

Collaborative Geospatial Research and Education Gateway

https://mygeohub.org







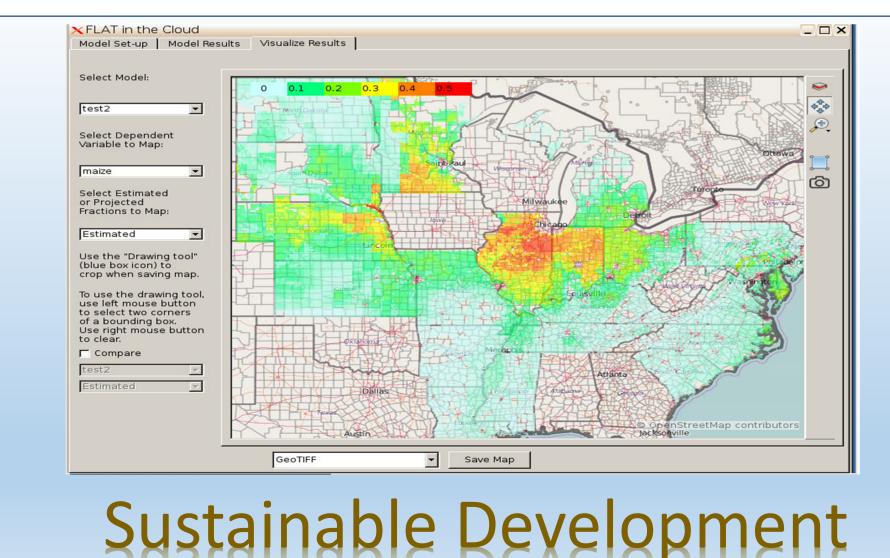
maize_YieldPerHectare.tif

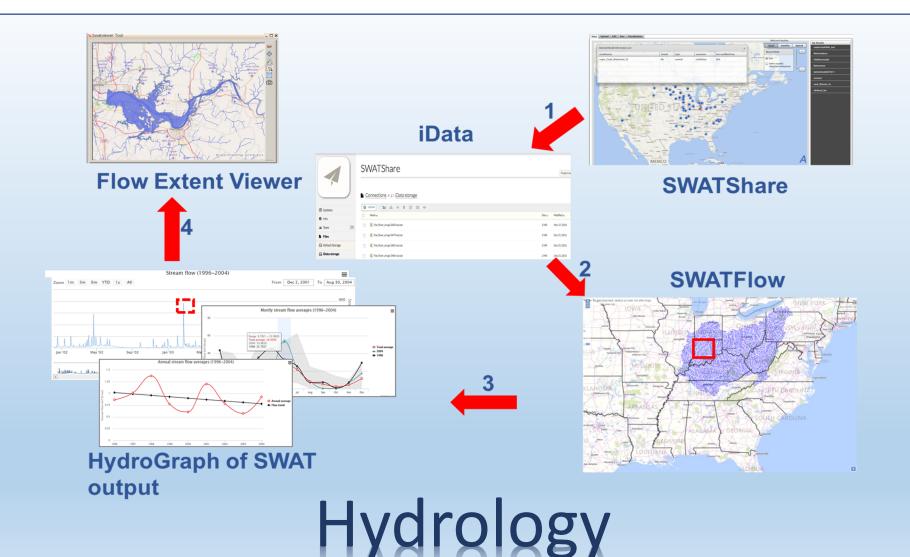
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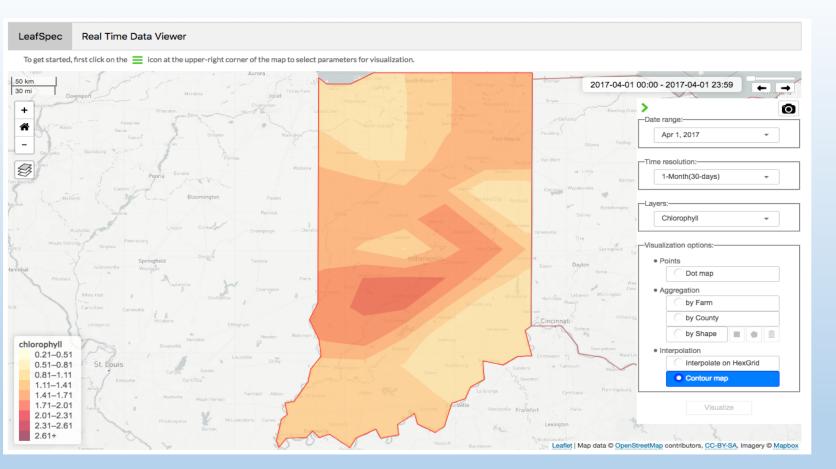
Crop Yield Modeling Project

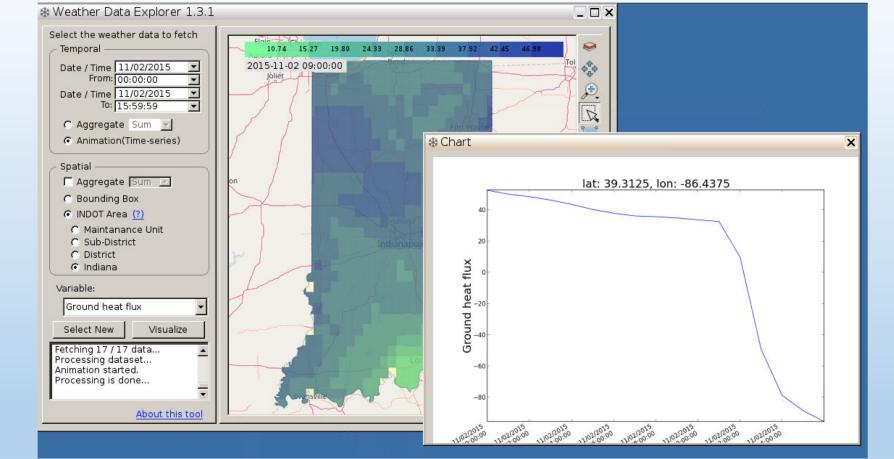
Let's work on publication cont

Primary File(s) (3)







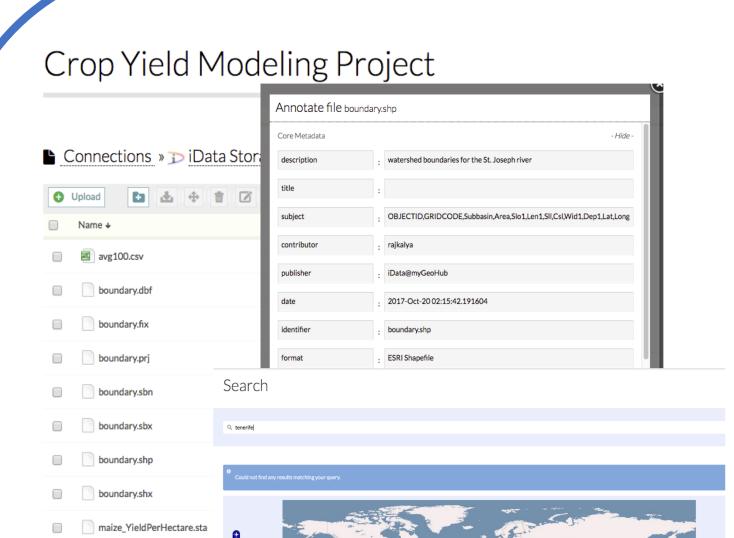


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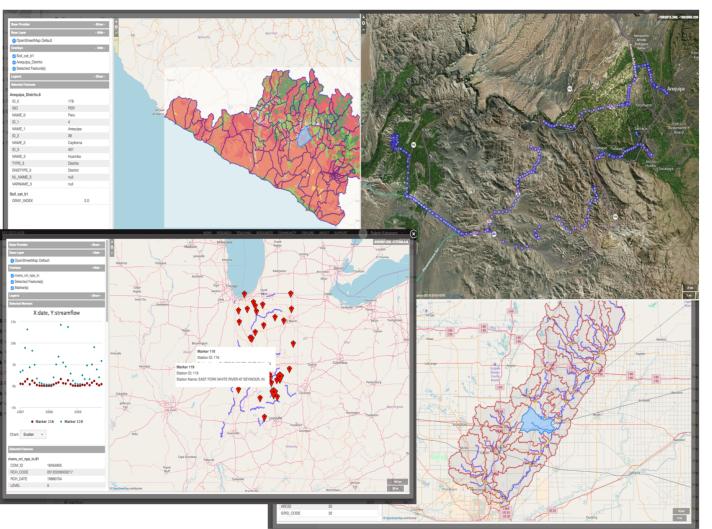
Educati

Climate Data

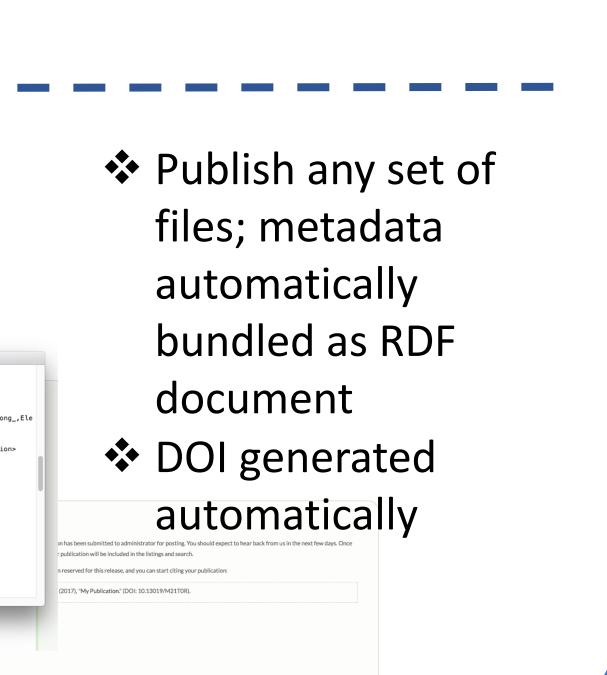
Geospatial Research Data Management



- Web manage, share geospatial data
- Annotate, extend automatically extracted metadata
- **❖** Keyword + geospatial bounds search



- Web preview of spreadsheet, geospatial (raster, vector) data
- Support for point data exploration, multiple base maps
- Files processed ondemand



Geospatial Research Data Management

GABBs

Geospatial Data Management

Geospatial Processing & Visualization Tools, Toolkits

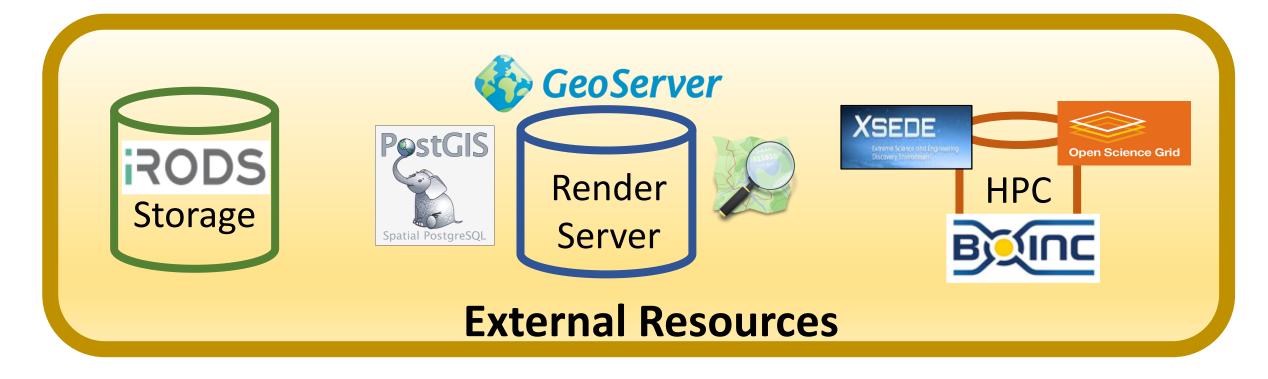
Content Management System

- User, community management
- Resource publication
- Instruction
- Collaborative research, web applications

Middleware

- Tool container management
- Load balancing tool execution hosts
- * Rappture tool development toolkit

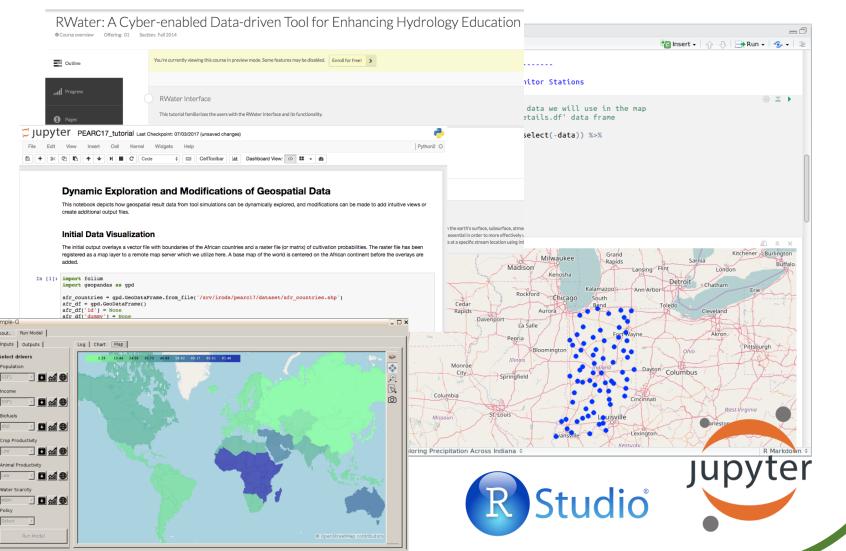
cyberinfrastructure Framework



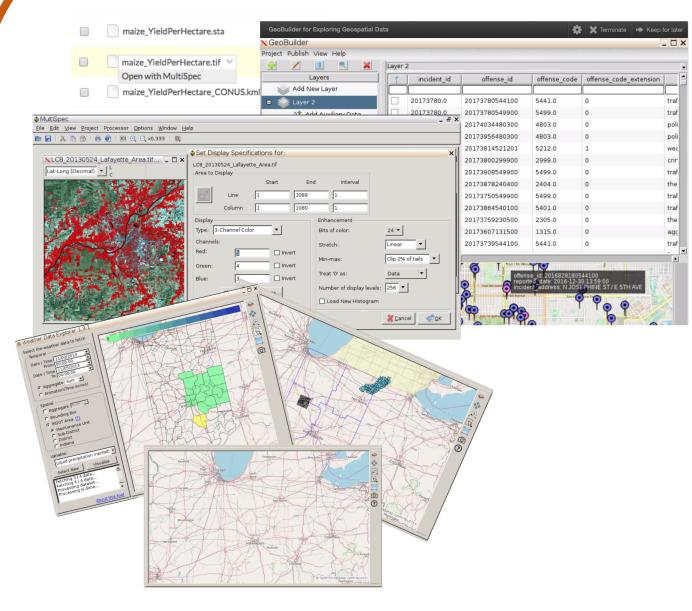


- GABBs toolkits and tools used along with Jupyter and R Studio for self-paced online courses and tutorial at PEARC17
- MyGeoHub used in the 2018 SCGI Hackathon

MultiSpec used in outreach efforts by the GLOBE program, USGS and in Purdue's TOTAL (Turned Onto Technology and Leadership) Camp for middle school students in 2016, 2017

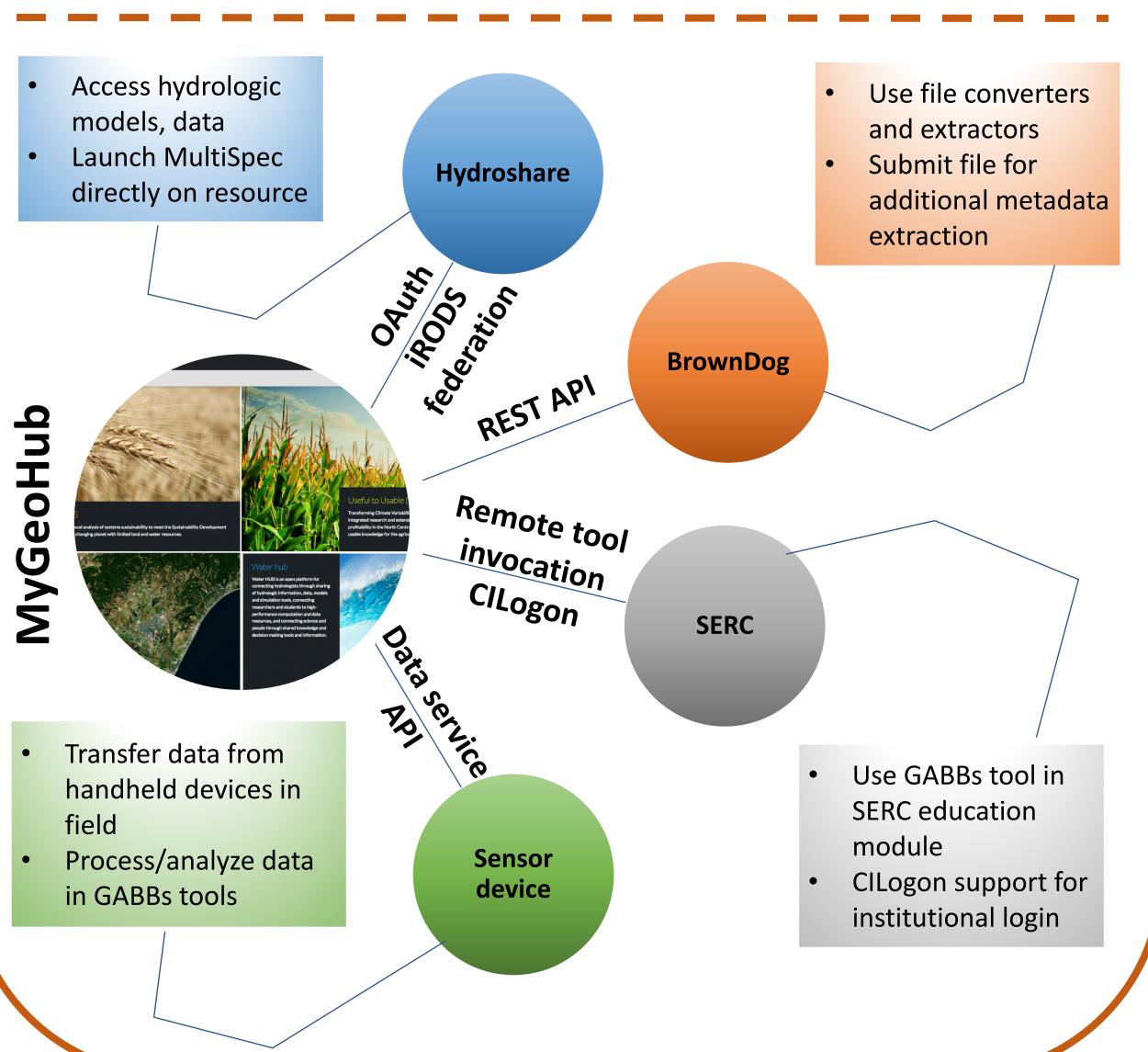


Geospatial Processing & Visualization Tools, Toolkits



- Source agnostic metadata processing
- Launch tools from data management interface

- * * MultiSpec: Visualize, process multi, hyperspectral geospatial data
 - **❖** GeoBuilder: Explore, visualize, filter geo-located spreadsheet data
 - **❖** PyMapLib: map & geospatial visualization toolkit



Interoperability