

"Turksat's SatCom and Earth Observation Capabilities/Practices for Disaster Management and Emergency Response"

NİHAT OKTAY
DEPUTY GENERAL MANAGER



Agenda

- Overview
- Disaster Management in Turkey
- Conclusion



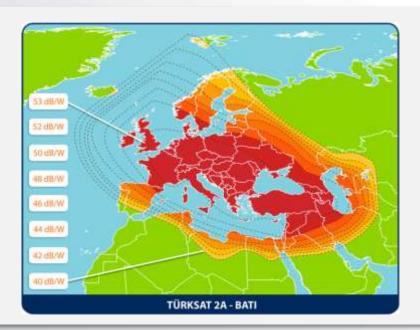
Turksat - Today

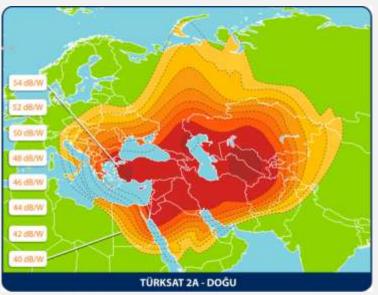


- The Leading Satellite Operator In the Region
- The Major Integrated ICT Services Provider
- The Growing Cable Platform Company
- GIS Services and Earth Observation



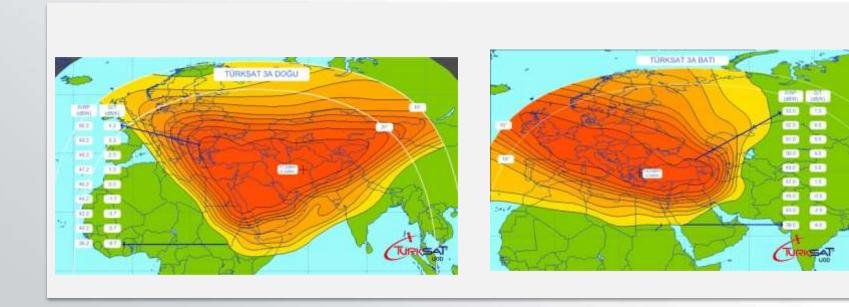
Turksat 2A Coverage Map







Turksat 3A Coverage Map





TÜRKSAT UPLINK CENTERS





Services

- Uplink and Teleport Services
- TV/Radio Broadcast with Turksat satellites
- Emergency Communications
- Broadband Access
- VSAT Applications



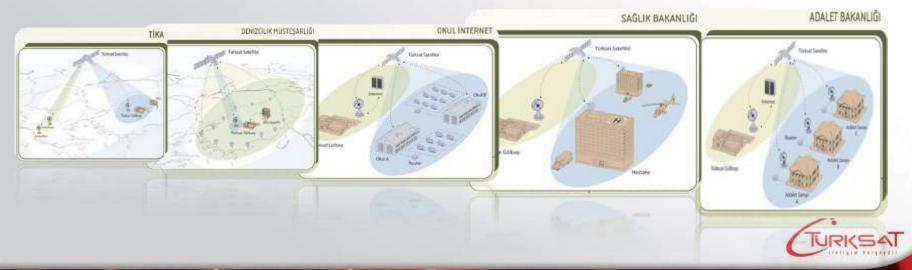




TurksatVSAT

VSAT (Very Small Aperture Terminal) (0.8 – 2,4 mt)

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



Turksat VSAT



Ministry of Education VSAT Network

- 4917 Schools Connected
- Broadband Internet Access
- Centralized Management and Security



Ministry of Justice VSAT Network

- 685 Local Branches Connected
- Working Both As Primary and Backup Line
- Has been Operational for 4 Years



TurksatVSAT for Ministry of Health

Turkish Ministry of Health uses Turksat VSAT in Pakistan for two mobile hospitals after flood disaster.





TurksatVSAT for Turkish Red Crescent





VSAT

- Vsat terminals -Eartquake Monitoring System across the country for Turkish Disaster Management Center
- Developed Satellite based communication infrasutructure for Istanbul Disaster

Management Center





Turksat GIS Services

- GIS Data and Services
- Satellite Imaging,
- Integrated GIS Projects,
- Software Development,





- Interoperability
- Database Management



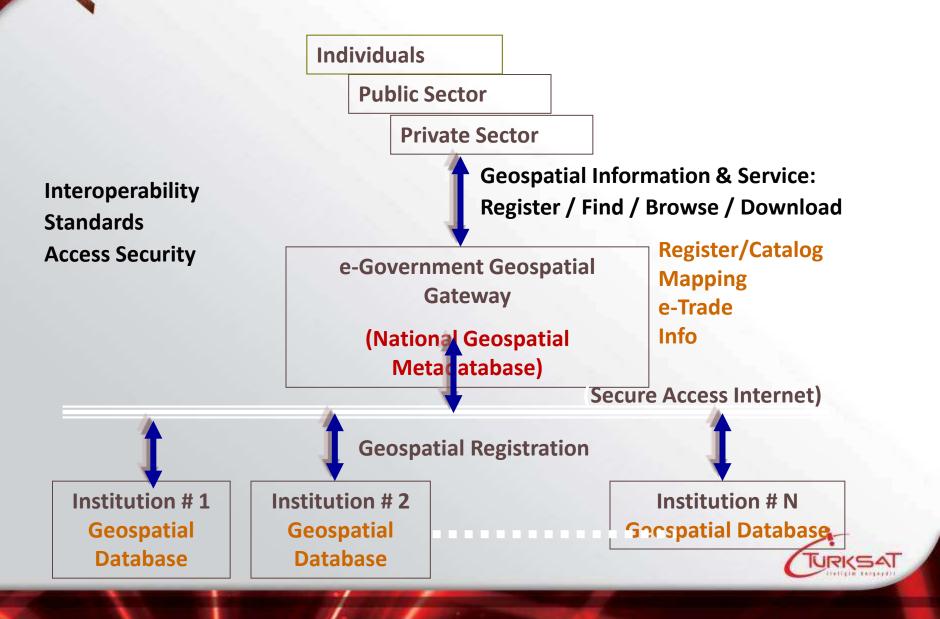
Turksat GIS-Change Detection

Measuring Flooded Areas





NSDI-TR Project (Feasibility Study) (National Spatial Data Infrastructure of Turkey)



ICT Services - TurksatICT

- System Design and Application Development
- Interoperability Solutions
- Disaster Recovery and Back up Center,
- Customized ICT projects for Government,
- Datacenter Design and Development



Facts about Disasters

%75 of the world's population live in the areas affected by one of the known disasters

In the past two decades over three million people have been lost their lives and one million have been affected by natural disasters



in Turkey



cost of the last earthquake(17 August 1999) is about19 billion \$. (TurkeyStatistics)

 The earthquake monitoring and early warning system has been established in istanbul, Ankara and other most populated cities



Disaster Management in Turkey



Disaster risk
management in Turkey is
under the supervision of
the Disaster and
Emergency Management
Body



Conclusion

- Satellite
 - Independent from terrestrial infrastructure
 - VSAT network for emergency response,
- Fiber infrastructure,
 - 3 million home pass capacity
- GIS services and earth observation
- ICT infrastructure,
 - Human Resources
 - Software Development
 - Integrated Solutions
 - İnteroparability







Q & A

NİHAT OKTAY DEPUTY GENERAL MANAGER



