SEOCA

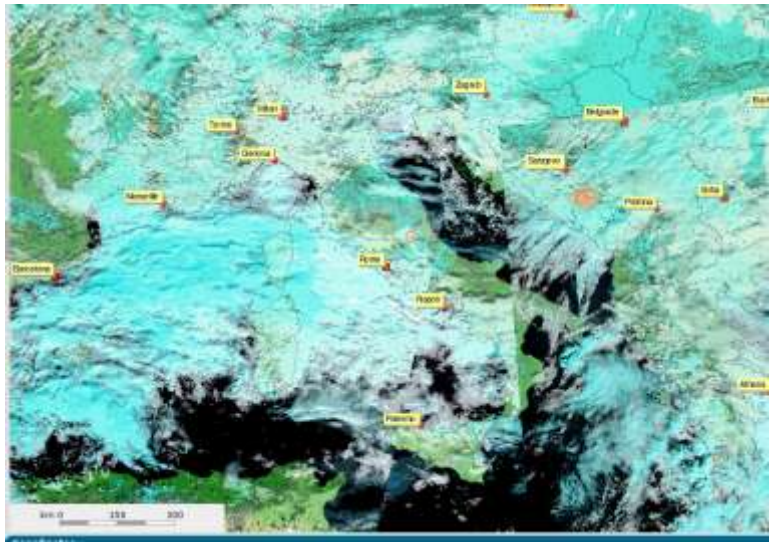
aratos tech
aratos technologies s.a.
downstream value-added services

Aratos Disaster Control
An integrated system for disaster management using EO satellite data

Aratos Technologies S.A.

Brief Description

- Aratos Disaster Control™ is an online GIS application used to graphically represent Earth Observation (EO) data and designed to deliver effective Disaster and Environmental Management Solutions



Concept & Objectives

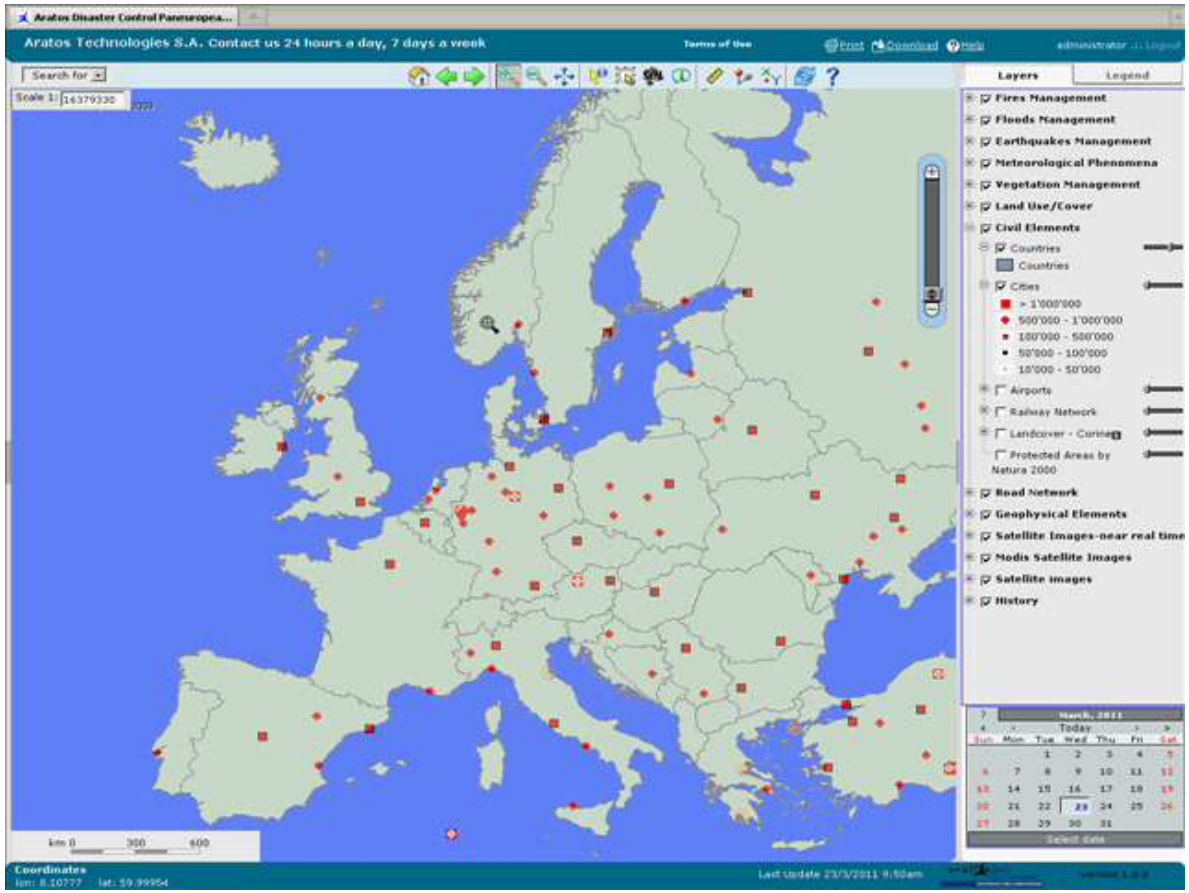
- The main objectives of the Aratos Disaster Control™ system is to allow users to
  - monitor their area(s) of interest remotely and across a variety of different parameters
  - assess the environmental and weather status of their area(s) of interest and their variations across time
  - in time receive concrete and easy-to-access informative alerts upon upcoming and/or occurring crisis
  - optimize Civil Protection Practices by providing innovative technical solutions to cover and support disaster management scenarios

Basic Technical Overview

- Aratos Disaster Control™ is composed of an amalgam of different technologies combined in an integrated architecture. Such technologies include:
  - GIS Mapping
  - Web applications
  - Earth Monitoring via satellites
  - Complex processing and interpretation of the acquired data
  - Forwarding real-time alerts to the respective end-users

  - Aratos Disaster Control™ receives satellite data from the European Organization for the Exploitation of Meteorological Satellites (**EUMETSAT**)

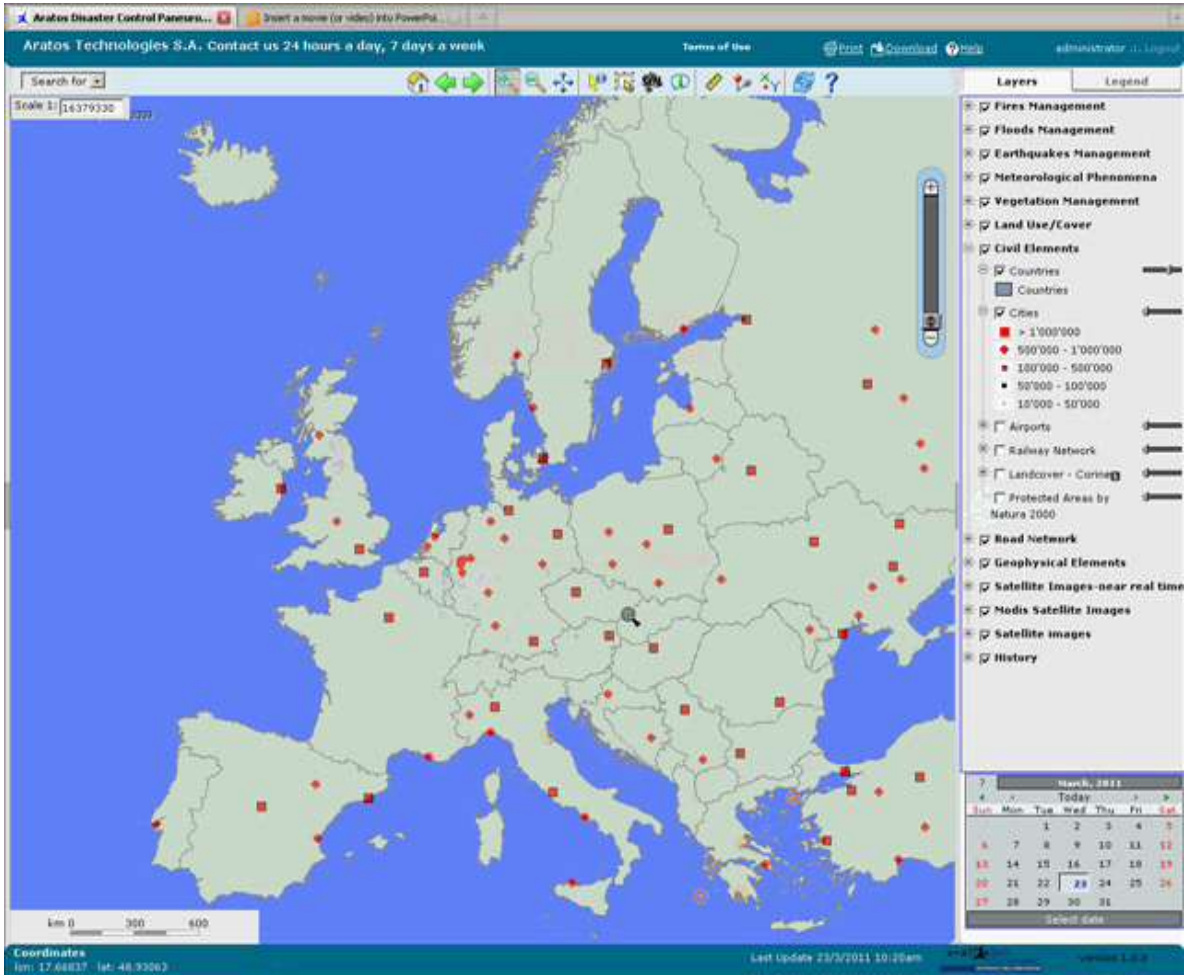
Fire Management



- Depiction of fire points
- Fires are detected by MSG, envisat, aqua and terra satellites
- Ground Temperature from MSG satellite
- Fire Danger Maps

www.aratos.gr

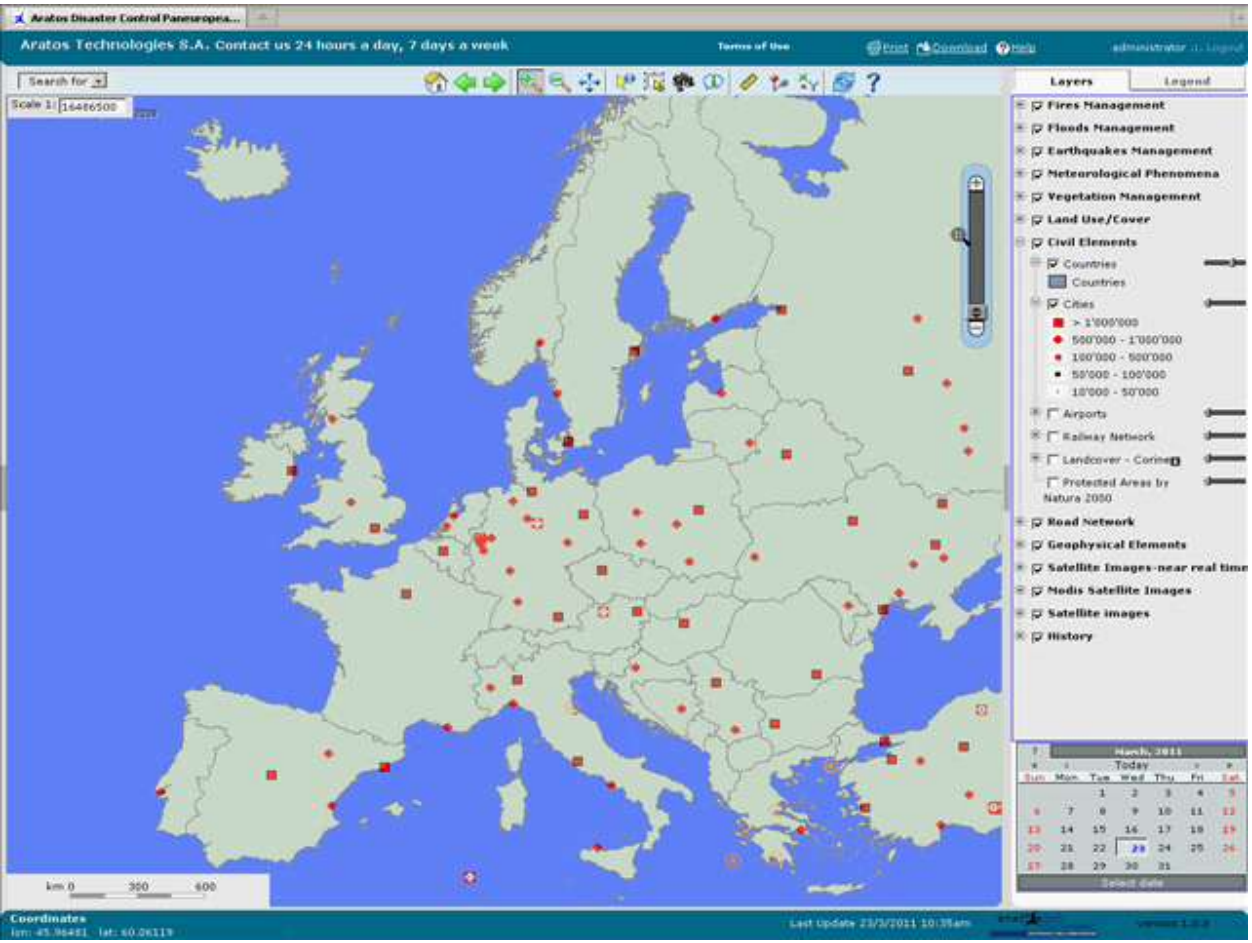
Floods Management



- Precipitation index (mm/hr)
- Cloud Cover
- Landslides (after 1,3 and 5 days of rain)
- Thunderstorm Risk

www.aratos.gr

Earthquakes & other phenomena

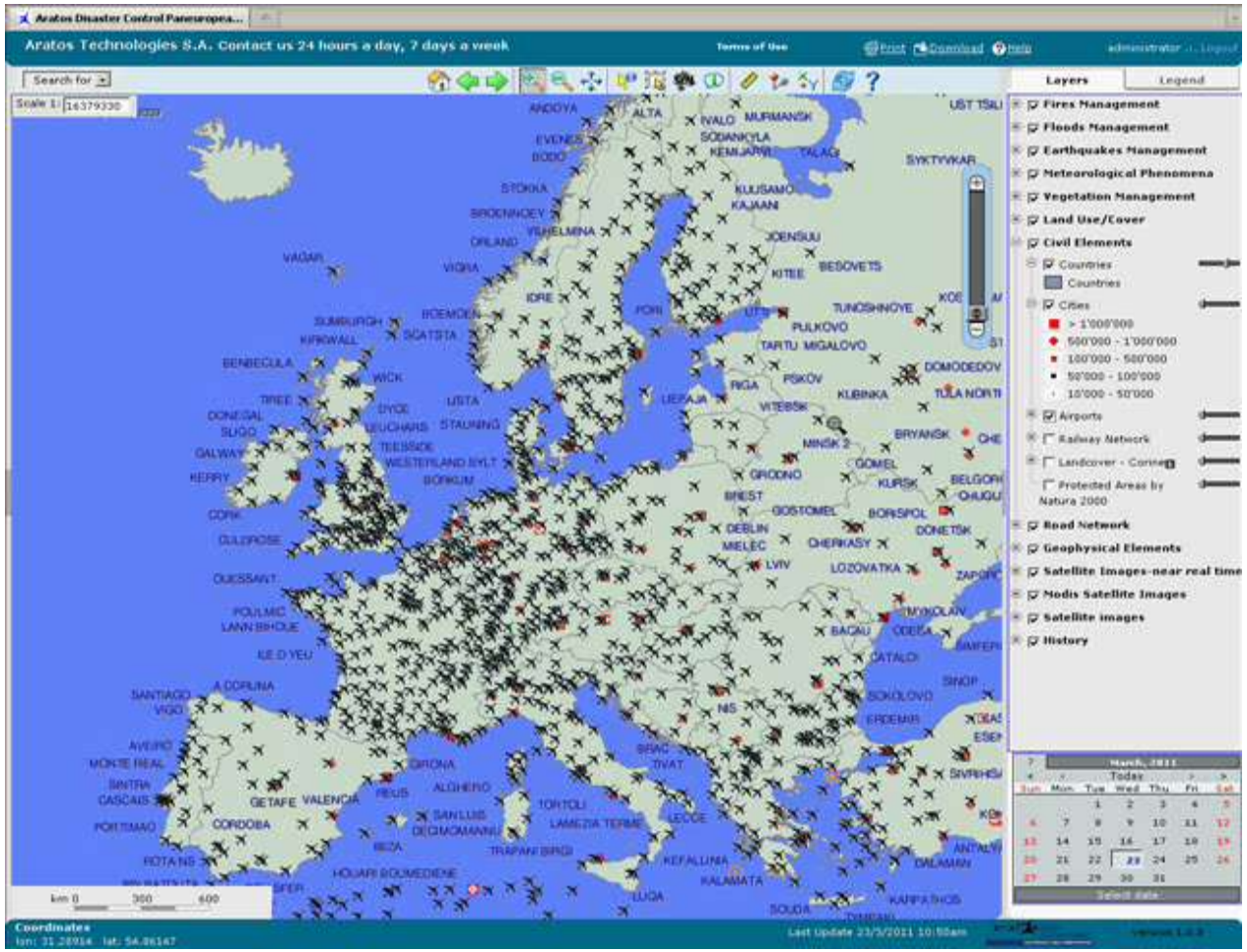


- Earthquakes activity
- Archive of earthquakes incidents
- Ultraviolet Index
- Wind direction and velocity
- Ozone Concentration

etc.

www.aratos.gr

Civil and geophysical elements

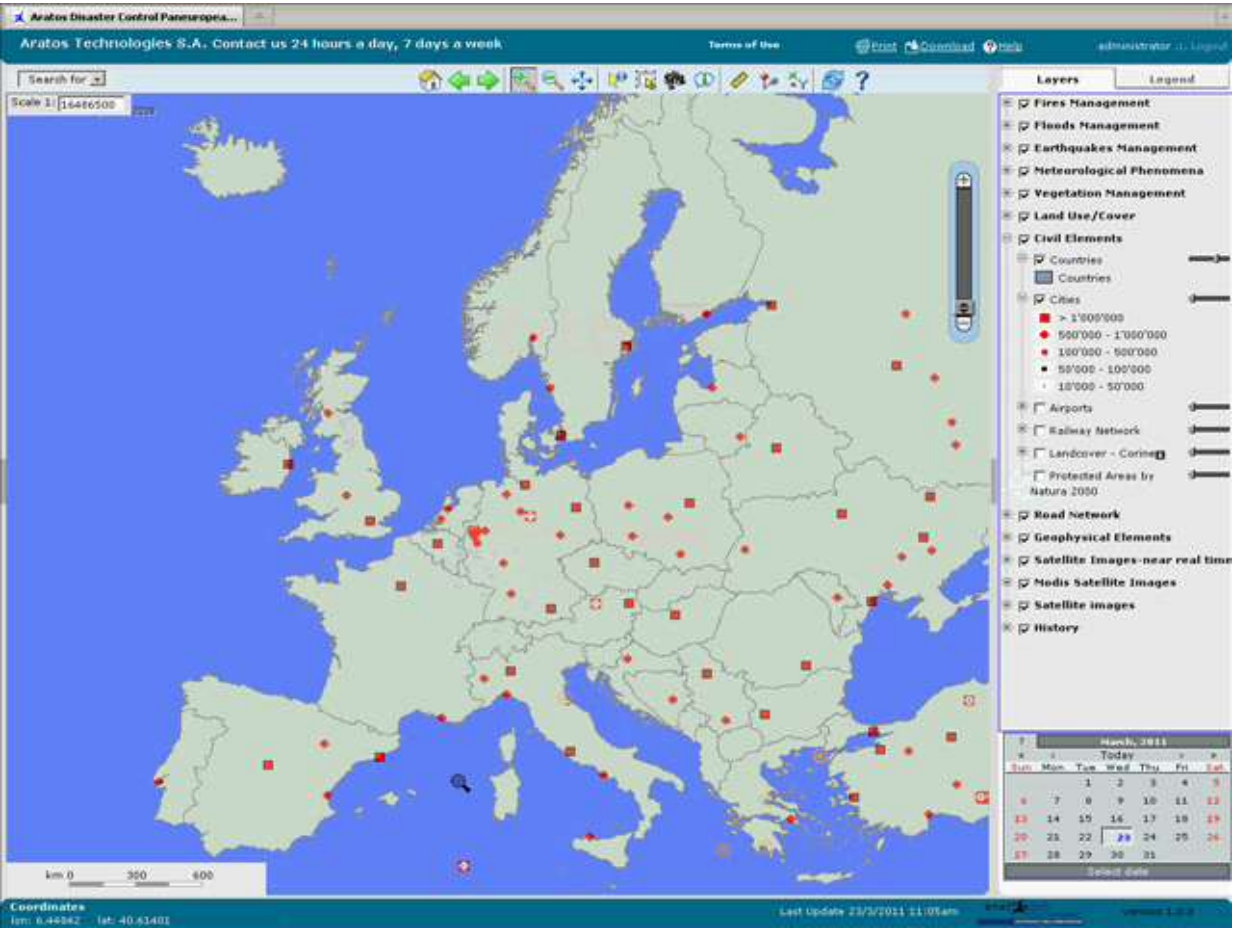


- Land Use/Cover
- Road and Railway Network
- Topography
- River/Lakes
- Slope
- Soil erodibility
- Water management

etc.

www.aratos.gr

Near Real Time Satellite Images



- Aqua and Terra
- Aqua and Terra NDVI (normalized difference vegetation index)
- Aqua and Terra Combination of 7,2,1 bands
- Blue Marble
- Landsat Images
- Meteosat Images

www.aratos.gr

Contact Details

Nikos Bogonikolos, PhD

Giorgos Kostopoulos, PhD

nbogonikolos@gmail.com

gkostop@aratos.gr

www.aratos.gr