



G · A · B · B · S

geospatial data analysis building blocks

Open Source, Self-Service for Geospatial Data Exploration, Computation and Sharing

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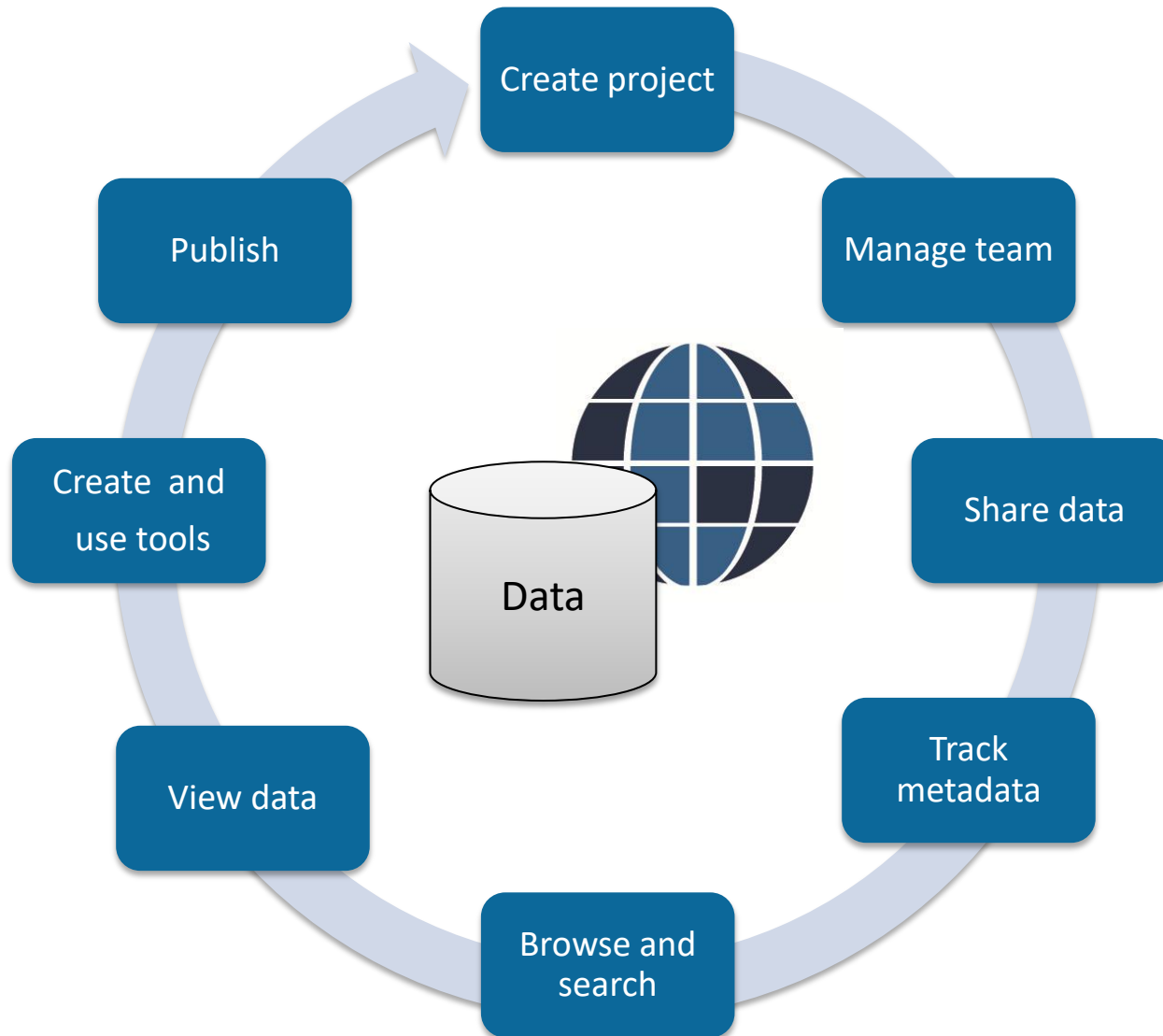
NSF DIBBs Workshop

January 11-12, 2017



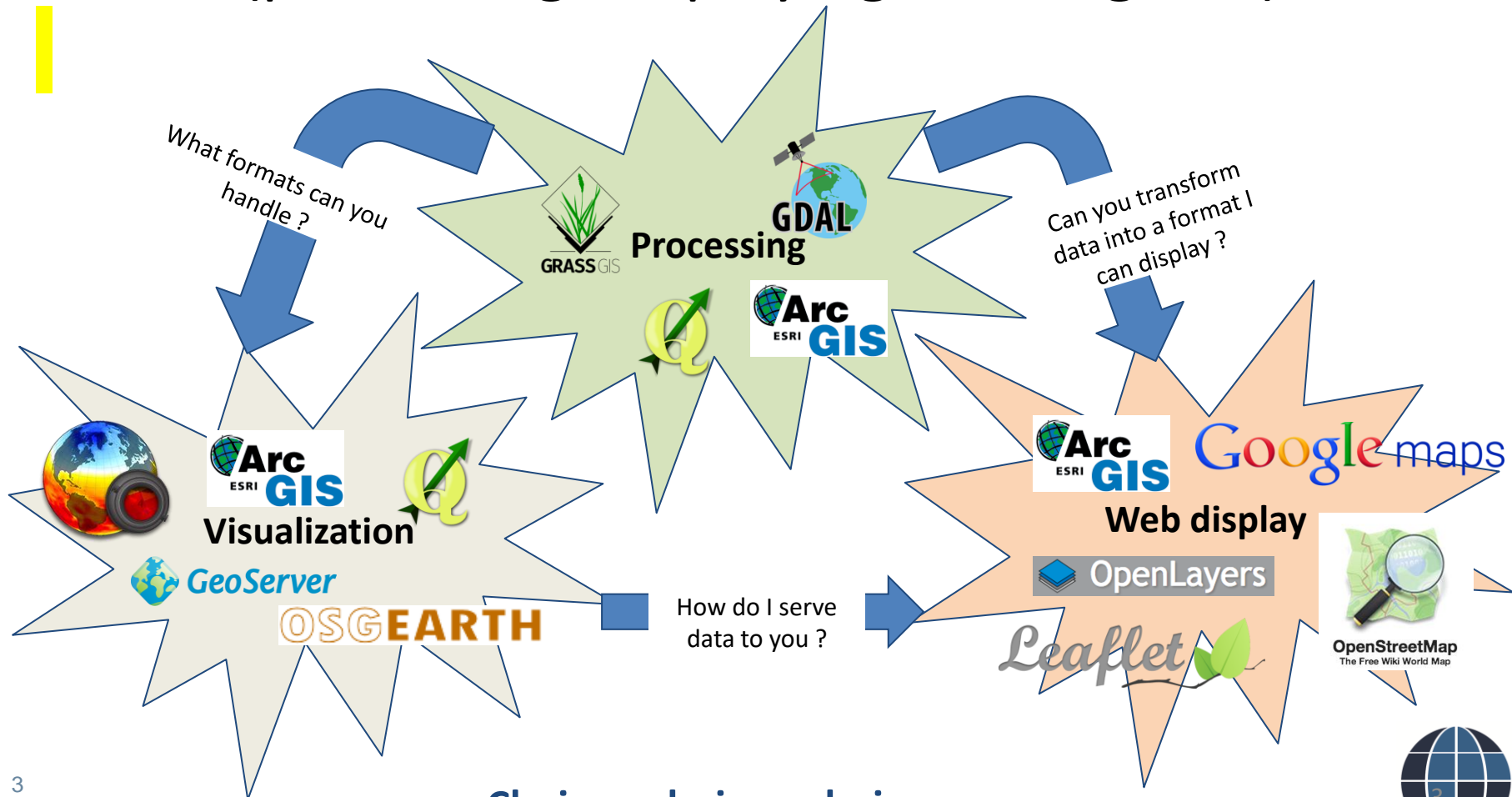
This work is supported in part by the NSF grant #1261727

Collaboration around data

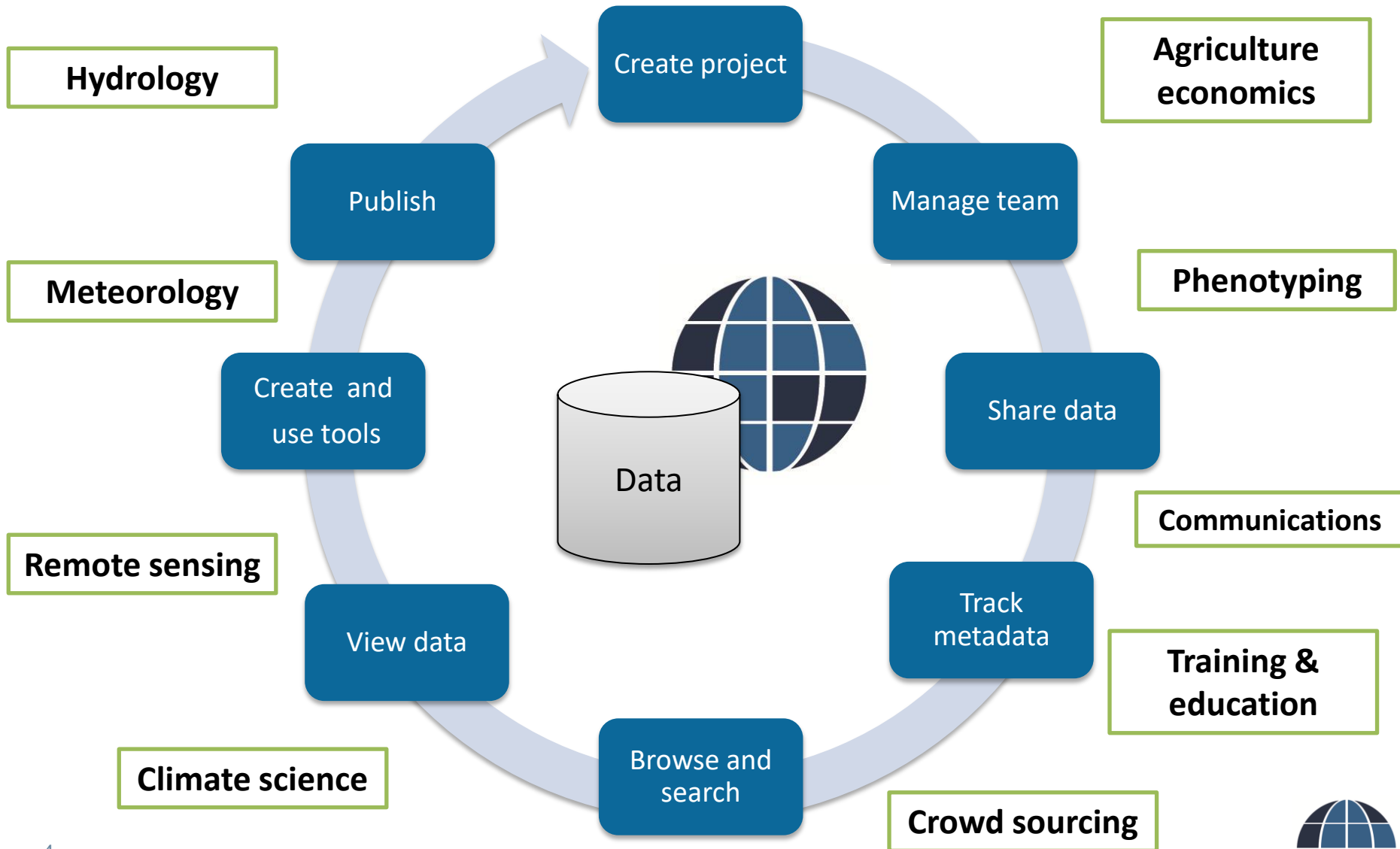


Software stack for spatial data

It is definitely not trivial to deal with geospatial data (processing, displaying, sharing, etc)



Collaboration around data

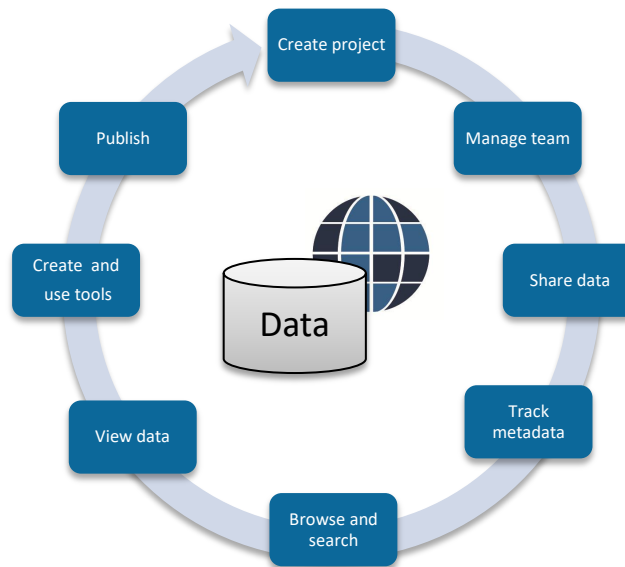


Significant Results

Open source, Self serve
Platform for collaboration around geospatial data



Integrated geospatial data support



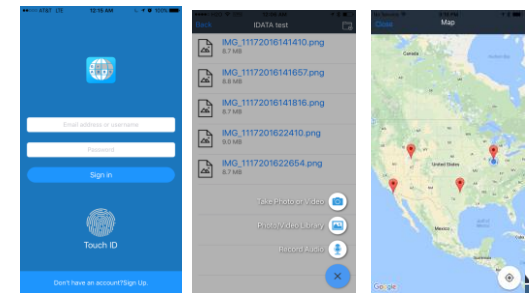
Data exploration and analysis tools for end users



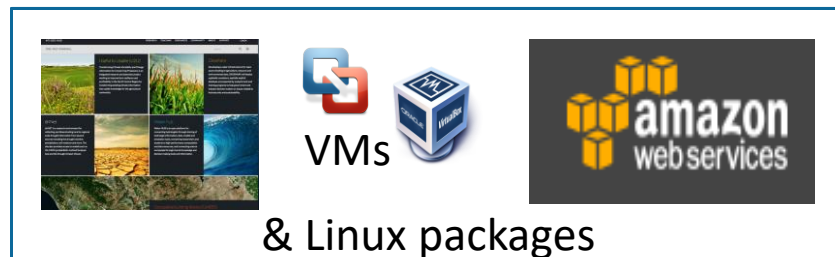
Toolkits for building map-based applications



Data service API for third party tools



Dissemination



GABBs-enabled Scientific Applications

Weather Data Explorer

Wintx 1.0

Select the weather data to fetch

Date / Time: 11/02/2015
From: 00:00:00
Date / Time: 11/02/2015
To: 09:00:00

Aggregate Op: MultiSpec

File Edit View Project Processor Options Window Help

Result: Predicted Cultivation Probability

Lat/Long: 20.531°, 5.512°

Selection: :map0-countries: 31

Layers

- OSM Map
- Landuse Probability

Opacity

MapBuilder

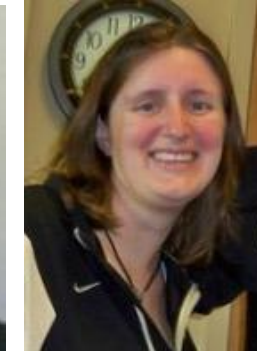
Chicago Crime Data

date	block	iucr	primary_type	description	location_description	arrest
15-09-08 10:45:00	023XX W NORTH AVE	0610	BURGLARY	FORCIBLE ENTRY	RESTAURANT	False
15-09-08 00:20:00	052XX W ROSCOE ST	0630	BURGLARY	ATTEMPT FORCIBLE ENTRY	RESIDENCE	False
15-09-08 13:30:00	044XX W LEXINGTON ST	051A	ASSAULT	AGGRAVATED: HANDGUN	SIDEWALK	False
15-09-08 23:00:00	048XX W ROSCOE ST	0810	THEFT	OVER \$500	APARTMENT	False
15-09-10 17:10:00	001XX W MAPLE ST	1130	DECEPTIVE PRACTICE	FRAUD OR CONFIDENCE ...	RESIDENCE	False
15-09-10 21:00:00	032XX N CENTRAL AVE	0810	THEFT	OVER \$500	PARKING LOT/GARAGE(NO...	False
15-09-10 13:00:00	010XX N LARAMIE AVE	2825	OTHER OFFENSE	HARASSMENT BY TELEPH...	RESIDENCE	False
15-09-10 02:00:00	015XX S CENTRAL PARK ...	0560	ASSAULT	SIMPLE	RESIDENCE PORCH/HALL...	False
15-09-08 18:50:00	011XX S KARLOV AVE	3731	INTERFERENCE WITH PUBL...	OBSTRUCTING IDENTIFICA...	STREET	True
15-09-08 20:30:00	003XX S CICERO AVE	0320	ROBBERY	STRONGARM - NO WEAPON	ALLEY	False
15-09-09 00:01:00	010XX N MILWAUKEE AVE	1305	CRIMINAL DAMAGE	CRIMINAL DEFAACEMENT	DAY CARE CENTER	False
15-09-09 21:09:00	052XX W CHICAGO AVE	4510	OTHER OFFENSE	PROBATION VIOLATION	STREET	True
15-09-09 06:30:00	044XX W HADDON AVE	031A	ROBBERY	ARMED: HANDGUN	STREET	False

7100+ users in 2016

96K visitors a year

GABBs Team



Also...
HUBzero team



Thank you!

Questions, suggestions, and feature requests
are welcome!

Contact: carolxsong@purdue.edu

Project: <http://mygeohub.org/groups/gabbs>

Production site: <http://MyGeoHub.org>

Sign up at MyGeoHub.org and Try GABBS!



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