

Data For Good
 John McNutt
 Joseph R. Biden School, University of Delaware
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What keeps you up at night?

- Fighting Poverty?
- Preventing Violence and Injustice?
- Improving Health Care?
- Combating Climate Change?
- Protecting the Vulnerable?
- Fighting Hate?

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Data Can Make Change/Data Can Change Lives



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New Data
/New
Methods



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What's Different

- New Data Sources
- New Methods



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New Data Sources

- Open Civic Data
- Data from Open Government
- Citizen Science Data/Crowdsourced data
- Corporate Data Sharing—Data Philanthropy
- Data Collaboratives
- Social Media and Search Data
- Sensor Data



New Methods/Tools

- Data Literacy
- Collaboration, Crowdsourcing and Co-Creation
- Digital Methods, Experiments, Digital Trace Studies, Text Analysis
- Data Science—Machine Learning, Data Visualization, Artificial Intelligence

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So Why Don't We?

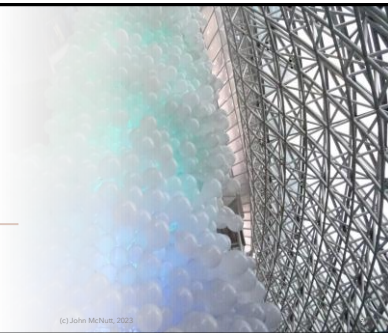
Government and nonprofits that are dealing with the problems don't have the capacity to use data science and technology tools. Barriers include staff expertise, technology, access to data.

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Data For Good

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Data4Good Examples


Tracking Disease with Data & AI	Human Rights Abuses	Human Trafficking & Slavery	Homelessness
Pandemics and Epidemics Disease Reconnaissance Mental Health Monitoring	Genocides and Mass Murder Rights Abuses Harassment of Journalists	Missing Persons Modern Day Slavery Kidnapping	Residential Patterns Homelessness Slums
Corruption & Voter Fraud	Immigration & Refugees	Water	Violence, War & Hate
Voting Irregularities Registration Issues Voter Suppression	Refugees and Migrants Patterns of Relocation Abuse of Migrants	Water Availability Clean Water	Mass Violence Gun Violence Hate Crimes War and Terrorism

Source: McNutt, 2019

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The Volunteer

- Key to the entire process
- Has needed skills
- Has Commitment

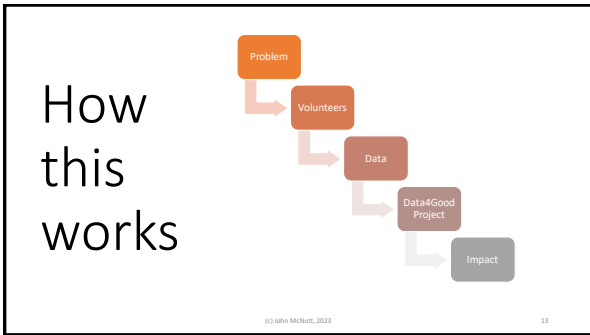


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The Data4Good Ecosystem

Organizations	Employers & Volunteers	Placement Agencies	Data Providers	Domain Agencies
Tasks	<ul style="list-style-type: none"> • Employers • Faculty • Volunteers • Universities 	<ul style="list-style-type: none"> • Broker Requests • Place Volunteers • Support Volunteers 	<ul style="list-style-type: none"> • Domain Provider • Open Civic Data • Data Collaboratives • Data Philanthropy • Citizen Science 	<ul style="list-style-type: none"> • Organizations dealing with problems on the ground • Nonprofit/NGOs • Government

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Data4Good and Advocacy

- Data4Good supplements traditional and emerging techniques
 - Traditional Methods
 - Electronic Methods



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We can make a difference!

- Domain Organizations can get needed help from highly skilled volunteers
- Data Scientists can (1) Develop new skills (2) Have Fulfilling roles making social change happen and (3) build their contact base.
- Employers can benefit from a more motivated workforce and excellent publicity
- Society and the World Benefit Every Day

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Thank you! Now go
do something

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