

# Keeping people connected, keeping people safe

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*January 18<sup>th</sup>, 2005*

# Agenda

- ❑ Inmarsat and Télécoms Sans Frontières
- ❑ Technology for disaster relief
- ❑ Saving lives in times of war, bringing crew home to safety
- ❑ Tsunami warning centers
- ❑ Conclusion

# Inmarsat and Télécoms Sans Frontières

- ❑ When disasters occur, terrestrial infrastructure is first casualty
- ❑ Télécoms Sans Frontières provides rapidly and anywhere in the world flexible, reliable and highly mobile technology
  - Enabling cooperation and coordination between rescue organisations
  - Reuniting displaced families
- ❑ Inmarsat sponsors Télécoms Sans Frontières technologically and financially
- ❑ 210 NGOs benefited from TSF services in 2003/2004



# Technology for disaster relief

## Tsunami in South East Asia / 26 December 2004

- ❑ Only one day after the first waves, satellite lines set up by TSF at a coordination center and a local hospital in Hambontota in southeast Sri Lanka
- ❑ High-speed connection set up by TSF at a telecoms unit within the UN coordination center in Banda Aceh
- ❑ Public phone booths with satellite phones set up by BSNL in Andaman and Car Nicobar islands
- ❑ Similar equipment sent for deployment in far-flung areas
- ❑ 3 teams with 7 Inmarsat terminals headed for Kamrota, Katchal, Terassa, and Champin Island



# Technology for disaster relief

Typhoons in Philippines / 30 Nov – 04 Dec 2004

- ❑ Over 1,000 deaths and tens of thousands homeless
- ❑ Typhoon strikes resulted in destruction of terrestrial fixed and mobile communications links
- ❑ Communications centre with voice and high-speed Internet connections setup in the town hall



# Technology for disaster relief

**Flooding in Haiti – Santo Domingo/ 25 May - 18 Jun 2004**

- ❑ Heavy rains caused major flooding, resulting in totally isolated areas
- ❑ 2,311 families benefited of Internet and satellites telephone centres established by TSF
- ❑ Internet data transmission and voice made possible via Inmarsat Mini-Ms and GANs in Jimani, Thiotti and Mapou



# Technology for disaster relief

## Morocco Earthquake – Feb 04

- ❑ 6.3 on the Richter scale
- ❑ Worst quake since 1960
- ❑ Remote mountain villages with no terrestrial mobile infrastructure
- ❑ Inmarsat Mini-M and Regional BGAN used for setup data centers
- ❑ Reuniting loved ones



# Technology for disaster relief – Télécoms Sans Frontières' missions

South East Asia	Dec 04	Tsunamis
Philippines	Nov 04	Typhoon
Haiti - S.Domingo	May 04 – Jun 04	Floods
Morocco	Feb 03 – Jan 04	Earthquake
Iran	Dec 03 – Jan 04	Earthquake
Portugal	Aug 03	Fires
Algeria	May – Jun 03	Earthquake
Iraq	Apr – Oct 03	Conflict
Angola	Sep 02	Evaluation
France	Sep 02	Floods in Gard
Germany	Aug 02	Floods
Venezuela	Jul – Aug 02	Floods
Syria	Jun 02	Floods
Rwanda/DRC	Jan – Feb 02	Earthquake
Afghanistan	Nov 01 – Feb 02	Conflict

Visit TSF's web site at

[www.tsfi.org](http://www.tsfi.org)

# Technology for disaster relief – Télécoms Sans Frontières' missions – *Cont'd*

Rwanda/DRC	Jan – Feb 02	Earthquake
France	Sep 01	Explosion of factory "AZF"
Peru	Jun – Jul 01	Earthquake
Kosovo	Apr 01	Conflict
India	Jan 01	Earthquake
El Salvador	Jan 01	Earthquake
Congo	Nov 00 – Jan 01	Radio assistance for UNHCR
Guinea	Oct – Dec 00	Radio assistance for UNHCR
Italy	Oct 00	Floods
Timor	Sep 00	Radio assistance for UNHCR
Eritrea	Jul 00 – Jan 01	Radio assistance for UNHCR
France	Nov 99	Floods in Aude
Balkans	Jun 98 – Jul 00	Conflict
Turkey	1999	Earthquake

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# Technology for disaster relief – *NGOs operating in Iran and relying on TSF*

- **Action Against Hunger - Spain**
- **Action contre la Faim - France**
- **AKUT Turkish SAR**
- **Alabama Disaster Relief**
- **Ambassade de France**
- **Architectes de l'urgence - France**
- **Armenian Rescue Group**
- **ASB - Germany**
- **Austrian Armed Forces**
- **Austrian Disaster Relief Unit**
- **Brigada Internacional de Rescate Tlateloco - Mexico**
- **Bulgarian Fireman Brigade**
- **Caritas Ireland**
- **China Team**
- **Civil Defence of Turkey**
- **Comité d'Aide Medical - Italy, Switzerland, France**
- **Comunidad de Madrid**
- **Convoy of Hope- USA**
- **Cordaid - Austria, Netherlands, USA**
- **Croix-Rouge Francaise**
- **Danish Rescue Team**
- **Dart - USA**
- **Deza - Switzerland**
- **ECHO**
- **Elam ministry - UK**
- **Emergency Architects**
- **Finnrescue - Finland**
- **Food for the Hungry - Korea, USA**
- **Georgian Rescue Team**
- **Global Relief - South Africa**
- **GNI – South Korea**
- **GOAL – Ireland**
- **Hungarian Baptist Aid**
- **I.S.O. – Iran**
- **ICCEMA**
- **IFSO - Iran**
- **IRIN – UN**
- **Islamic Relief – UK**
- **JTS – South Korea**
- **KFHI – Korea**

- KFWA – Korea**
- Korea International C.**
- Korea National 119 Rescue Services**
- Korean Foundation for World Aid**
- MDM – France, Spain, Greece**
- MEDAIR – UK**
- Mercy Corps – Bangladesh, UK, USA**
- Merlin - Holland, UK**
- Ministry of Foreign Affairs – Spain, Iran**
- Ministry of Health – Turkey**
- Ministry of the Interior – Slovak Republic**
- MSF – France, Italy**
- Muslim Hands – Pakistan**
- National Rescue Team of Slovakia**
- NFA – Taiwan**
- NICCO – Japan**
- Norwegian Church Aid**
- Nuevo Mundo – Cyprus**
- Oxfam – Canada, UK, USA**
- PCUAC – Mexico**
- People in Need – Czech Republic**
- People in Peril – Slovak Republic**
- Polish Humanitarian Action**
- Polish Rescue Team**
- Red Crescent – Iran, Spain**
- Red Cross – Spain**
- Rescue South Africa**
- Samaritans Puese – USA**
- SARUV**
- Save The Children – Norway, UK**
- SCF UK**
- SCUK - UK**
- SCUS – USA**
- SDC-SHA – Switzerland**
- Secours Islamique – France**
- Sivil Savunma – Turkey**
- South African Embassy**
- SPI – USA**
- Taiwan Rescue Team**
- Taiwan Usar**
- TEMAD – Turkey**
- The Frontiers – Korea**
- THW – Technical Relief Agency – Germany**
- TRAC – Turkey**
- Turkey Medical Team**
- Turkish Civil Sergeant Team**
- UNDP – India**
- UNICEF – Afghanistan, France, Switzerland, USA**
- USAID DART**
- WFP – Iran**
- World Vision – Afghanistan, Canada, Eritrea, Germany, Iran, New Zealand, UK, USA**

# Saving lives in times of war

- ❑ Inmarsat and the media
- ❑ A crew under fire in a remote location
- ❑ Equipment destroyed
- ❑ Touching base – with Inmarsat's GAN



# Saving lives in times of war

“To be honest with you, if it wasn’t for Inmarsat’s equipment, I don’t think we would have made it back home. We could have been imprisoned until now, or even shot dead because the moment Basra fell, there was no control over the soldiers and in the chaos we would likely have been shot on the spot. Inmarsat’s GAN was the only solution for us at the time because it was our only way to contact base,” said Ali Safa, Engineer, Al Arabiya

# Tsunami warning centers

- ❑ Tsunami Warning Center detects tsunami activity and issues alert
- ❑ Alert is broadcast, free of charge, and instantly to all Tsunami Watch Centers and ships around the region. Broadcast takes place via Inmarsat-C or mini-C satellite terminals
- ❑ Tsunami Watch Centers take necessary measures for evacuations
- ❑ Example Pacific Tsunami Warning Center  
<http://www.prh.noaa.gov/ptwc/>

# Conclusion

- *Supporting aid and relief efforts*
- *Rebuilding communities*
- *Life-saving technology*



# **Inmarsat**

# **The Total Communications**

# **Network <sup>TM</sup>**