researchers, research groups and also national research infrastructures.

What has being done

- ULAKBİM prepared a platform (Invenio based) in order to fulfill the requirements of open access and open data in science for Turkish research community. Back-end services are ready and front-end web access platform is being developed.
- ULAKBİM already communicated the capabilities of this platform to the ARDEB and TEYDEB, which are the two exclusive research funding departments in Turkey; both of which operate under TUBITAK. The initial plan is to use the platform in this national context first.
- A dedicated training event was organized between 26-27 October 2017 for the management of research data



EOSC Related Services Directly Offered by ULAKBİM

- HPC & HTC resources that are offered by the TRUBA e-Infrastructure.
- IaaS level cloud services which are already part of EGI Federated Cloud.
- Long term preservation of LToS data and scientific repositories of major research communities (Meteorology, seismology, HEP, environmental research) are being provided for nearly 15 years.
- Invenio based data preservation solution with Turkish interface is being developed.
- Gateway between European e-Infrastructures, national SMEs and commercial resource providers



Policy Makers & Funding Agencies

- EOSC is not yet a “thing” and there is still a lack of widespread awareness of the value of data and of incentives for data sharing.
- It is hard to understand how the whole EOSC puzzle fits, and which piece each “actor” represents and their connection to other pieces.
- ULAKBİM provides advice for national policy makers and funding agencies to shape policies and funding programs.

EOSC & Commercial Providers in Turkey

- Both legal and technical mechanisms are needed to make commercial services available to national and international EOSC users.
 - Various needs from national researchers can be aggregated to understand the complementary commercial services.
 - Complementary commercial services of national commercial providers should be integrated to EOSC catalogue of services, including the appropriate legal agreements.
 - Independent of the commercial provider, access to the EOSC related national services should be provided to the end users.
- ULAKBİM will be providing complementary services as a national hub.



Thank you

