



Connecting people and resources
to accelerate discovery by empowering
the science gateway community

Approaching Project Sustainability with Techniques from an Entrepreneurial Mindset

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Sean Gordon - MetaDIG

sciencegateways.org

Award Number
ACI-1547611





Pain Points

Connecting expensive resources & data to

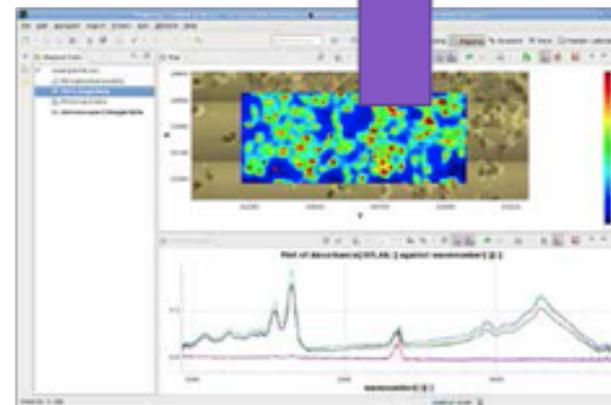
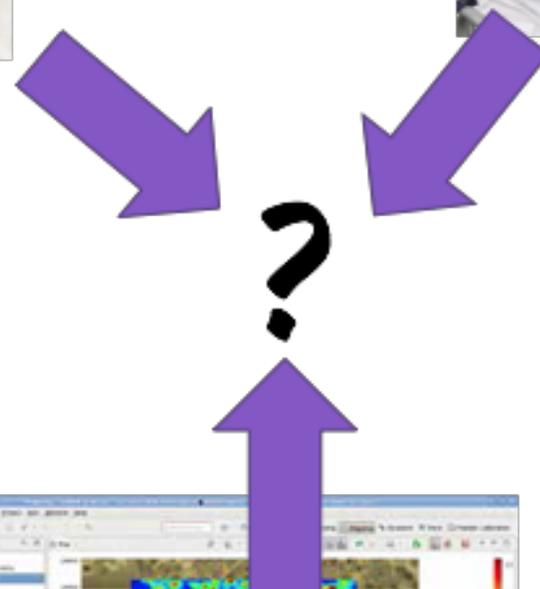
scientist authors that write codes to utilize them to

audiences that use those codes, data, and instruments en masse

(expensive) Resources



Audience(s)

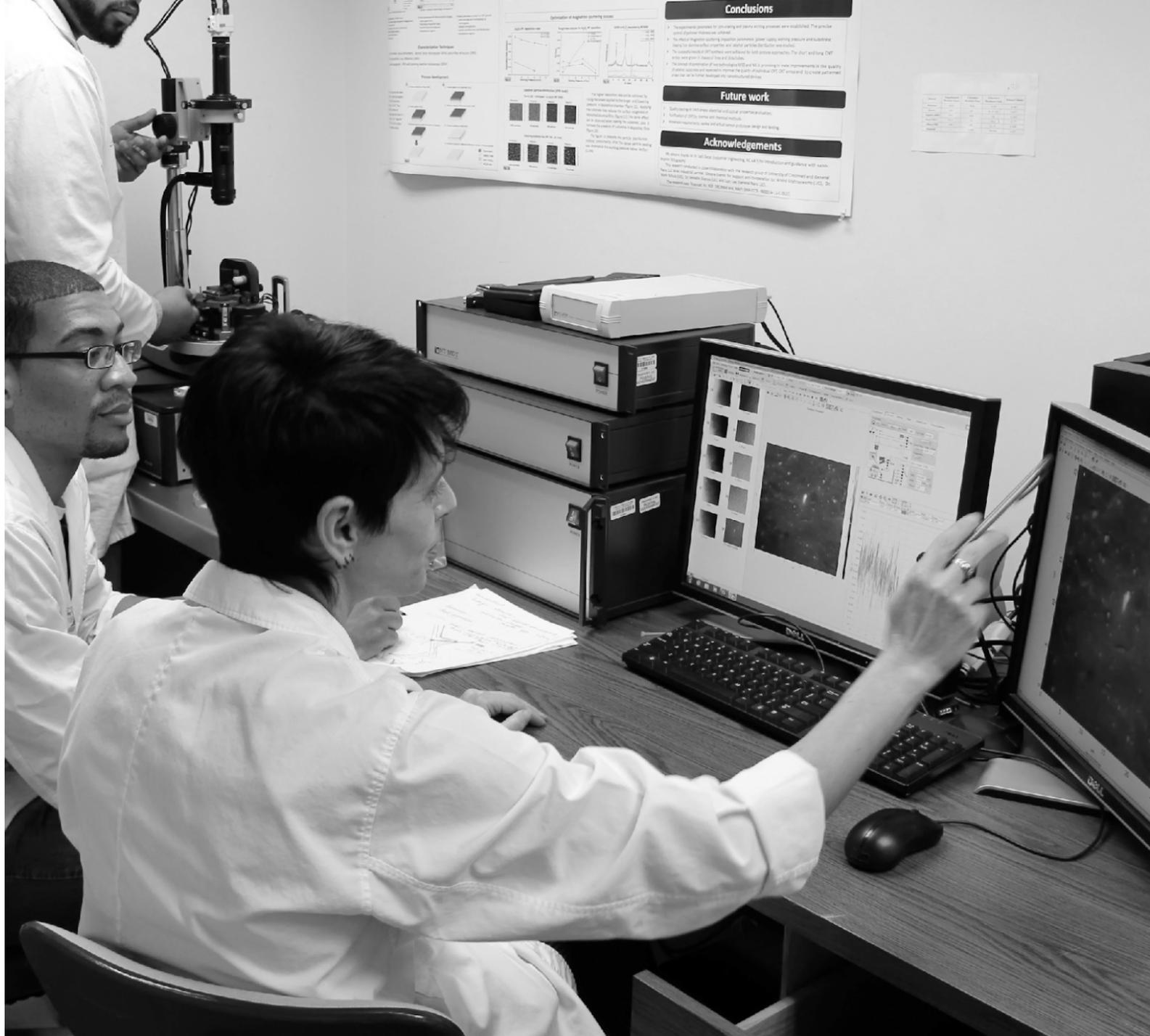


Collaborating Scientist
Software / Data
Authors

Chances are you are...

Developing advanced web interfaces to:

- Data collections
- Analysis capabilities
- Instruments
- Sensor data
- Citizen science projects
- Much more





We call these

science gateways /sī' əns gāt' wāz'/ *n.*

1. an online community space for science and engineering research and education.
2. a Web-based resource for accessing data, software, computing services, and equipment specific to the needs of a science or engineering discipline.

Also known as: research platforms, virtual laboratories, virtual research environments, advanced web portals, etc.



**Fortunately
you are not
alone.**



hubzero



THE AGAVE PLATFORM
YOUR SCIENCE-AS-A-SERVICE API PLATFORM

Science Gateways Catalog

Save time – reuse gateway technologies or discover gateways and virtual research environments for research, teaching, and learning

Total Entries: 449



**UNFortunately
you are not
alone.**

Science Gateways Catalog

Save time — reuse gateway technologies or discover gateways and virtual research environments for research, teaching, and learning

THE AGAVE PLATFORM
YOUR SCIENCE-AS-A-SERVICE API PLATFORM



GenApp

Total Entries: 449

Search

hubzero

APACHE
AIRAVATA



UNFortunately
you are not
alone.



Science Gateways
Community Institute

```
[disassembly]
=> 0x40063f <main+114>: file 0x400675 <main+168>
0x400641 <main+116>: mov rax,QWORD PTR [rbp-0x30]
0x400645 <main+120>: add rax,0x8
0x400649 <main+124>: mov rax,QWORD PTR [rax]
0x40064c <main+127>: mov esi,0x4007bd
0x400651 <main+132>: mov rdi,rax
0x400654 <main+135>: call 0x4004a0 <strcmp@plt>
0x400659 <main+140>: test eax,eax
0x40065b <main+142>: jne 0x400675 <main+168>
0x40065d <main+144>: mov edi,0x4007c2
0x400662 <main+149>: call 0x400480 <puts@plt>
0x400667 <main+154>: add DWORD PTR [rbp-0x18],0x1
0x40066b <main+158>: add DWORD PTR [rbp-0x14],0x2
0x40066f <main+162>: add DWORD PTR [rbp-0x10],0x3
0x400673 <main+166>: jmp 0x400667 <main+154>
0x400675 <main+168>: cmp DWORD PTR [rbp-0x24],0x1
0x400679 <main+172>: jle 0x40066d <main+224>
0x40067b <main+174>: mov rax,QWORD PTR [rbp-0x30]
0x40067f <main+178>: add rax,0x8
0x400683 <main+182>: mov rax,QWORD PTR [rax]
0x400686 <main+185>: mov esi,0x4007d8

[odItsZaPc]
[ Jump (z || s==0) ]
RIP 00000000040063f 7.@.... => `main + 114 in section .text of /voltron/tests/inferior_linux`
RAX 0000000004005cd ..@.... => `main in section .text of /voltron/tests/inferior_linux`
RBX 0000000000000000 .....
RBP 00007fffffffe5c0 .....
RSP 00007fffffffe590 ..... => 0x7fffffffe6a8 => 0x7fffffffe8b6 => "/voltron/tests/inferior_lin
RDI 0000000000000001 .....
RSI 00007fffffffe6a8 ..... => 0x7fffffffe8b6 => "/voltron/tests/inferior_linux"
RDX 00007fffffffe688 ..... => 0x7fffffffe8d4 => "XDG_SESSION_ID=3"
RCX 0000000000000000 .....
R8 00007ffff7dd4e80 .N..... => `initial in section .bss of /lib/x86_64-linux-gnu/libc.so.6`
R9 00007ffff7dea560 `..... => `_dl_fini in section .text of /lib64/ld-linux-x86-64.so.2`
R10 00007fffffffe450 P.....
R11 00007ffff7a36d0e .m..... => `__libc_start_main in section .text of /lib/x86_64-linux-gnu/lib
R12 0000000000400400 ..@.... => `_start in section .text of /voltron/tests/inferior_linux`
R13 00007fffffffe6a0 ..... => ""
R14 0000000000000000 .....
R15 0000000000000000 .....
CS 0033 DS 0009
ES 0000 FS 0000

0x0000000004005f9 14 int c=0,d=0,e=0;
(gdb)
0x000000000400604 16 if (argc > 1 && strcmp(argv[1], "sleep") == 0)
(gdb)
0x000000000400604 16 if (argc > 1 && strcmp(argv[1], "sleep") == 0)
(gdb)
0x000000000400604 21 else if (argc > 1 && strcmp(argv[1], "loop") == 0)
(gdb) si
0x00000000040063f 21 else if (argc > 1 && strcmp(argv[1], "loop") == 0)
(gdb)

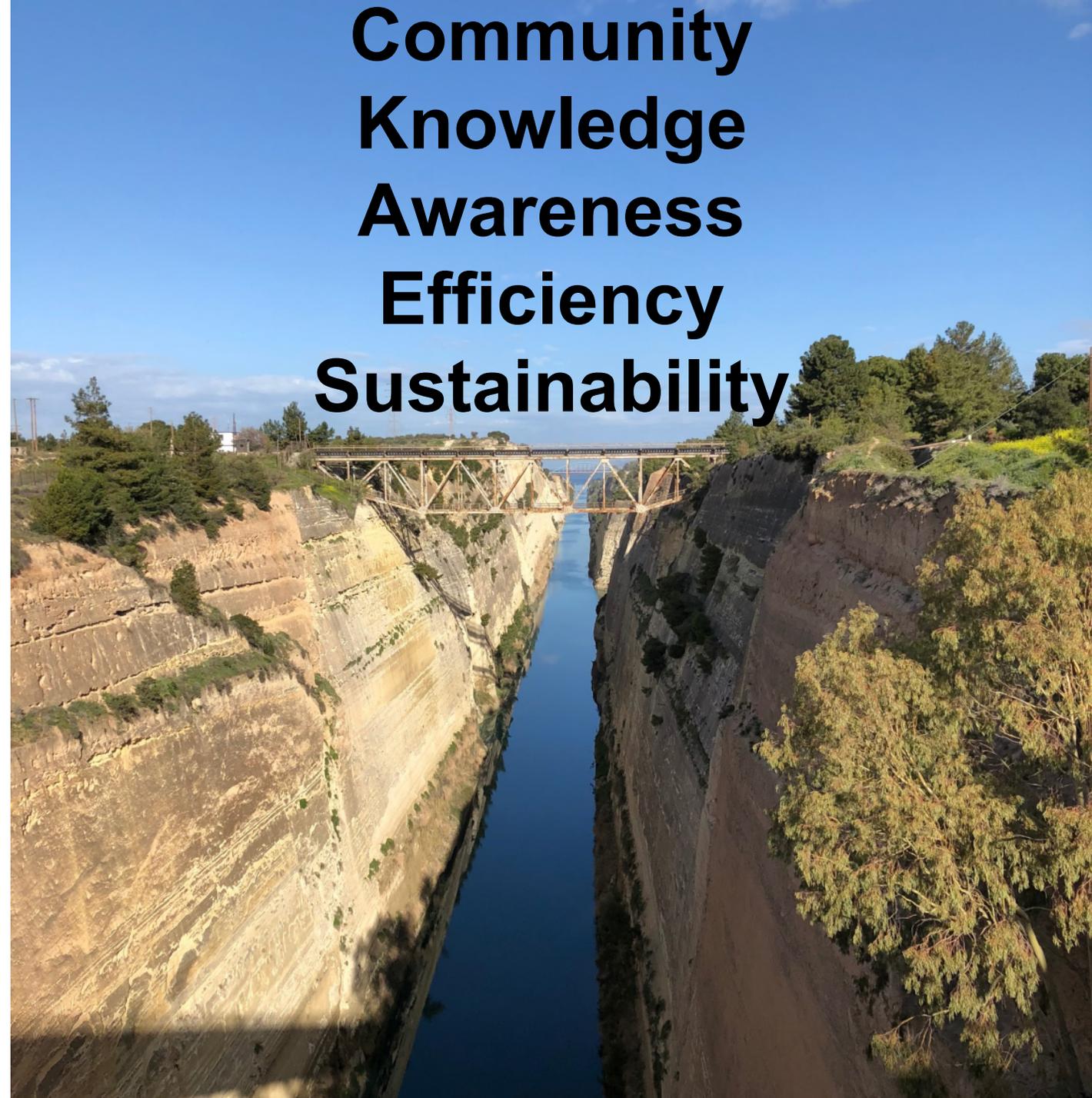
0x7fffffffe628: 51 13 7A 38 14 DA 85 7B | 0x28...{
0x7fffffffe620: 51 13 20 2F AD CA 85 7B | 0. /...{
0x7fffffffe618: 00 00 00 00 00 00 00 00 | .....
0x7fffffffe610: 00 00 00 00 00 00 00 00 | .....
0x7fffffffe608: A0 E6 FF FF FF 7F 00 00 | .....
0x7fffffffe600: D0 04 40 00 00 00 00 00 | ..@....
0x7fffffffe5f8: 51 13 80 E4 52 35 4A 84 | Q...R5J.
0x7fffffffe5f0: 00 00 00 00 00 00 00 00 | .....
0x7fffffffe5e8: CD 05 40 00 00 00 00 00 | ..@....
0x7fffffffe5e0: 00 00 00 00 01 00 00 00 | .....
0x7fffffffe5d8: A8 E6 FF FF FF 7F 00 00 | .....
0x7fffffffe5d0: 00 00 00 00 00 00 00 00 | .....
0x7fffffffe5c8: C5 6E A3 F7 FF 7F 00 00 | .n.....
0x7fffffffe5c0: 00 00 00 00 00 00 00 00 | .....
0x7fffffffe5b8: 00 00 00 00 00 00 00 00 | .....
0x7fffffffe5b0: 00 00 00 00 00 00 00 00 | .....
0x7fffffffe5a8: 00 00 00 00 00 00 00 00 | .....
0x7fffffffe5a0: 00 07 40 00 00 00 00 00 | ..@....
0x7fffffffe598: 00 00 00 00 01 00 00 00 | .....
0x7fffffffe590: A8 E6 FF FF FF 7F 00 00 | .....

[stack]
0x00a8:00007fffffffe590
```





**The formation of
an institute...
to institutionalize
best practices**



**Community
Knowledge
Awareness
Efficiency
Sustainability**



Our Products: Technology Consultation

- Technology selection, planning
- Development process
implementation
- Co-developer placement
- Cybersecurity scanning, design &
remediation
- Usability Assessment / Design



Our Products: Annual Conference

To be held in San Diego in
conjunction with eScience

- Gateways 2019: 23-25 September
- eScience 2019: 24-27 September

Sign up for newsletter at
ScienceGateways.org

Learn and interact with the
community of more than 100 gateway
stakeholders.





Our Products: Gateway Catalog

Look for a gateway with a pattern you like, and emulate rather than re-invent:

- Comprehensive listing of > 400 gateways
- Information about gateway supporting frameworks / technologies



Our Products: Prototype Hosting Environment

Experiment with creating your gateways with minimal investment in hosting resources



Our Products: People

- Enroll in educational opportunities related to gateway development and usage
- Find an intern to assist with your project for a summer
- Compete for a Young Professional of the Year award
- Assist with / participate in a variety of hackathons



Our Products: Business Consultation

- Marketing approach development
- Communication assistance
- Funding / sustainability planning
- Graphic design
- Licensing issues
- Activity based budget development / resource planning
- Understanding your market
- Developing expertise on your campus





Our Products: Gateways Bootcamp... a week long deep dive into your strategy



I have an idea! 

Articulate the value of your gateway and how it's distinctively different from what already exists.

Who benefits? 

Identify audience and stakeholder groups and consider how they impact your success.

Where does it fit in? 

Establish where your gateway solution fits within the existing market landscape of partners and competitors.

How do I make it happen? 

Define measurable goals for success and sustainability. Consider multiple needs such as technology, security, project management, usability, and funding.

How do I sell it? 

Spread the word!
Plan how to tell the unique story of your gateway.

I have an idea!



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Bootcamp at a Glance

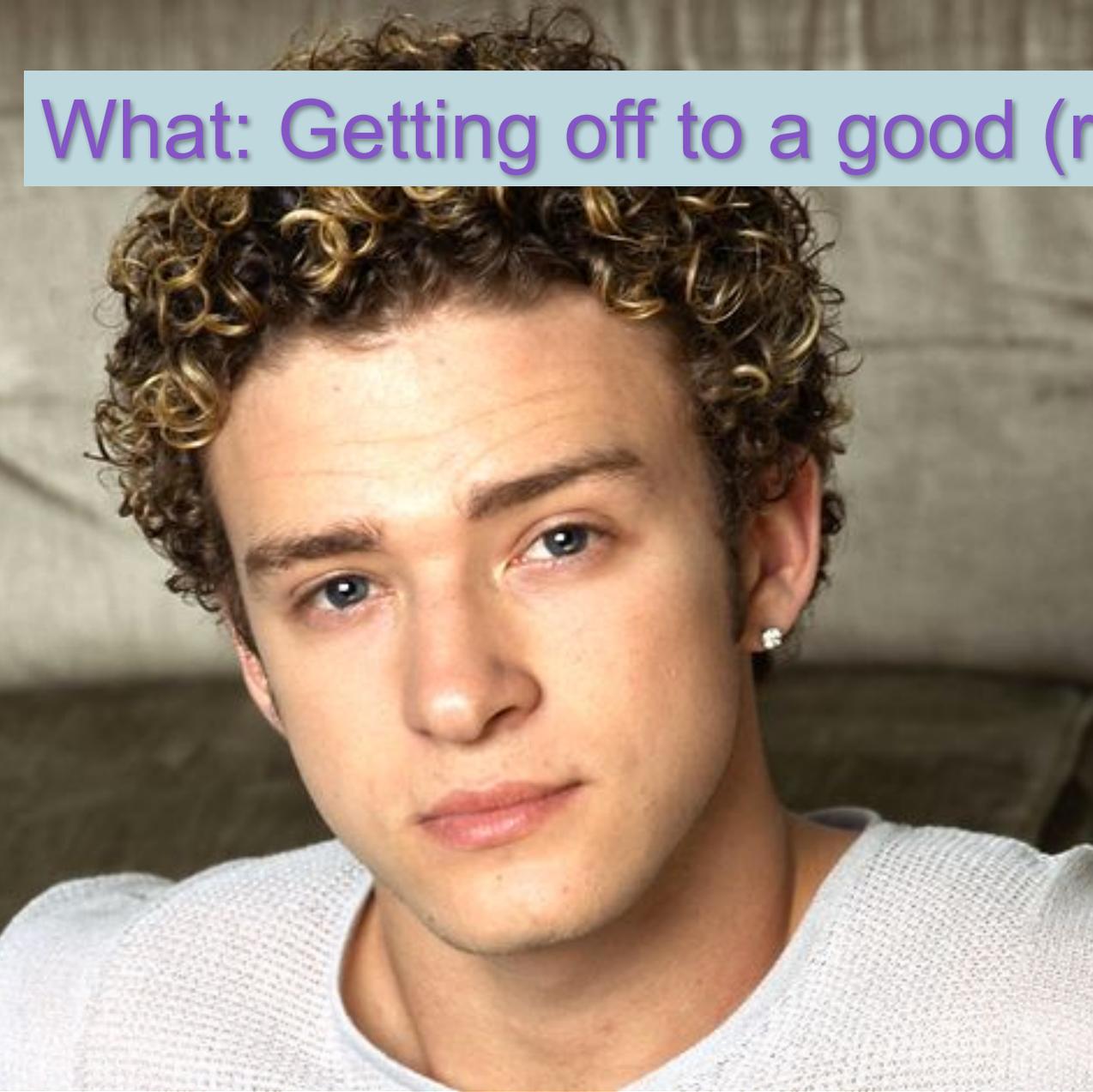
- Full 5 days
- Knowledge dissemination
- Interactivity
- Community formation
- Putting away the normal daily routine
- Homework



What: Getting off to a good start...



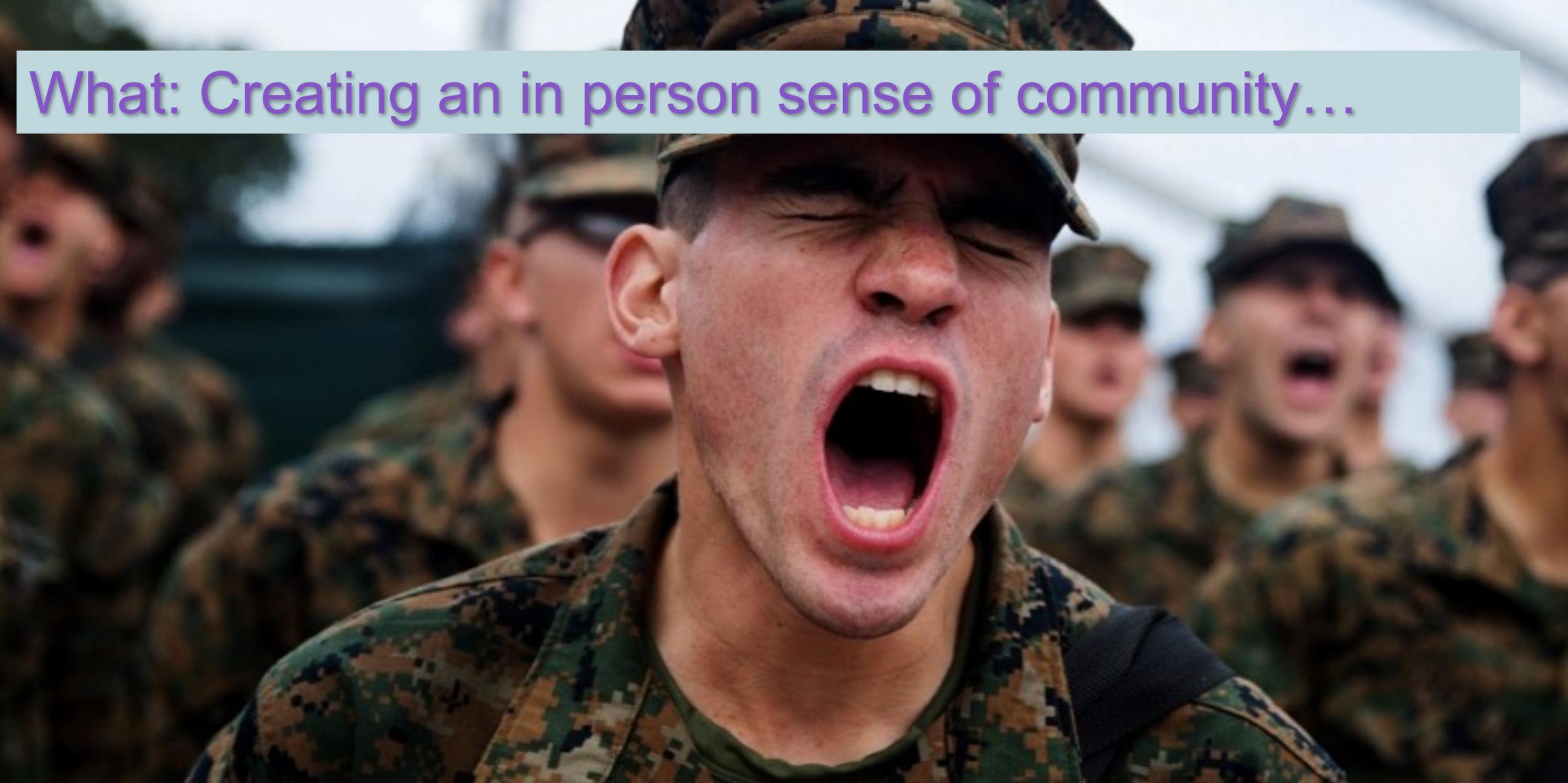
What: Getting off to a good (re)start...



What: Knowing how to know if you have a good start...



What: Creating an in person sense of community...



What: Creating an in person sense of community...



Patterned after...



Patterned after...



PROJECT LITERACY LAB

A PARTNERSHIP BETWEEN PEARSON + UNREASONABLE GROUP



(some of the) Key Elements to Cohort Formation

- Out of the ordinary
- Forced away time
- Extended period of time
- A common non-trivial task/ordeal
- Forced unfamiliar interactivity
- Common decompression time
- A deliverable
- An experience

*Feeling like it
is taking 115%
of your effort
to participate*







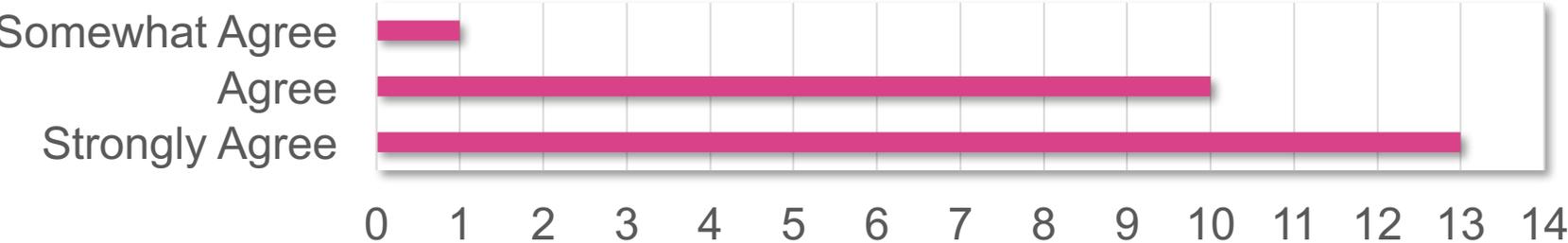


THE
GREEK ISLANDS
RESTAURANT



Quantitative Importance of Community

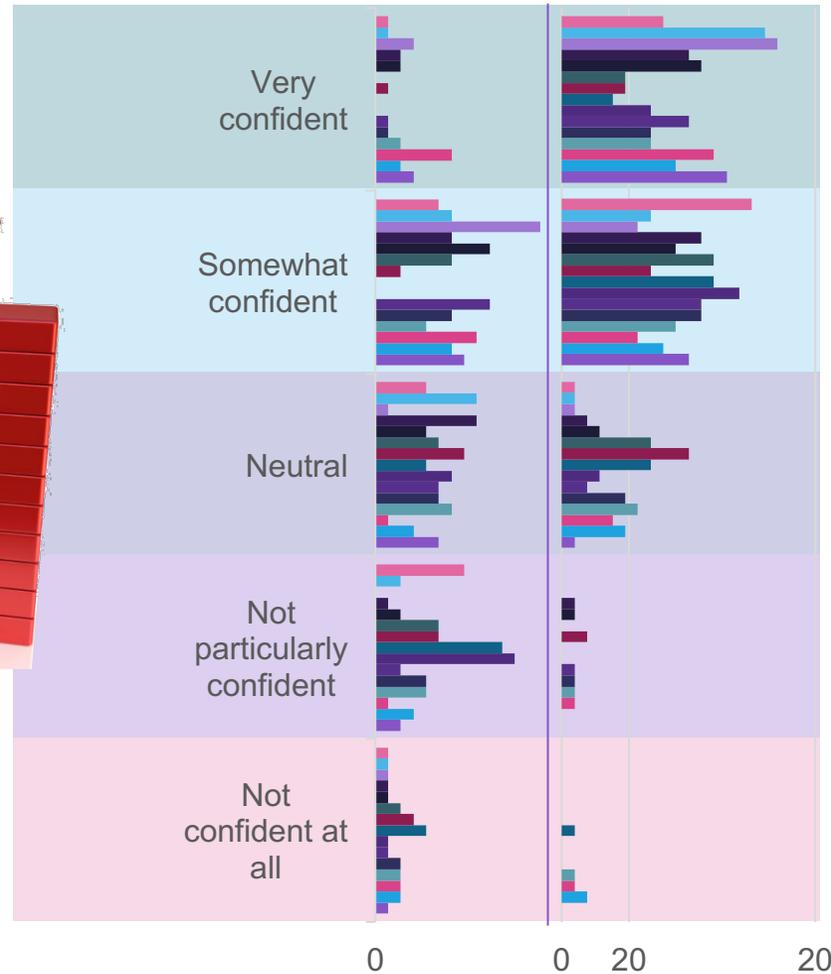
I made social connections at the Bootcamp that will be beneficial to my work with my gateway.



How valuable to the work of your gateway do you think it would be for you to keep in touch with members of this Bootcamp cohort?

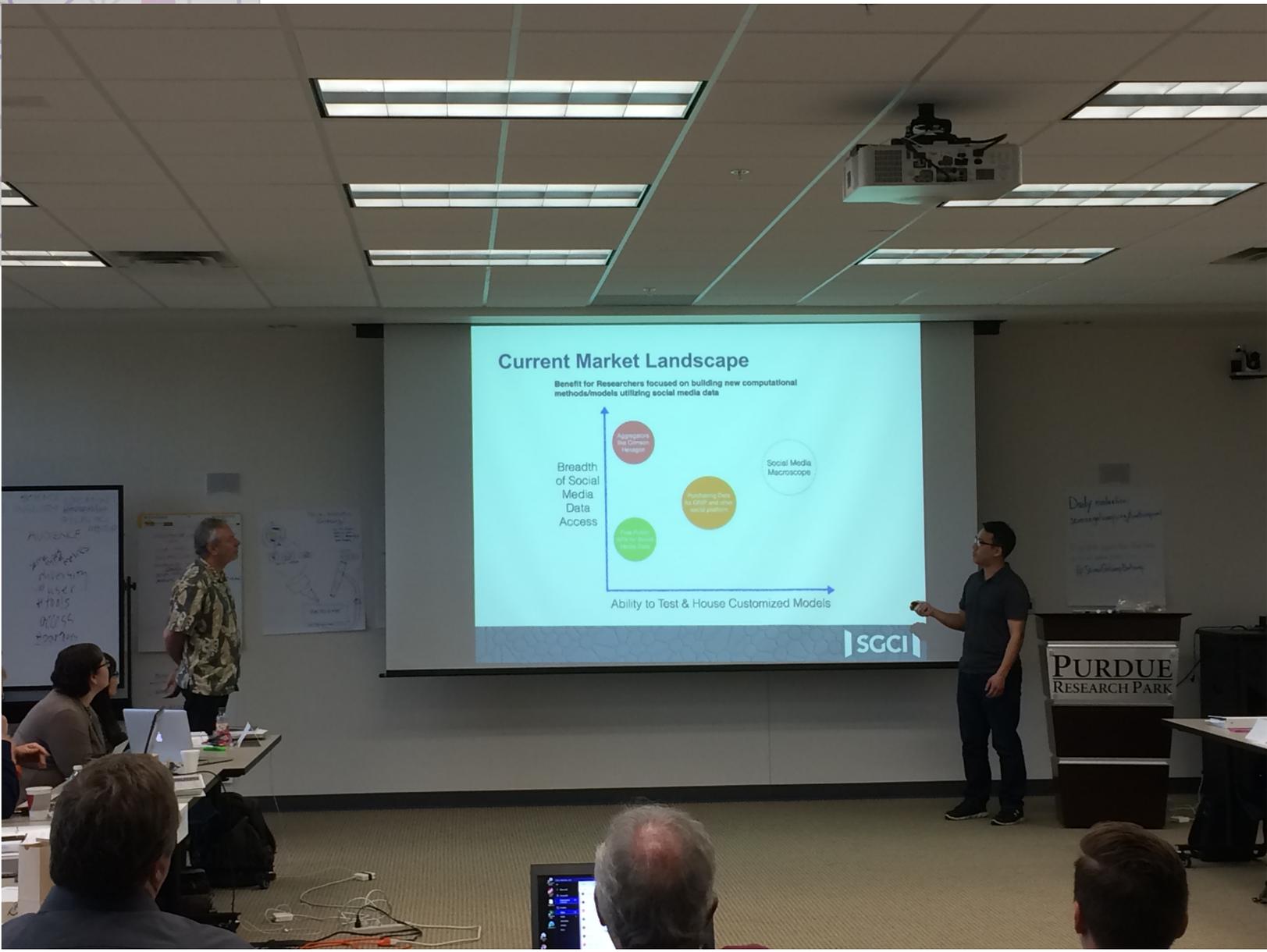


Impact on Confidence in Ability to Perform



- Identify the key factors that make a project sustainable
- Define a value proposition that captures how our project delivers value to users
- Identify key audience segments
- Identify what motivates key audience segments to use our Gateway
- Identify relevant direct and indirect competitors to our Gateway
- Pinpoint measurable targets that will help our Gateway attain its mission
- Develop a budget that will allow us to support the activities needed to reach our goals
- Design a funding model that includes multiple sources of reliable, renewable support
- Employ marketing tools to reach and engage our Gateway's target audience
- Provide a positive user experience
- Obtain on-campus resources
- Devise a strategy for measuring impact in more than one way
- Make technology choices and open source decisions
- Identify cybersecurity best practices for our Gateway
- Effectively communicate what our gateway offers







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the science gateway community

Pitch Deck Alpha

Science Gateways Bootcamp

Hosted by the SGCI Incubator

November 6-9, 2018

Boulder, CO

sciencegateways.org

Award Number
ACI-1547611



Napkin Drawing

What is it? What does it do?

What purpose does it serve?

Include your concrete language

Value Proposition

[MY PROJECT].....

WILL HELP [WHO?].....

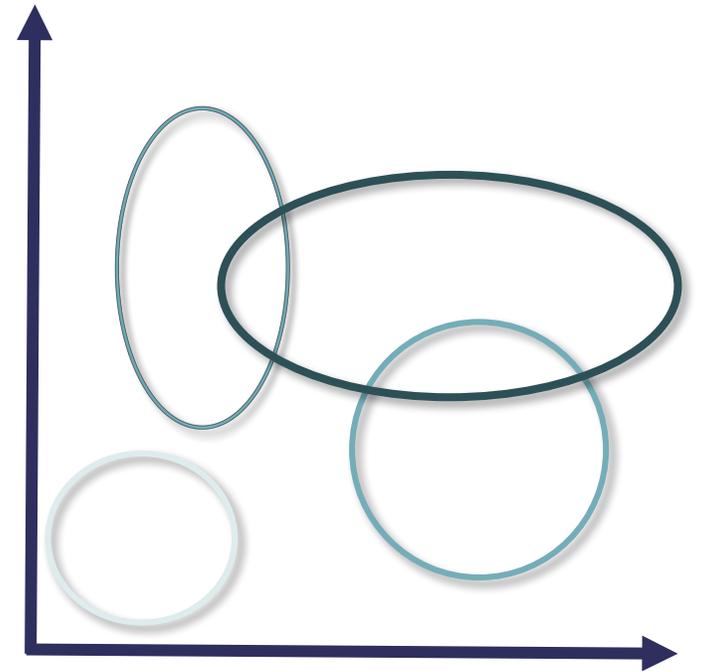
DO [WHAT?].....

BY [HOW?]

The logo for SGCI (Strategic Growth and Innovation Center) is located in the bottom left corner. It features the letters 'SGCI' in a bold, white, sans-serif font, flanked by two vertical white bars. The background of the logo area is a dark blue gradient with a network of interconnected nodes and lines in shades of purple, pink, and blue.

Current Market Landscape

- Provide an overview of the current market
- Discuss the key drivers impacting this market space
- Discuss the alternative categories and their positioning
- Highlight your opportunity



Target Audience

What are your target audience/customer segments?

What do you know about your target segments?

- Who are the decision makers and buyers?
- What criteria do they use?
- How long does it take?

How many customers are there?

Who are your early adopters/evangelist?

What are your secondary segments?

Financial Model

- My sources of support will include:

- Grants



- Support from my institution



- Support from other partners



- Revenue from...



Goal Setting

3 Month Goals

- 1.
- 2.
- 3.

6 Month Goals

- 1.
- 2.
- 3.



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Pitch Deck for Science Gateway for Data Management Education

From Science Gateways Bootcamp in Oct 2017

Nancy Hoebelheinrich (& Erin Robinson)

ESIP Winter 2019

Tuesday, January 15, 2019

Bethesda, MD

sciencegateways.org

Award Number
ACI-1547611



Motivation: Turn a *Project* into a *Gateway*: Data Management Training Clearinghouse → Data Management Education Gateway

The screenshot shows the ESIP Data Management Training Clearinghouse website. The header includes the ESIP logo and navigation links: Home, Browse, Search, Submit, Help, About, and a Log in button. The main content area features a welcome message, a description of the clearinghouse, and a diagram of the CDI SSF Components. Below the main content are three boxes for Search, Browse, and Submit. The footer contains social media links, a subscribe form, a search bar, and contact information.

ESIP Data Management Training EXPLORE - Home Browse Search Submit Help - About Log in

Welcome to the DMT Clearinghouse

The Data Management Training (DMT) Clearinghouse is a registry for online learning resources focusing on research data management.

It was created in a collaboration between the U.S. Geological Survey's Community for Data Integration, the Earth Sciences Information Partnership (ESIP), and DataONE.

For questions or feedback, please contact clearinghouseEd@esipfed.org

[Read More](#)

CDI SSF Components - <https://www2.usgs.gov/cdi-ssf/cdi-ssf-components.pdf>

Search

Find learning resources by keyword, name, date, license and cost

Browse

See a list of learning resources by educational framework

Submit

Submit your learning resources to the Clearinghouse

CONNECT WITH US
on social networks

SUBSCRIBE
to the monday updates

SEARCH
this esip site

Questions or issues with the website? Please contact clearinghouseEd@esipfed.org

ESIP is a collaboration among many partner organizations, activities are sponsored by NASA and NOAA and managed by the Foundation for Earth Science.

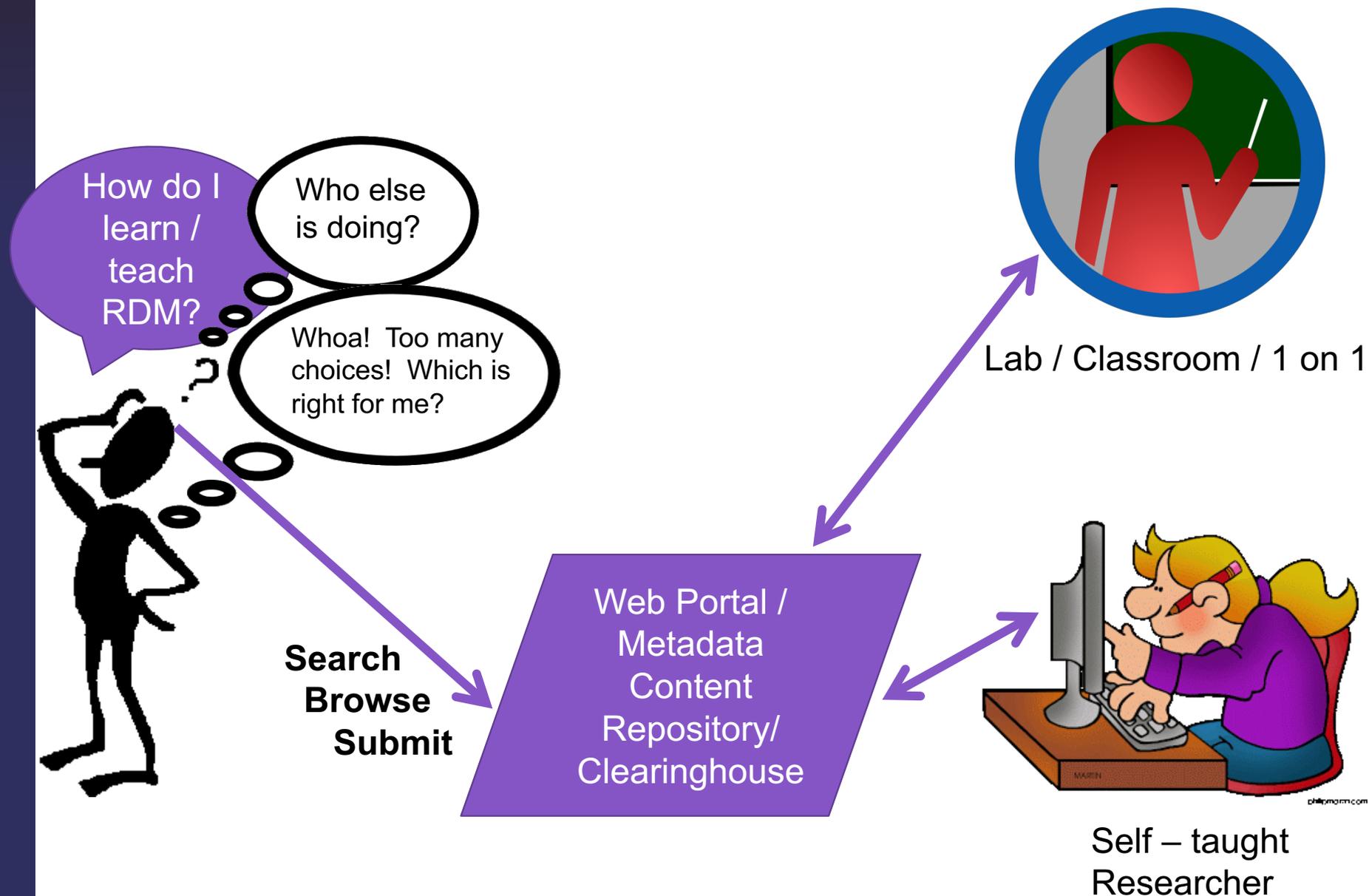
<http://dmtclearinghouse.esipfed.org>



Napkin Drawing



ISGCI



Target Audiences

Research Data Management Learner

- Academic researchers & their teams who want to learn just what they need to know, just when they need to know it
- Independent & government researchers who create and provide data

Contributor

- Key segments within science research data communities whose job it is to teach about data management:
 - Data repository team members
 - Academic & govt. data librarians
 - Data science educators



Value Proposition for Content Consumer

The Science Gateway to Data Management Education

WILL HELP **Science Researchers.....**

TO **find, use and recommend specialized & targeted learning resources on research data management.....**

BY **searching and browsing the Data Management Training Clearinghouse, and using the recommender, ranking & learning facilitation services of the Science Gateway.**

SGCI

Value Proposition for Content Contributor

The Science Gateway to Data Management Education

***WILL HELP* Research Science Data Management Educators**

.....

***TO* find, use and share and get credit for
specialized educational content on research data management.....**

***BY* contributing (submitting) to
the Data Management Training Clearinghouse.**



Functionality

Current

- Search
- Browse
- Metadata submission
- User profiles
- Limited capacity for efficient editorial review processes
- Minimal security
- Minimal built in usage metrics (based on Google Analytics)

Desired (current +)

- Better security options for spamming and for more advanced usage metrics
- Mechanisms to:
 - Allow users to annotate & rank resources based on an embedded community built assessment framework
 - Facilitate the curation of resources, such as using current & ongoing gap analyses, and gather user analytics
 - Create customized lists of resources from inventory
 - Provide real-time educational offerings that can be accessed via the educational gateway
 - Improve the efficiency of editorial review processes in order to maintain quality control & currency of resources, e.g., by targeted URL checking and notifications

Goals

3 Month Goals

1. Plan, prepare & implement awareness & usability testing event at AGU for data management learner Clearinghouse user
2. Increase inventory of resources in portal by 25 – 50 percent
3. Develop and begin implementing an ongoing marketing plan to raise awareness (so people care)

6 Month Goals

1. Identify, invite and plan for face to face meeting of potential Advisory Board members
2. Adapt usability testing framework to content contributor user and conduct usability testing at ESIP Winter meeting
3. Explore the options for moving from current hosting infrastructure to HubZero infrastructure

What has happened since October 2017?



Found some funding!!

- Found a partner with the University of New Mexico to seek funding
- Together we were awarded a 3 year National Leadership Grant by the Institute of Museum & Library Services which will move us forward toward our desired functionality (2018 – 2021)

Added functionality from list of desired adds:

- Mechanisms to:
 - ★ Allow users to annotate & rank resources based on an embedded community built assessment framework
 - ★ Facilitate the curation of resources, such as using current & ongoing gap analyses, and gather user analytics
 - Create customized lists of resources from inventory
 - Provide real-time educational offerings that can be accessed via the educational gateway
 - ★ Improve the efficiency of editorial review processes in order to maintain quality control & currency of resources, e.g., by targeted URL checking and notifications

What else has happened since October 2017?

- Found new collaborative partners:
 - AGU / RDA Enabling FAIR project stakeholders
 - Australian Research Data Commons
 - A number of other U.S. research libraries
 - European Commission's GO FAIR Project
- Organized two successful crowdsourcing events (helped test that method for community engagement & sustainability)
- Expanded reach from US-centric to include:
 - European organizations & resources
 - Australian organizations & resources
 - Soon to be reaching out to Africa & hopefully, South America
- More than doubled size of inventory of educational resources
- Diversified the range of science (& some social science) disciplines covered



What did we do / are we doing?

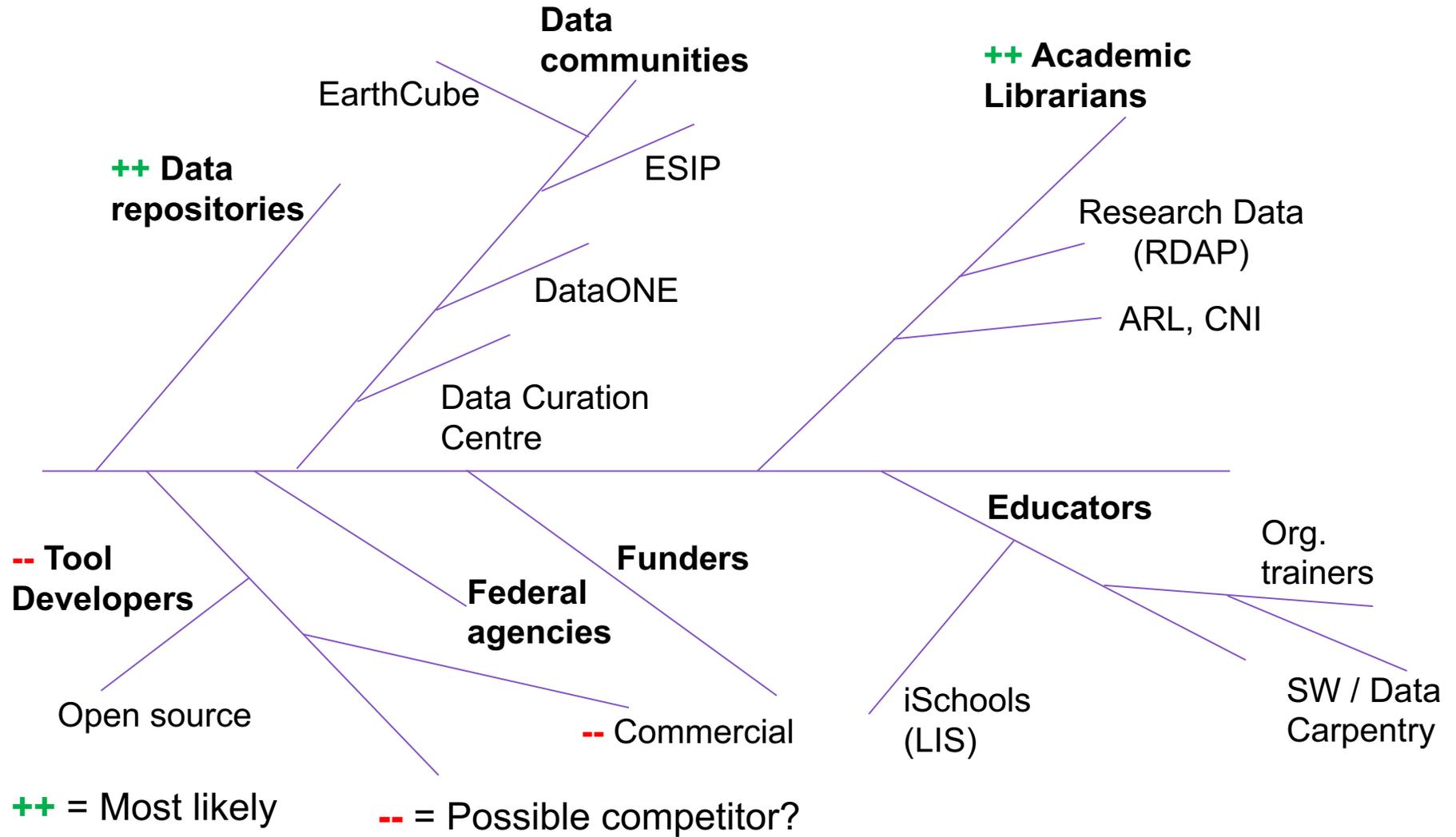
- Kept things simple & looked for incremental progress
- Broadened the scope a bit to include training during the entire research / data lifecycle
- Jumped to help on aligned projects, i.e., AGU / RDA Enabling FAIR Data Project
- Found dedicated partners who believe in the need & approach & help to spread the word
- Seem to have hit the right market niche



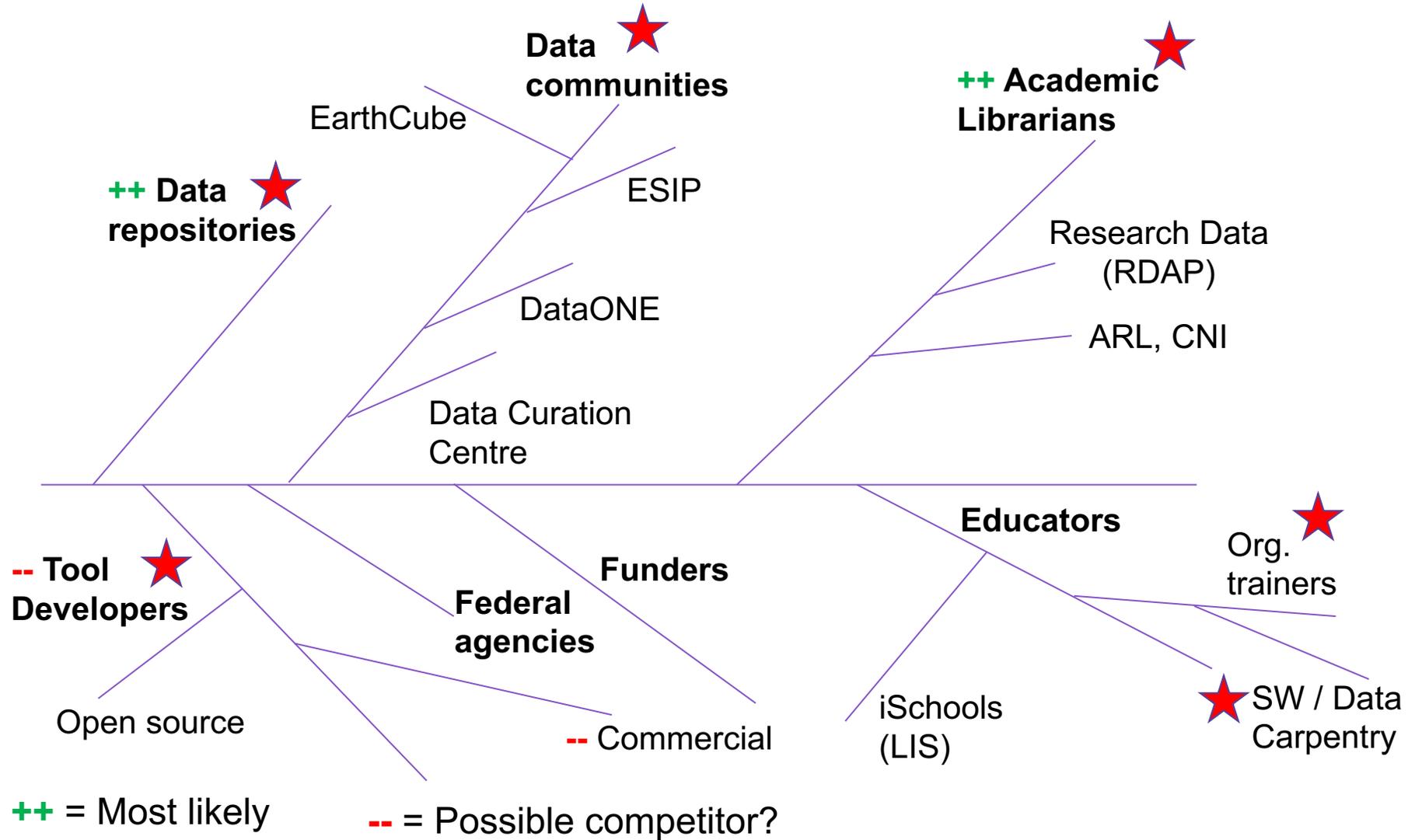
Market Development for Contributors



SGCI



Market Development for Contributors



What's next?

- Fulfill our existing obligations per the IMLS grant
- Continue to look for longer term funding, especially for:
 - More robust technical infrastructure
 - Filling the gaps in topics and dearth of creators / contributors of educational resources
 - Expand rewards for content contributors & content users / re-users
- Keep our eyes & ears out for other collaborators!
 - Interested???



What's next – continued...

- Keeping our eyes & ears out for other collaborators!
- Interested???



Nancy Hoebelheinrich, Knowledge Motifs LLC (nhoebel@kmotifs.com)





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ESIPLab Geoweaver

Ziheng Sun, Liping Di

Hosted by the SGCI Incubator

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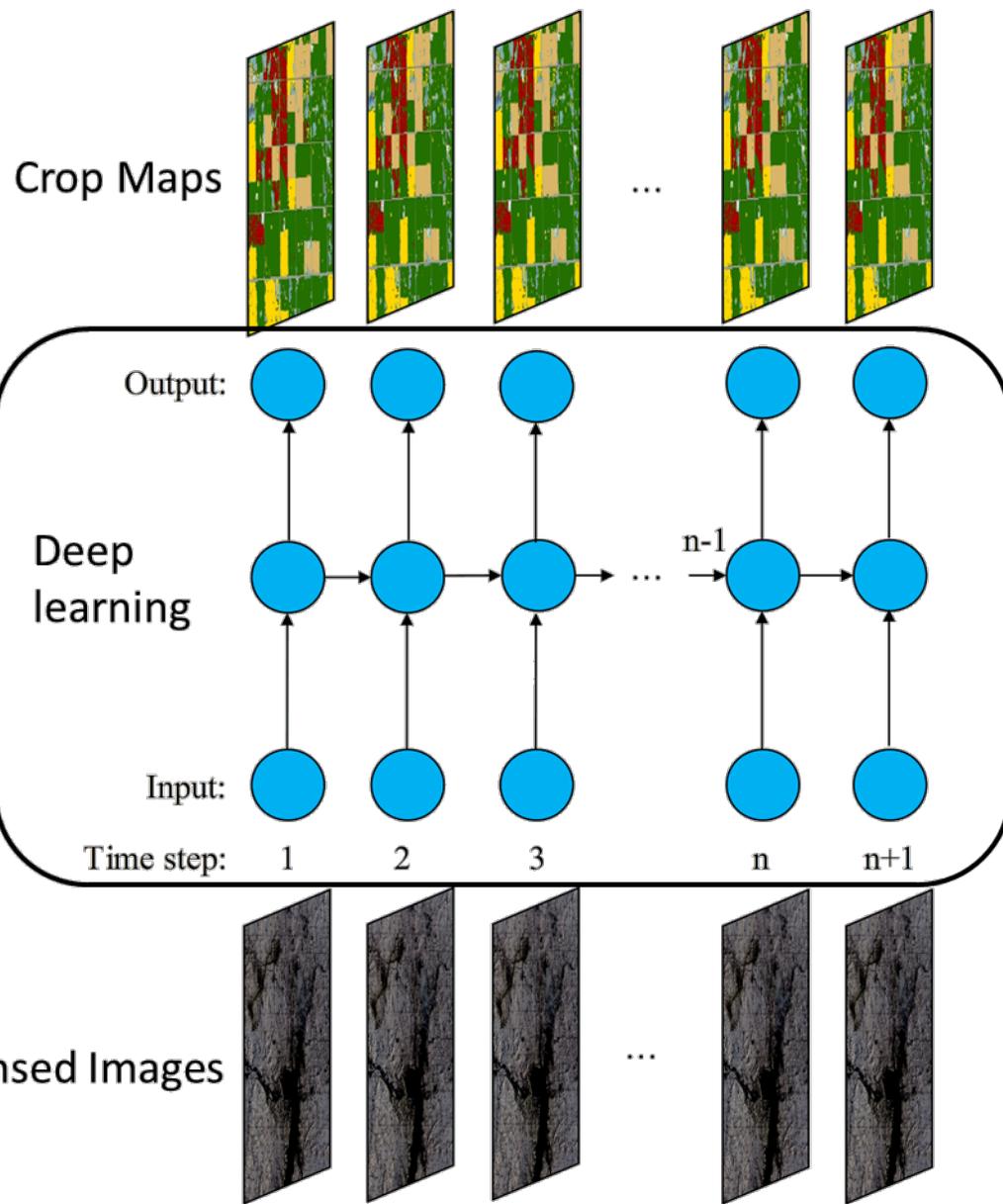
Napkin Drawing



SGCI


geoweaver

Remote Sensed Images



Value Proposition

[Geoweaver].....

WILL HELP [crop map stakeholders]

[Get crop maps with higher accuracy and temporal resolution].....

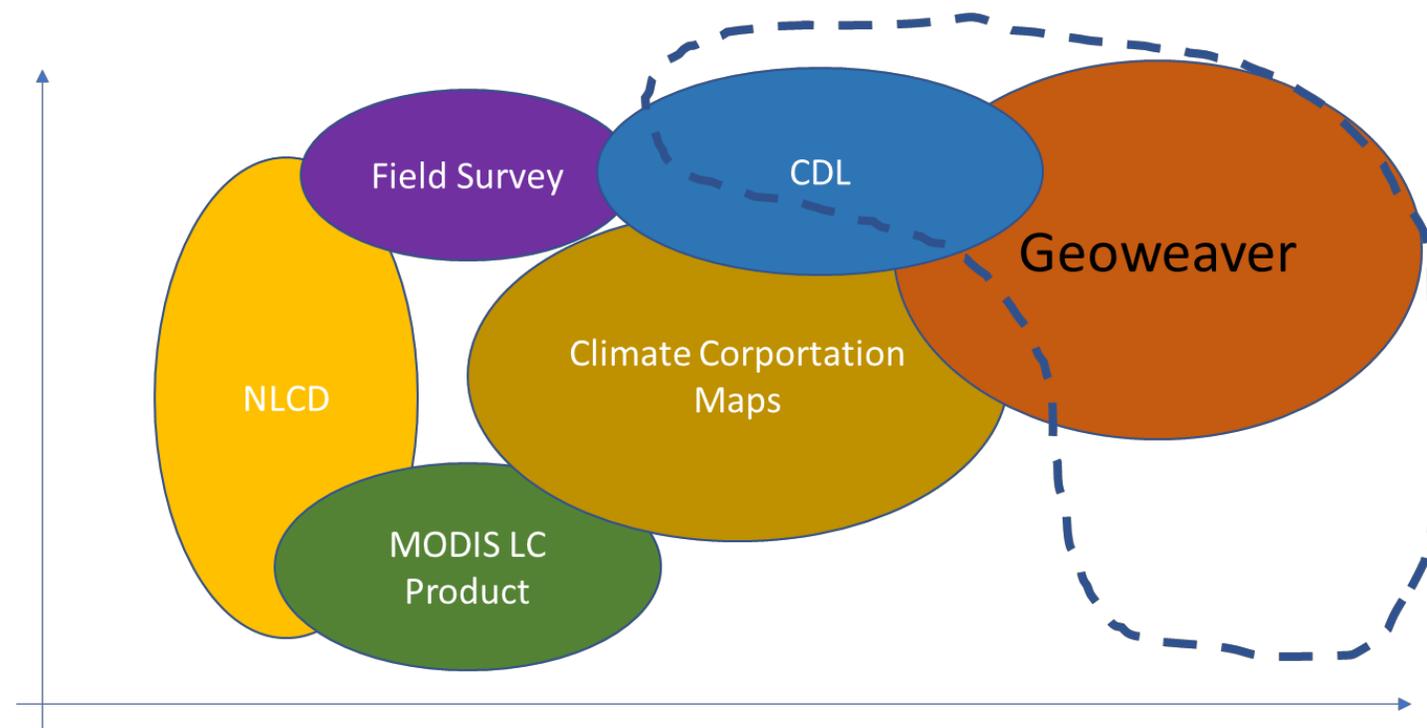
BY [providing a deep-learning-powered and web-based workflow system]



Current Market Landscape



Overall accuracy
(user risk)

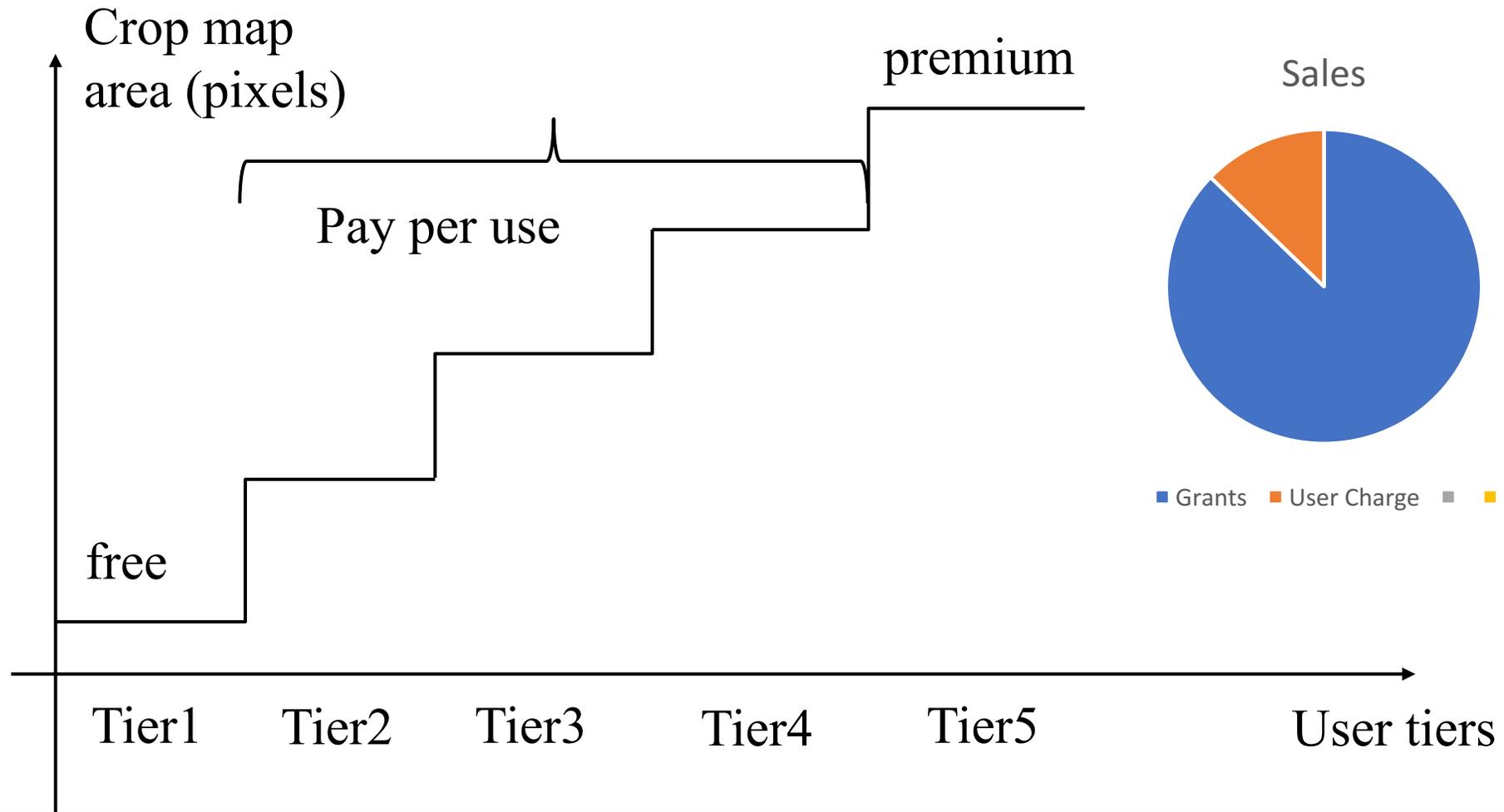


Customization
(quantity, flexibility, on-demand, availability)

Target Audience

- Crop insurance companies
- Researchers on yield estimation
- Researchers on agricultural drought
- USDA policy makers
- Education on crop map classification
- Citizen scientists on crop mapping
- All kinds of Agricultural conferences, meetings, webinars, and workshops

Financial Model



Goals

3 Month Goals

1. Release Geoweaver software on Github
2. Publish a Geoweaver instance
3. Have first 50 users

6 Month Goals

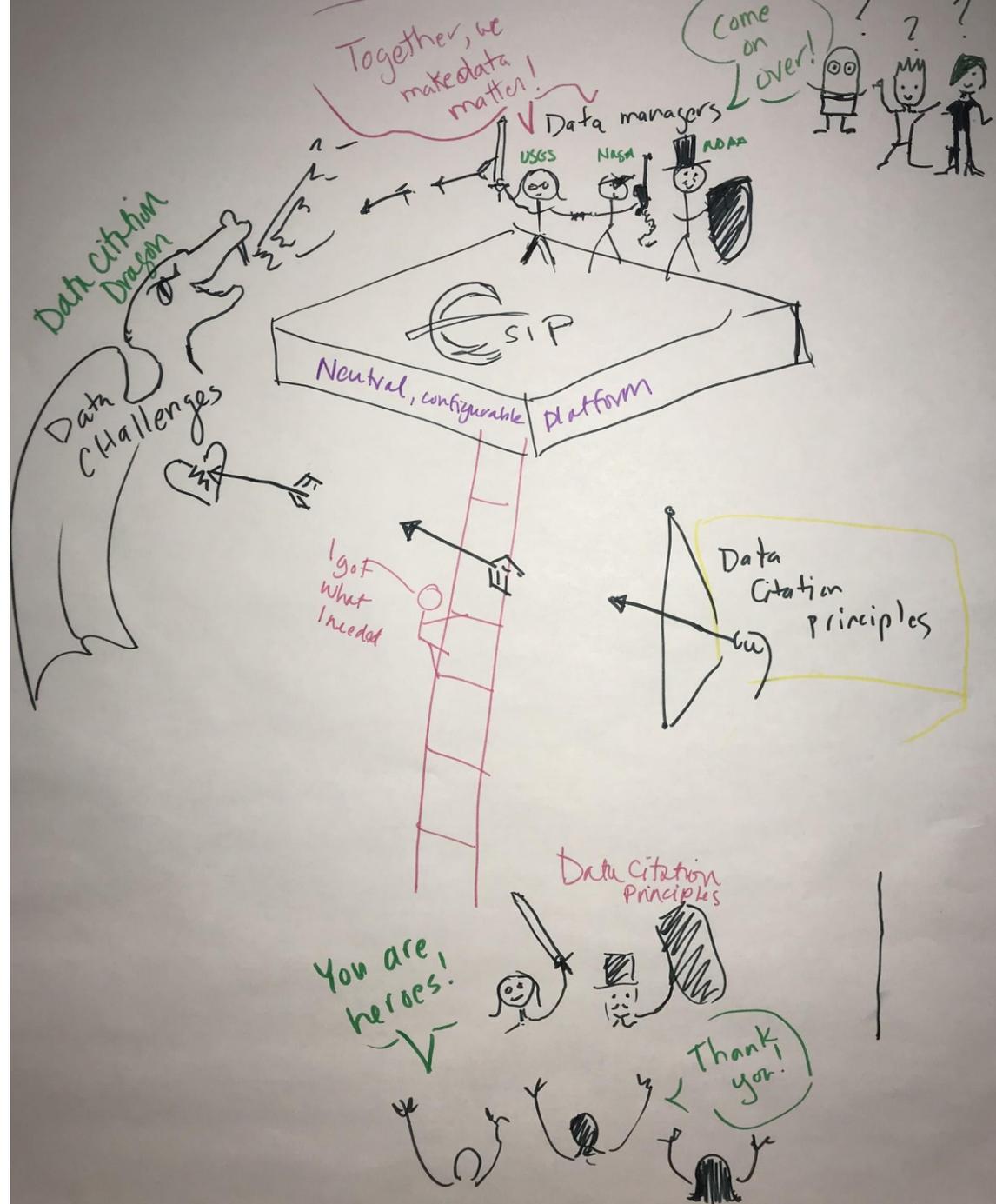
1. helps crop map stakeholders have easier and flexible access to high quality crop maps
2. Geoweaver allows users to generate their own crop maps on demand or based on their own images
3. The crop maps produced by Geoweaver are used in downstream models like estimating yield, monitoring agricultural drought
4. educate deep learning practitioners and citizen scientists in producing crop maps.
5. Have 100 users

ESIP

Hosted by the SGCI Incubator

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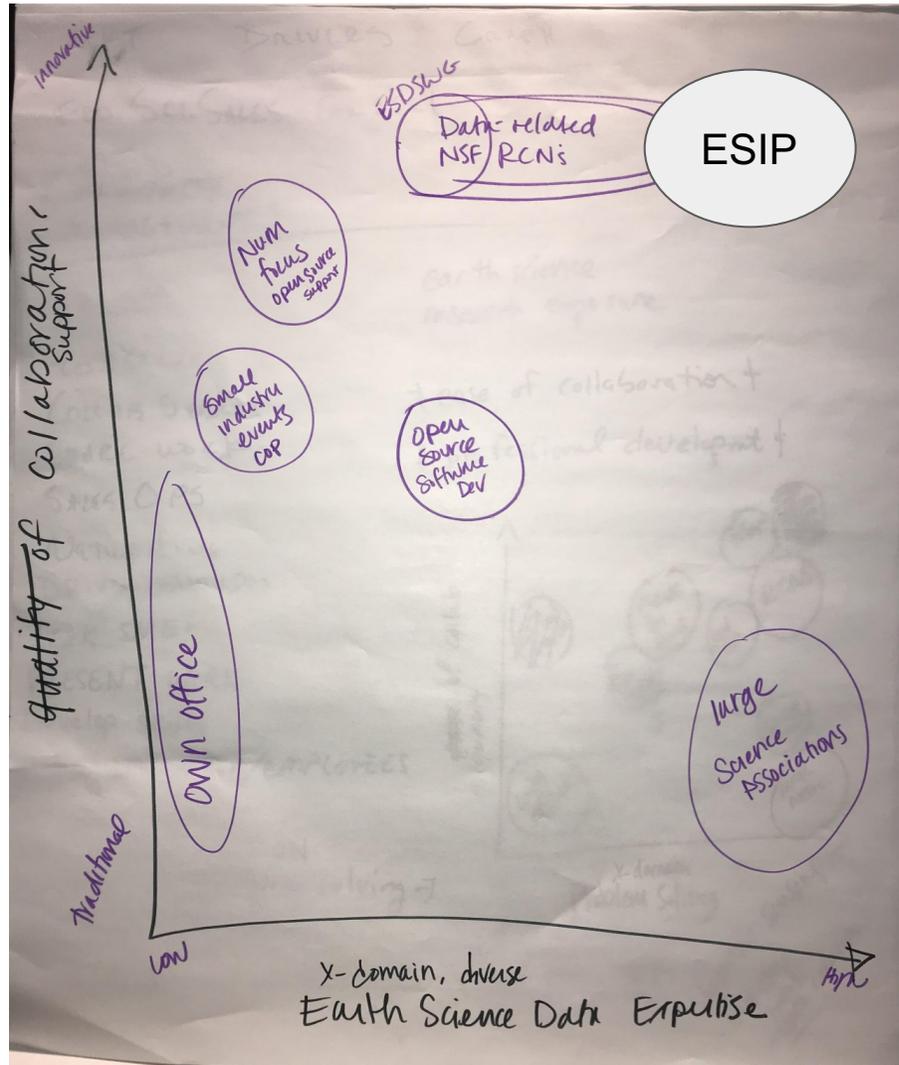


ESIP's Value Proposition

ESIP will help members of the Earth Science data community find each other across organizations by fostering rich collaborative experiences like meetings and seed funding to further data interoperability

Make Data Matter Together

Market Landscape



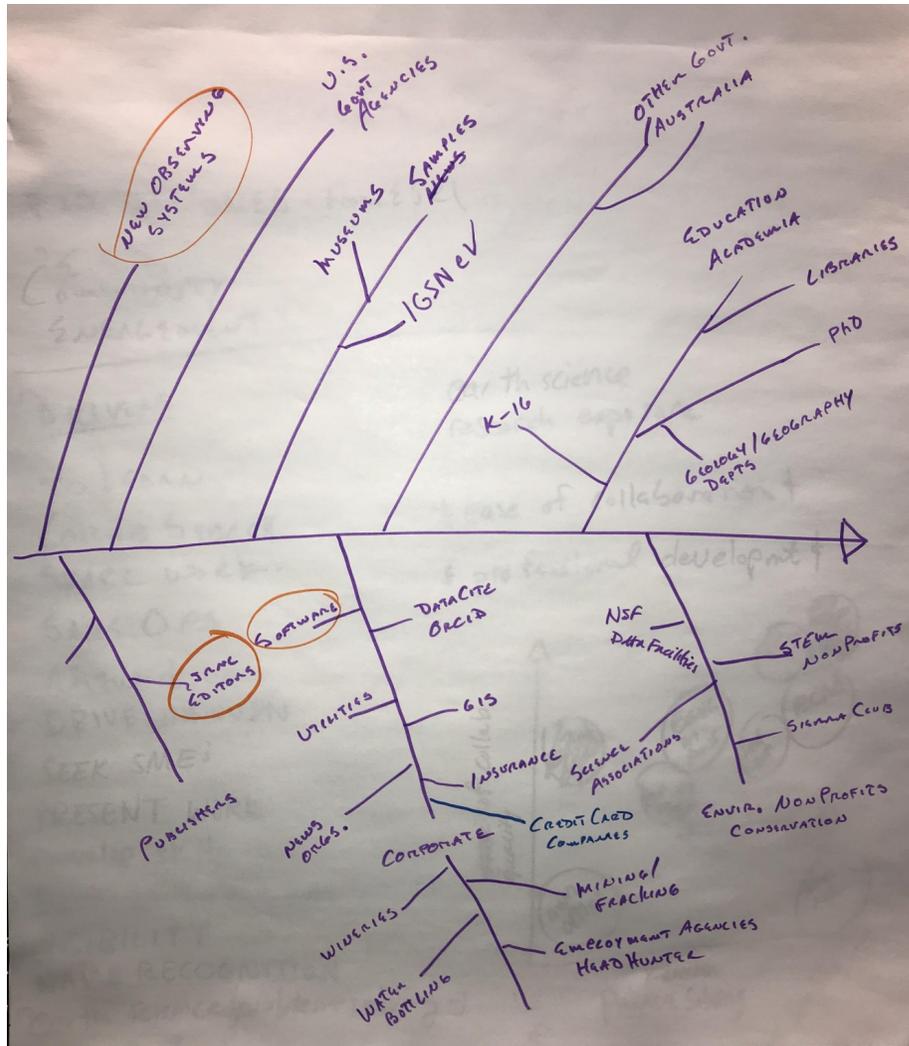
Drivers:

- Quality of Collaboration Support
- Cross-Domain Earth Science Expertise

Target Audience - Early Adopters

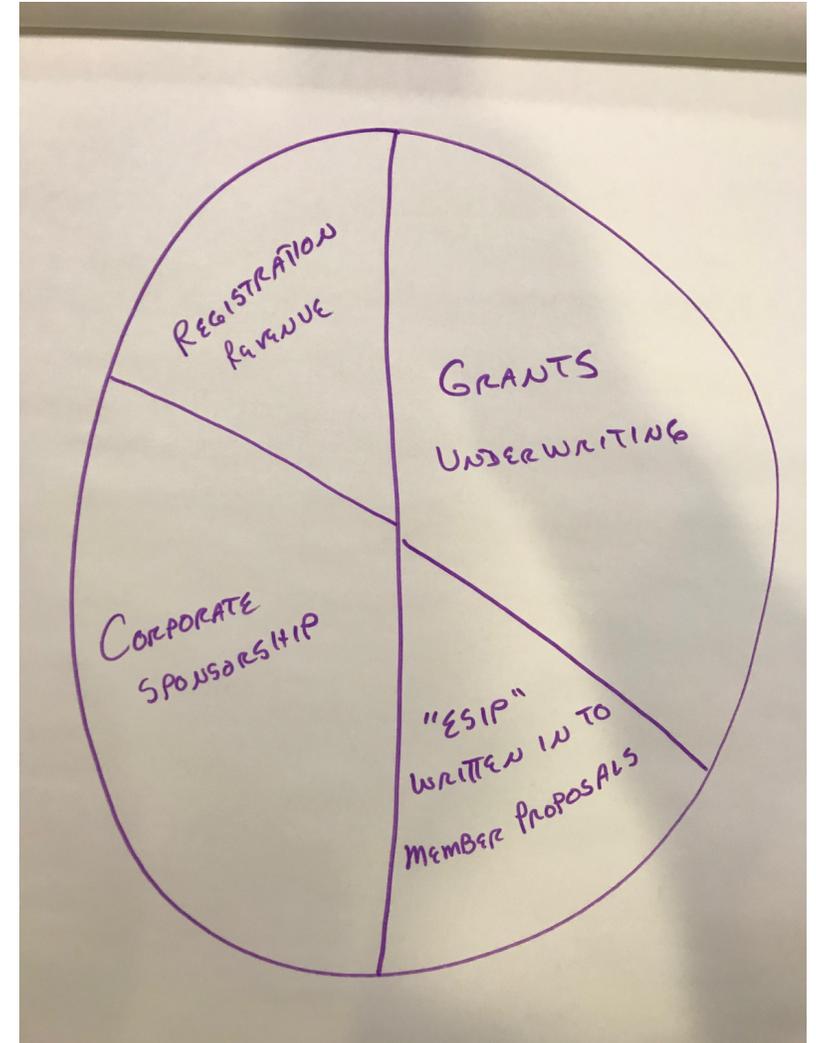
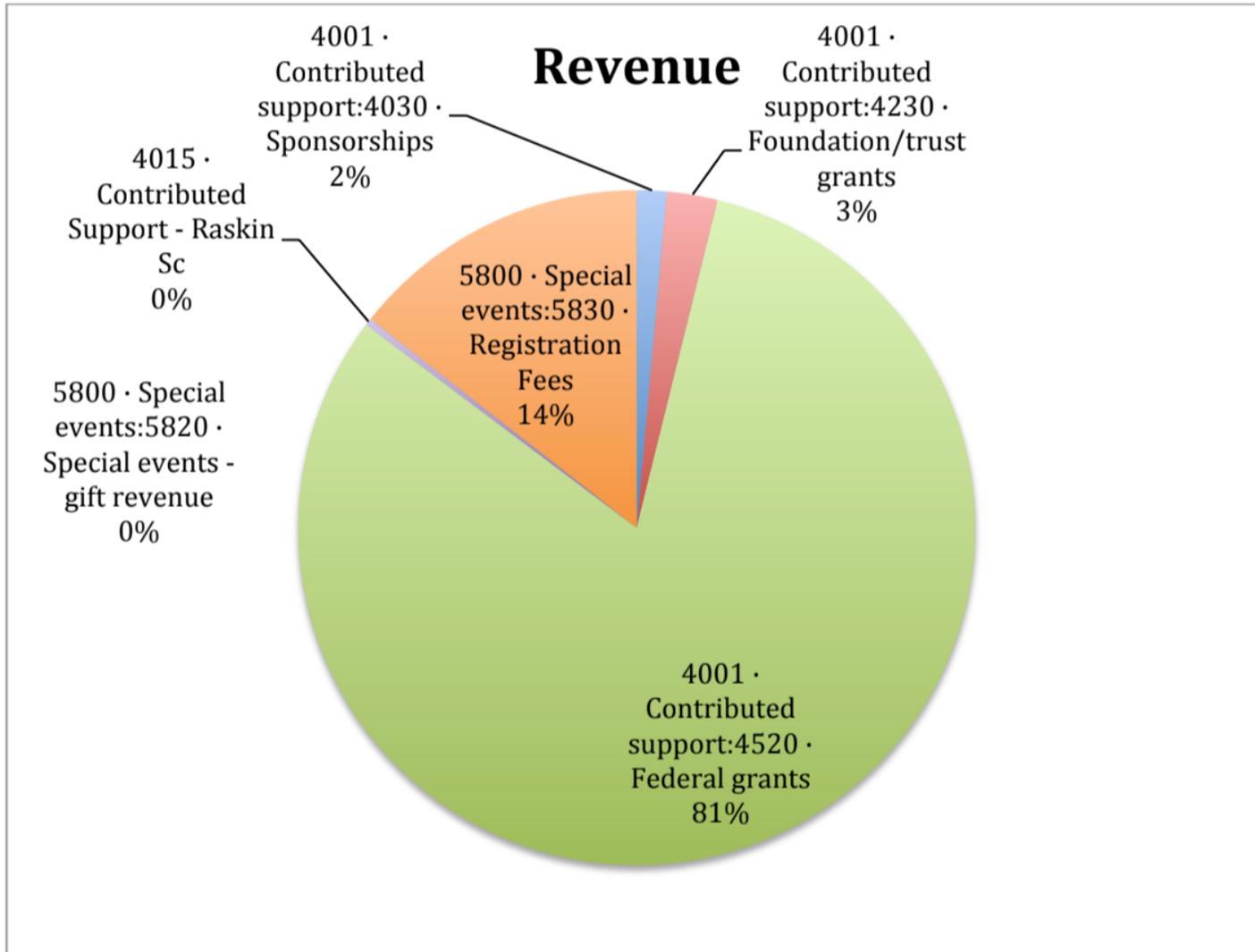
- Current ESIP Members
 - Data Managers - Academic & Federal
 - Data-savvy Researchers
 - Application and Tool Developers
 - Current Federal Sponsors (NASA, NOAA, USGS)
 - Educators
- We have 110 member organizations
- ~300 people come to ESIP Meetings
- ~1000 people on our mailing list, Monday Update

Target Audience



- Corporate
- Other U.S. Gov't Agencies
- Other Gov'ts (Australia, etc)
- Academia
- Non-profits (e.g., environmental)
- Physical Sample Communities
- New Observing Systems

Financial Model



3 Month Goals

1. Create marketing materials with membership benefits
2. Update website with corporate partner landing page, w/ analytics
3. Test value proposition at AGU Data FAIR and ESIP Winter Meeting and other meetings.

6 Month Goals

1. Develop cost model for tiered ESIP services.
2. Update 1-pagers for other audiences.
3. Gather community input on next phase of website development.

Want to connect with ESIP?

Text ESIP to 345345



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MetaDIG

Ted Habermann, Sean Gordon, Anna Milan

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sciencegateways.org

Award Number
ACI-1547611



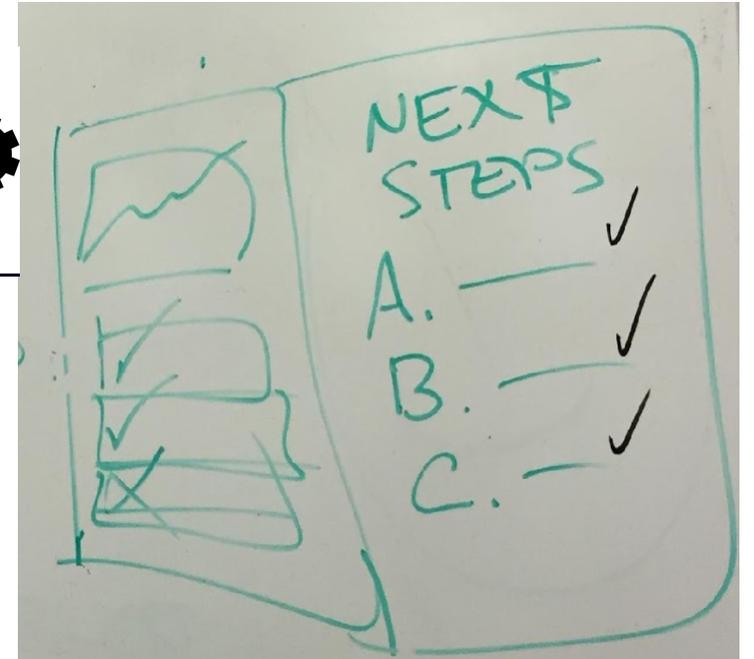
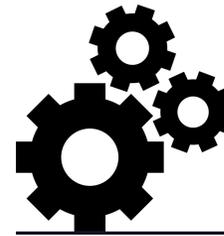
Napkin Drawing



ISGCI



MetaDIG provides custom metrics and insights that tame the Metadata Monster for repositories.



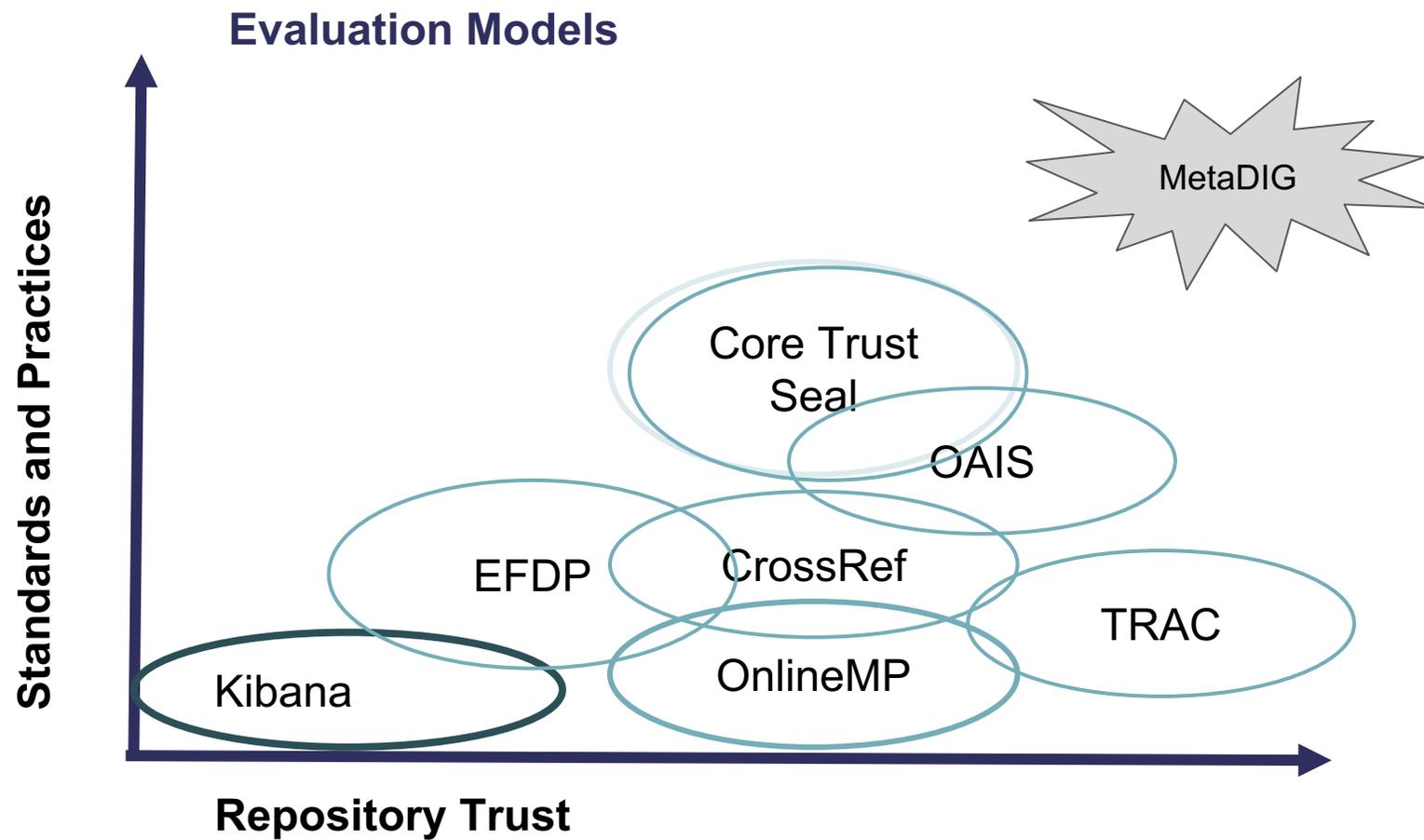
Target Audience

- Repositories (managers, curators, data managers), data providers
- What do you know about your target segments?
 - Repository Managers, Funders, Data Providers
 - What criteria do they use? Citations, data usage, visibility
 - How long does it take? Market education may slow us down.
- There are 2500 data repositories described in re3data
- Who are your early adopters/evangelist? BCO-DMO, DataONE, ESIP Documentation Cluster
- Secondary segments: Museums, Citizen Science, software developers and authors

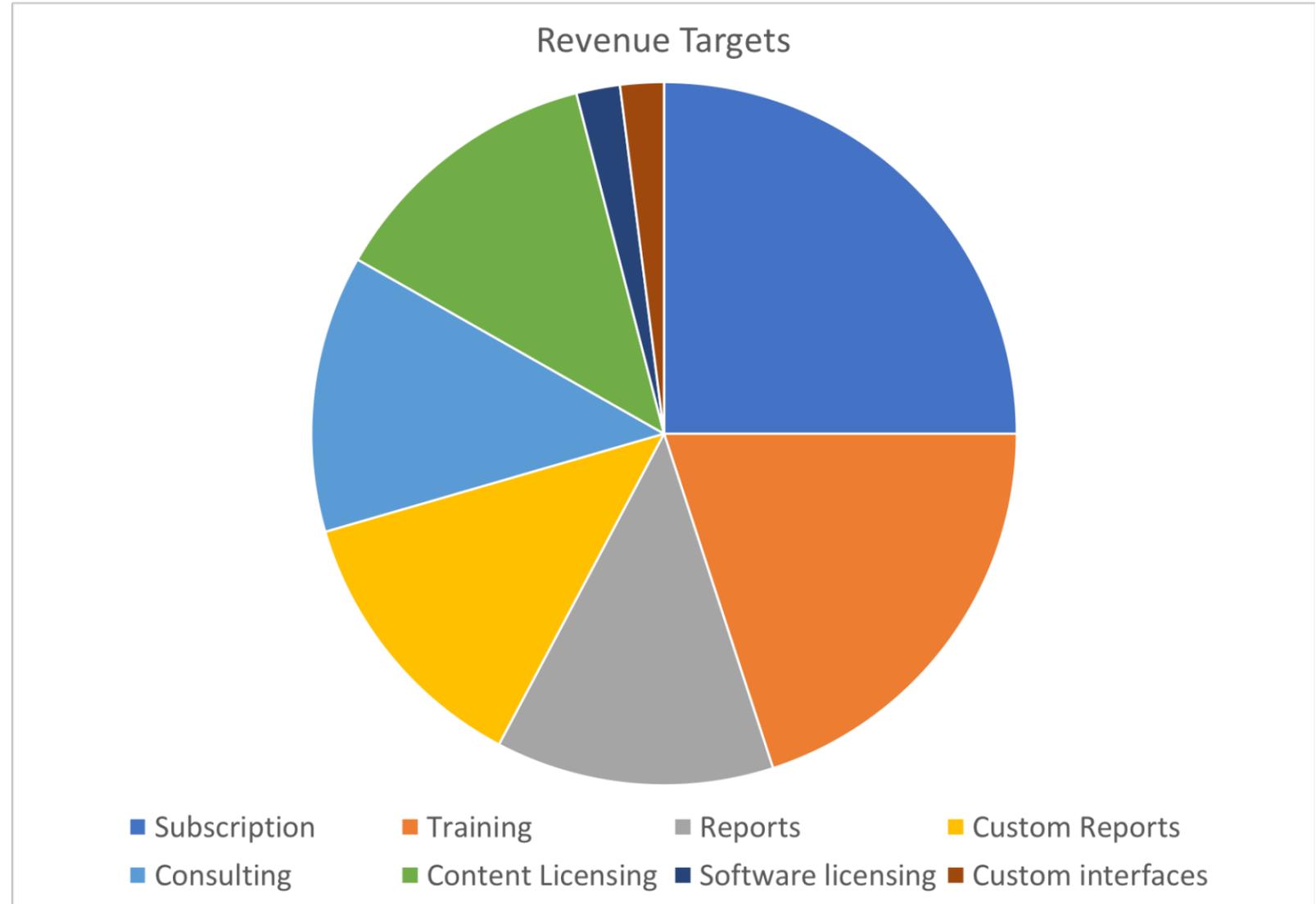
Value Proposition

- A. **MetaDIG** will help **Repository Managers** provide data that users can understand and trust by identifying opportunities for effective metadata improvements.
- B. MetaDIG will improve trustworthiness of repositories by enhancing use and understanding of their data

Current Market Landscape



Financial Model



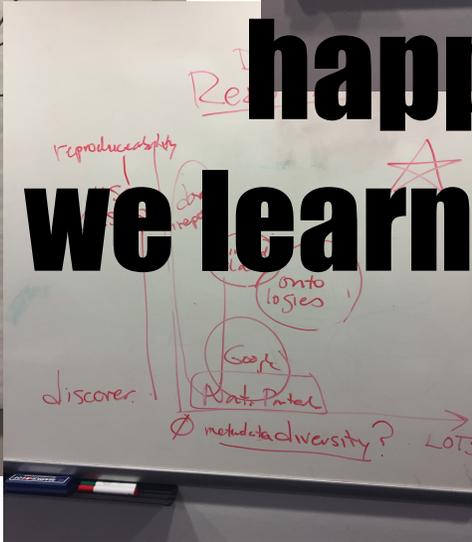
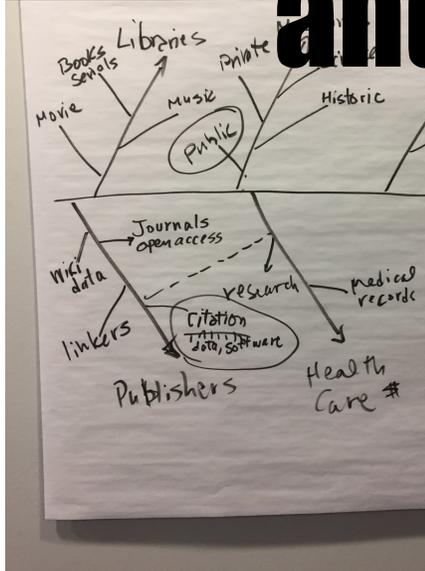
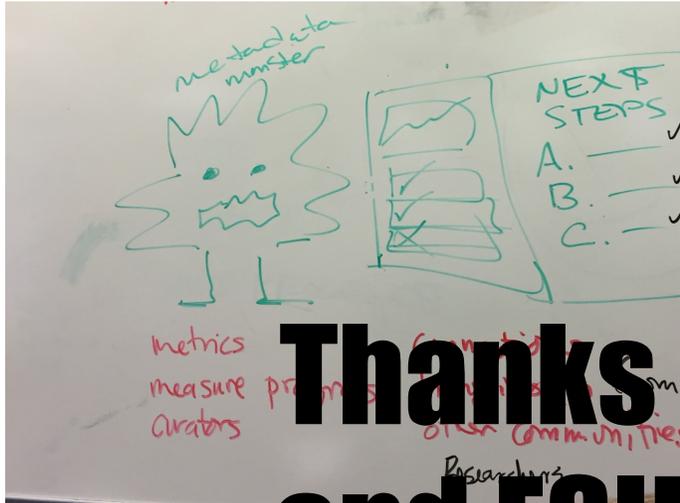
Goals

3 Month Goals

1. Get out of the building (Marketing Calls, PIDapalooza, AGU, ESIP...)
2. Demonstration Video
3. User success stories - BCO-DMO

6 Month Goals

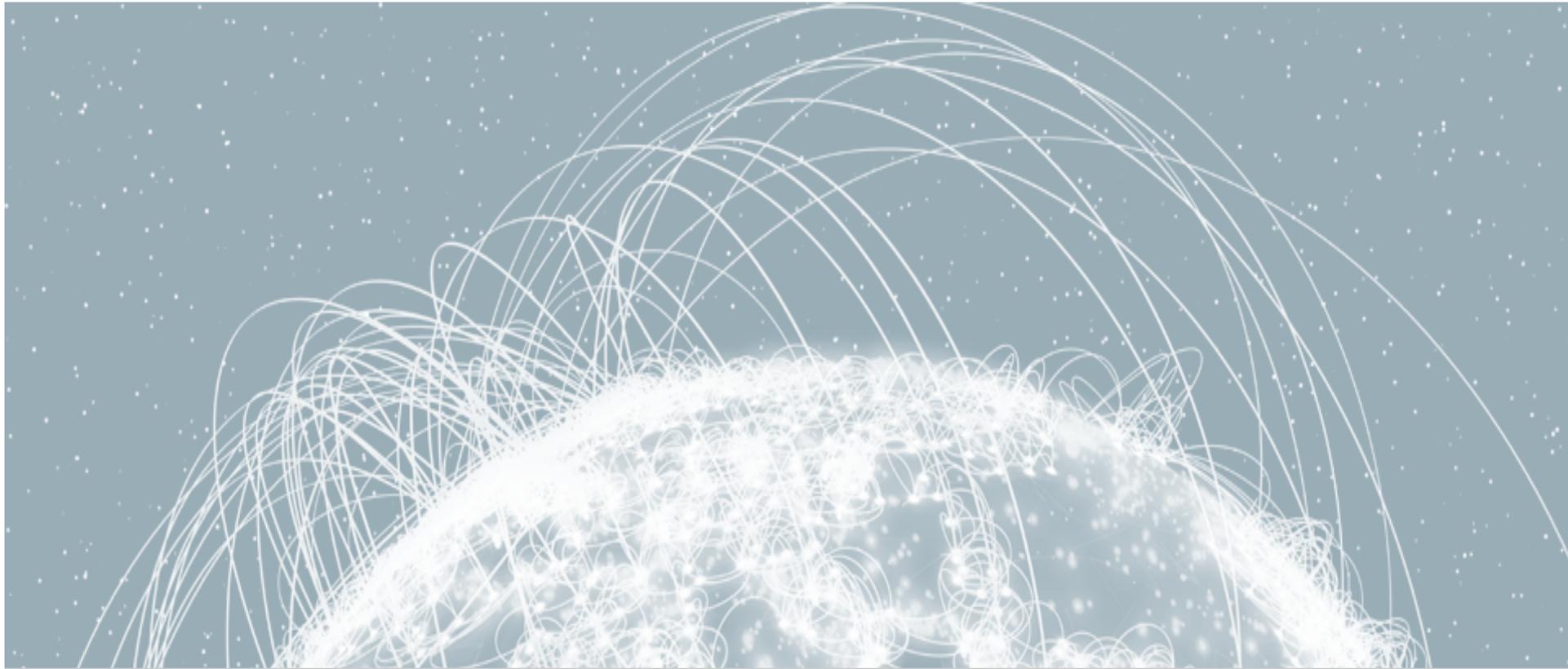
1. SME contributions to guidance
2. Playground – place to run it (AWS Credits)
3. 5 customers



Improve the trustworthiness of repositories by enhancing use and understanding of their data.

Thanks so much to SGCI and ESIP for making this happen - we learned a ton!

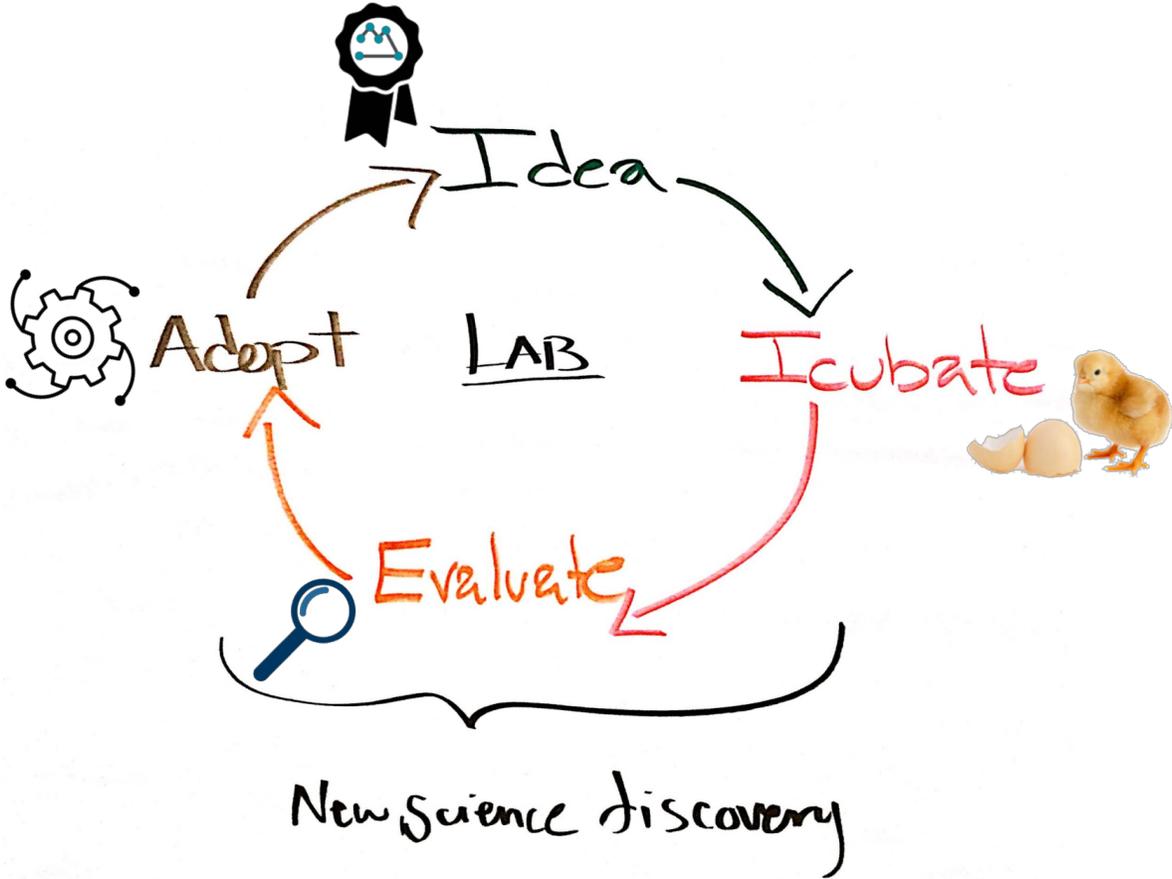




SGCI Bootcamp

August 17, 2018 | Rosemont, IL

Napkin Drawing



ESIP Lab Output Example

Science Outcomes

1. Transitioned a published hydrologic model from "research grade" science to a cloud-based operation.
2. Processing speed improved from 1.5 days to 0.5 hours using only a web browser.
3. Minimal training needed.
4. No need to download/reproject/store data

Outreach/Collaboration

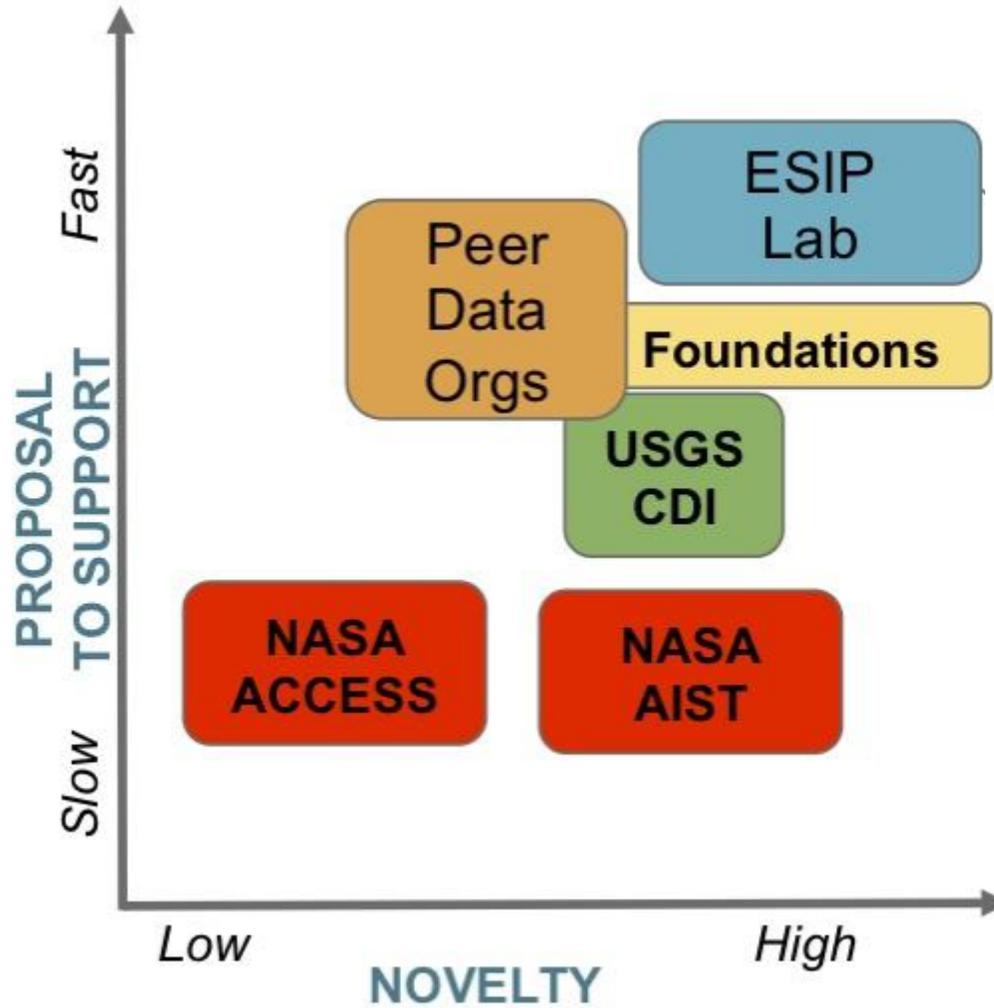
1. Surveyed water resource managers. Overwhelmingly positive response.
2. 2017 ESIP Summer Meeting Presentation
3. 2017 Pacific North West Climate Conference Presentation
4. 2017 Esri Educator's Summit Presentation
5. 2017 AGU Oral Presentation & Google Booth Demo
 - a. A lot of positive AGU-community response.

Value Proposition: What is distinct about the Lab within ESIP?

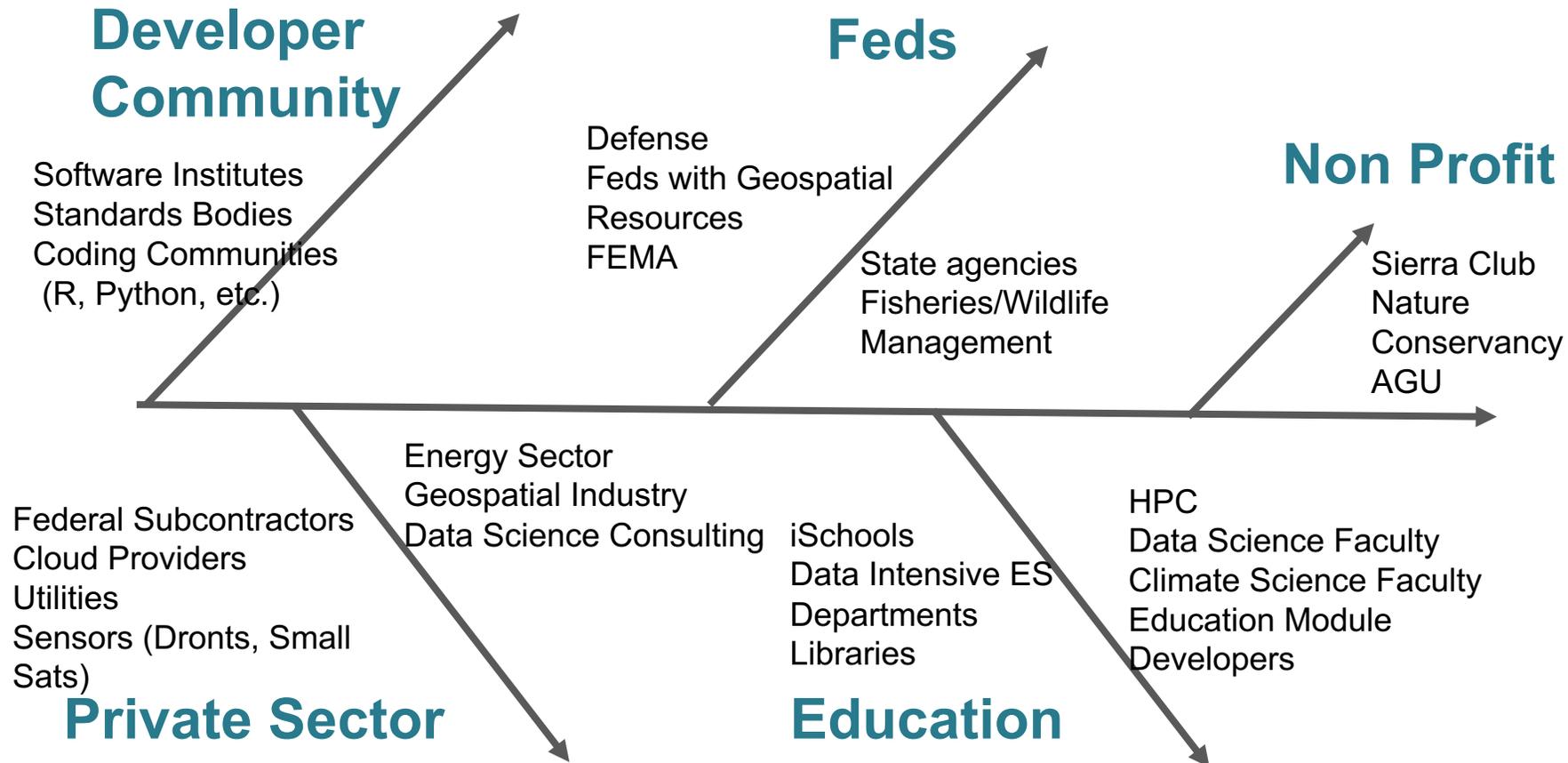
The ESIP Lab will support Earth science developers build useful, applied technologies through funding, strategic outreach, and community input.



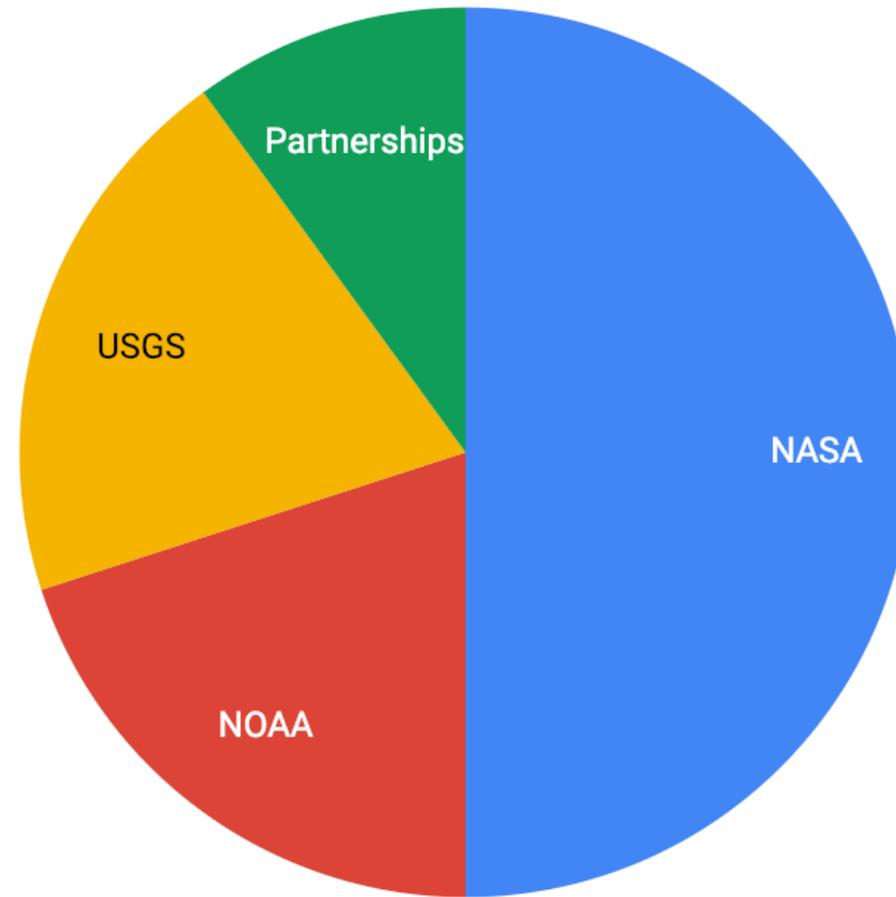
Current Market Landscape



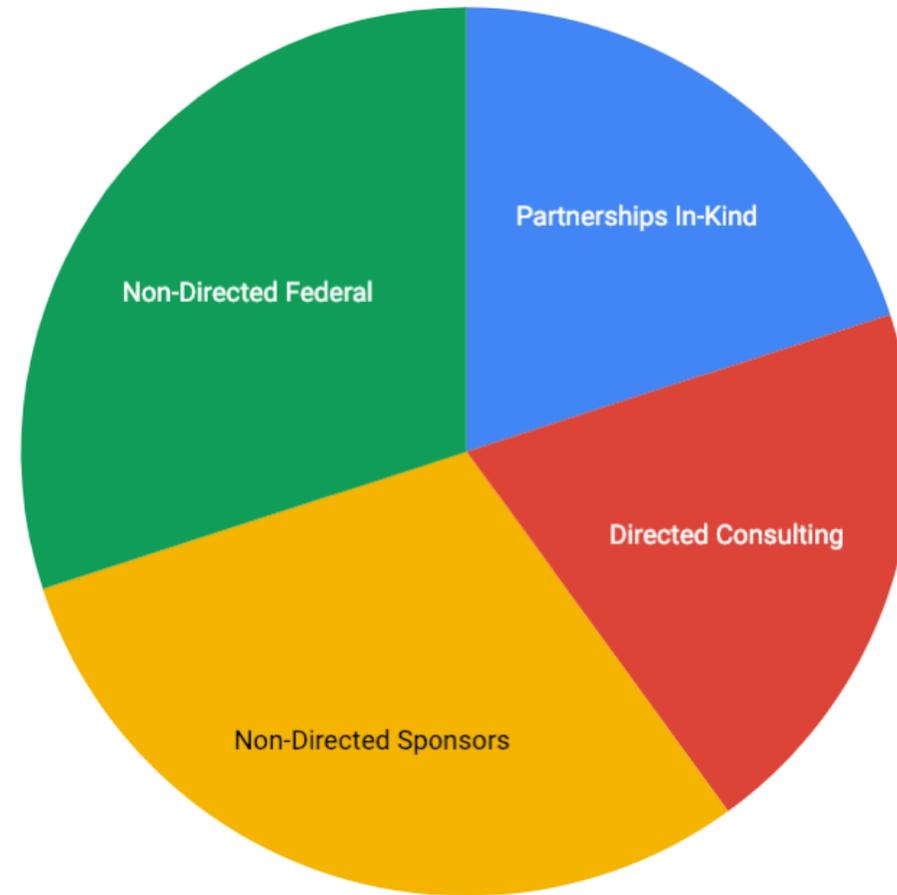
Target Audience: **Where we want to grow**



Current Funding Model



Future Funding Model



Goals

3 Month Goals

1. Reach out to SGCI for Marketing Consultation.
2. Create strategy for communication with each of our audience member groups.
3. Recruit 5 individuals to do usability testing on our website.

6 Month Goals

1. Create quarterly budget objectives
2. Draft sponsorship prospectus.
3. Organize Bootcamp-like activity for Lab-funded projects





Photo: Smithsonian Magazine

Thank you!
bit.ly/ESIPLabUpdate

SGCI Bootcamp

Rosemont, IL

Panel Questions

- Can you describe any examples of your before and after thinking? If something resulted in a “turning on the lights” experience what was it?
- Has any of your thinking between the end of the bootcamp and now changed, have you noticed changes in how you think or work, and what lessons can the rest of the room take away from that?
- What surprised you about the bootcamp that you didn’t expect to learn about/happen?
- If you recommended this event to your peers, how would you explain the value?
- Based on bootcamp, and any other thinking you have had related or unrelated to the bootcamp, what would be an ideal service, which if provided by the SGCI, would be helpful to the ESIP community? What would you outsource and why?
- Based on the problems you face, how would you ideally like to see a group like the SGCI foster synergies so you’re not alone in solving those problems? How can SGCI be a catalyst to the communities in which you participate?

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Gateways
Bootcamp...
a week long
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May 13-17, 2019, in Indianapolis, IN

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What's the catch?



What's the catch?



50-80





What's the catch?

One week business planning bootcamp (you cover travel)

AND...your time. You need to care more about your gateway than anyone else to get the most out of your consultant.



We'd like to work with you

- Learn more at sciencegateways.org
- Register for our newsletter
- Sign up for an event

This work is supported National Science Foundation grant ACI-1547611.





Most importantly, we'd like your participation in achieving our mission

“By 2026, be the autonomous world class leader and premier think tank for science gateways”

Email: mzentner@purdue.edu

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