



## **Innovative Applications of EGNOS for prevention and management of environmental emergencies**

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EGNOS (European Geostationary Navigation Overlay Service) could be used to send alert messages in order to prevent and manage natural and anthropic environmental disasters.

The aim is to avoid or to reduce the total human lives loss and to minimize the impact on terrestrial infrastructures caused by environmental disasters.

This could be done by means of a User Platform able to receive real time data generated by a network of in situ geodetic and geofisics sensors, process them and detect diffrent kind of environmental events (like landslides, flooding, earthquakes, fires, volcanic eruptions, tsunamis etc.)

The System should be able to receive also satellite remote sensed data in order to characterize the events.

The Platform will, in case of event, generate the alert messages and incapsulate them into the EGNOS SIS (Signal In Space)structure.

These alert messages will be received by end user terminals with a GPS/EGNOS card and wireless access to internet able to visualize the georeferenced environmental data and decode the messages. The End Users could be civil users, like tourists, travellers and so on or Search and Rescue (i.e. Civil Protection) Teams.