



European Fire Guard Alarm System

Space Downstream Services 2010 Conference

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www.aratos.net

Aratos Technologies S.A.

- Founded in 1995 and is one of the first European downstream value-added services companies in the space sector.
- Provides downstream value added services in the sectors of:
 - Disaster Management
 - Environmental Protection
 - Agricultural Monitoring
 - Land Use and Urban Planning
 - Security

Aratos Technologies S.A.

- Provides services based on the integration of:
 - Satellite Earth Observation Data
 - Satellite Navigation Data
 - Satellite Communication Data
- Addresses the following areas of interest:
 - EO Technology
 - EO Data Fusion Processing Techniques
 - M2M Systems Distributing EO Data
 - Web-based GIS Technology

European Fire Guard Alarm System

- We have envisaged the deployment of an end-to-end system providing private end-users with:
 - Fire Detection Services
 - Early Warning Services
 - Determination of the direction of fire propagation
 - Determination of the distance between the current position of the fire spot and the end-user's facilities
 - Prediction of the fire propagation orientation.

Our Idea & Differentiation

- Personalized fire detection and alerting services to private end-users and not to governmental authorities.
- Use of satellite-based data instead of data derived from terrestrial optical cameras and sensors.
- Exploitation of thermal and meteorological data.

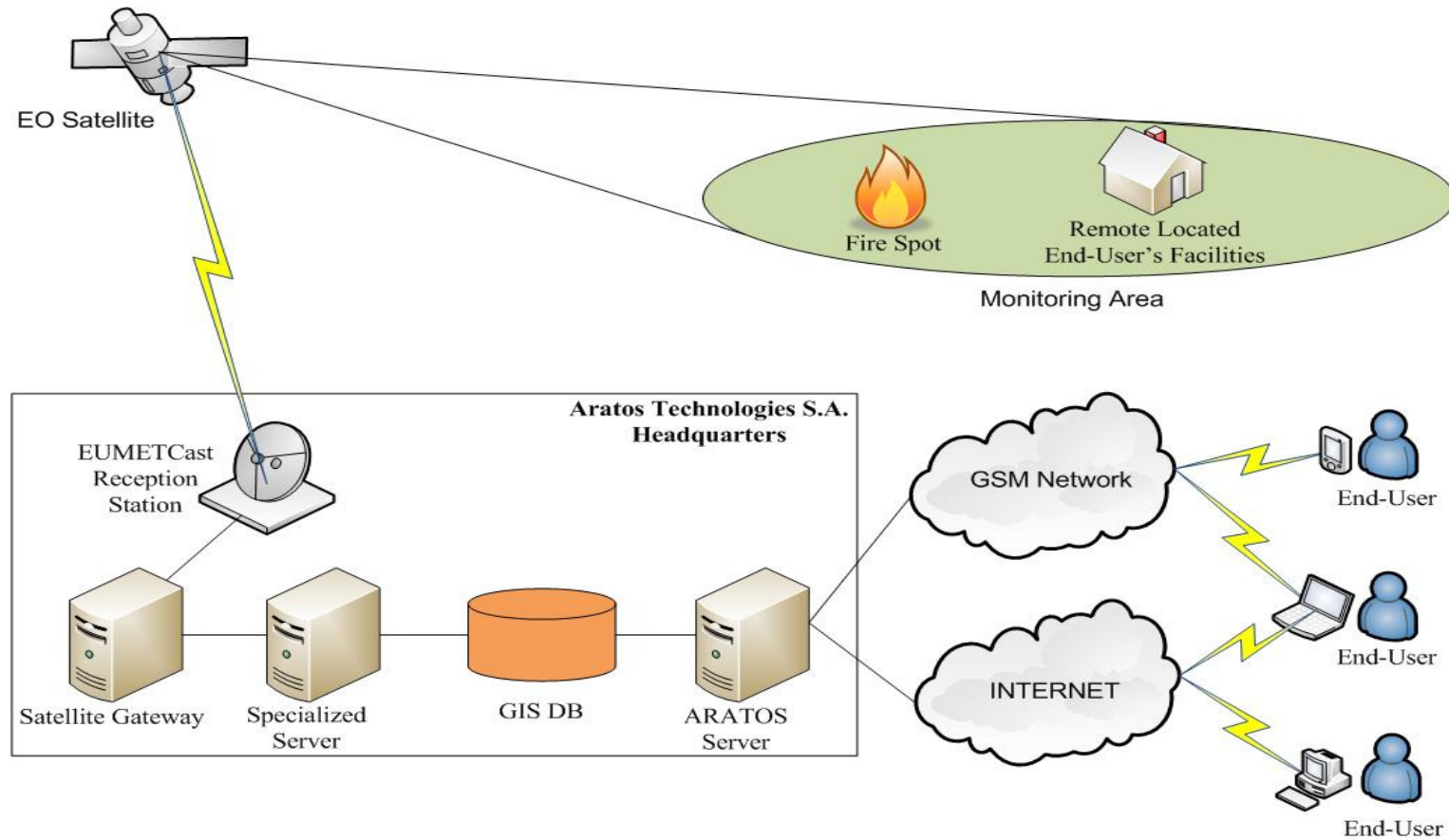
Target Market

- The provided services aims at being effective for end-users that their area of interest located at remote, rural, mountainous and insular regions where the early fire detection is very difficult.
- Our solution targets private end-users at European level:
 - ✓ Home owners
 - ✓ Remote located hotels
 - ✓ Remote located rest facilities
 - ✓ Remote Agricultural infrastructures
 - ✓ Remote small industry infrastructures

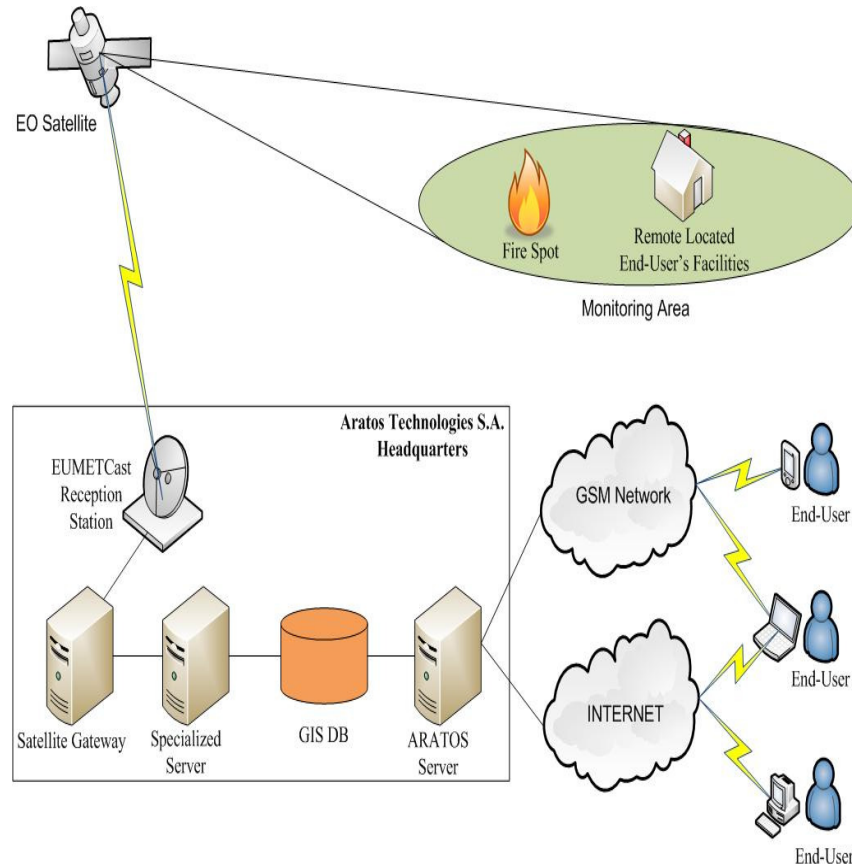
Required Technology...

- The core part of our proposed system is going to be a web GIS System supporting:
 - Thin client-server applications
 - Rich client-server applications
- Both types of applications are going to follow the N-tier architecture.
- The acquisition of satellite data requires the establishment of a single EUMETCast reception station.

System Architecture



System Components



- EO Satellites
- EUMETCast Reception Station
- Satellite Gateway
- Specified Server
- GIS DB
- Aratos Server
 - Application Server
 - Map Server

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THANK YOU!

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Questions?

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