

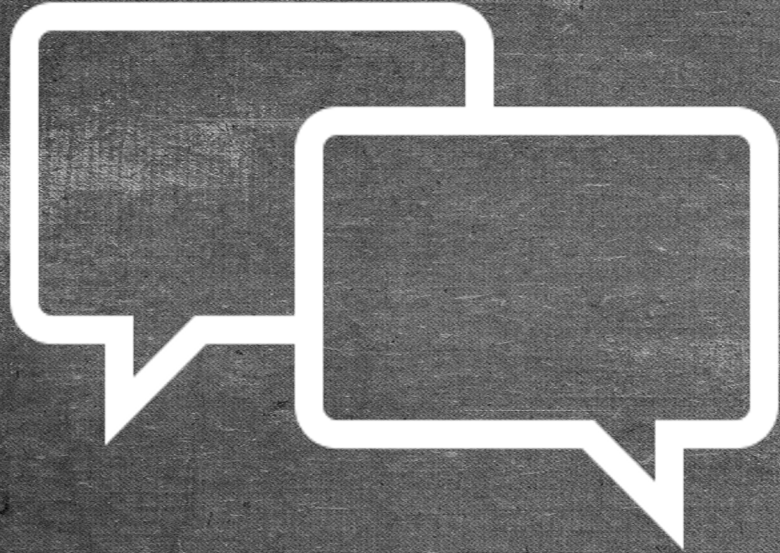
NNLM EVALUATION CENTER (NEC)

NEC Kickoff
June 25, 2021

Meet the Team



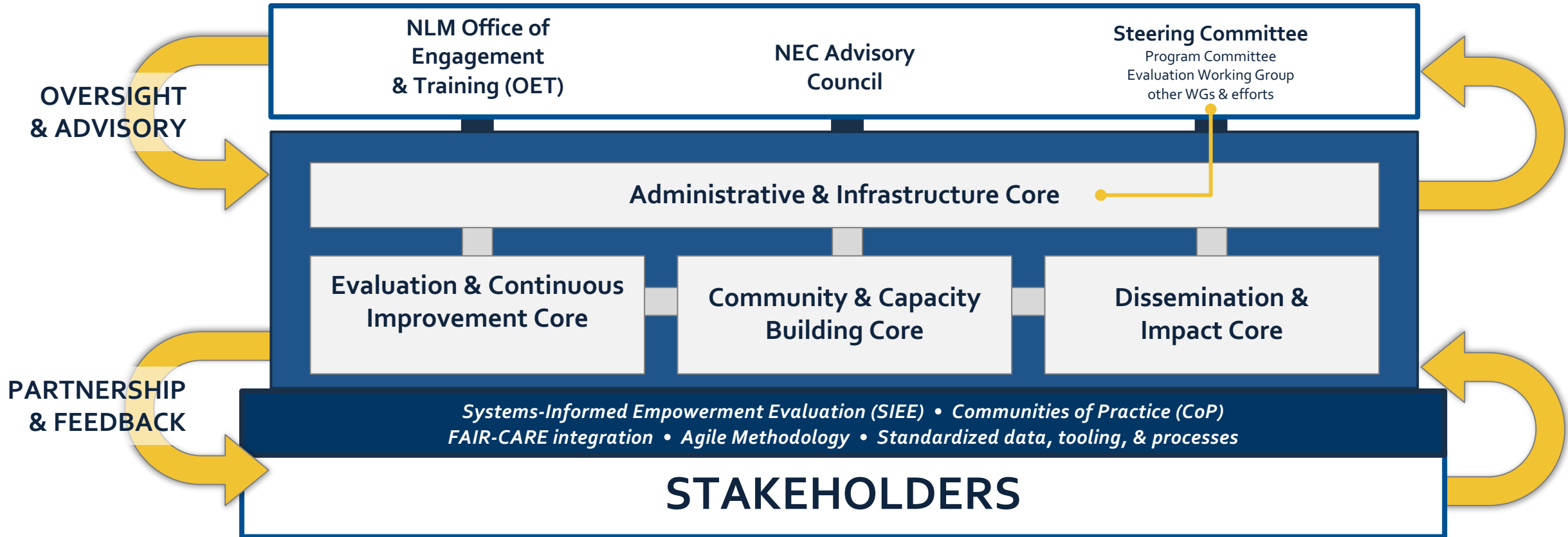
What we learned from you!



- ✓ Role of the NEC
- ✓ Data opportunities
- ✓ Tooling opportunities
- ✓ Support for RMLs and Offices
- ✓ Support work with grantees
- ✓ Know our Members
- ✓ Program outcomes



Structure Supports Alignment and Action



A participatory and inclusive approach

- Understanding and leveraging the whole Network
- Capacity and community building
- Communities of Practice
- Systems-Informed Empowerment Evaluation



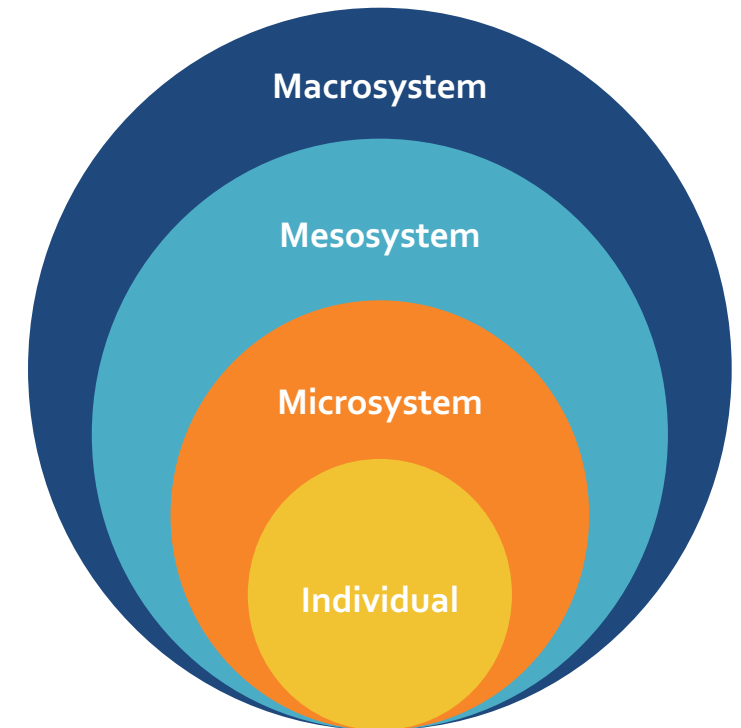
DOMAIN
what we care
about



PRACTICE
what & how we do
things together
about it



COMMUNITY
who cares about it





ADMINISTRATION & INFRASTRUCTURE CORE

Establish and sustain an agile administration and infrastructure to support the NEC.

Key Initiatives

Communication &
Engagement
infrastructure

Accountability
and Feedback

REDCap
(w/ECI)

Network-wide
evaluation data

NNLM Beacon to
support Open and
FAIR processes
(implementation)

NNLM Personas



Communications



Confluence

Newsletter

Website

Slack

Email

[...]



Infographics

Plain language summaries

Office Hours

SOPs

Events

[...]



Network of the
National Library of Medicine

National Evaluation Center News & Notes

Welcome to the NEC!

Welcome to the NNLM Evaluation Center! Our work is grounded in a very collaborative and participatory approach, and we look forward to working with you and your teams as we use evaluation as a tool to help us benefit the Network and advance the mission of NNLM. Over the coming weeks we will highlight major program areas and introduce you to our NEC team members. We welcome you to contact us anytime with questions, needs, and ideas for collaborative action. We look forward to working with you!



NEC Key Functions

- Enable and support rigorous evaluation and continuous improvement across the NNLM through common metrics, tooling, and workflows
- Collaborate with RMLs/Offices/Centers to develop strategies, metrics, and guidelines to plan, evaluate and assess NNLM outreach and education programs, services, and sub-awards
- Upgrade and update the NEC Data Warehouse to streamline data workflows, provide clean accurate data for analysis, and explore opportunities for additional data sources and tools to feed into reporting dashboards





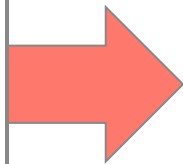
NNLM Data Warehouse Transfer

- Migration of the NEO Data Warehouse to NEC servers is complete
- Building on the great work done by Deric Ruhl and the NEO team, the NEC Data Warehouse aims to follow best practices in software development
 - Code management and versioning through GitHub
 - Staging and Production environments
 - Continuous deployment of code changes with automated testing (in progress)
 - Move to a Python code base (in progress)
- We will enhance the NEC Data Warehouse to...
 - Adapt to the new CiviCRM system
 - Address changes in RML configuration
 - Improve flexibility to address data requests from ROCs
 - Maintain flexible and secure data feeds for dashboards



NNLM Beacon Implementation

Development of the InvenioRDM Platform



Free Open Source Software

Invenio is Free Open Source Software supported by a committed community of multidisciplinary institutions.

[Code](#) | [Docs](#) | [Examples](#)



Friendly and Responsive Community

Although Invenio was born at CERN, its community is growing bigger every day. Talk to the team now in our chatroom or forum.

[Chatroom](#) | [Forum](#) | [Get Involved](#) | [Events](#)



The "Safe bet"

Invenio community has been around for 20 years. **Solid services** have been built on top of it to ensure long-term confidence.

[Live services](#) | [Products](#)





The turn-key research data management repository

🚀 Coming soon - summer 2021



Status

Follow the latest project status.



Roadmap

We intend to be ready with a first release summer 2021.



Demo

Demo of InvenioRDM showing latest development state.



Forum

Join our project forum and collaborate.



Chat

Find all the partners in our official chatroom.



Code

Have a look at InvenioRDM code evolution.

NNLM Personas

NNLM Member Organization Types



General public &
public libraries



Faith-based
organizations



Higher Ed



NNLM Stakeholders

EVALUATION & CONTINUOUS IMPROVEMENT CORE

Develop strategies and standardized approaches to assess the impact, efficacy, and value of NNLM activities, services, and resources, and support and catalyze continuous improvement.



Key Initiatives

Operationalized
feasible,
actionable, and
meaningful metrics

Evaluation Toolbox

Qualitative analysis

Red carpet
workflows

Using our
Communities of
Practice (w/CCB)

NNLM Evaluation Working Group

- Composed of **Evaluation Champions** nominated from each ROC
- Purpose:
 - Discuss and provide feedback on NEC initiatives (including, e.g., the Evaluation Toolbox and education & training initiatives)
 - Build evaluation capacity through fostering a supportive community of practice
 - Identify opportunities for collaborative continuous improvement and for enhancing a data culture across the Network
- Meets first Thursday of every month
- Agenda and notes available on Confluence



Enhancing REDCap Workflows & Dashboards to Inform Decision-Making

Launch Priority Areas

- Transfer existing surveys (e.g., training, subaward reports, and scorecards) from NEO to NEC
- Partner with NTO, OET, and the EWG to update the training survey
 - Create core set of standard questions, plus menu of additional items tailored by training type
 - Expand number of questions focused on training outcomes & diversity, equity, and inclusion
- Build interactive Tableau dashboards to inform programmatic & strategic decision-making and pilot leveraging NLP to analyze open-ended responses



Standardizing & Centralizing Reporting Workflows



Launch Priority Areas

- Partner with OET and EWG to standardize, centralize, and simplify mandated reporting workflows, e.g.:
 - Staff & subawardee activity reports
 - RPPR supplemental data requests
- Disseminate training and support materials to facilitate data collection and entry
- Build Tableau dashboards to ensure data are accessible and available to inform strategic management

Additional ECI-C Launch Priority Areas

- Consultative Support:
 - Offer **drop-in hours twice monthly** for support with developing strategies, metrics, tools, and guidelines to plan, evaluate, and assess outreach and education programs, services, and subawards
 - **Red carpet (“deeper dive”) consultations** focused on comprehensive evaluation plans, logic models, theories of change, etc.
- Continuous Improvement Community of Practice:
 - Develop interactive training session on **Results-Based Accountability (RBA) Turn the Curve** framework, used to assess performance metric trends, explore root causes, identify essential partners, brainstorm and implement strategies to “turn the curve,” and monitor progress
 - Call for volunteers planned for September/October 2021



COMMUNITY & CAPACITY BUILDING CORE

Design approaches to better understand the NNLN network, including underrepresented populations or persons who experience health disparities, and act on this knowledge to sustainably build community and capacity at all levels.



Key Initiatives

NNLM Networks

Enhanced capacity
of members

Building
Communities of
Practice
(w/ECI & all)

Participation in the
Network

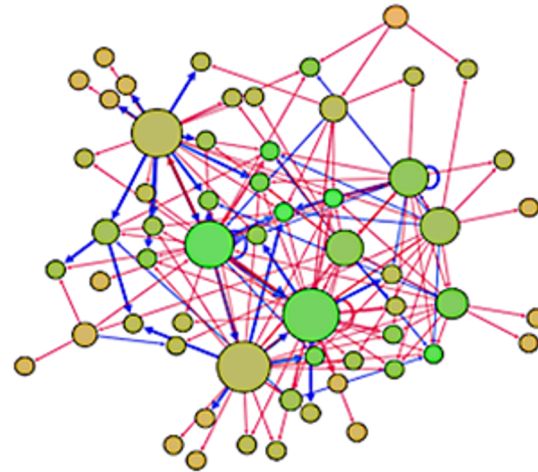
Responsive
continuing
education &
workforce
development



Community, Network, & Capacity



Core elements of a Community of Practice.



Network visualization.

i	Understood what a logic model is	87.9%	100%
i	Felt confident in creating a logic model	66.7%	90.9%
i	Understood what program evaluation is	90.9%	96.9%
i	Felt confident in creating a program evaluation plan	69.7%	87.9%
i	Understood what fidelity assessment is	78.8%	97.0%
i	Felt confident in creating a fidelity assessment plan	51.5%	69.7%
i	Felt confident in developing data collection tools	72.7%	87.9%

Evaluation metrics before/after working with the NU Evaluation Center.

Year 1: Key Deliverables

1. Evaluation Capacity Survey
2. Key Informant Interviews
3. Trainings

Year 1: Key Deliverables

1. Evaluation Capacity Survey

- **Team:** Gregory/Erik
- **Goals:** Baseline assessment of evaluation knowledge, interest, and experience of members in NNLM network
- **Next Steps:** Presenting draft survey to NNLM Evaluation Working Group on July 1st

Year 1: Key Deliverables

2. Key Informant Interviews

- **Team:** Amy/Rayna
- **Goals:** Define community and networks within NNLM, identify ideal attributes of successful networks
- **Next Steps:** Presenting draft interview guide and proposed network survey questions to NNLM Steering Committee on July 13th

Year 1: Key Deliverables

2. Key Informant Interviews

- Proposed Metrics for Organizational Network Survey

Level	Construct	Measure(s)
Individual	Demographics	Organization Size, Type, Clientele Demographics (e.g., % Black, % Indigenous), Location
	Services	What is currently being provided to clientele, what could be provided with partners, what would they like to be able to provide in the future
Network	Name Generator	Identify all informal and formal partners from roster
	Edge Interpreter	Length of partnership, characteristics of partnership
Contextual		Perceived competitiveness/collaborativeness

Year 1: Key Deliverables

3. Trainings

- **Team:** Leah/Esrea
- **Goals:** Build capacity within NNLM to conduct and interpret evaluation, promote culturally competent approaches
- **Next Steps:** Meet with NTO and EAT to ensure complementary activities within NNLM before pitching training series

Capacity Building

- Continuing education
- Workforce development

Administrative & Infrastructure Core	<ul style="list-style-type: none">• Using Personas for user-focused design (B)• Best Practices in Research Data Management and Data Sharing (B)• 10 Simple Rules for Data Cleaning (B)• Project Management (B)• Interactive dashboards from soup to nuts: Excel, Tableau, and BI tools I & II (I)• Analyzing unstructured data (A)
Evaluation & Continuous Improvement Core	<ul style="list-style-type: none">• Principles of community-engaged evaluation (B)• Moving Beyond Satisfaction Surveys (A)• Understanding the Logic behind a Logic Model (B)• Equitable evaluation (I)• Evaluating & Visualizing Return on Investment (A)• Subaward Engagement: Strategies for soliciting timely and comprehensive evaluation data from sub awardees (I)

Capacity Building

- Continuing education
- Workforce development

Community & Capacity Building Core	<ul style="list-style-type: none">• Introduction to Communities of Practice (B)• Principles of Community Building (B)• Community Building Facilitator Training (A)• Organizational Alignment (A)• Introduction to Strategic Planning (B)• Cultural Competency Certification (I)
Dissemination & Impact Core	<ul style="list-style-type: none">• Accelerate the Dissemination and Impact of Your Research Findings (B)• Creating an Effective Dissemination Roadmap (B)• Communicating and Disseminating Evidence to Policymakers (A)• Media Engagement 101 (B)• Powerful Presentations (B)



DISSEMINATION & IMPACT CORE

Establish robust dissemination practices and assess NNLM's impact.



Key Initiatives

NNLM Beacon:
Open and FAIR
infrastructure
(adoption & use)

Active
dissemination

NNLM Impact
Reports

BeFAIR and
CARE

DataViz
Challenge



NNLM Beacon

An openly available online repository of outputs from NNLM.

Coming soon!

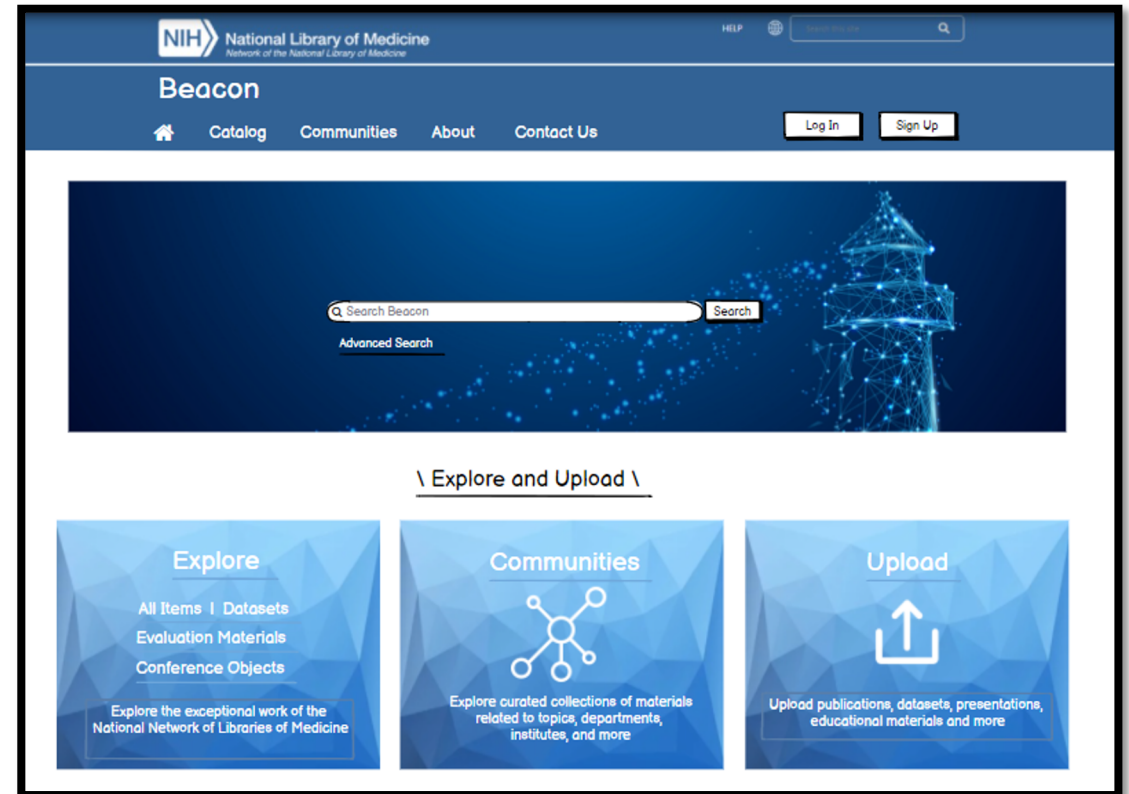


Image: Wireframe for repository

How can NNLM Beacon work for you?



Hospital Librarian

“As a professional who supports both physicians and patients, I can look to NNLM Beacon repository to find information on serving underrepresented communities. This could include the results of projects that have been funded by the NNLM on this topic as well as consumer information on where to find health resources in the community.”



NNLM Regional Library

“As our RML creates programming, we can easily find and access evaluation materials in the NNLM Beacon to evaluate programs and understand our impact goals from the outset of the program. We can find examples of successfully funded project plans to improve our submission requirements for the projects that we fund.”



Community Member

“I can use NNLM Beacon repository to find helpful materials such as videos from past NNLM symposiums, discussion questions for health-related book club meetings, and past blog posts on health-related topics.”



NNLM Member Organization

“As we prepare our materials to apply for NNLM funding, we can look to NNLM Beacon repository to find example evaluation plans, resources we can use to evaluate and communicate our work, and even share our project outputs in a FAIR manner to enhance access and impact.”



Features for NNLM Beacon



FAIR CARE Rubric




Educational Offerings

- Working with the NTO and the Education Working Group to better understand options for offering classes to NNLM members and beyond
- Working on submission for classes on:
 - **Dissemination in Action.** Equip participants with the knowledge to create better dissemination strategies and inspire compelling impact statements.
 - **Charting a New Course.** Covers top principles for effective data visualization and provides a template for 28+ charts in Excel


RDM: Data Sharing and Publishing

Dashboard / My courses / Data Sharing and Publishing

Start Here



Research Data Management On-Demand

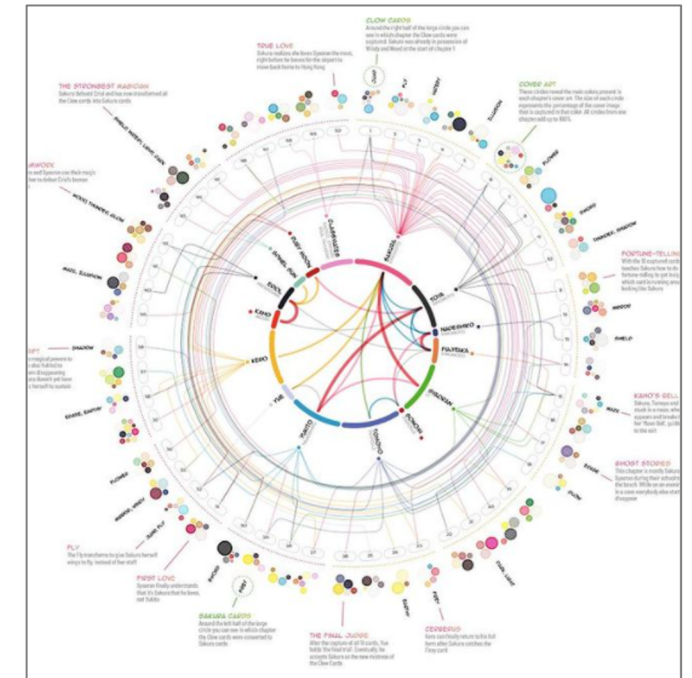
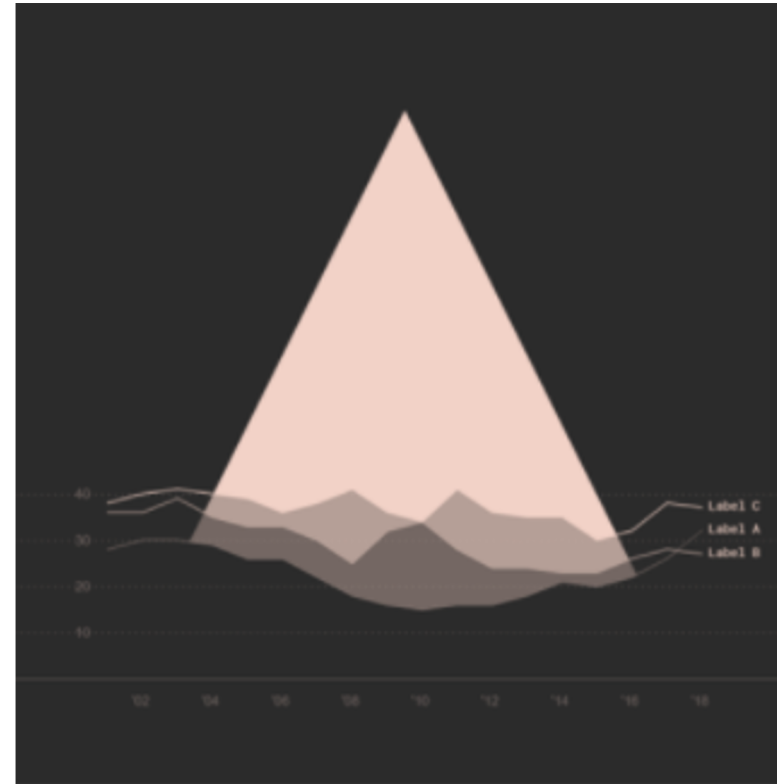
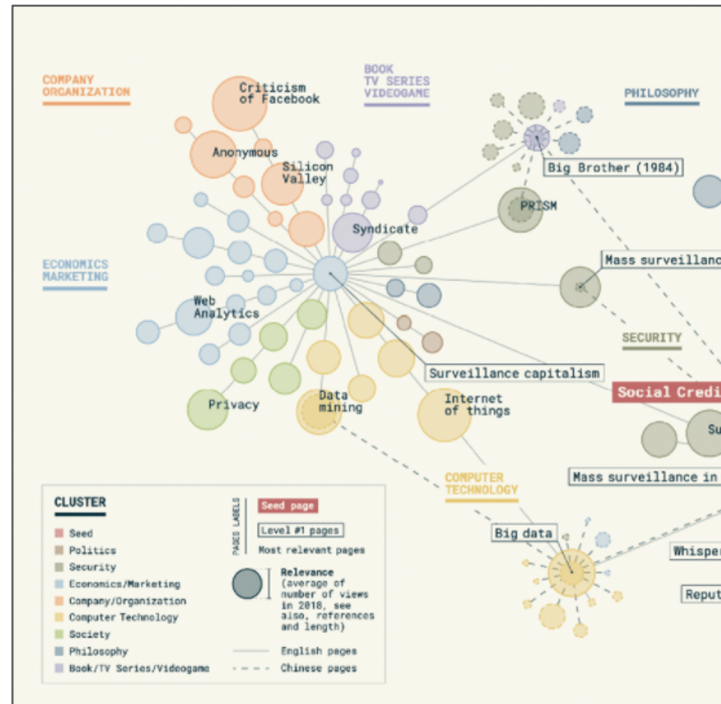


NIH National Library of Medicine
Network of the National Library of Medicine

Objectives:

1. Articulate the FAIR data principles
2. Explain the importance of research reproducibility
3. Describe the concept of "open data" and challenges for sharing biomedical research data
4. Explain data sharing incentives, data citations, and data journals

Data Visualization Competition



Coming in
Year 2

Timeline and wrap-up

	Start-Up	YR 1	YR 2	YR 3	YR 4	YR 5
Administration	<ul style="list-style-type: none"> ✓ NEC start-up & operations 	<ul style="list-style-type: none"> ↻ Communications ↻ Advisory Council 				
Digital Infrastructure	<ul style="list-style-type: none"> ✓ Data transfer ✓ REDCap 	<ul style="list-style-type: none"> ↻ Data workflows ↻ Dashboards 	NNLM Beacon			
Frameworks		<ul style="list-style-type: none"> ↻ Systems-Informed Empowerment Evaluation (SIEE), ↻ Communities of Practice (CoP) 				
Inclusive communication		<ul style="list-style-type: none"> SOPs, Plain-language summaries, ✓ Newsletter, ↻ Website 				
Evaluation and reporting workflows		<ul style="list-style-type: none"> ↻ Surveys, Continuous improvement, ↻ Activity reporting, ↻ NNLM impact reports, ↻ NLP projects 				
User-focused evaluation support		<ul style="list-style-type: none"> ✓ Office hours, Welcome Kit, Webinars, ↻ Evaluation Toolbox 				
Better understanding of NNLM members		<ul style="list-style-type: none"> ↻ Network analyses, ↻ Mixed methods projects 				
Capacity Building		<ul style="list-style-type: none"> ↻ Training, peer-mentoring, speaker series, symposium, etc. 				
NNLM Personas		<ul style="list-style-type: none"> Data gathering, feedback, testing, dissemination 				
Novel metrics & tools		<ul style="list-style-type: none"> ↻ FAIR-Care rubric 	DataViz Challenge			
Dissemination		<ul style="list-style-type: none"> Dissemination in Action Guide 				
Dissemination		<ul style="list-style-type: none"> Publications, presentations, etc. 				

- ✓ completed/up and running
- ↻ currently in progress

We love to collaborate and welcome you and your teams to join us on any of these projects or on something new. Collaboration can happen across all NEC core areas, through the EWG, on specific projects (Personas, the FAIR-CARE rubric, presentations and publications, and more). We look forward to working with you! nec@northwestern.edu

Thank you!
Any questions?

nec@northwestern.edu

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