EAGLE-I USER RE	SEARCH
Animal Models & Human H	ealth Studies
eagle-i uc	SUMMER STREET DESIGN NATHAN ABBETT - EVAN PANKEY
THE PLAN Review research process	
Discuss human health re	sults
Discuss animal model re	sults
Followed by Part 2: Design Recommendation	nns
RESEARCH FOCUS	
Mouse models	
Human health studies [Cores]	
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KEY QUESTIONS How do researchers currently find and use animal models? How do human health researchers collaborate? Do they exchange data? What are the incentives or requirements to share? How do cores support their efforts? **SITE FOCUS** ALASKA Human health studies DARTMOUTH Animal models HARVARD Animal models, human health studies HAWAII Animal models, human health studies JACKSON STATE Animal models, human health studies MONTANA Animal models, cores MOREHOUSE Animal models, human health studies, cores OREGON Animal models PUERTO RICO Animal models

SITE FOCUS

ALASKA Hopkins, Bersamin DARTMOUTH Berwin, Fiering, Turk HARVARD Rosen, Cypess, Wall, Liu, Linder HAWAII Hoffman, Erdem, Pitts, Feger JACKSON STATE Patlolla, Hwang, Arslan, Sarpong, Taylor MONTANA Swain, Voyich-Kane, Wiley, Rynda, ARC MOREHOUSE Champion, Gibbons, Emmett, Rust OREGON Kohama, Winn

PUERTO RICO Segarra, Pérez (2/26)

FINDINGS HUMAN HEALTH STUDIES	
"I do survey work and have small data sets. No one has ever asked me to share."	
"We don't have restrictions but there are policies and proceedures like confidentiality and data sharing agreements. Once those steps are taken, they can get access."	

"We have data sets from the federal government which are very restricted."	
"Data sets should be documented or annoted well so someone unfamiliar can use the data."	
"I think sharing data automatically increases scientific productivity." "The question is: if we put in, what do we get back?"	

CATHLEEN / COMMUNITY HEALTH RESEARCHER



Builds trust within target communities Weary of untoward collaborations Wants to learn from work of others Asks permission meticulously Very careful about data security Has never shared her data

HOWARD/ HEALTH SERVICES RESEARCHER



Must balance desire for collaboration with restrictions on data usage Recommends public data sets to junior colleagues

Would like better access to live data and appropriate analysis tools

Wonders about emerging data sets

IVAN/INFORMATICIST

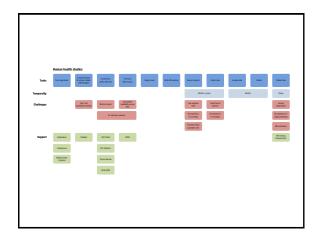


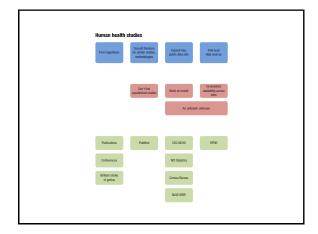
Believes in a community approach to data curation and analysis

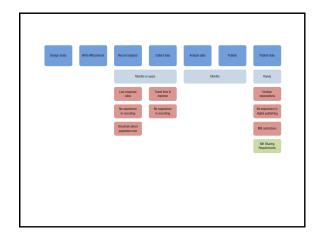
Translational collaborations with clinical researchers helps grant prospects

Openness to sharing not as common outside informatics circles

Hard to find emerging data sets







MOUSE MODELS	
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"Authorship is currency of	
scicence."	
"Chamadanthamahinia a him	
"Shared authorship is a big way to build collaborations."	
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"Eveyone knows the rules around sharing published	
materials, but they're not always followed."	
always followed."	

"I know I can get things from my colleagues, collaborators and their collaborators."	
"We found that a group we didn't know about had created a construct very similar to our own. Those kinds of things are hard to know from the literature."	
"I have to ask investigators whether they have a particular strain [of mouse] that I'm looking for."	

"We don't know what strains are here. There a lot of labs with a lot of transgenics." "It's all through the grapevine."	
"If I'm thinking about a new piece of equiment, I ask myself if anyone in my core research group has it. If they don't we might get together and buy it."	
"My technician has built a nice little system to manage our mice across complex breeding cycles. I let other people know that I had this system, but they were not interested."	

"I created two Excel sheets that have really help me manage my mice."

"We are reaching the limits of using Excel to manage our mice."

"I haven't used them, but I know there are lot of tools on the web."

CAROLINE / MOUSE CREATOR



Knows she needs to share
Shares before publishing
Careful about authorship
Creates mouse "mirrors"
Transfers mouse to private lab
Managing requests and transfers is
time consuming

Gets requests even after hand-off

SANDRA/SMALL SCHOOL RESEARCHER

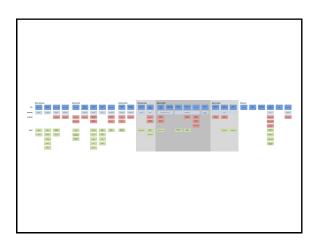


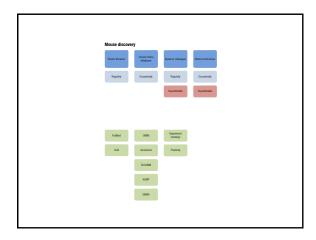
Knows entire science faculty
Attends conferences to expand
professional network
Shares her models to build clout
Certain local resources lacking
Wants cores to operate like businesses
Has spent little time organizing

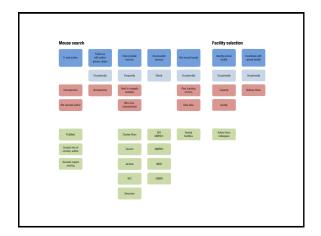
CALVIN / MOUSE CONSUMER

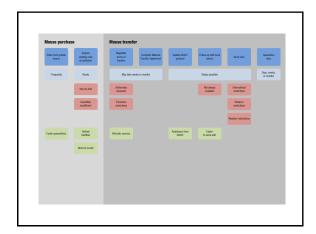


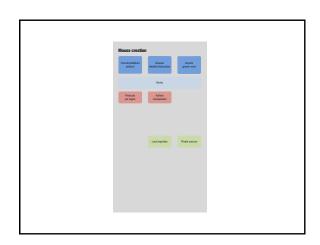
Follows literature, attends conferences
Cultivates professional network
Efficient with lab resources
Authors can be non-responsive
Hard to find true source of mice
Buys private mice if available
Cutting-edge models are more
challenging, but can be worth it







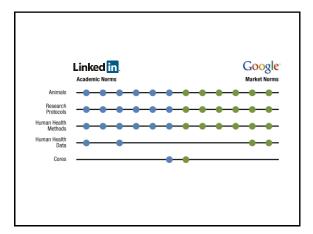




Mouse use Note: N	
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Mouse creation	
State mouse with Recoke external be chained by the control of the	
Pre-publication Whenever possible is popular	
Hard to manage frequent requests	
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Part 2 DESIGN	
RECOMMENDATIONS	

KEY CHALLENGES

Sustainability
Data half-life
Academic vs. market culture
Discordant sharing expectations
Scant lab organization



APPROACH

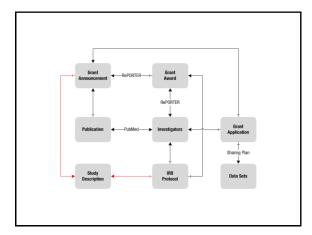
Hook into institutional workflows Pain points in research workflows

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RECOMMENDATIONS HUMAN HEALTH STUDIES	
HOMAN HEALTH STODIES	
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UNCLEAR SHARING EXPECTATIONS	
"Muddy Boots" data collectors (primary) Few incentives, privacy concerns	
Populations researchers (secondary)	
Willing, but institutional restrictions	
Informaticists (tertiary)	
Sharing, eager to share more	
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NIH DATA SHARING POLICY	
"NIH believes that data sharing is essential for expedited translation of research results into knowledge, products, and	
procedures to improve human health. NIH endorses the sharing of final research data to serve these and other important scientific	
goals and expects and supports the timely release and sharing of final research data from NIH-supported studies for use by other	
researchers." "Investigators submitting an NIH application seeking \$500,000 or	
more in direct costs in any single budget period are expected to include a plan for data sharing or state why data sharing is not	
possible."	
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NIH DATA SHARING POLICY

"NIH recognizes **that data sharing may be complicated or limited**, in some cases, by organizational policies, local IRB rules, and local, State and Federal laws and regulations."

"The rights and privacy of individuals who participate in NIH-sponsored research must be **protected at all times.** Thus, data intended for broader use should be free of identifiers that would permit linkages to individual research participants and variables that could lead to deductive disclosure of the identity of individual subjects."



	b. Type* Please Choose	c. Grant Number	
d. Title of Grant or Funding Applica	tion		
_			
g. Plan for Confidentiality of Date	1		
 Plan for monitoring of data for include the individuals reviewing the 	e data (such as a Data Safety Monitoring)	Board (DSMB)), the data being reviewed, th	e frequen
of review, and the rules for interi- adverse findings to the CHS.	m analysis for safety (such as statistical	considerations and stopping rules), and	reporting
i. Use of Study Results			

	1
Data Source Information Researcing the source of the study (mark all that apply) Interviews Processing the source of the study (mark all that apply) Interviews Processing the source of Photosylviews Registers	
Cher Goter Questionnalestorreps Public records Voice recording Biological specimens Please epiblic 8. Will bese data be linked to participanta/cases or contain any personal identifiers? Yes No	
c. If the data are de-identified, will the study personnel have any inksiterys to identifiers? d. If the data are not de-identified, when will identifiers be removed?	
New any of the data coming from covered entities under Health insurance and Portability and Accountability Act (HPAA)** [If yes, describe** [If yes, describe**]	
(ii) yets versulower was agreement? (ii) there adds use agreement been signed by MSS Spontoised Programs Administration? (iii) lake adds use agreement been signed by MSS Spontoised Programs Administration? (iii) la HPM-A Walvier of Arross and Administration being requested? The HPM-A Walvier of Pornio a validate on the HMSPHSCMPI encoder.	
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IRB INTEGRATION	-
Extract contact information, grant number	
Scrape grant description, keywords,	
NIH project ID from grant number	-
Combine with contact information to	
create "study description"	
IDD INTEGRATION	
IRB INTEGRATION	
Data does not reveal proprietary info	-
Facilitates search for similar research	
by grant topic, PI, and study type	

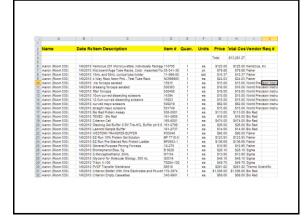
Paul needs (RB approval to study human subjects in an upcoming project. As negotisted between the IRB and the footil Eagle-Iteorn, the IRB extracts study type and grant information in from the protocol, along with Paul's contact information, and includes it in a regular report sent automatically to the Eagle-Idatabase. Eagle-I combines that information with the keywords of the project 5 grant amountment or create is "Study Description" that can be indexed and reineved through search. FIND HUMAN RESEARCHER LIKE ME Given the sensitive nature of Cathleen's research area, and the geographic obstacles to rural research, it's hard to recruit reliable subjects. She'd love to consult with other investigators in similar studies to find moved approaches to these challenges. She opens the Eagle-I velosite and searches for prospective cohort studies of rural populations. Eagle-ir returns search she consult with other investigators in similar studies to find moved approaches to these challenges. She opens the Eagle-I velosite and searches for prospective cohort studies of rural populations. Eagle-ir returns search late. Each hit provides a Primary Jovestigator's contact information and an except of the grant fruinging his research. Cathleen uses this information to decide which Pls to e-mail. FIND CONNECTION TO RESTRICTED DATA Prut off by the tedium of traditional chart reviews, Paul brings up the Eagle-I velosite to find data resources that might helps. He's not sure exactly what it is search for so he uses the browable directory or resources to find all side of data sets and routs. The directory cues him into RPIDR, a climical data repository excessible only for searchers a filtiated with Practices that the safety and th		
project. As negotisted between the IRB and the local English Heam, the IRB extracts study type and grain information from the protocol, along with Paul's contact information, and includes it in a regular report sent automatically to the English cidatobase. English combines that information with the keywords of the project's grant announcement to create a "Study Description" that can be indexed and retrieved through search. FIND HUMAN RESEARCHER LIKE ME Given the sensitive nature of Cathleen's research area, and the geographic obstacles to rural research, it's hard to recruit reliable subjects. She'd love to consult with other investigators in similar situations to find novel approaches to these challenges. She opens the English website and searches for prospective control studies of rural populations. English returns several hits. Each hit provides a Primary investigator's contact information and an except of the grant funding his research. Cathleen uses this information to decide which Pls to e-mail. FIND CONNECTION TO RESTRICTED DATA Put off by the tedium of traditional chart reviews, Poul brings up the English website to find data resources that might hep. He's not sure exactly what to search for, so he uses the browsable directory of resources for find a site of data sets and tools. The directory clues him into RPUR, a clinical data repository accessible only to researchers affisiated with Purtners Healthcare in Massachuestic Romeral Repository but emails his did colleague to to	INTEGRATION SCENARIO	
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INCLUDE EAGLE-I IN DATA SHARING PLAN	
Jeff submits a draft of his grant application to his university's Office of Sponsored Programs. They respond with several recommendations for improvement, including a suggestion to use	
Eagle-i to fulfill the grant's data sharing requirements. Jeff learns that Eagle-i will provide a free repository for his project's research data, including a unique URL that can be related to any PubMed IDs	
of journal articles he publishes. Since he's never published his data online before, and lacks the technical skills to do it himself, he	
includes the Eagle-i repository in his grant application's Data Sharing Plan.	
	1
PUT DATA ONLINE	
Upon completing his research, Jeff prepares his data for archiving.	
Jeff loads the eagle-i website and follows a simple, multi-step wizard to load his data set into the repository. Along the way, he	
indicates the source and agency identifier of his research's funding, as well as the PMIDs of a paper he published about the research.	
When the process is complete, Jeff is given a unique URL for his	
data set that he can include in future publications, in his CV, or share with colleagues.	
FIND A DATASET	
David's mentor recommends that he use the NHANES data	
set. Unfamiliar with the resource, he searches for "NHANES" in Google He sees an NHANES hit from the eagle-i website.	
Clicking through, he reads some summary information about NHANES, plus a list of several data sets uploaded by other	
investigators that contain similar information. He's able to find two promising sets that pertain to obesity – using them will eliminate	
some of the patient recruitment and data collection he'd normally have to manage himself.	

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RECOMMENDATIONS	
ANIMAL MODELS	
ANIMAL MODELS	
	7
Grant Announcement	
Announcement	
RepORTER	
Publication ← PubMed → Investigators ← RePORTER → Award	
Award	
↑ ↑	
<u> </u>	
Animal HCUC Protocol	
Models Protocol	
	_
Principal Investigator:	
Protocol Number:	
Protocol Title:	
Protocol Contact Person, E-Mall Address and Phone Number (# not Pl)	
Research Team presse provide the name(s), title(s), qualifications/years of experience for each person working with animals on this protocol)	
Funding Information (check at that apply)	I .

Number of Animals Used in the Past Year: 20 Estimated Number of Animals to be Used in the Up-Coming Year: 120 Estimated Length of Stay for Animals: 50

IACUC INTEGRATION Use IACUC protocols to know who is using what mice Extend protocol form to request specific models, sources	
IACUC INTEGRATION Protocols updated regularly Layer on visibility restrictions Inside/outside Published/unpublished	
LAB ORGANIZATION Ad-hoc, home-grown Excel-based Infrequently updated Software geared to large labs Data varies, is highly particular Good ideas are out there	



IACUC INTEGRATION

Calvin needs IACUC approval to perform experiments on mice in his next study... In addition to the usual protocol summary, Calvin must list the particular strains of mice he intends to use and the source of those mice.

The mice strain information is exported in electronic format and sent to eagle-i for processing.

FIND A MOUSE NEARBY

Before budgeting for relatively common mice, Calvin logs onto eagle-i to check if investigators at his institution are already using them. He finds three potential leads.

To protect the identities of investigators who use animals, eagle-i does not display contact information; instead the mouse resource page displays a simple contact form that will confidentially forward Calvin's sharing request to the resource's owner.

In the end, one investigator responds directly to Calvin to share his mice, saving Calvin time and money.

FIND SEMINAL SOURCE OF A MOUSE Calvin reads about an innovative study in a leading neuroscience journal that uses a mouse model about which he's unfamiliar. He checks PubMed for details, but it is unclear from the article if the authors created the model themselves. Calvin continues his search on the eagle-i website. He enters the PMID of the article he read and retrieves a list of related mouse models with links to the originating investigators.	
PUBLICIZE YOUR MOUSE	
Caroline created a new mouse model last year that's proving to be quite popular. She has just transferred the model to a private lab which will fulfill requests for it from the general research community. She'd like to eliminate many of the direct requests she receives by e-mail and phone, so she logs onto Eagle-I and searches for her mouse model. Finding it, she updates the model's meta-data with contact information for the private lab.	
]
"YELP" FOR CORES Sandra goes to the eagle-i site and searches for "FACS cores." She gets a list of cores in order of proximity to her institution. She clicks the link of one core's page. It displays a description of the core, a list of its services, internal and external costs, and average turnaround time. Beneath, the page lists brief reviews by other scientists who have used the core. She returns to the results list and resorts it by cost, then by turnaround time. She also bookmarks her results page and the pages of the facilities that appeal to her most.	

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"MATCH.COM" FOR MANAGEMENT TOOLS	
Sandra finally has some extra time to look into lab organization tools, but she balks at doing a whole lot of Googling. She instead goes to the eagle-i "Get Organized" section and enters a little	
information about her lab. Sandra gets back a list of tools submitted by other researchers that match her criteria. Luckily	
most tools are free, and some include comments from researchers that have used them. She can easily click through to downlaod a	
template or software package. She bookmarks her favorite results to show to this lab members at their Friday meeting.	
]
WRAPPING UP	
WITALLING	
	1
IDEA "GRAB BAG"	
Promote sharing policies Categorizing the general types of sharing policies, and	
publishing the sharing policy linked to the IRB information would increase the transparency of data sharing in human health research and allow researchers to determine where	-
data sharing is more welcome.	

IDEA "GRAB BAG" Knowledge exchange about animal core best practices. Small and remote institutions have similar animal resource core management problems. Within this category some have solutions that could be shared with others.	
THANKS!	