



TÜBİTAK

ULAKBİM

**National Academic
Network and Information
Center**

ULAKNET

TRUBA

Turkish National e-Science e-Infrastructure

CLOUD

Open Stack

DISTANCE EDUCATION
SERVICES PROJECT

ATB

Network Technologies Department

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ETB

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20 years

National Academic Network and Information Center

ULAKBİM is the center which connects all the academic institutions in Turkey to one another and to the global research network.

It maintains the National Academic Network infrastructure, provides knowledge/information services essential for R&D activities nationwide, and develops new information technologies complying with international standards.

ATB

Network Technologies Department

ULAKNET

Education and Research Network Users in Turkey

Universities	179	TÜBİTAK Departments	18
Military Units	8	Public Institutions	12

Institutional Cooperation

Service Providers: Türk Telekom

Institutions operating the Infrastructure: Municipalities

New Network Technologies

High Capacity Metro Ethernet Lines

210 km Dark Fiber infrastructure

Backbone Structure

Main Nodal Points: Ankara, İstanbul and İzmir

Ankara - İstanbul Connection: 25 Gbps

Ankara - İzmir Connection: 15 Gbps

İstanbul - İzmir Connection: 15 Gbps

End Nodes

1082 point to point circuit

Total Bandwidth: 102 Gbps

International Connections

European Academic Network Back up Connection: 20 Gbps

Global Internet Connection: 60 Gbps

TRUBA (Turkish National Science e-Infrastructure)

TRUBA is an e-infrastructure of strategic importance, contributing to scientific research; by providing high performance computing, grid computing, and data intensive computing services and scientific data repositories to over 1300 researchers in 106 universities, and developing projects in collaboration with various public institutions.

CLOUD (Open Stack)

ULAKBİM, providing production-level cloud service in Turkey through OpenStack platform, leads the way in Cloud Computing technologies. With the support of sound infrastructure and high-speed broadband internet access provided in its data center, ULAKBİM offers cloud service to millions of users in public organizations, research institutions, universities, and R&D centers.

Distance Education Services Project

The aim of the Project is to provide the high capacity infrastructure necessary for the distance education and e-conference requirements of universities and Distance Education Institutes. Sakarya University, Süleyman Demirel University, Ankara University, University of Medical Sciences, and İstanbul University offer distance education service using the infrastructure provided by the Project.

CABIM

Cahit Arf Information Center

National Academic License for Electronic Resources (EKUAL)



The Center offers the most prominent databases in various fields for the use of researchers and academicians working in universities and 251 institutions in Turkey without charge. It also provides information resources required for R&D studies carried out in TÜBİTAK and its Institutes.

Turkish Journal Index (TR Index)

TR Index, developed by ULAKBİM with the aim of improving the quality of academic journals published in Turkey, is a database covering five subject fields. The journals in TR Index are selected by expert committees according to international journal evaluation criteria.

National Document Supply System

Nationwide Document Supply service is provided for individual institutional users in Turkey using ULAKBİM electronic resources via TÜBESS.

JournalPark

JournalPark gives electronic hosting service to an ever increasing number of journals (1,145 at present), offering a journal management system. The project aims at improving the visibility and usability of scientific research output of the country in the international platforms. It also provides the necessary data and infrastructure for a National Citation Index.

Incentive Program for International Scientific Publications (UBYT)

The Program offers grants to researchers, with the aim of increasing the visibility and impact of international scientific publications made in Turkey.

Bibliometric Analysis

Bibliometric studies carried out in ULAKBİM include gathering and analysis of various data on scientific publications in Turkey and on other issues such as international cooperation, making comparisons by countries or by fields of research; in order to determine Turkey's contribution to the scientific literature in the world. The results are shared with relevant public institutions and organizations.

BİBLİYOMETRİK ANALİZ



Educational Technologies Department

Fatih Project, a new approach to education and information & communication technologies, is carried out in cooperation with the Ministry of National Education (MNE). The project has six components, namely, tablets, smart boards, network infrastructure, training of teachers, content, and system software. The aim is to ensure equality of opportunity among students, developing digital course systems.

Electronic Course Contents

- Learning Steps Model
- 14,000
- HTML5

Android for Fatih Project

- Compiling from open source code
- Extra security mechanisms

PDF Reader

- For tablets
- Drawing and note taking
- Library management

Electronic Course Contents

- Personnel support
- Expertise on contract and specifications
- Project monitoring
- Quality control

Infrastructure

- Infrastructure Support
- Logging
- Security
- Test

Pardus ETAP

- Infrastructure customized for smart boards

Fatih Tablet, Interactive Whiteboard and e-Content Project

(in cooperation with MNE - YEĞİTEK General Directorate)

- MNE has undertaken the process consultancy during the distribution and administration of tablets to students and teachers.

- Various hardware and software components have been used to perform

different functions, in order to ensure that the students and teacher get the targeted benefits.

- The Data Center service necessary for the systems to be set up is provided by ULAKBİM.

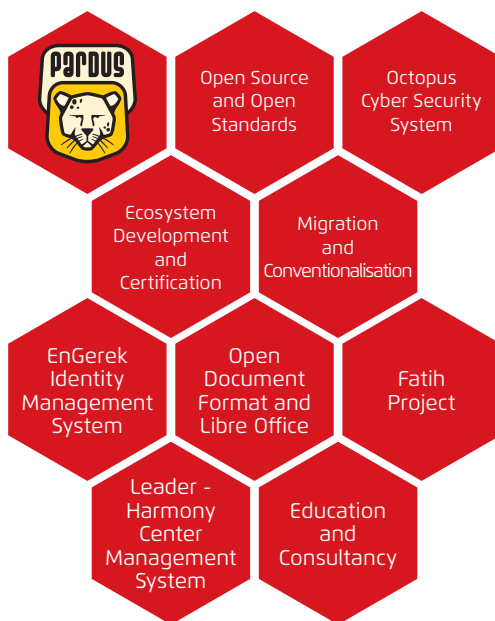
- Electronic learning materials with rich contents intended to facilitate effective learning are being prepared within the context of Fatih Project.

Curriculum and Textbooks

Class based 58 learning programs and 23 textbooks are prepared and submitted to MNE, within the context of Curriculum and Textbooks Project. Self confident students with high academic skills and self-efficacy are targeted by the new education programs and textbooks developed under the guidance of TÜBİTAK.

PARDUS

PARDUS is a high performance, low cost operating system, featuring Turkish language supported applications, prioritizing functionality and visual quality, always maintained up to date and secure; to be used by public institutions, SME's and individual users.





Mustafa Kemal Mahallesi Dumlupınar Bulvarı 2151 Caddesi No: 154
06510 Çankaya, Ankara - Turkey
P. +90 312 298 92 00 F. +90 312 266 51 81
www.ulakbim.gov.tr
ulakbim@ulakbim.gov.tr

TÜBİTAK ULAKBİM provides research e-InfraStructures to universities and research centers in Turkey.

ULAKBİM is the NREN and NGI in Turkey, providing internet access and high performance computing resources to universities.

ULAKBİM provides contry-wide open access academic journal platform to all academic journals in Turkey. It is Turkey's main content repository that is harvested by OpenAIRE. ULAKBİM is very much interested in Open Access, Open Data, Open Science and Open Source.

