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Overview



Objective In partnership with the Department of Interior's Bureau of Land Management (BLM) and Idaho Department of Lands (IDL), we will build and evaluate a prototype RECOVER decision support system. RECOVER will be an automatically deployable, site-specific multi-criteria decision and that brings together in a single application the information necessary for Burned Area Emergency Response (BAER) teams to plan reseeding strategies and monitor ecosystem recovery in the aftermath of savanna wildfires.

RECOVER will use state-of-the-art cloud-based data management technologies to improve performance, reduce cost, and provide site-specific Rebillity for each fire. Customized RECOVER instances will be automatically deployed in the Amazon ECZ cloud when a fire is detected. RECOVER's decision products will be dynamically assembled from an existing network of data resources. RECOVER will automatically generate and refresh derived fire severity, fire intensity, are teams will have at hand a complete and ready-to-use RECOVER system customized for the target wildfire. Since BAER remediation plans must be completed within 14 days of a wildfire's containment, RECOVER has the potential to significantly improve the decision-making process.

Rehabilitation Capability

RECOVER =

Convergence for Ecosystem Recovery

Decision Support System (DSS)

Wildland fire managers,

BAER teams

ESR teams

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NASA Goddard Space Flight Center
 Press release
 BAER Tools website

Services

Spatial data library
 Software
 Campus web GIS

http://giscenter.isu.edu

Goals

- To improve landscape rehabilitation following wildfire by improving the decision process
 - All data in one place →
 - More/better information →
 - Better informed decisions
- How? Leveraging cloud-based, web services

RECOVER is running now....

- 2013 fire season-5 wildfire sites
 - Mabey Canyon
 - 2 ½ mile
 - State-line
 - Pony Creek
 - Incendiary Creek



RECOVER

- Uses:
 - Best-available data
 - Best-available technologies
- To provide near real-time¹ DSS capabilities

1- response time 35 minutes

Future of RECOVER

- Continue client-centric approach
- Incorporate improved geospatial data as it becomes available
- Offer mobile solutions
- Live, in-the-field data collection¹





1- Using Collector for ArcGIS





Operational Partners



