

Hadassah Damien, Participatory Budgeting Project @hadassahdamien

Nonprofit and Grassroots Org. Logic Models

Small organizations don't generally use *machine computed* algorithms, but we do use algorithms: formalized decision making, equity logic and mission-based choices drive our work as well as our outcome review.

Logic + Mission == Concept Modelling

~another way~

Mission + Algorithm == Applied Technology

But: are our models ethical? How would we know that?



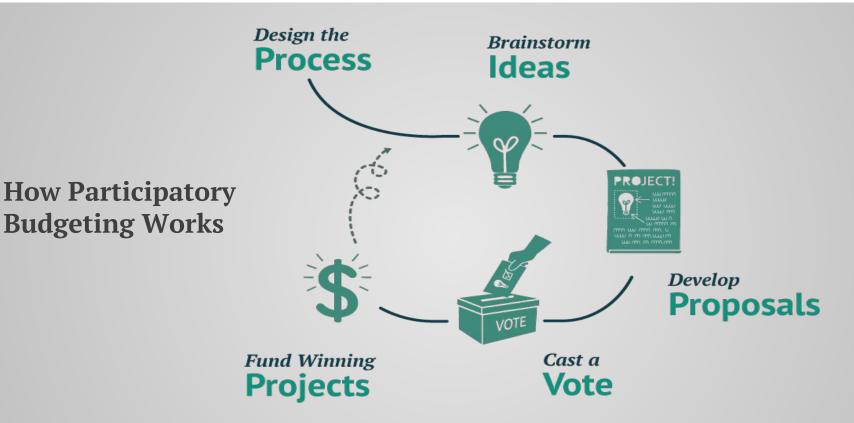


For example, a story about PB

MISSION: Participatory Budgeting (PB) is a democratic process in which community members directly decide how to spend part of a public budget.







www.participatorybudgeting.org

@PBP ject

// @hadassahdamien



2016 PBNYC RESULTS



67,690

New Yorkers cast their votes across 28 districts.



\$38 MILLION

We're allocating \$38 million for locally-developed projects.



132

Community PB projects were funded this cycle.

NEW YORK CITY





Low-income votes in New York City

40% of voters in PBNYC

Source: Public Agenda, 2015.

Cool numbers! They lead to: Outcome metrics + Mission = Impact Formula

The resultant outreach concept model looks something like this:

- 1. Increased equity is a social and public good (mission)
- Increased civic engagement is a social and public good (mission) so
- Include outreach to underrepresented voter populations (metric)
- 4. Increase outreach to existing participants, partners, and supporters (metric)
- 5. Determine and collect vector or proxy data to measure increase, equity & engagement

(Numbers → Logic) + Mission = Concept Model

In this sector, social-technical structures originate from the "social": organizational missions.

This leads NPOs and grassroots orgs do one thing WAY better than programmed algorithms: We integrate concept models like justice, fairness, equity into our algorithmic behavior.

Mission + Algorithm == Applied Technology

Two things about nonprofits' applications of data technologies:

- Do not generally engage large-scale machinability, machine-learning, or big data:
 - Lessening mass outreach
 - Lessening peer touch, no "friends of friends"
 - Lessening siloization
 - Lessening responsibility for developing external data profiles

Mission + Algorithm == Applied Technology

Two things about nonprofits' applications of data technologies:

2. Do seek out and sometimes collect sensitive demographic or proxy data to speak to our impact, mission, and donor reporting

Where nonprofits are making mission-based concept-modeled formulas, we may also gather data sets based on experiences of marginalization.

Outcome metrics + Mission = Impact Formula

Let's return to the formula -- I forgot to add one part:



(Outcome metrics + Mission)

Funder & Board Review and Oversight





PB is endorsed as best practice in government, and this means our outcomes and data use is observed.

















NEW ECONOMY



















Plus: With a mandate of equity, we're doubly responsible for the security and privacy of data we collect, and to those we collect it from.

Nonprofits and grassroots orgs must be good stewards of collected or proxy data: especially when we seek sensitive or demographic data from youth, LGBTQ+ populations, immigrants, or on race and ethnicity, disability etc. to report on our impacts.

Transparency matters, especially in Civic Tech

Technology is not neutral, and neither are the decisions behind it.

For publicly or donor-funded organizations, a feedback loop on our algorithms is developed when we must reveal the thinking behind our use of data, as shown in impact reports.

Outstanding questions:

How can oversight or evaluation make the contents of socio-technical algorithms (more) ethical?

What would a culture of data transparency (and anonymity) look like?

Can industry learn from NPOs focus on human intelligence in our modeling?

What algorithmic decision-making models can NPOs learn from to be more effective, while keeping mission at the core of their modeling?

What privacy and security measures should be considered crucial for civic or publicly-funded data?