

Toward a Purpose and Question-Driven Open Data Ecosystem

Keynote Address

National Open Data Conference 2021: The Importance of Data Quality

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MISSION: TO IMPROVE THE WAY WE MAKE DECISIONS IN THE PUBLIC INTEREST ...



The GovLab's mission is to improve people's lives by changing the way we govern.

Our goal is to strengthen the ability of institutions – including but not limited to governments – and people to work more openly, collaboratively, effectively and legitimately to make better decisions and solve public problems.

We believe that increased availability and use of data, new ways to leverage the capacity,

intelligence, and expertise of **people** in the problemsolving process, combined with new advances in **technology and science** can transform governance.

We approach each challenge and opportunity in an interdisciplinary, collaborative way, irrespective of the problem, sector, geography and level of government.

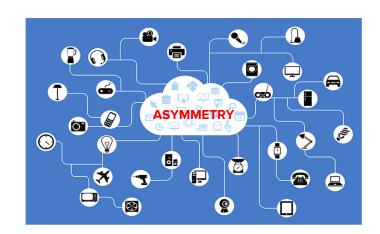
BUILD We develop and test prototypes for new platforms to enable open and collaborative problem-solving inside a variety of organizations. LEARN We assess and disseminate information and analysis about governance innovations (successes and failures) globally and their impact on people's lives. CONNECT We build networks of innovators from across disciplines to gain deeper insights and develop new frameworks for improving governance. TRAIN We train entrepreneurs to tackle public interest challenges using open innovation to take projects from idea to implementation.



CHALLENGE OF OUR DATA AGE: DATAFICATION AND DATA ASYMMETRIES

Digital Transformation

DEMAND



Mis-Use / Re-Use

SUPPLY



ACCELERATING ACCESS TO DATA FOR RESPONSIBLE RE-USE

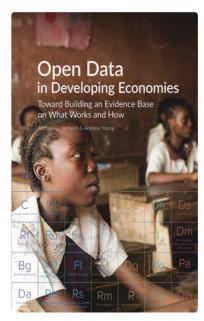
NEW | Open Data Policy Lab City Incubator

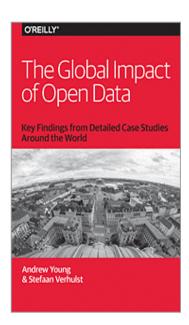




MEASURING THE IMPACT OF OPEN DATA









IMPACT DEPENDS ON... CLEAR PROBLEM DEFINITION

Problem and Demand Definition	Capacity and Culture		Governance		Partnerships	Risks
User Research						Pr Privacy Concerns
Causes and Context	Di Data Infrastructure			Open by Default	Dh Data Holders	DS Data Security
Refinement	Pu Public Infrastructure	Se Skills & Expertise		Freedom of Information	Intermediaries	Poor decision- making due to faulty information
Bg Benefit and Goals	Lp Tech Literacy & Internet Penetration	Feedback Loops	Performance Metrics	Dq Data Quality	De Domain Experts	Pa Entrenching power asymmetries
Da Data Audit and Inventory	Rb Cultural/ Institutional Roadblocks	RS Resource Availability & Sustainability	Rm Risk Mitigation	Responsiveness	Collaborators	Open washing



△ THE CHALLENGE OF BEING DATA-SUPPLY FOCUSED

- Today, too many data initiatives start from the data supply, NOT the questions one seek to answer...
- Similarly too many Al initiatives fail to specify which societal objectives they seek to optimize for.





TOWARD A THIRD WAVE OF OPEN DATA





ANew Science of Questioning



UNLESS WE DEFINE THE QUESTIONS WELL...
TO UNLOCK THE POTENTIAL OF DATA AND DATA SCIENCE
HOW CAN WE PROVIDE ANSWERS THAT MATTER?

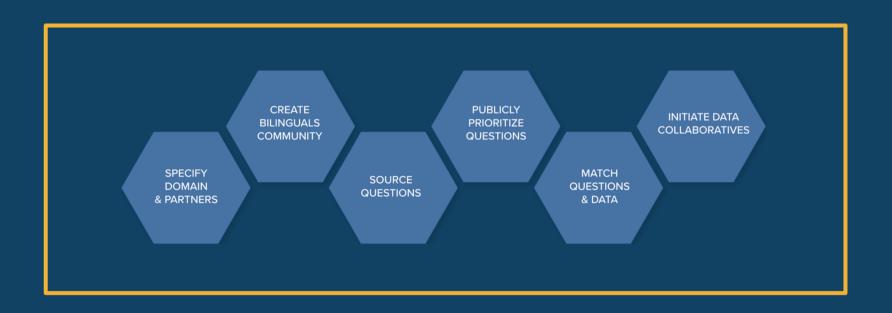








100 Questions Methodology



The 100 Questions: **Toward Demand-Driven Data Collaboration**



Future of Work

Food Systems

Sustainability

Governance

Migration

Gender

Air Quality

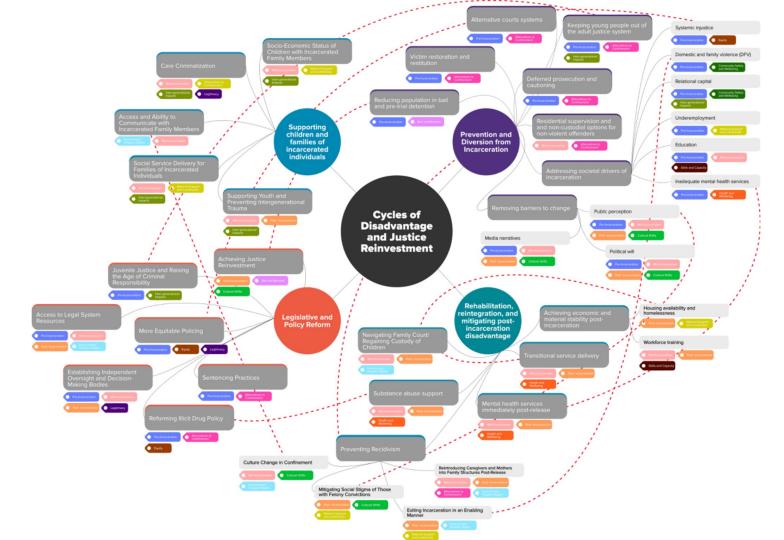




I. TOPIC MAPPING & DEMAND ASSESSMENT

• A **topic map**: a conceptual understanding of a complex system for collective action purposes.

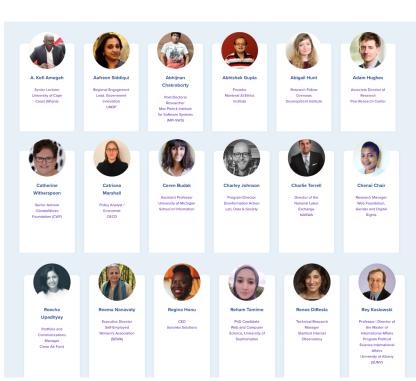






II. ACTOR MAPPING & BUILDING A BILINGUAL COMMUNITY







A GLOBAL BRAINTRUST OF BILINGUALS



666 total bilinguals



III. SOURCING QUESTIONS THAT MATTER



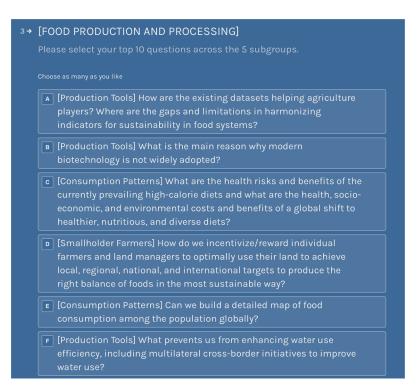


IV. PRIORITIZING QUESTIONS THAT MATTER

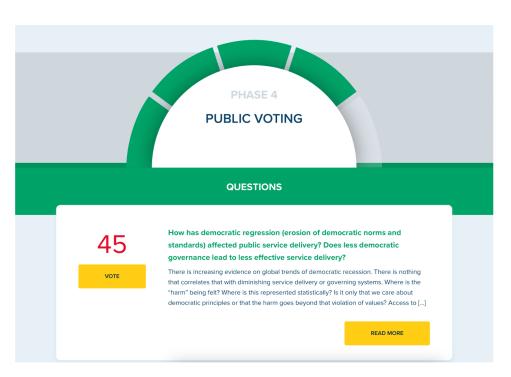
100Q seeks to source **questions that matter**. To do so, the following criteria is used when submitting high-impact questions:

What makes a good (data) question?

- Practical and/or Scientific Impact potential to transform our understanding of the problem, fuel innovation or improve how we address societal challenges;
- 2. <u>Novelty</u> questions that have not been answered or analyzed before with answers that will confirm, refute, or extend previous findings;
- Feasibility likelihood that the question could be answered with existing data and methods;
- **4.** Quality overall alignment with the above criteria.



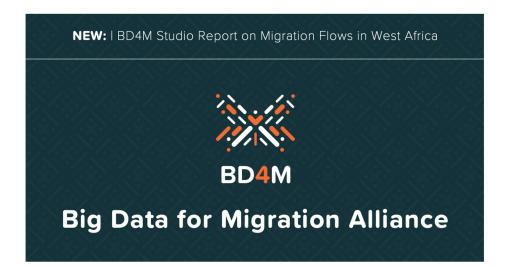
Bilingual Clustering & Prioritization



Public Voting Campaign



V. PURPOSE-DRIVEN OPEN DATA

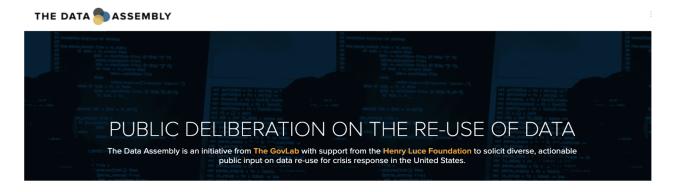






ALLOWS FOR ENGAGEMENT AT #LEVELS







Focus on Questions also provides for more Responsible Data and Al use

Allows for a collaborative approach toward:

- Purpose specification;
- Objective prioritization.

That provides for

- A reimagined concept of data stewardship and quality;
- A social license for re-use;
- Appropriate limits on data collection, access and re-use (minimization);
- Guidance for machine learning toward beneficial outcomes;
- People-centric data collaboration and (re-)use.





The Data Stewards Network (DSN) connects responsible data leaders from the private and public sectors seeking new ways to create public value through cross-sector data collaboration. Watch this space for regular insights and outputs from the Network.

