Universitat Autònoma de Barcelona

THE JOHANNITER International Assistance

SECT Secretaria de Estado de Ciência e Tecnologia

AMAZONAS GOVERNO DO ESTADO

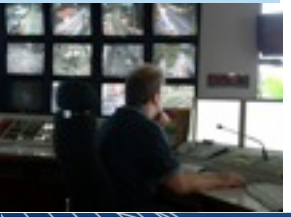
TELECOM

unitar UNOSAT

KONGSBERG

UEA UNIVERSIDADE DO ESTADO DO AMAZONAS

D.M.A.T

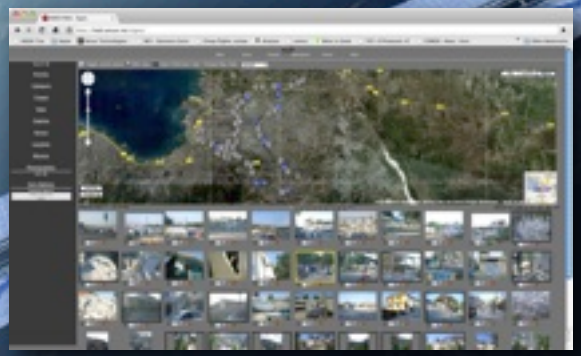


WHAT IS GEO-PICTURES

GEO-PICTURES is an innovative integrated Satellite & Space based initiative, targeted to save lives, environment and infrastructures during emergencies and disasters. By optimizing access to visual and sensor data on *what* is happening, *where* and *when*, it provides substantially improved situational awareness, and gives decision-makers a better basis for rapid decisions.

GEO-PICTURES involves users such as United Nations, the EU Civil Protection Mechanism and the Government of Amazonas in Brazil. It establishes a new dimension in humanitarian and environmental emergency management.

Initiated and lead by AnsuR of Norway, the other partners, listed left, are found in Switzerland, Brazil, Germany, Spain, Austria and Norway. In addition to the substantial commitment and own effort by the partners, the collaborative GEO-PICTURES project is also supported by the European Commission under the Seventh Framework Programme.



geo pictures

geo-pictures.eu

A Collaborative Project
under EU's Seventh Framework Programme
Theme 9: FP7-SPACE-2009-1

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GEO-PICTURES: GMES and **E**arth **O**bservation combined with **P**osition based **I**mage and sensor **C**ommunications **T**echnology for **U**niversal **R**escue, **E**mergency and **S**urveillance

Rapid access to observations

GEO-PICTURES delivers an application suite that enables the disaster responders to be connected to command centres on-site and around the world in a real-time, location based, two-way information flow. GEO-PICTURES manages images, video and in-situ data and provides field users with protection and security through always-on connections with rapid response and back-up teams. Sensor measurements giving early warning for biological and medical hazards are also included.

GEO-PICTURES and its associated information will be available to the full humanitarian community within very short timeframes—typically minutes— after the field data has been collected.

GEO-PICTURES aims to insure integration of any kind of collected data supplied by professional rescue personnel, unmanned autonomous systems, and affected population. Space based optical and radar images are also incorporated.

Small lightweight equipment based on the latest mobile technology will be designed as an all-in-one tool for rapid assessment.

Major global impact

GEO-PICTURES focuses on directly improving global humanitarian and environmental disaster management, and to help harmonize the use of geo-information in operations. Our objective is to develop complete solutions, incorporating technology, infrastructure and procedures.

We supply rescue- and emergency teams with an integrated service platform, hosted by United Nations (UNOSAT-UNITAR) on the CERN campus in Geneva. Here information from global humanitarian and environmental disasters and emergencies are processed and fed back to the platform in the form of situational maps, for example. With the UN directly involved both as users, service provider and system integrator for this platform, we secure a high level of impact, attention and long-term strategic commitment to the project.

This integration takes place and is supported by UN Office for the Coordination of Humanitarian Affairs (UN OCHA) who is the global coordinator during humanitarian emergencies.

The European Commission has Standard Operating Procedures (SOP) for direct interaction and collaboration with OCHA. Thus, the integrated service platform is in line with both EU and UN policies on coordination and collaboration during major emergencies.

Saving lives and environment

The main objective of GEO-PICTURES is to save lives and the environment; both natural and man-made. We know that emergencies and disasters challenge our perception of what has happened, where, and when. Near real-time availability of in-situ assessments during emergencies is difficult to obtain due to lack of proper communication and overall solutions. The availability of this information—combined with updated satellite imagery—could change the way the world manages and prevents humanitarian and environmental emergencies.

Due to the increased efficiency of operations, GEO-PICTURES will also increase the security and survivability of the affected population in natural and complex emergencies, as well as the security of international and national humanitarian early responders.

GEO-PICTURES has already been identified to make a significant impact in the coordination and management of one of the most strategic regions for the socio-ecologic stability of the planet: The State of Amazonas. This is the federative unit with the largest forest reserve on the planet. It also represents 10-11% of the planet's surface water resources and 12% of all the tropical wet forest reserve.