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Satellite: Key Challenges for Governmental Services
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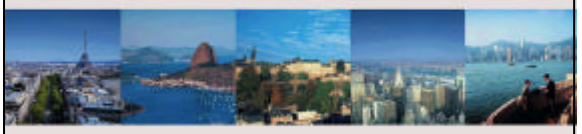

Your Satellite Connection to the World

Disaster management

Devastation

- After the Tsunami occurred, satellite solutions were installed to provide vital communications to civil authorities and Aid workers.
- These solutions included hand held satellite phones, up to large scale satellite data networks.

In many cases, if the planning and provision for satellite services was already in place, many more lives could have been saved after the event.

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Disaster management

Devastation

No nation is safe from disasters. Rich or poor the same problems remain.

- **The devastating Tsunami on December 26, 2004 has highlighted the need for an early warning system that could have prevented the disaster.**
- **If an early warning system was in place before the Tsunami struck, thousands of lives may have been saved.**

The U.S. government has announced plans to implement a $37.5 million Tsunami alert system worldwide relayed by satellites. It will be fully operational by mid-2007.

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Man Made - Terrorism

Examples

- **World Trade Center – 11 September, 2001:**
- There was severe congestion of local telephone switches after the WTC terrorist attack
- However, the US Postal Service had connectivity! The satellite solution provider, Spacenet, allocated extra bandwidth to the private VSAT network of the US Postal Services so that people could use satellite telecommunication in the local post offices
- This demonstrates the flexibility and independence of scalable satellite solutions when standard telephone lines are cut off or overloaded

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Civil Protection Case studies

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Case study-1

- **Pilot under preparation with regional civil protection departments in South European countries**
  - Due to frequent fires, flooding and earthquakes in mountainous areas, the local authorities are setting up a disaster management system via WiFi satellite infrastructure, together with SATLYNX .
  - Applications:
    - Voice over IP (VoIP)
    - Videoconferencing
    - Data transmission

Case Study- 2

- SATLYNX are providing with partners emergency support vehicles and incident command vehicles fitted with mobile VSATs.
- This has included; Oxford County Council's Emergency planning department, Avon Fire Brigade and the West Midlands Fire Brigade.
- Prices for these solutions to retro-fit into vehicles are from Euro 5K to 30K Euro depending on requirement (vehicle extra).
- The monthly service fee is in the region of Euro100 to 1.5K Euro per month depending on the service, the number of users, the region…

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Case Study - 3

- Pilot with SWISSPHONE: application for organisations **with safety tasks**
  - Mobile 2-way satellite solution for emergency services
  - Applications:
    - VoIP
    - Data communication
  - To be deployed in Switzerland and eventually also Austria
  - SWISSPHONE manufactured an easy-to-deploy satellite solution that can be installed in 15 minutes

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Case Study - 3

Swissphone's „FIRECOM" based on SKYSTAR 360E

SWISSPHONE

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Conclusions (1)

- Satellite solutions are easily deployable and simple to use for first responders to an emergency
- Satellites can offer solutiuons to governmental or local area management but for commercial companies too.
- Where satellite solutions are installed, these should be used on a daily basis and not just for back up or emergency.
- The solutions should be scalable
- Governmental and NGO's should work closely with the commercial satellite providers to identify solutions and systems

Advantages:

- Instant communication - saves lives by shortening the response time.
- Human, commercial and financial implication costs are reduced.

Finally:

It is easier to activate system in place than to implement one after the event.

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Conclusions (2)

ASTRA, working closely with its partners, has the experience and global coverage to support disaster relief and emergency management.

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Thank you for your attention

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