



TURKSAT

“Türksat’s Satellite Communication for Emergency Reponse in the Field”

NEJAT DOGER

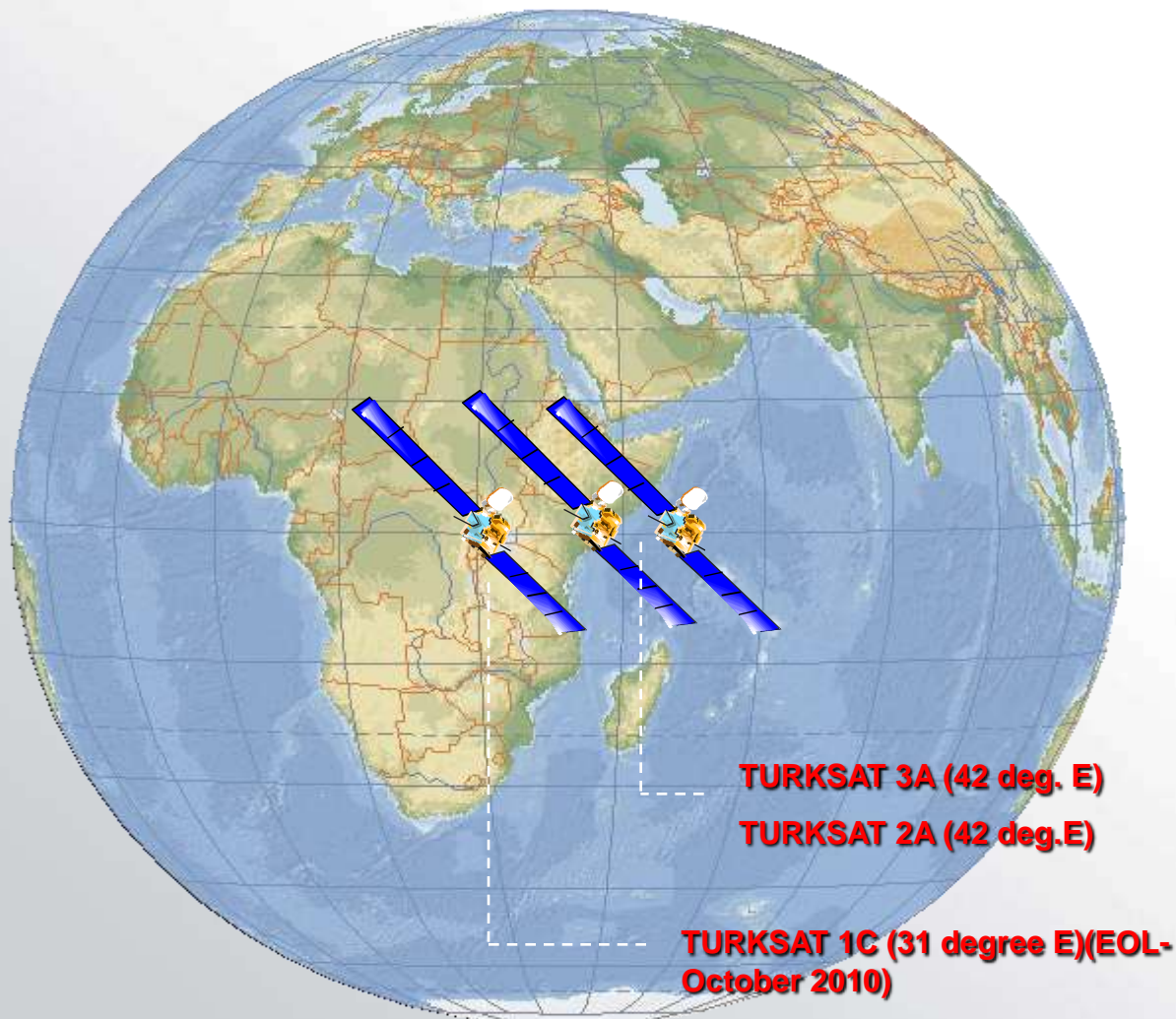
Director



Agenda

- Satellite Services
- Emergency Communication
- Current Projects

Satellite Services – Fleet





Satellite Services – Upcoming Satellites

TURKSAT 4A @ 42 DEGREE E 2013

- Turksat 4A will offer broadcasting services covering the **Middle East, Central Asia, South Asia and Africa.**
- With the launch of 4A, Turkish satellites will now be able to cover all of the African continent in addition to the current coverage of Turkey, Europe, the Middle East, northern Africa, Central Asia and China.

TURKSAT 4B @ 50 DEGREE E 2013

18 Ku-Band Transponders;

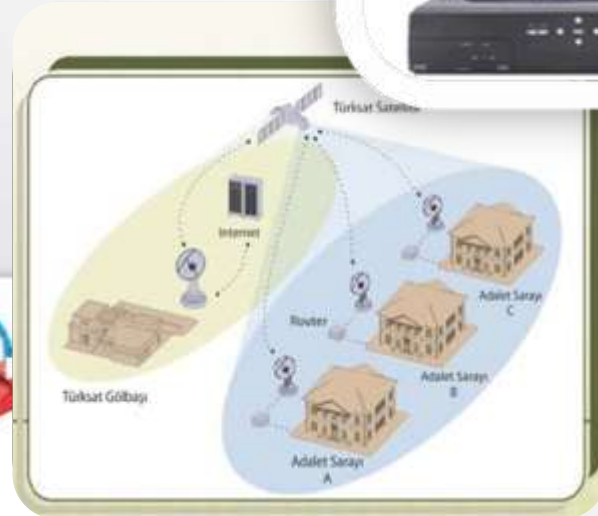
Coverage Areas: **East, West and Turkey**

8 Ka-Band Transponders;

Coverage Areas: **Turkey, Middle East, Arabian Peninsula, Africa**

Satellite Services - Operations

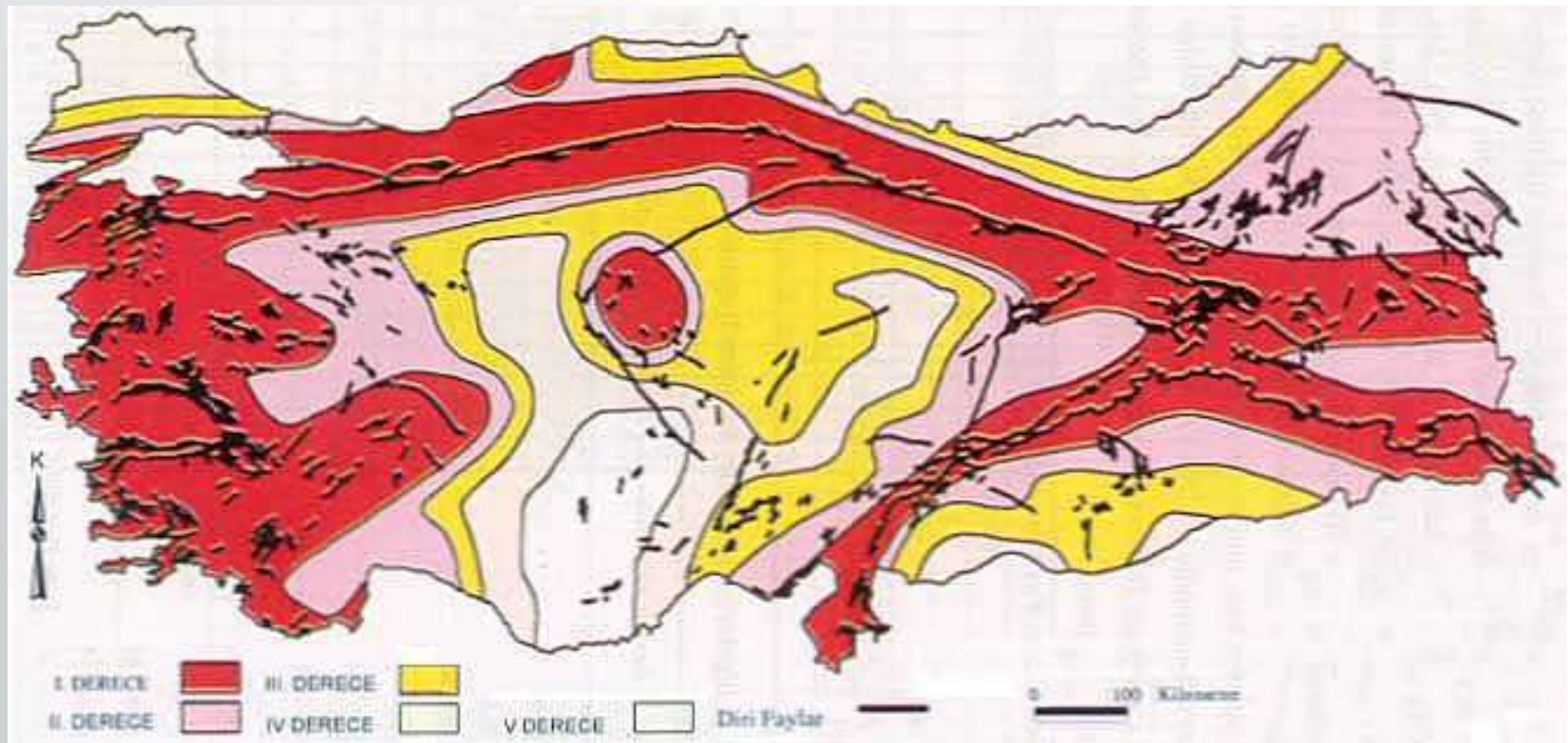
- TV/Radio Broadcast
- Emergency Communications
- Broadband Access
- VSAT Applications



Turkey and Disaster



TURKEY FAULT LINE



EARTHQUAKES IN TURKEY



1999 Marmara Earthquake

DISASTER RECOVERY

The most important necessity of a healthy coordination is **Communication.**



DISASTER RECOVERY

At the moment of disaster, all terrestrial lines can be crushed but **SATELLITE DO NOT.**



DISASTER RECOVERY



1999 Marmara Earthquake- Turksat was there.



- In disasters and crisis, It is necessary to provide reliable communication in the shortest time.
- Because of this, easy mountable, portable Satellite Communication Systems are the best alternative or may be the only solution .

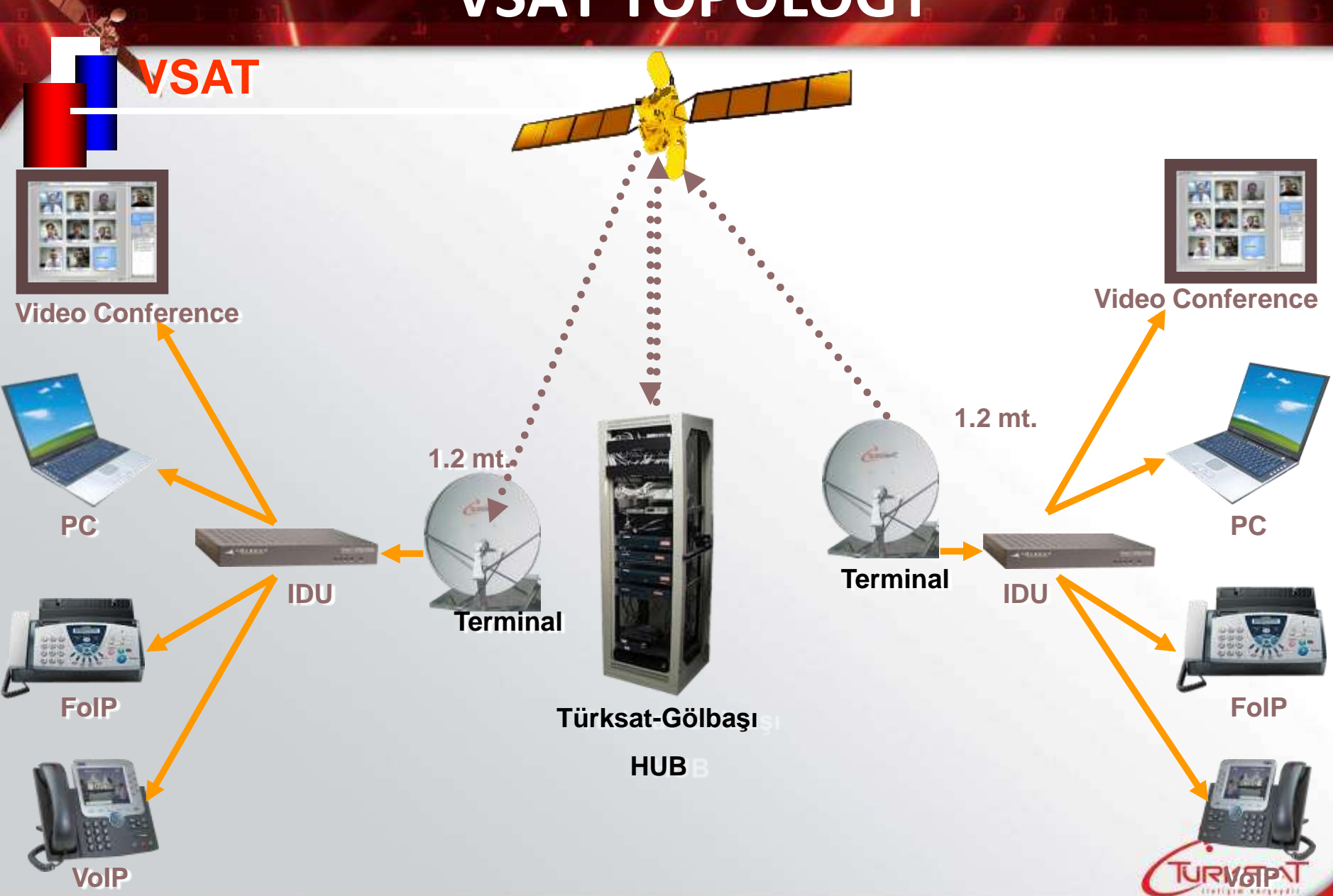
Mobile Satellite System



WHICH SATELLITE SYSTEMS ARE WE USED TODAY IN EMERGENCY RESPONSE



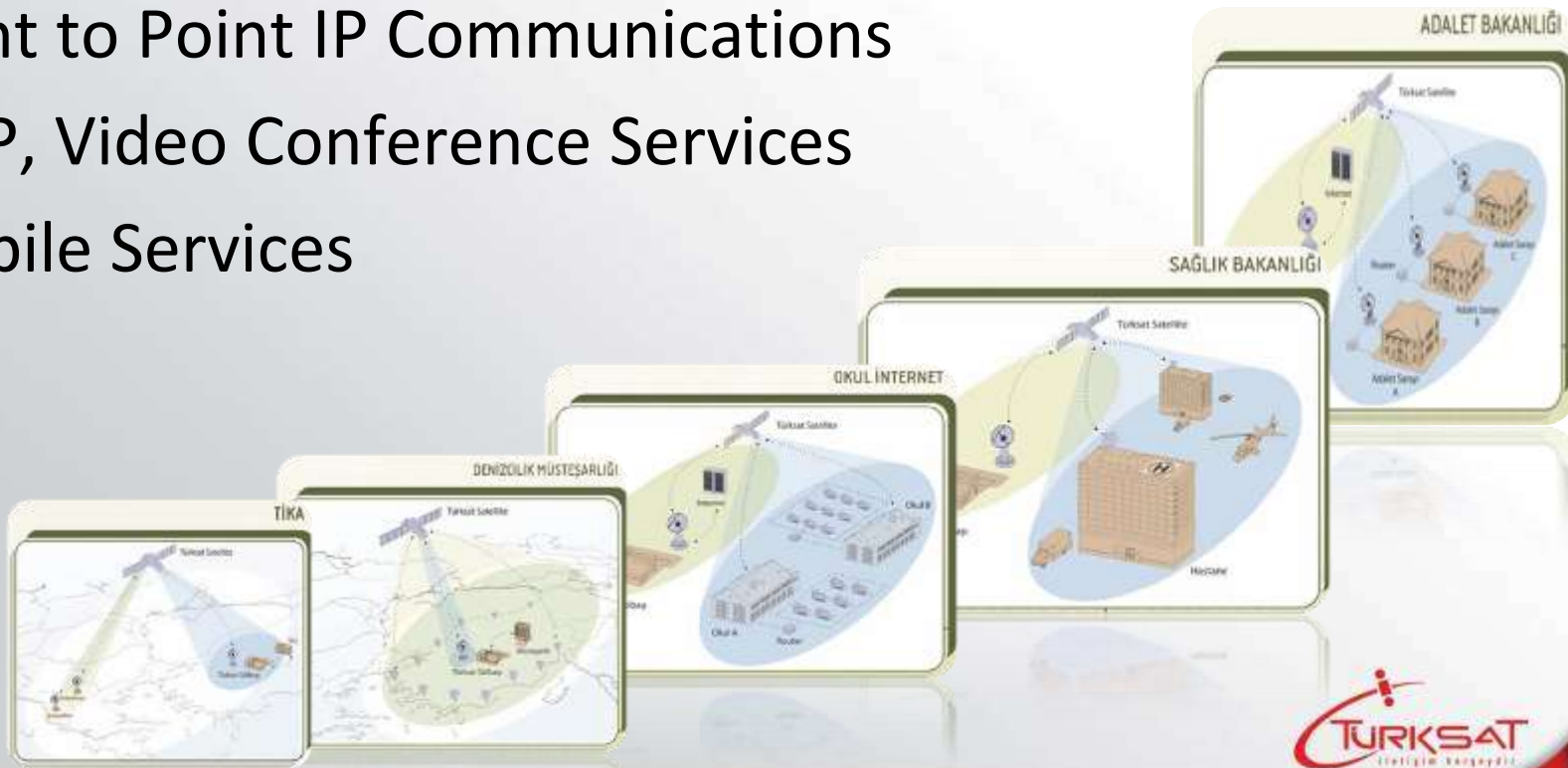
VSAT TOPOLOGY



TurksatVSAT

VSAT (Very Small Aperture Terminal) (0.6 – 2,4 mt)

- Broadband Internet Access
- Point to Point IP Communications
- VoIP, Video Conference Services
- Mobile Services



VSAT SYSTEMS

Now, Turksat has three NOCs work 7/24 over Turksat 3A.



Turksat VSAT



- Ministry of Education VSAT Network

- 5000 Schools Connected
- Broadband Internet Access
- Centralized Management and Security

- Ministry of Health VSAT Network

Ministry of Health uses telemedicine in some Hospitals in Turkey

- This VSAT Network is designed also for emergency communication.



RED CRESCENT VSAT

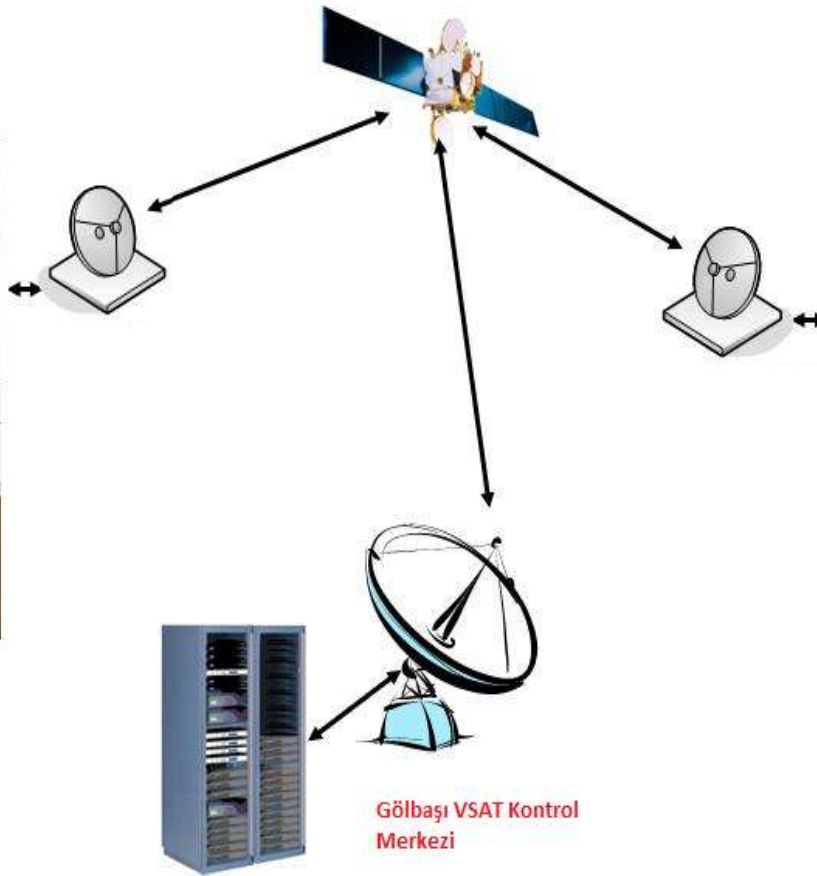
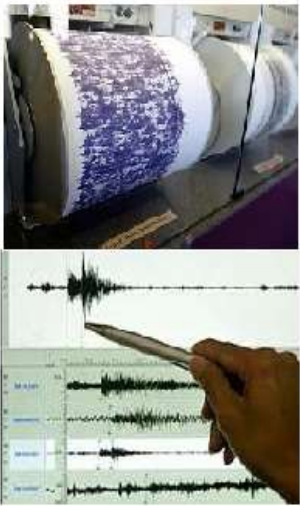
RED CRESCENT has an opportunity to:

- Communicate continuously from everywhere and, everytime at urgent times.
- **VOIP, Internet**



EARTHQUAKE MONITORING SYSTEM

Afet ve Acil Durum
Yönetim Başkanlığı
Deprem İzleme Birimi

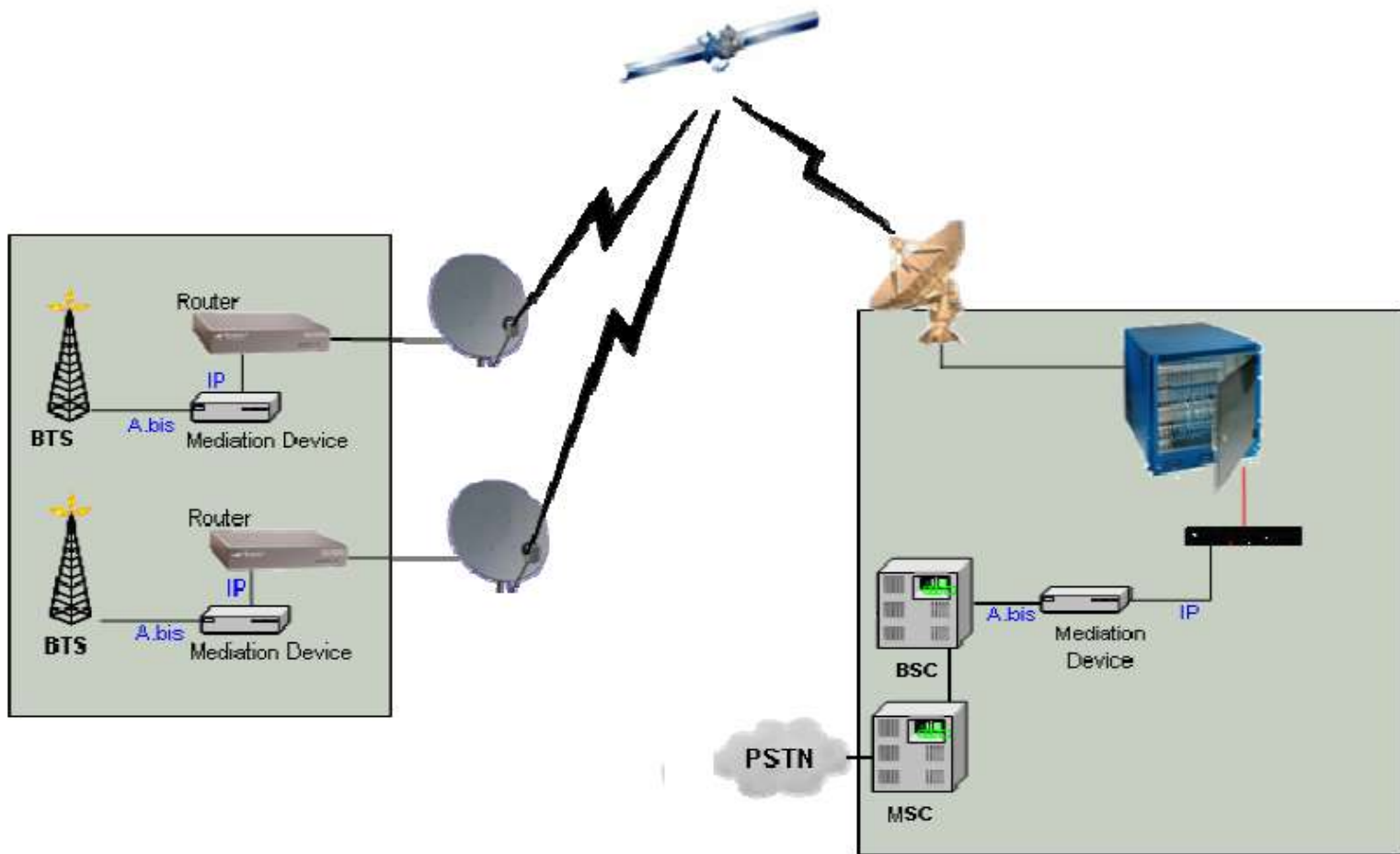


Dış



Deprem İstasyonu İç
Görünümü

GSM LINE



PAKISTAN FLOOD

- TURKSAT is still in Pakistan to provide communication service for Turkish Health Team.



FLYAWAY SYSTEMS

- When land lines are down or overloaded, a portable spacebased solution can save the day
- A portable satellite terminal that supports voice, data transfer, video & two-way communications from a disaster field.



FLYAWAY – VSAT SYSTEMS

- With our full automatic Flyaway Antenna Systems, it is possible to start talking on phone in 30 minutes.



Mobile SATELLITE PHONE

- All governorships have satellite phones provides also internet connection from anywhere and anytime.



Turksat GIS

Collapsed Building (after earthquake)
Port-au-Prince, Haiti
Coordinates: 18-32-50 N / 072-20-37 W



DigitalGlobe QuickBird Natural Color Image
January 15, 2010



Turksat ICT



Thank You

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Director

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