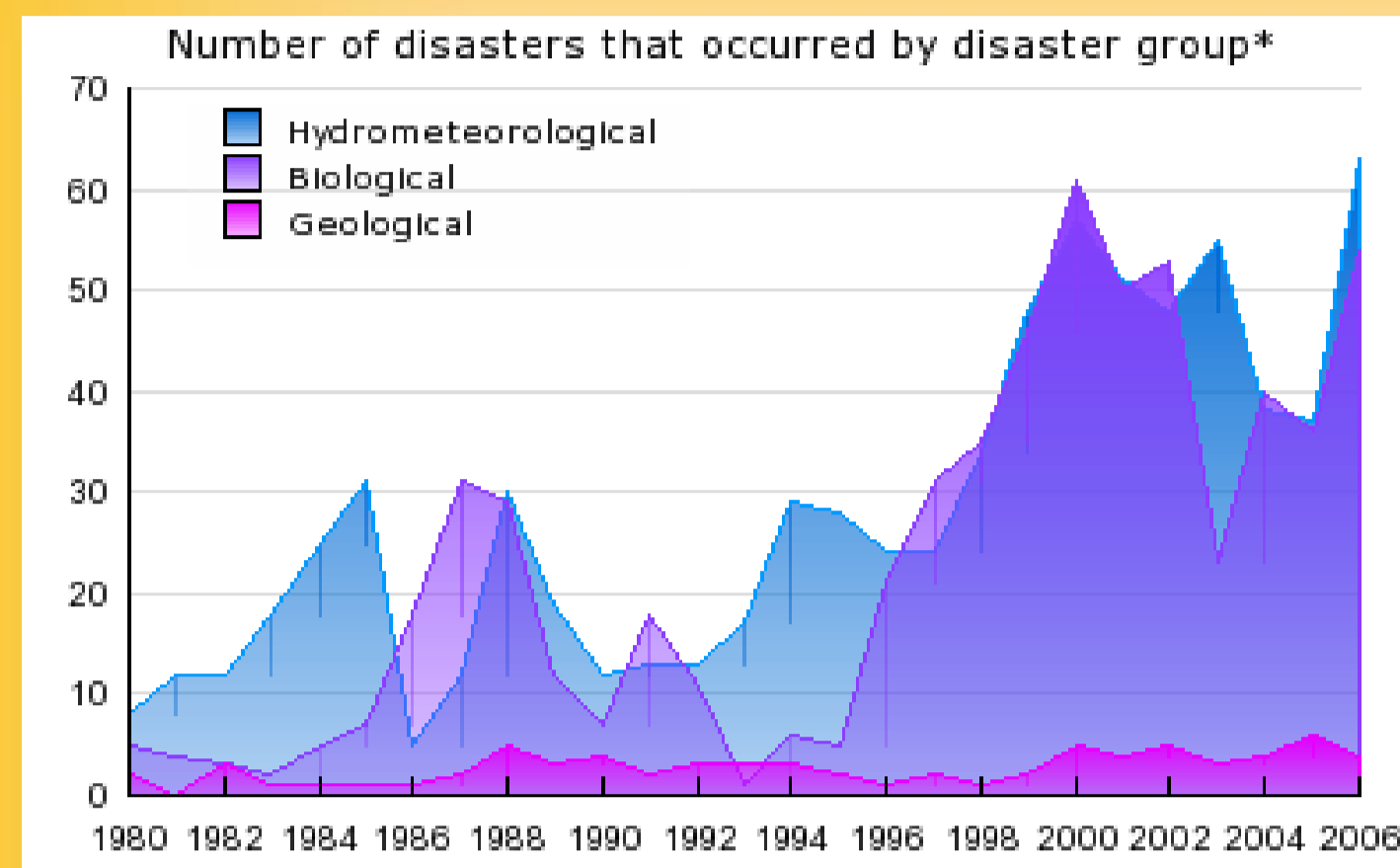


AIDA: Advancing ICT for DRM in Africa

I: Why AIDA ?

- # disasters increasing rapidly, Developing Countries most affected



Source of data: OFDA/CRED International Disaster Database, Courtesy of www.preventionweb.net

- HYOGO Framework for Action ⇒ Disaster Plan in every country
- Disaster information widely available on UN/ISDR websites
- Need for ICT information supporting DRM is high

II: Objectives

- AIDA aims at acquiring and sharing knowledge about affordable ICT solutions in support of DRM (Disaster Risk Management) in Africa.
- Support African Countries in setting up their National Disaster Plan's
- Reduce the risk of natural disasters and Improve the capacity to respond to disasters in Africa

III: Concept

- No technology push from Europe
- From Africa, for Africa (Start from existing operational African ICT applications, and share knowledge and best practices)
- Multi-Hazard approach

IV: AIDA Work Overview

The AIDA project will

- assess** the natural hazards, the vulnerability of the communities and the disaster risks in Africa (with a focus on Tanzania, Nigeria, South-Africa and Mali)
- assess the role of **ICT** based systems per hazard category
- explore the ICT trends and needs for the **future**
- test the usefulness of GEONETCast as component of an alert system**
- shares** this information with all DRM stakeholders in Africa
 - 4 AIDA workshops
 - AIDA session on AARSE conference
 - AIDA session on EUMETSAT User Conference
 - AIDA session on UNEDRA courses
- prepare 3 video's of operational African DRM systems
- support the take-up** of ICT technology for use in other DRM plans.

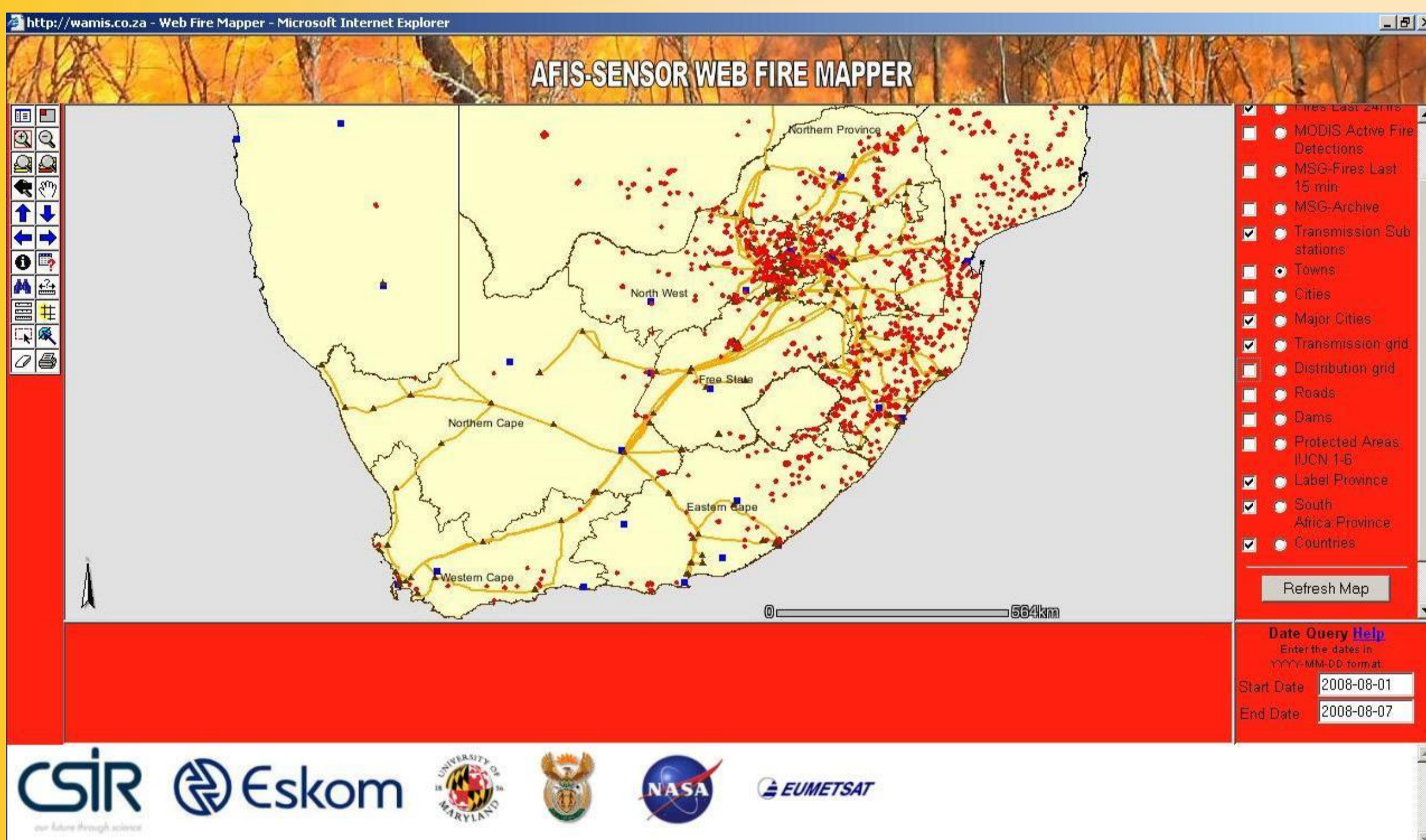
V: GEONETCast as component of an alert system?

GEONETCast:

GEONETCast already provides data for early warning systems. (VGT4AFRICA project)
Q: Can GEONETCast be used as a component of an Alert system for disasters?

Existing Fire System:

- AFIS = satellite-based (MODIS, MSG) fire information tool that delivers locations of active fires in near-real time over southern Africa.



Each dot on the fire map shows an active fire varying in size from 200m to 1 000m.

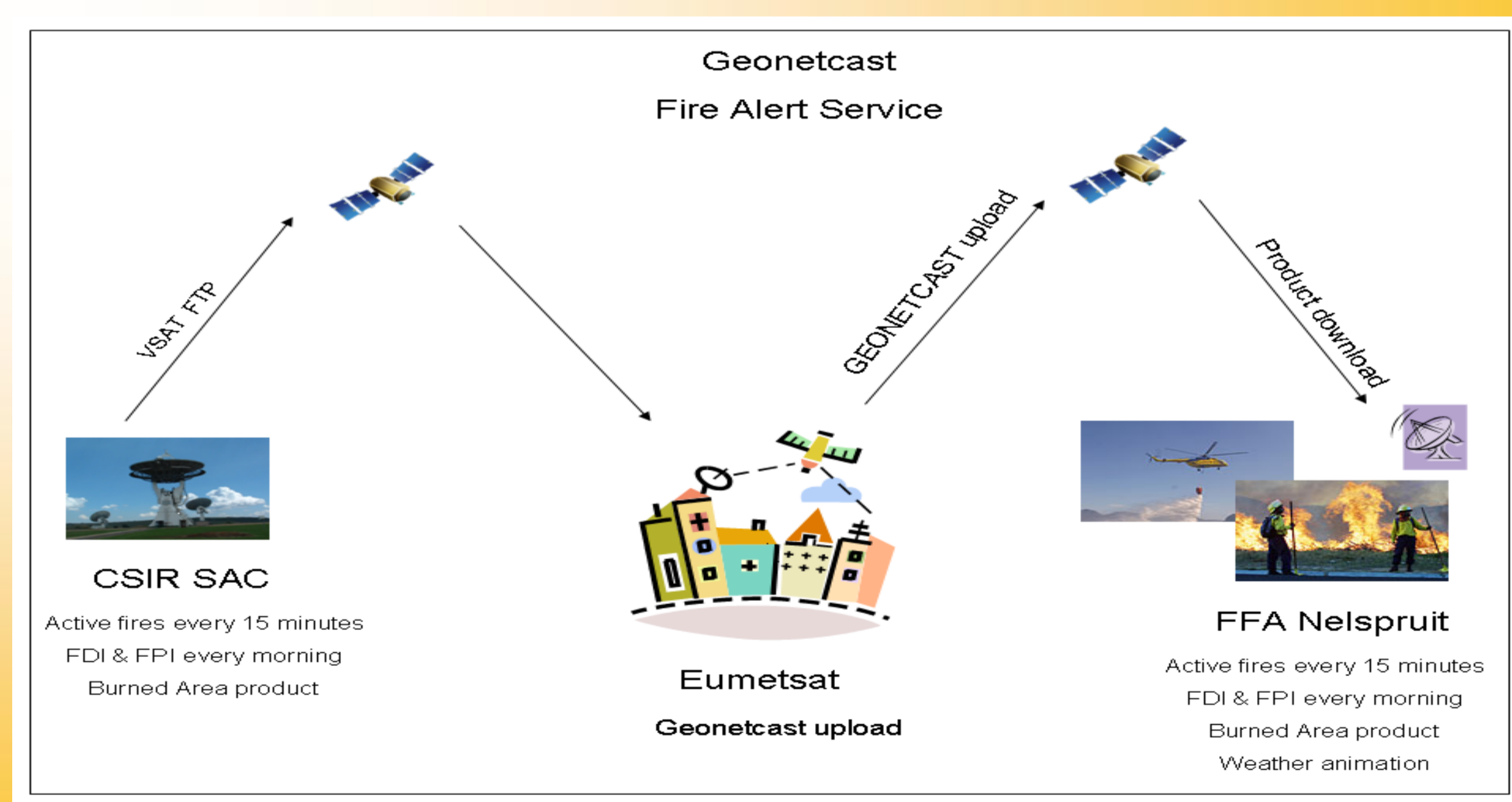
- Customer = ESKOM, National Electricity Company in SA
- Danger of Fires -> Flashover of power lines -> interrupted power supply
- Detection of a fire -> **email and SMS text messages** are sent to relevant authorities in NRT.
- Result of AFIS -> outfall of power supply reduced by 30 %

Nelspruit Fire Brigade:

The Forest Fire Association (FFA) is responsible for coordinating all vegetation fire fighting in South-Africa. Their current system is based on phone calls from the public. With each report a spotter plane is deployed to the scene to investigate the seriousness of the fire. Water-bomber planes and fire fighting helicopters will then be deployed to start fire suppression.

AIDA Test Case:

The internet connection to the Nelspruit FFA (South of Kruger National Park) is very slow and unreliable, due to its remote location outside of the city of Nelspruit. The Nelspruit FFA will use the wildfire-alarms from CSIR within their operational activities to fight wildfires. AIDA will broadcast alerts (text + maps) via GEONETCast in NRT to FFA.



If successful, many DRM systems in Africa can benefit from this technology.

VI: Relevancy to GEO Work Plan ?

• CB-06-04 GEONETCast::

Establish GEONETCast on a demonstration basis.

• CB-09-04: Technology Transfer for Information Access

Identify HW, SW and other technology required to access, use and develop EO data, information and products for decision making. Promote technology transfer and advance infrastructure and information sharing.

- DI-09-02: Implementation of Multi-Risk Management Approach
- DI-09-03: Warning Systems for Disasters

VII: Characteristics ?

- **Type:** CSA (Coordination and Support Action) dedicated to international cooperation partner countries co-funded by the INFOSO DG of the EC
- **Duration:** 2 year
- **Start date:** 01/06/2008, **End date:** 30/05/2010
- **Partners:** VITO (BE), ITC (NL), NET QI (Suisse), TSF (LUX), GEOSAT (FR), EUMETSAT (GE), FUTMIN (Nigeria), IER (Mali), ARU (Tanzania), CSIR (South-Africa)
- **Supported by:** UNOSAT, UN/ISDR

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