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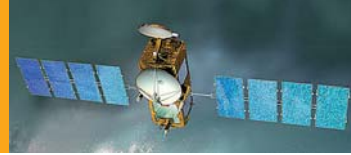


emergesat



a **humanitarian** crisis management **tool**

Emergesat: a humanitarian container



Weight: 400 kg
Dimension: 2 m x 1.5 m x 1.6 m
Volume: 4.8 m³



Services

- ▶ **Knowledge of the crisis situation**
acquisition and sharing of information, global overview of the crisis
- ▶ **Relief management**
coordination and monitoring of the relief teams
- ▶ **Medical assistance**
identification of victims, first aid, population control, monitoring of epidemics
- ▶ **Resources management**
food stocks, drinking water supplies and treatment of waste water, logistic resources
- ▶ **Management of essential civil engineering requirements**
contribution to the identification of urgent repairs required for public buildings, roads, railway infrastructures, landing strips, etc.
- ▶ **Population support**
distribution of aid, census work, information, dealing with the dead and assistance with the search for missing persons

Emergesat is a dedicated container for relief teams working on the site – civil security, NGO, international forces, etc.

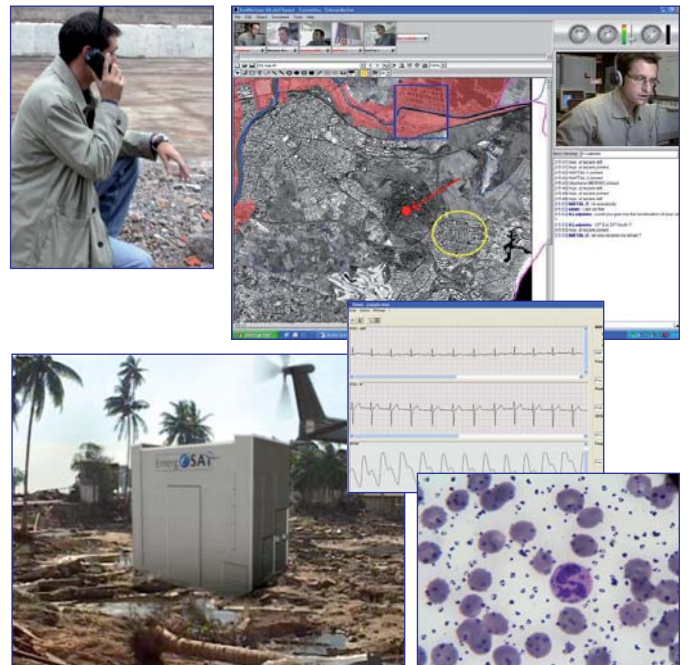
Emergesat provides satellite-based communication, location and data management resources used to:

- ▶ coordinate the work of the teams in the field,
- ▶ communicate in situ and with remote control centres,
- ▶ manage crisis situation coordination logistics.

Transportable, adaptable and easy to use

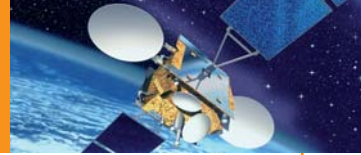
The container is designed to be:

- ▶ rapidly deployable and operational as soon as the relief teams arrive,
- ▶ easy to bring in by line aircraft, helicopter and truck,
- ▶ configurable according to the nature of the disaster,
- ▶ simple to use, user-friendly and multilingual,
- ▶ all-weather, strong, lightweight, air-conditioned and autonomous.



Emergesat responds equally to primary relief needs, and requirements for the management of crisis follow-up actions. It can be enriched by the incorporation of additional services as necessary.

Humanitarian emergency situations



Year in, year out, major humanitarian crises occur throughout the world as a result of disasters of either industrial or natural origin (tsunamis, hurricanes, quakes, etc.), or terrorist attacks.

In these circumstances, conventional means of communication are frequently knocked out. This induces an improvisation phase which impedes relief team access to, and their coordinated intervention on the site of the disaster.

It is now absolutely essential to be able to provide exceptional solutions for these extreme situations.

Telecommunications, Earth observation and location/navigation satellites can be called into play, at a moment's notice and anywhere in the world, to provide assistance for humanitarian actions.



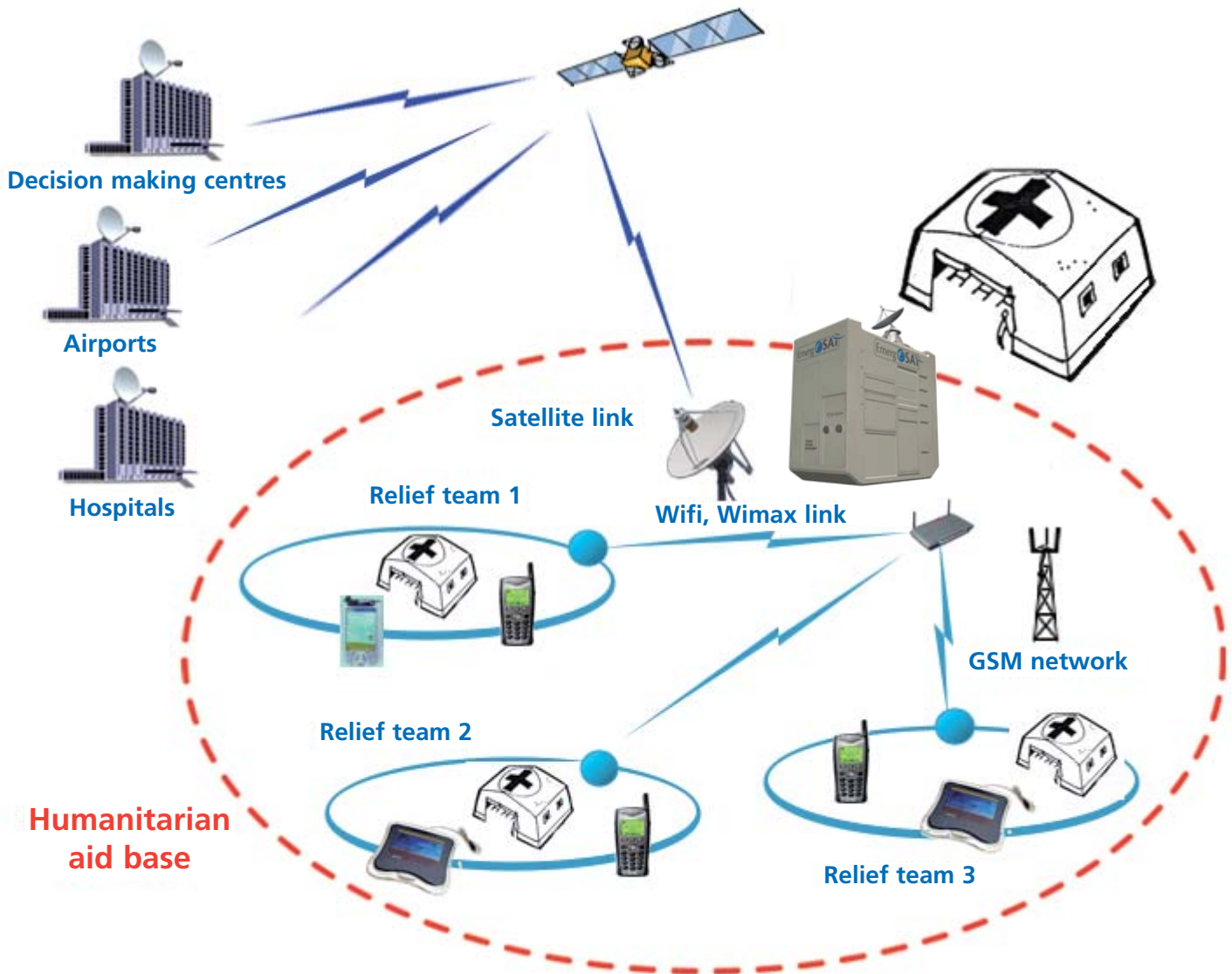
Key factors for crisis management

- ▶ rapid intervention and assessment of needs to contain the humanitarian consequences of a major crisis,
- ▶ provision of secure communications in the field and with remote centres (control units, hospitals, airports, etc.),
- ▶ sharing of information and comprehensive knowledge of the disaster for all teams in situ,
- ▶ coordination and monitoring of the relief teams to achieve maximum effectiveness for the relief provided,
- ▶ recourse to decision-making aid services.



emergesat
a space-based response for major
crisis management

A communication and information exchange tool



Vertical and horizontal communications

► with rear support bases

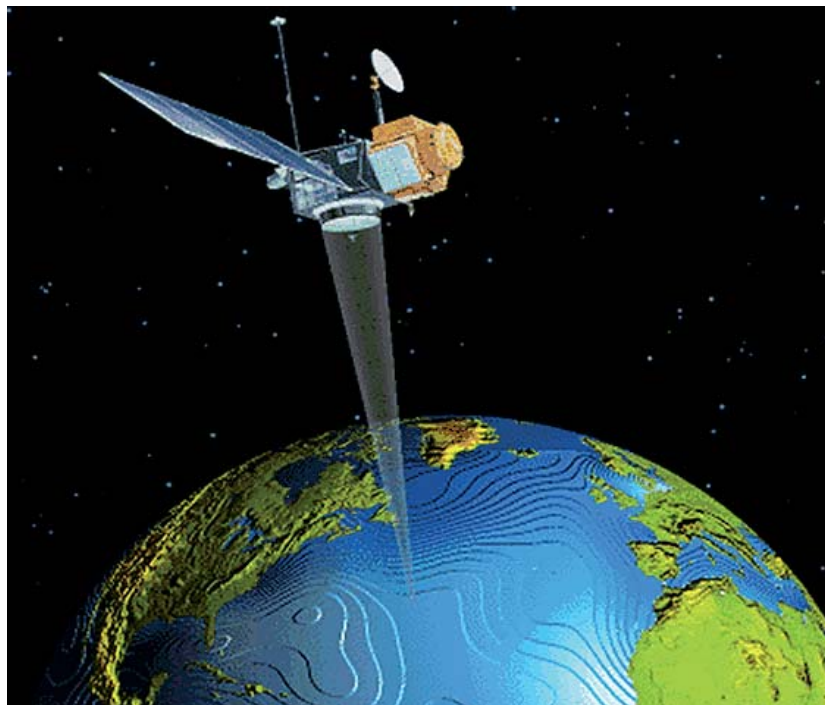
Emergesat provides satellite link communication and data exchanges with the decision-making centres and remote services (hospitals, meteo-logical, oceanographic and cartographic centres, etc.).

► in the field

Emergesat establishes a communication and data exchanges network between the various relief teams, using close range (< 50 km) communication technologies: GSM, Wifi and Wimax..

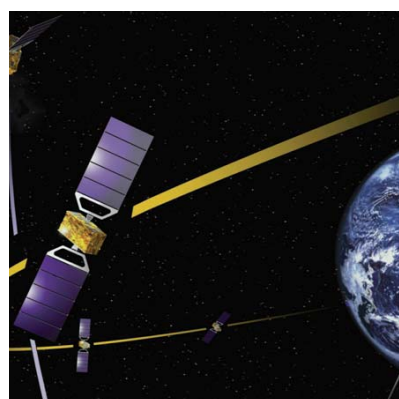
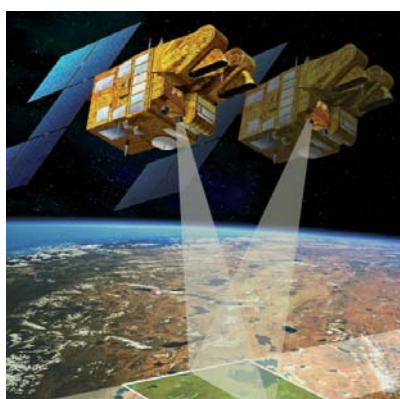


Contribution of space-based technologies to humanitarian actions



Emergesat uses satellite-based technologies which are available at all times anywhere in the world, in the areas of:

- ▶ **telecommunications**
secure communication and data exchanges with the decision-making centres and remote services located outside the disaster zone (internet, visioconference, telemedicine, tele-epidemiology, etc.)
- ▶ **Earth observation**
meteorology, oceano-graphy, cartography, with activation of the International Charter on Space and Major Disasters*
- ▶ **location/navigation**
monitoring of relief teams, logistics, etc.



*International Charter on Space and Major Disasters

Founded by CNES and ESA in 1999 and later joined by other space agencies, the International Charter sets out to provide a unified system for the acquisition and delivery of satellite data in the event of disasters of a natural or man-induced origin, through the intervention of authorised users. Each member agency has undertaken to provide resources in support of the Charter, and thus contribute to attenuating the effects of major disasters on populations and property.

<http://www.disasterscharter.org/>



A universal humanitarian aid tool

The **emergesat** humanitarian tool applies the space-based technologies of telecommunications, Earth observation and location/navigation satellites, to achieve efficient and effective coordination of international assistance in the event of a major crisis.

Brought in rapidly to a disaster site by helicopter, **emergesat** provides all the in situ teams, irrespective of nationality, with general information on the crisis situation, assistance with team coordination and other decision-making aid services.

Emergesat is a federating tool, proposed by France and open to partnerships and cooperation arrangements, designed to be at the service of all world wide.



Founding members



www.cnes.fr



www.alcatelaleniaspace.com



www.remifor.fr

Associate partners



www.medes.fr



www.airfrance.fr



www.irit.fr

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"Superimposition of images of the Tsunami and our planet viewed from space, convinced me that space-based resources can make an essential contribution to the management of human crises such as epidemics, natural and industrial disasters, etc.

In response to my request of January 2005, the leading French enterprises and institutions agreed without hesitation to pool their skills and expertise, recognised round the globe, to collaborate in the design of an innovative technological tool at the service of humanitarian aid actions.

Communications, networking, data gathering and anticipation represent as many keys to the success of coordinated actions in this domain.

I hope that emergesat will be in a position, in the very near future, to support and enhance the work of all players who come to the aid of disaster victims and are involved in the saving of human lives."

Nicole Guedj
former Minister,
representing the French President

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www.emergesat.org