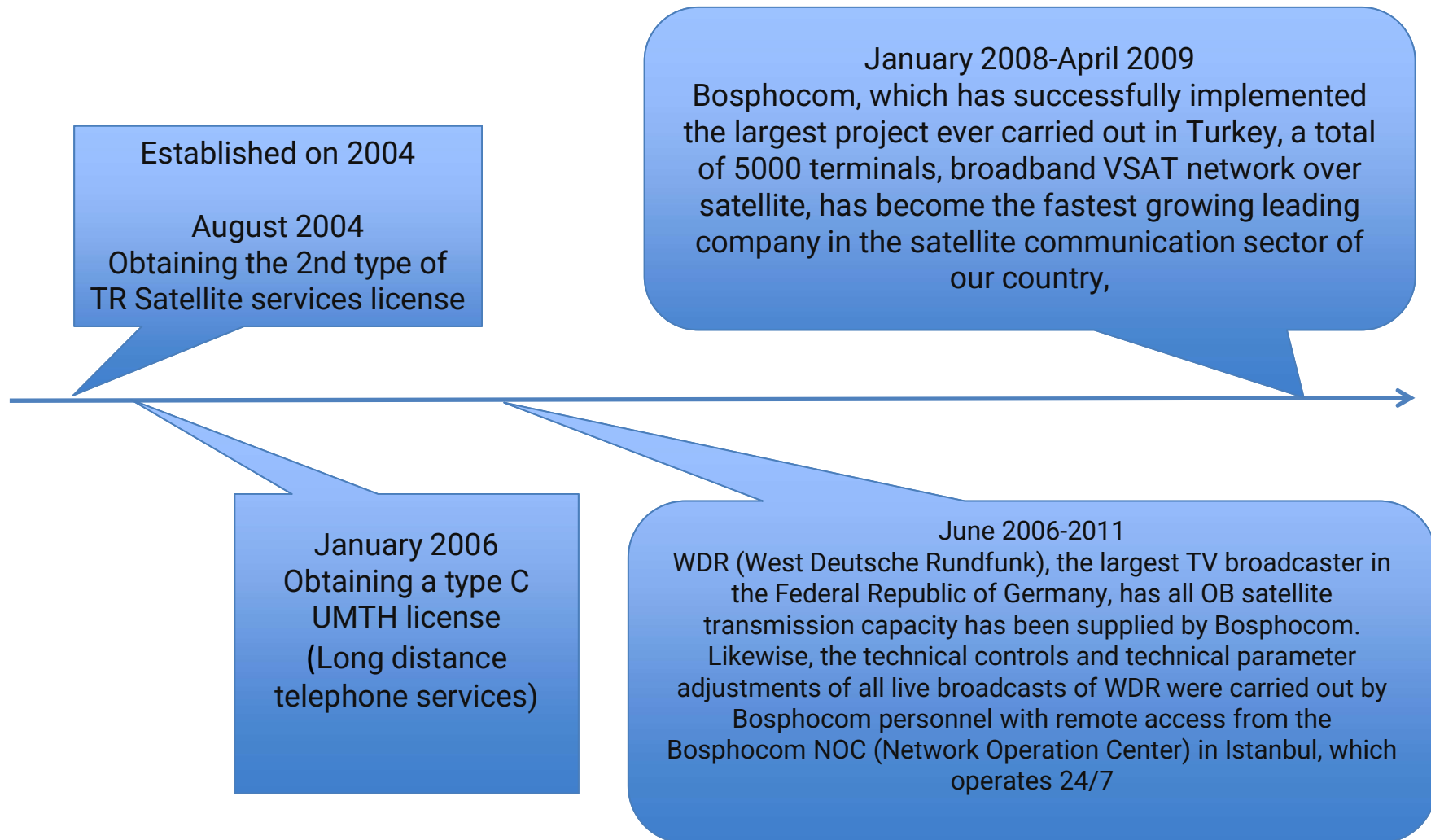


# **Education Applications**

Advance Business Communication via Satellite

# Bosphocom Timeline (1)



## Bosphocom Timeline (2)

2006-2012

Bosphocom, which establishes closed-circuit corporate communication networks at home and abroad; It has established communication infrastructure for many companies in Afghanistan, Turkmenistan, Syria and Iraq. References include companies with a widespread network such as Petro Canada, Ina Oil, Kolin Construction, Ülker.

2016–present

Bosphocom, which is active in the field of low orbit (LEO) satellites with its extensive experience in the field of satellite communications; It continues its activities in the field of corporate satellite communication and continues to be a service provider.

2013-2014

The satellite communication infrastructure used for radar, radio and data communication transmission between all air traffic control points of LCAA (Libyan Civil Aviation Authority) has been procured, installed and commissioned by Bosphocom.

**Bosphocom**

# What is Tele-Education?

- Internationally proven technology for education and distance learning
- A solution that can reach the farthest places of the country to be present wherever there is a public school → unlimited geographical reach
- A solution that prioritizes the needs of the education sector
- Pure education delivery solution independent from other systems
- A system that can easily be managed from one location
- Cost-effective government-to-government cooperation with best interest of society as main consideration

# Benefits of Education via Satellite

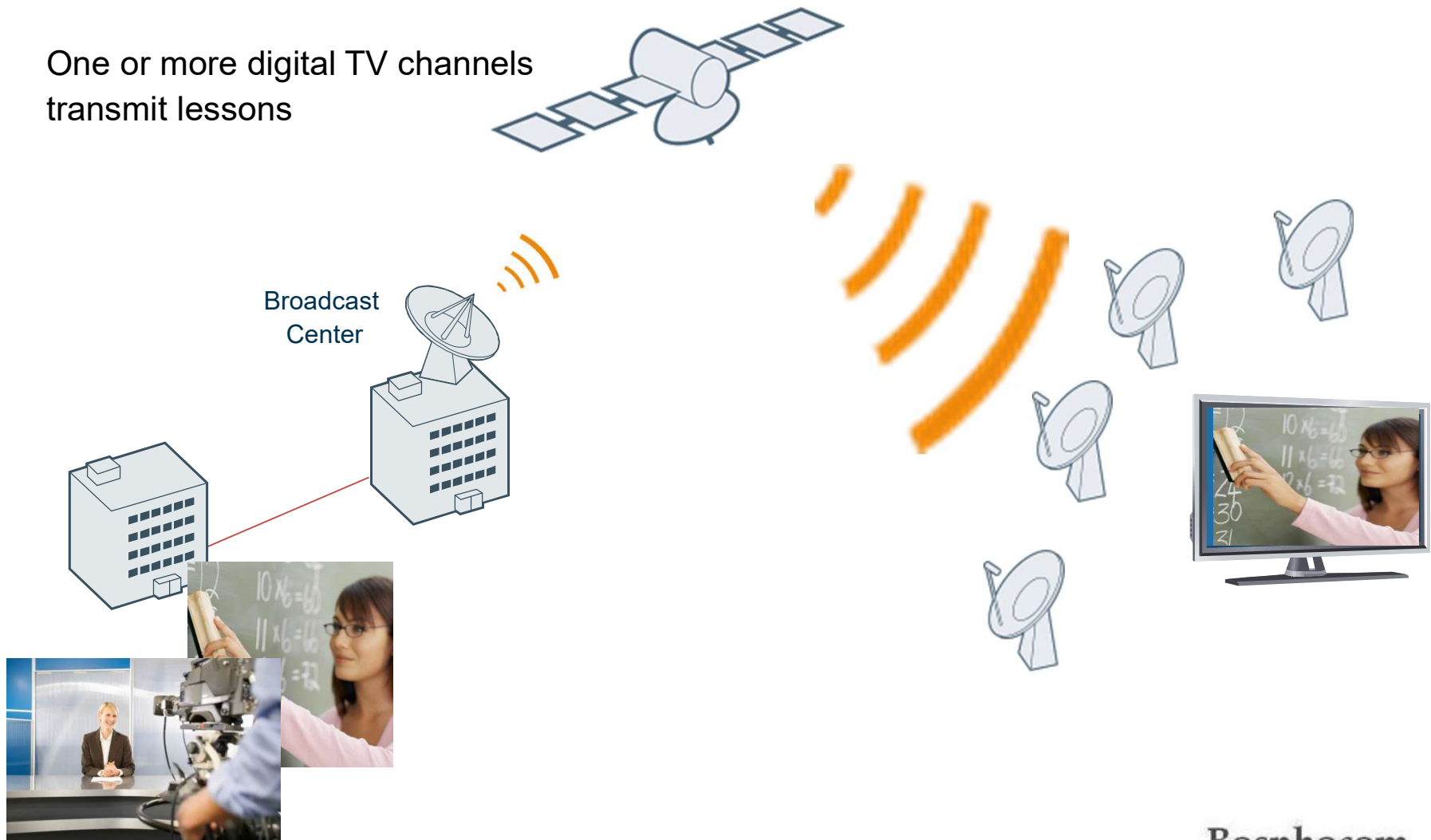
- Efficient & effective way of providing the same high quality basic education for a large number of students in a short span of time.
- Improvement in the delivery of basic education by enhancing student competence and upgrading the capabilities of teachers, school heads.
- Government's increasing prioritization of education in national affairs:
  - empowerment of the schools in managing their own affairs;
  - professionalizing teaching;
  - fixing how the curriculum is implemented;
  - improving complementary education services such as pre-school,

# Benefits of Education via Satellite

- Provides a national standard for pacing of lessons.
- Schools will know whether they are advanced or lagging in their lessons and can react accordingly.
- This lessons the gap between the competencies covered during the year and the competencies that will be assessed / evaluated at the end of the year.
- This ensures the quality and standard of education received by all schools nationwide.
- The teachers in the classrooms will now have more time and resources to focus on conceptualizing activities that will reinforce the lessons learned through the computers and TVs.

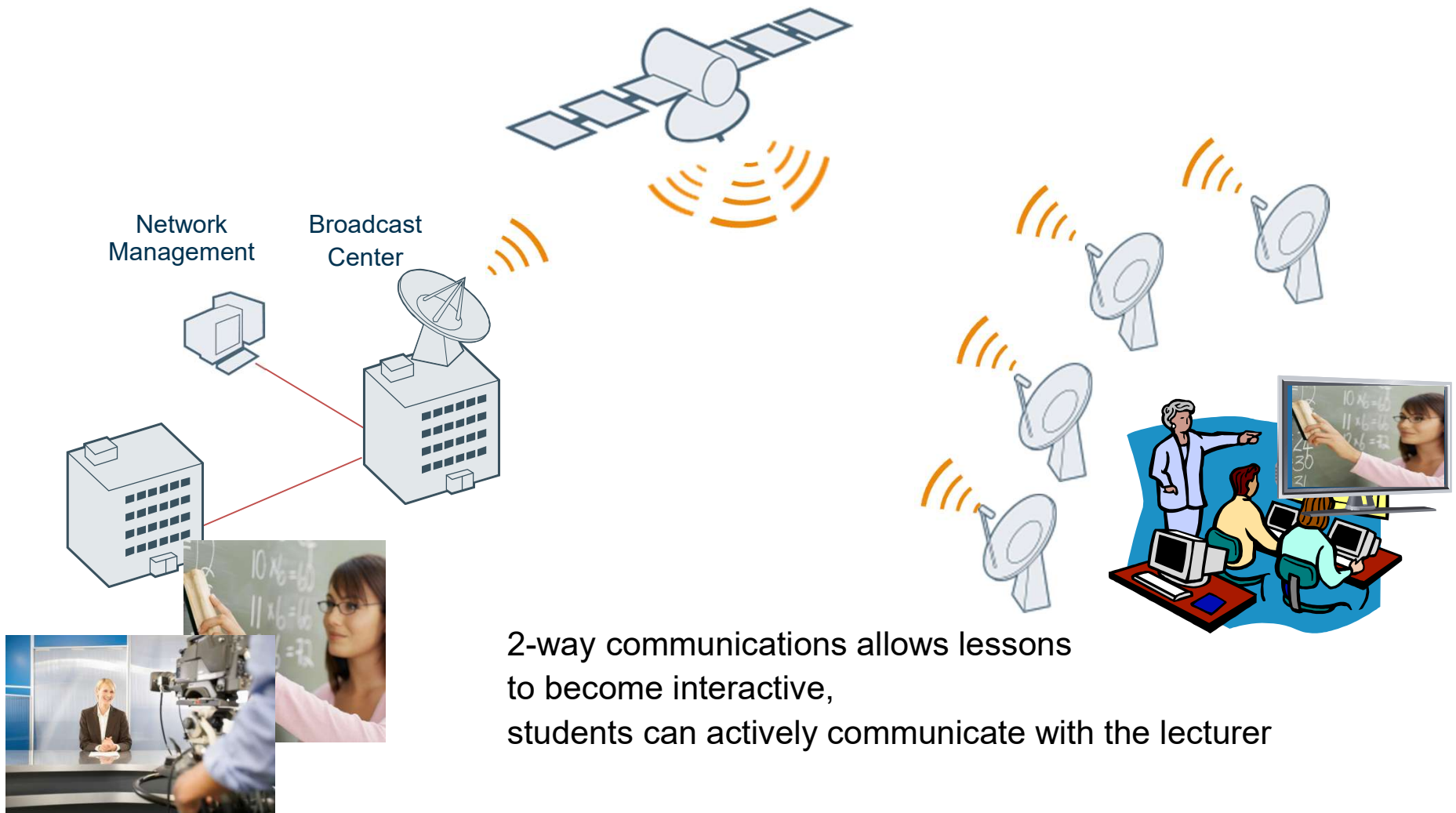
# Broadcast via Digital TV Channel

One or more digital TV channels  
transmit lessons



Bosphocom

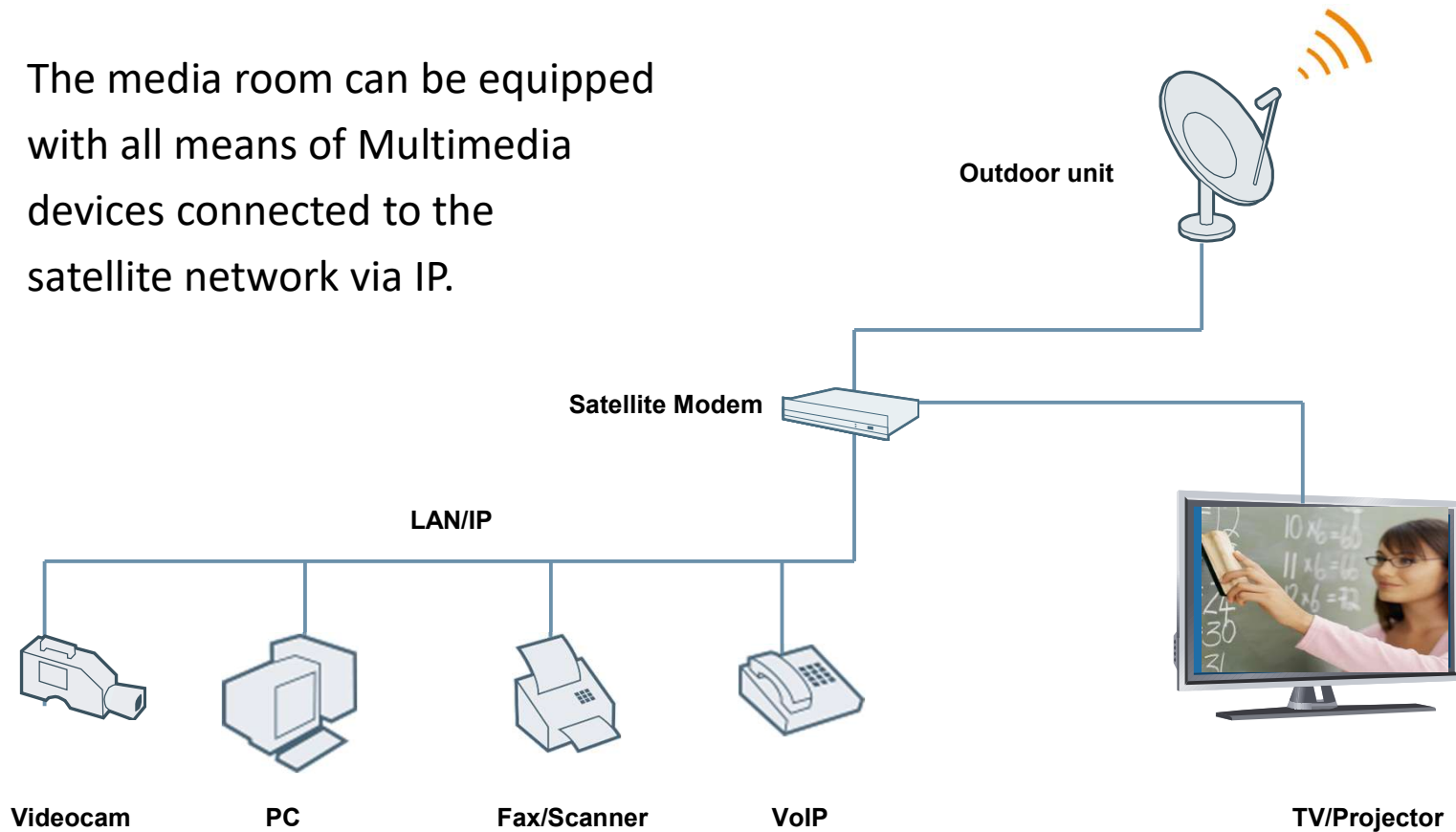
# Two way communication and Interactive Learning



2-way communications allows lessons to become interactive, students can actively communicate with the lecturer

# School Media Room Set-up

The media room can be equipped with all means of Multimedia devices connected to the satellite network via IP.



**Bosphocom**

# Education Network in Turkey



TURKSAT – MINISTRY OF EDUCATION (MEB)



**BOSPHOCOM**

- The education project is jointly implemented by:



Provides the satellite capacity on Turksat 1C

**BOSPHOCOM**

Provides the network design, planning and technology

Performs the installation and network operation

**Bosphocom**

# Applications of Education Network in Turkey

- DSL like Internet Access to Intranet and WWW to enable students to access commonly available information on the internet
- Education SW to provide the students with training programs in addition to enrich locally held lesson by teachers
- Distribute nationwide centrally produced lessons for syllabus standardization



# Project Scope

- Design and installation of 1:1 redundant HUB in Ankara 6.3 m antenna, 750 W HPA with the capacity of to operate up to 7500 VSAT Terminals
- Design and installation of Network Management System (NMS),
- Network Security Elements, Help-Desk System
- Internet Access Service
- Installation of 5227 VSAT Terminals (1.2 m Antenna, 2W with de-icing)
- Training of the Turksat Engineers for HUB Operation
- Timeline:
  - Jan 2008 Contract signature
  - May 2008 Hub installation
  - Sept 2008 completion of remote installation

# Network Overview

