



FIRECAST

Real-time data solutions for better land
management

FIRECAST

GOAL

Reduce

- Deforestation
- Land degradation
- Global emissions

Preserve

- Biodiversity
- Ecosystem services

Improve

- Health
- Food security



FIRECAST

APPROACH

Improving land management through timely and accurate satellite monitoring information



FIRECAST

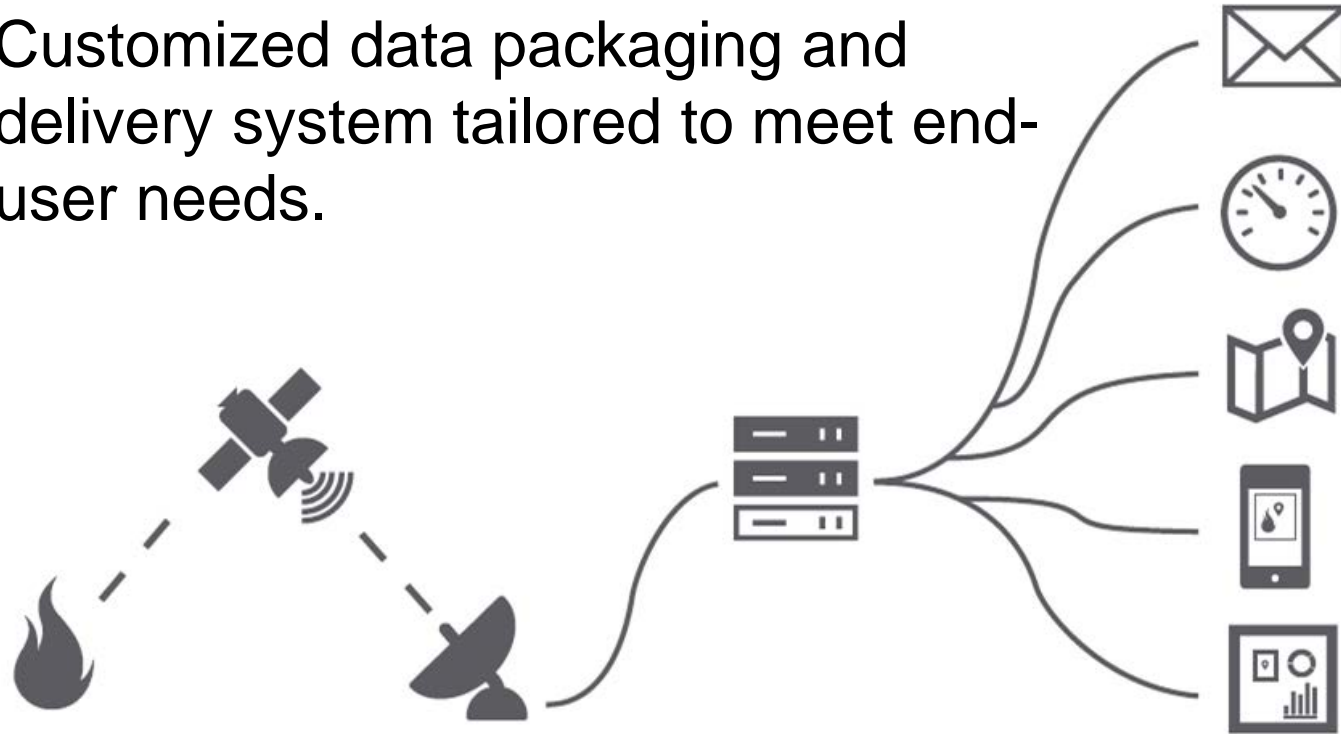
Forest and Fire Monitoring & Forecast System

The screenshot displays the FIRECAST web application interface. The main map shows Madagascar with fire points (MODIS Fire in red and VIIRS Fire in yellow) overlaid on a satellite image. The interface includes a navigation menu at the top with options like Home, Data & Maps, Where We Work, and About. Below the map, there are filters for Country (Bolivia, Colombia, Indonesia, Madagascar, Peru), District, KBAs (NAP Complexe Vohi), Protected Areas, and Region. A legend in the top left identifies the fire points. The bottom of the interface shows a timeline for firepoints from 2015-8-1 to 2015-8-13, with start and end date input fields.

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APPROACH

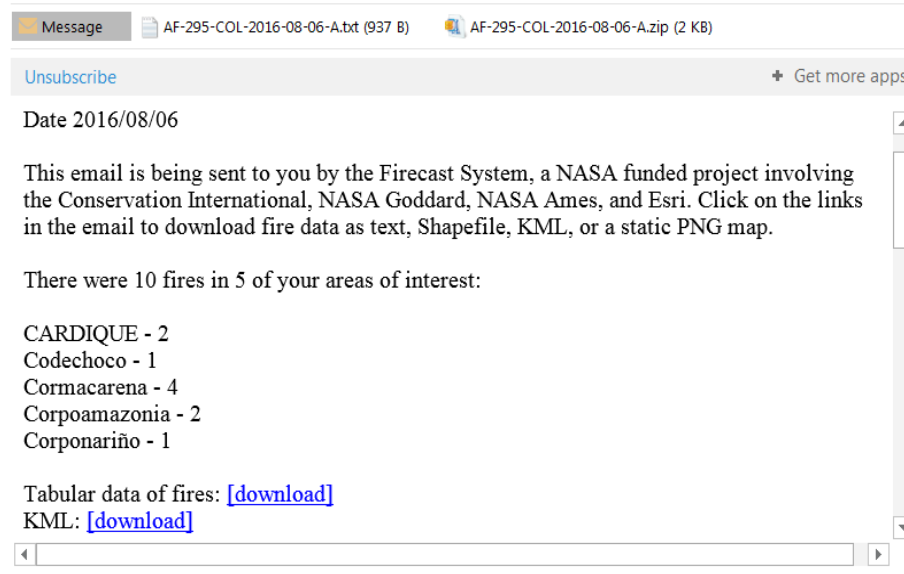
Customized data packaging and delivery system tailored to meet end-user needs.



FIRECAST



FIRE ALERTS



USE CASE: *National/Local governments*

- Respond to threats
- Strategize patrols
- Active fire control
- Stop illegal activities
- Collect fines

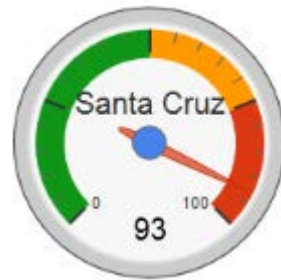
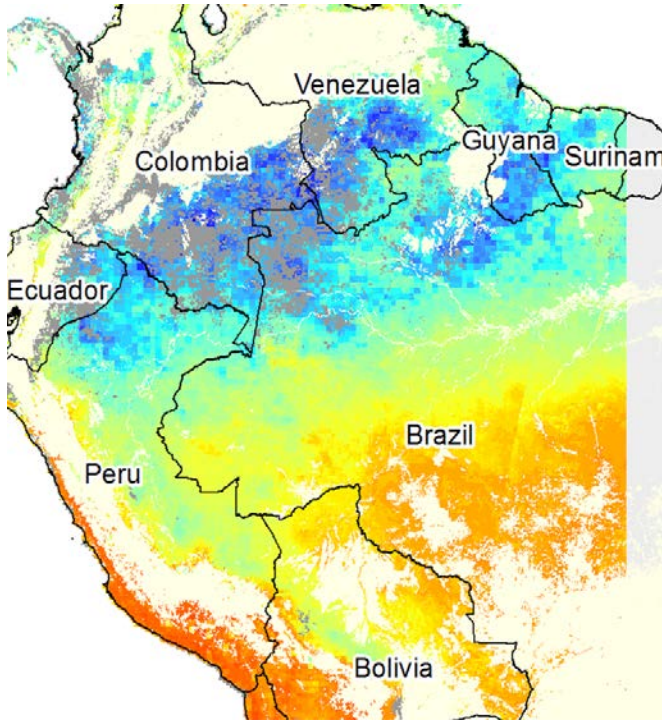
- Custom active fire and deforestation alerts
- Website and communication content translated by native speakers
- Data filtered by locally approved datasets



FIRECAST



FIRE RISK FORECASTING



USE CASE: *National Conservation Organizations*

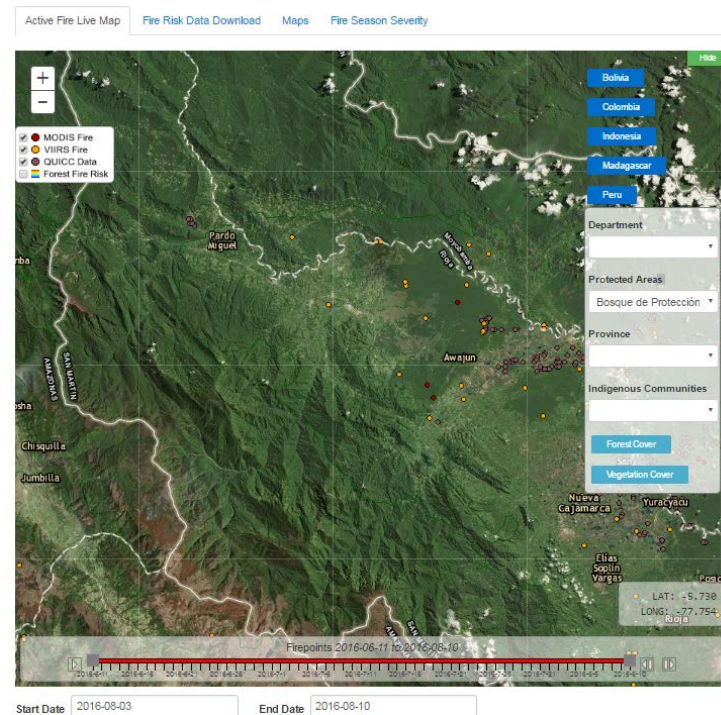
- Outreach and education
- Allocate resources
- Climate change adaptation planning
- Disseminate data
- Promote systems for policy decisions
- Capacity building

- Daily fire risk index
- Annual fire season severity forecast
- (MODIS, GPM)



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INTERACTIVE WEB MAP



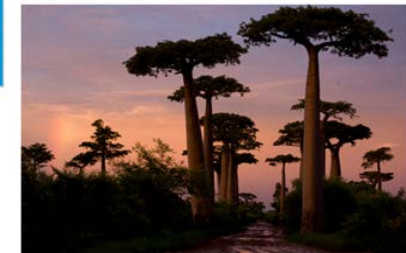
USE CASE: *Public*

- Outreach and education
- Communications
- Awareness



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StumbleUpon
Twitter
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RSS

Madagascar's sacred forests have a guardian — in space
by KELLE KOENIG
October 21, 2015

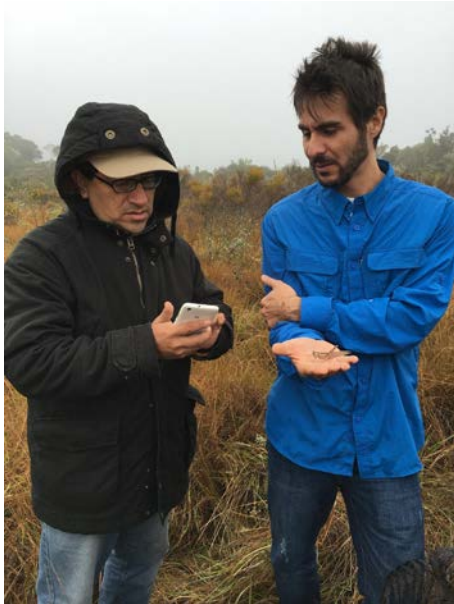


Madagascar's Avenue of the Baobabs at sunset. Outside of protected areas, one of the major threats to these iconic trees is fire resulting from logging, the local name for slash-and-burn agriculture. (© Cristina Mittermeier)

For most people in Madagascar, fire is a way of life.

FIRECAST

MOBILE APP



USE CASE: *Communities*

- Manage natural resources
- Community action and empowerment
- Community-based monitoring
- Respond to threats to property (buildings, livestock)

- Firecast OnSight mobile app
- Licensed version for filed data collection
- Free view only version for general public (global)



FIRECAST

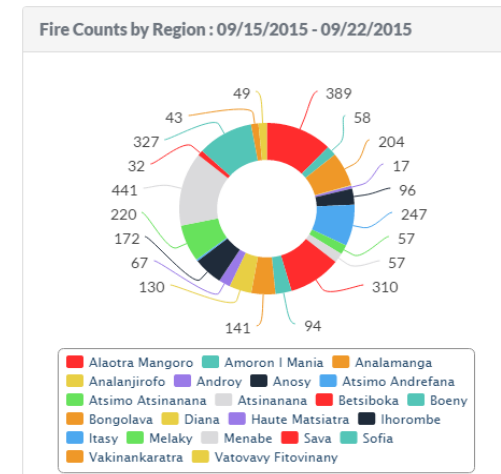
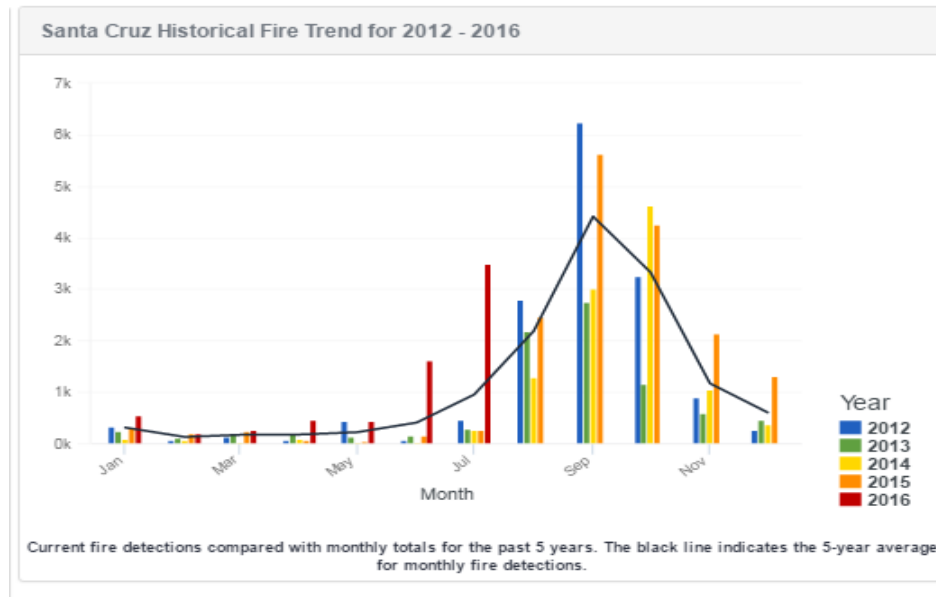


DASHBOARDS

- Interactive visualizations
- Custom data queries
- Auto-generated reports

USE CASE: *Funding agencies and private sector*

- Prioritization of investments
- Assessing conservation effectiveness
- Monitoring conservation portfolios



FIRECAST

NICHE ROLE

- Strategic, targeted, **customizable** system
- Built from bottom-up approach through **engagement** with local stakeholders
- Customized products for a **variety of stakeholders**
- **In-country** engagement led by CI's country offices
- Latest **NRT products** from research community
- Web content and alerts translated by **native speakers**



*Firecast team visit Madagascar
Karyn Tabor
Andres Cano
Andriambolantsoa Rasolohery
Eddy Mendoza*