NASA RECOVER DSS

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Keith T Weber, PI

What is RECOVER?

- RECOVER: Rehabilitation Capability Convergence for Ecosystem Recovery
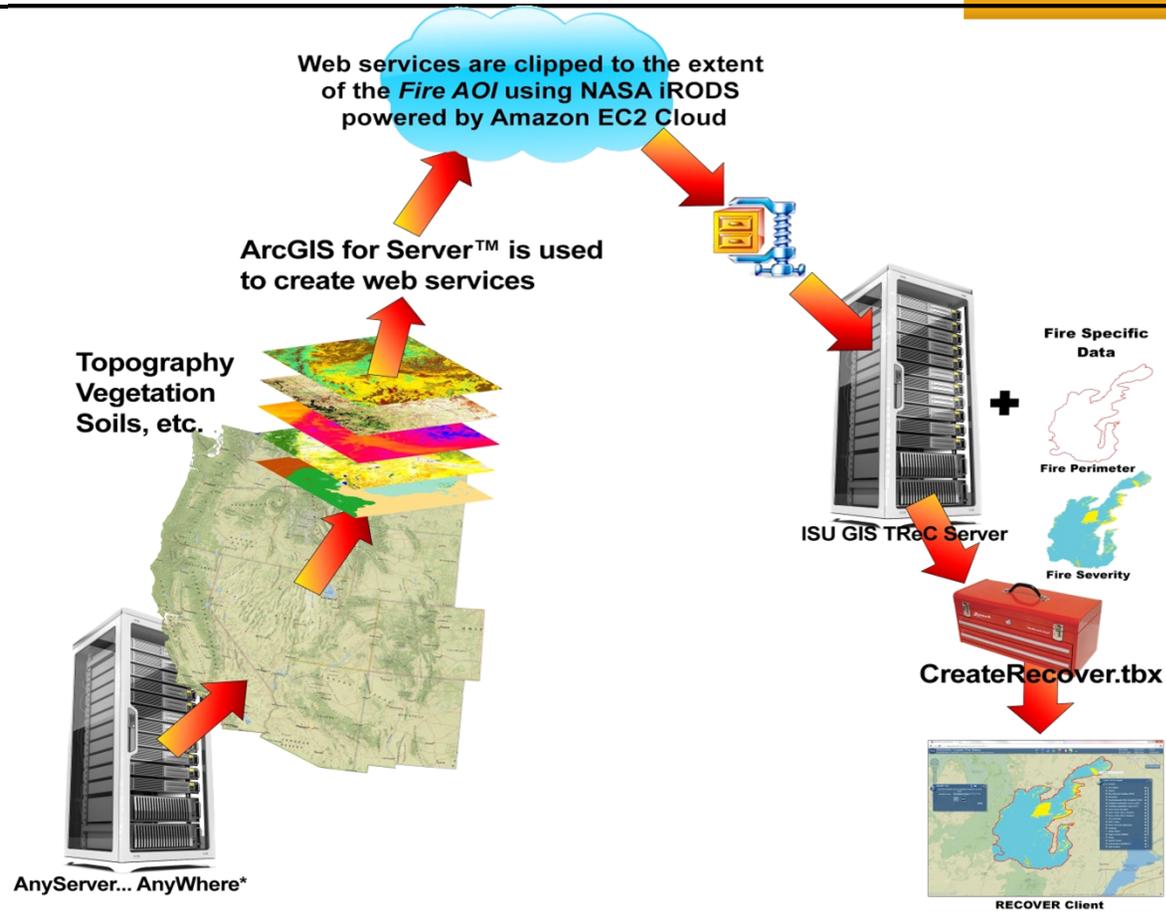- NASA Applied Sciences Program sponsored project

What is RECOVER?

- **Customer-driven, Customer-centric***
- **Decision Support System (DSS)**
  - Rapid assembly of site-specific data
  - Delivered in customized GIS analysis environment
  - Wildfire focus

* Our "customer" is the USDI BLM, Idaho Dept. of Lands, and other wildfire management agencies (National Park Service, USFS, etc.)
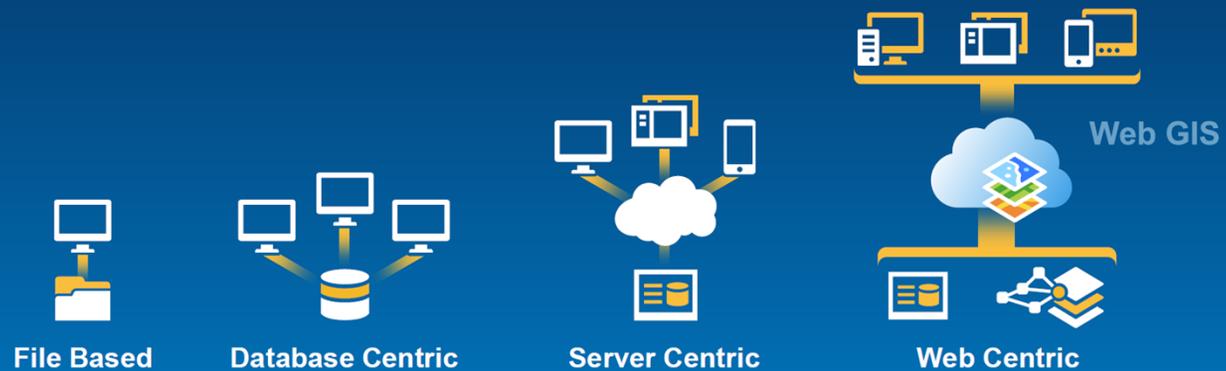
How Does it Work?

Web services are clipped to the extent of the *Fire AOI* using NASA iRODS powered by Amazon EC2 Cloud

ArcGIS for Server™ is used to create web services

Topography
Vegetation
Soils, etc.

AnyServer... AnyWhere*

Fire Specific Data

Fire Perimeter

Fire Severity

ISU GIS TReC Server

CreateRecover.tbx

RECOVER Client

Benefits of RECOVER

Leveraging Common Computing Architecture

File Based

Database Centric

Server Centric

Web Centric

Web GIS

- Works seamlessly across all devices
- Reduces need for custom applications
- Platform for integration with other business systems

- Cross organizational collaboration
- Ready to use content and services
- Content management system

There's More…

- Visit the RECOVER project website
- http://giscenter.isu.edu/research/Techpg/nasa_RECOVER/index.htm

Future Plans for RECOVER

- **Over the next three years we will…**
  - Operationalize the RECOVER DSS (currently beta)
  - Expand the spatial coverage area to include the entire Western US
  - Expand to new partner agencies

Future (cont'd)

- **Develop a long-term monitoring component**
- **Incorporate new data products**
  - SMAP
  - Landslide potential
- **Research results from DEVELOP studies**

Questions?