GATEWAY TO THE FUTURE IN EDUCATION

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1. Turkey Overview
2. What is FATIH Project?
3. Background and Plans
4. Project Components
   – Infrastructure
   – E-content
   – Curriculum Integration
   – Security
   – Teacher Trainings
5. Questions
Turkey Overview

74 million Population
65% younger than 34
16th largest economy
GDP $1tn (ppp), per capita $14,000

15.7 million K12 Students
750,000 Teachers
42,000 Schools,
620,000 Classrooms
All schools connected to internet

12th Largest Internet User
47% internet penetration
No1/3 in Digital Eng. in EUR/WW
What is FATIH Project?

- 620,000 classrooms in 42,000 schools
- Equipped with ICT equipment/tools
- Creating better opportunities in education for students and teachers
- and enhancing technology in our schools.
Transition to Information Society

Become one of the top 10 economies through Education & Information Society Transformation

Develop & manufacture required products/services in Turkey

Attract direct investment and create local ecosystem

Export to global markets
Project Sponsor: Prime Minister
Budget: ~ $4.5 bn
Universal Services Fund + National Budget
Current Status and Targets

2000’s

**ICT Labs** (computers, internet connection, printer, scanner, projector, etc.) in majority of primary and secondary schools

2010 and beyond

**ICT Equipment** and **Internet Connection** in the Classrooms
Integration Phases of ICT and Education

- Few Computers to Each School for Administrative Services
- A Computer Lab in Every School
- ICT in Classrooms
- E-Book (Tablet) For Every Student / Teacher
Forecasted project duration is 3+2 years.


Project phases will be monitored and evaluated.

Year 1. Secondary Schools
- Secondary Education Institutions

Year 2. Primary Schools (Level I and II)
- Primary Schools in City and Town Centers

Year 3. Primary Schools (Level I) and Pre-School
- 1st – 5th Grades
- Pre-School

Forecasted project duration is 3+2 years. Project execution between 2011 – 2014. Project phases will be monitored and evaluated.
Components of FATİH Project

1. Completing Hardware and Software Infrastructure
2. Developing and Providing e-Content
3. Adopting Education Curriculum for effective ICT Usage
4. Developing Secure, Manageable and Measurable ICT Usage
5. Teacher Training
1. Hardware and Software Infrastructure

Every School
- 1 Multi-purpose Printer
- 1 Overhead Projector

ICT to Every Classroom
- Interactive Whiteboard
- Wired Internet Connection

Every Teacher
- Tablet Computer

Every Student
- E-Book (Tablet Computer)
Interactive Education Portal that contains all the materials and information relevant to education, that will provide easy access for teachers and students to all electronic content.
2. e-content: Enriched e-Book

http://e-kitap.meb.gov.tr/test/e-kitap.html
3. Integrate ICT into Curriculum

ICT incorporation to Educational Processes in All Primary and Secondary School Classrooms

Ensuring ICT Compatibility in All Educational Programs

Updating All Teacher Guidebooks, Study Guides
How do you create awareness for conscious & secure internet usage?

- Use URL and Content Filtering Systems for Internet Access
- Develop new regulations
- Include it within ‘In-service’ Teacher Trainings
- Collaborations with related Government/Public Agencies
- Using Secure Search Engines in Classrooms
- Create Websites for Teachers, Students and Parents
- Short Informative Movies to Create Awareness
5. Trainings for In-Service Teachers

Upon successful completion of the In-Service Trainings (IST), the teacher will be able to:

- Effectively use the hw/sw provided by the project
- Find and select e-Content media relevant to the course objectives
- Prepare materials relevant to course objectives
- And using the content and materials, design and prepare an ICT-supported course templates
Our Mission

Through effective in-service education trainings, FATIH Project will not only be a technical investment, but it will be an initiative to increase educational opportunities by leveraging technology.
Thank You!

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Web: http://fatihprojesi.meb.gov.tr
Components of FATIH Project

- Hardware & Software Infrastructure (For 42,000 Schools, 620,000 Classrooms & Education Environments)
- In-service Trainings to Teachers for ICT Utilization in Classrooms
- Providing and Managing e-Content
- Conscious, Secure, Manageable, and Measureable ICT and Internet Usage
- Effective ICT Usage in Educational Programs

Effective ICT Usage in Educational Programs
## 2011 – 2012 Instalment Plan

### Number of Instalments = 3.657

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interactive Whiteboard</td>
<td>84.921</td>
</tr>
<tr>
<td>Overhead Projectors</td>
<td>3.657</td>
</tr>
<tr>
<td>A4 Printer</td>
<td>1.211</td>
</tr>
<tr>
<td>A3 Printer</td>
<td>2.446</td>
</tr>
<tr>
<td>Remote In-service Training Centres</td>
<td>110</td>
</tr>
</tbody>
</table>
### Tablet Computer Pilot Application

**17 Cities - 52 Schools**

<table>
<thead>
<tr>
<th></th>
<th># of TRAINERS</th>
<th># of TEACHERS</th>
<th># of STUDENTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>169</td>
<td>2.259</td>
<td>9.435</td>
<td>11.863</td>
</tr>
</tbody>
</table>
3. Integrate ICT into Curriculum

Ensuring effective ICT usage in classrooms for all educational programs, by adding necessary descriptions to program templates and by creating sample activities.

Emphasis on effective ICT usage abilities in educational programs compliant with constructive approach principals implemented since 2004 in Turkey.
In this framework, a detailed report will be prepared by commission members for announcing all the needs for ICT hardware and infrastructure in educational programs and structuring representative educational activities.

Subsequently, representatives of the Curriculum Directorate and Ministry of Education are planning to prepare course textbooks, study guides, and teacher guidebooks about effective usage of ICT and e-content for every branch, subject and educational module.
4. Secure ICT & Internet Usage

How to Accomplish?

- Wired Network Infrastructure to be set in Schools
- Content Filtering Systems
- Firewall, IPS and HTTP Anti-Virus Usage
- VPN Support
- User Authorizations
- Storage of Internal IP Distribution Logs on an Electronic Medium
- Conscious Internet Usage Awareness
4. Secure ICT & Internet Usage

Establishing School Local Area Networks (LAN)

- Connection of Structural Cables in Schools
- Providing UPS for Network Devices
- Interconnecting Schools with Fiber Cables
- Providing 2 Data Sockets to Every Classroom
- Providing Devices that handle Security Precautions to Every School
- Construction of System Rooms in Every School
- Enabling Access to Off-line Materials from Classrooms
4. Secure ICT & Internet Usage

Incorporation ICT to Educational Processes in Primary and Secondary School Classrooms

Conscious, Safe, Manageable, and Measurable ICT and Internet Usage

- Construction of LAN Infrastructure in Schools
- Setting up a Datacenter
- Centrally manageable intranet/internet access
- Awareness on conscious ICT and Internet usage
5. Trainings for In-Service Teachers

Roadmap

- Interactive video or guidebook on local Basic ICT Trainings and ICT Usage
  - Representative course videos for different subjects
  - E-Content Platform

- Fatih Project, ICT Usage in Education Course
- FATIH Project Tier II Trainings

- Identification of Trainers

- Planning Instructor Trainings

- ICT for School Teachers
  - Central Instructor Trainings
  - Trainings via Universities
  - Seminars to School Principles and Inspectors
  - Seminars on Infrastructure for Principals and Technical Staff

- In-Service Training Methods
  - Remote trainings
  - Face-to-face trainings

- Follow-up Evaluation
  - Support and Guidance
  - Control by inspectionary commissions
  - Follow-up of trainings

- Motivation
  - Certification
  - Incentives and Rewards
  - Career Ladder
5. Trainings for In-Service Teachers

**Basic ICT Trainings**

Performing informative seminars with school principals and identification of teachers in need of Basic ICT Trainings

Resolving ICT knowledge deficiencies of identified teachers by local training solutions (B.08.0.HED.0.77.00.00.774.99/6722 numbered and 30.12.2010 dated report)

Preparing videos or guidebooks on ICT usage for easy and continuous access by teachers
5. Trainings for In-Service Teachers

Expectations

- **Basic ICT Trainings provided to all teachers lacking up-to-date ICT knowledge and skills**

- **All teachers to receive ISTs and consequent follow-up**

- **Enabling School Master-Teachers to provide ICT leadership to teachers**

- **Executive sensitivity with respect to scheduling and follow-up of trainings**

- **Enabling healthy and continuous communication between the head office and cities, free flow of information and opinions**

- **Rewarding successful results**
In-service Training Method

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organising Instructor trainings by MOE</td>
<td></td>
</tr>
<tr>
<td>Local execution of trainings</td>
<td></td>
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<tr>
<td>Performing impact analyses on trainings and providing subsequent assessments</td>
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<tr>
<td>Taking necessary precautionary measures based on the results</td>
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<tr>
<td>Achieving a nation wide quality level on trainings in order to avoid discrepancies between cities</td>
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5. Trainings for In-Service Teachers

Follow-up - Evaluation

- Support and guidance from teachers who participate in and complete Instructor Trainings
- Continuous follow-up of trainings by the Ministry and Municipalities
- Inspection and control of trainings by Auditory Commissions
5. Trainings for In-Service Teachers

What has been done?

- Educational materials prepared
- Primary Instructor trainings completed (2 groups, 24 cities 44 trainees)
- Pilot Teacher trainings completed (13 cities, 234 teachers)
- Evaluation of Pilot Training results
- Training content and documents updated

April - May

June - July
5. Trainings for In-Service Teachers

What has been done?

- August
  - Introductory seminars to school principals (Face-to-face and remote training groups)
  - Seminars to commissions of educational programs (2 Groups)

- September
  - 2011 Additional Training and 2012 IST Activities planned
  - Official procedures of Local IST Activities for 2012 planned
October-November-December

- Continue on Instructor Trainings
- Workshops on providing Trainings with remote education support

What will be done?

2012..

- Completion of Instructor Trainings
- Initiation of Teacher Trainings as part of Local IST Activities
- Preparations of Tier II educational content
- Follow-up & evaluation of Local IST activities