Using Innovative Methods in Evaluation – What's Needed?

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BetterEvaluation ANZSOG (Australia and New Zealand School of Government)

Australasian Evaluation Society conference Canberra, Australia 4 September 2017

What do we mean by innovation in evaluation?

A change – at least in that setting-

That adds value – such as solving a problem, meeting a need, requiring fewer resources

Some types of innovation

Invention

New technology or new process

Transfer or translation

Bringing in an idea from another setting or another purpose, and possibly adapting it

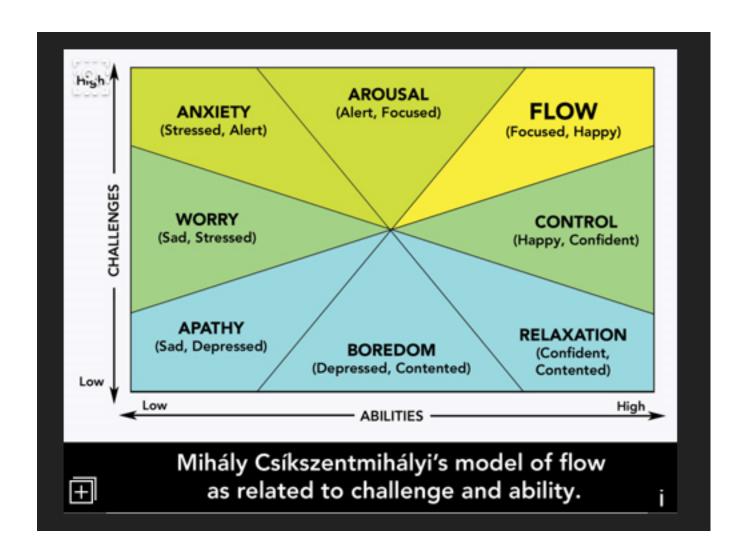
Bricolage

Gathering together existing elements in a new way

Systematisation

Documenting and making explicit and systematic some existing practices

When does innovation arise?

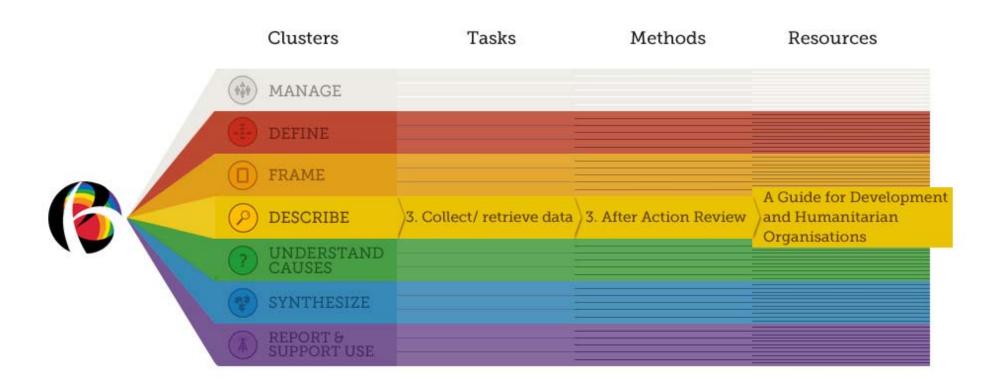


http://www.globoforce.com/gfblog/2013/happiness-flow-and-how-to-be-a-better-leader/

Where are some areas of evaluation practice where innovation might be needed?



Innovation across the range of evaluation tasks



Planning an Evaluation: Using the Rai

The BetterEvaluation Rainbow Framework can help you to plan an evaluation by prom key questions. This can be used to develop an evaluation plan, a Terms of Reference, consider these issues, including reporting, at the beginning of an evaluation. An expan options or methods for each question can be downloaded from our website; http://be



MANAGE an evaluation or evaluation system

Manage an evaluation (or a series of evaluations), including deciding v and who will make decisions about it.

Understand and engage with stakeholders: Who needs to be involve be identified and engaged?

Establish decision making processes: Who will have the authority to a about the evaluation? Who will provide advice or make recommendat processes will be used for making decisions?

Decide who will conduct the evaluation: Who will actually undertake

Determine and secure resources: What resources (time, money, and e evaluation and how can they be obtained? Consider both internal (e.g. previous participants' time).

Define ethical and quality evaluation standards: What will be consid evaluation? How should ethical issues be addressed?

Document management processes and agreements: How will you do management processes and agreements made?

Develop evaluation plan or framework: What is the overall plan for the evaluation framework across several related evaluations?

Review evaluation (do meta-evaluation): How will the evaluation its process, and report?

Develop evaluation capacity: How can the ability of individuals, grou and use evaluations be strengthened?



DEFINE

MANAGE

DEFINE what is to be evaluated.

Develop a description (or access an existing version) of what is to be e to work.

Develop initial description: What exactly is being evaluated?

Develop program theory / logic model: How is the intervention unde theory of change, logic model)?

Identify potential unintended results: What are possible unintended negative) that will be important to address in the evaluation?



FRAME the boundaries for an evaluation

Set the parameters of the evaluation – its purposes, key evaluation qu standards to be used.



4. DESCRIBE activities, outcomes, impacts and context

May 2013

Collect and retrieve data to answer descriptive questions about the activities of the project/program/ policy, the various results it has had, and the context in which it has been implemented.

Sample: What sampling strategies will you use for collecting data?

Use measures, indicators or metrics: What measures or indicators will be used? Are there existing ones that should be used or will you need to develop new measures and indicators?

Collect and/ or retrieve data: How will you collect and/ or retrieve data about activities, results, context and other factors?

Manage Data: How will you organize and store data and ensure its quality?

Combine qualitative and quantitative data: How will you combine qualitative and quantitative data?

Analyze data: How will you investigate patterns in the numeric or textual data?

Visualize data: How will you display data visually?



DESCRIBE

5. UNDERSTAND CAUSES of outcomes and impacts

Collect and analyze data to answer causal questions about what has produced outcomes and impacts that have been observed.



Check the results support causal attribution: How will you assess whether the results are consistent with the theory that the intervention produced them?

Compare results to the counterfactual: How will you compare the factual with the counterfactual - what would have happened without the intervention?

Investigate possible alternative explanations: How will you investigate alternative explanations?



6. SYNTHESIZE data from one or more evaluations

Combine data to form an overall assessment of the merit or worth of the intervention, or to summarize evidence across several evaluations.

SYNTHESIZE

Synthesize data from a single evaluation: How will you synthesize data from a single evaluation?

Synthesize data across evaluations: Do you need to synthesize data across evaluations? If so, how should this be done?

Generalize findings: How can the findings from this evaluation be generalized to the future, to other sites and to other programs?



7. REPORT AND SUPPORT USE of findings

Develop and present findings in ways that are useful for the intended users of the evaluation, and support them to make use of them.

SUPPORT

Identify reporting requirements: What timeframe and format is required for reporting?

Develop Reporting Media: What types of reporting formats will be appropriate for the intended users?

Ensure accessibility: How can the report be easy to access and use for different users?

Develop recommendations: Will the evaluation include recommendations? How will these be

Some evaluation challenges where innovation might help

- 1. How can innovation help us to meet the challenges of the 4 competing imperatives of utility, validity, feasibility and propriety?
- 2. How can evaluations gather 'good enough' data in time to inform decisions?
- 3. How can evaluations ensure the values of intended beneficiaries are taken into account?
- 4. How can evaluations synthesise evidence and values systematically to draw evaluative conclusions?
- 5. How can evaluations make reasonable claims about the impacts of programs, given the influence of other factors?
- 6. How can evaluations draw causal conclusions when it is not possible to construct a credible counterfactual?
- 7. How can evaluation designs include an emergent element to accommodate emerging issues and understandings?

Some strategies for supporting appropriate choice of innovations

Rogers' theory of innovation - the importance of:

- Relative advantage clear, unambiguous advantage in terms of effectiveness or cost-effectiveness
- Compatibility with existing systems
- Ease of use
- Trialability

What are other factors affecting the likely suitability of an innovation?

Some strategies for supporting appropriate use of innovations

- 1. Gather existing knowledge about the innovation, including possible technical support
- 2. Do a trial in one or more sites and visibly evaluate it
- 3. Share learnings
- 4. Provide support for further uptake

USAID Complexity-Aware Monitoring 'Shepherding new methods

What are other strategies to support implementation of innovations?

For each of the following 4 innovations...

CHOOSING

- 1. Do you think this might be useful for you to use? Why or why not?
- 2. What other information and assistance would be useful to have in order to make this choice?
- 3. How might you get this?

USING

- 1. What other information and assistance would be useful to have in order to use this innovation well?
- 2. How might you get this?

Innovation example 1: Negative program theory

IMPROVED STUDENT LEARNING



HIGH STAKES TESTING OF STUDENTS

Innovation example 1: Negative program theory

WORSE STUDENT MENTAL HEALTH



HIGH STAKES TESTING OF STUDENTS

Innovation example 1: Negative program theory

WORSE STUDENT LEARNING



HIGH STAKES TESTING OF STUDENTS

Innovation example 2: Big Data



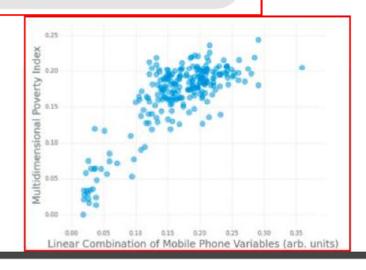
USING MOBILE PHONE DATA AND AIRTIME CREDIT PURCHASES TO ESTIMATE FOOD SECURITY

PARTNERS: UN WORLD FOOD PROGRAMME, UNIVERSITÉ CATHOLIQUE DE LOUVAIN, REAL IMPACT ANALYTICS PROGRAMME AREA: FOOD SECURITY & AGRICULTURE



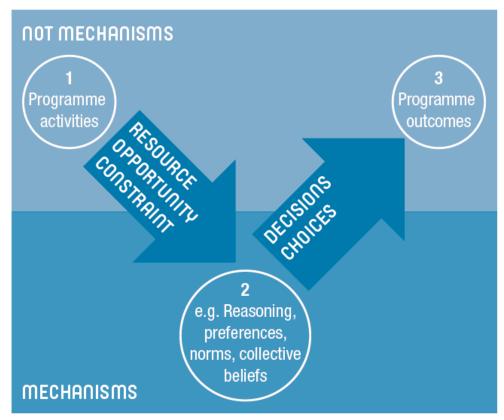
SUMMARY

This study assessed the potential use of mobile phone data as a proxy for food security and poverty indicators. It was conducted jointly with the UN World Food Programme (WFP), Université Catholique de Louvain in Belgium and Real Impact Analytics (a Belgian data analytics company). Data extracted from airtime credit purchases (or "top-ups") and mobile phone activity in an East African country was compared to a nationwide household survey conducted by WFP at the same time. Results showed high correlations between airtime credit purchases and survey results referring to consumption of several food items, such as vitamin-rich vegetables, meat or cereals. These findings demonstrated that airtime credit purchases could serve as a proxy indicator for food spending in market-dependent households. In addition, models based on anonymised mobile phone calling patterns and airtime credit purchases were shown to accurately estimate multidimensional poverty indicators. This preliminary research suggested that proxies derived from mobile phone data could provide valuable real-time information on the levels of several indicators related to food security, which could be integrated with early warning and monitoring systems, filling data gaps between survey intervals, and in situations where timely data is not possible or accessible.



Innovation example 3: Realist Evaluation

Generative explanation in realist programme evaluation



Wong, G., Westhorp, G., Pawson R, and Greenhalgh, T. (2012) Realist Synthesis RAMESES Training Materials. Reproduced with permission. Note that 'generative explanation' means 'explaining how causation works'.



Innovation example 4: EvalC3 – evaluating complex causal configurations

It enables users to:

- a.identify sets of attributes that describe a project intervention & its context, and which are good predictors of the achievement of an outcome of interest,
- b.compare and evaluate the performance of these predictive models, and
- c.identify relevant cases for follow-up within-case investigations to uncover any causal mechanisms at work.
- Can be used during a project evaluation (also has other uses)
- •Causes of effects" analysis: To identify what combination(s) of project activities (and their contexts) were associated with a significant improvement in beneficiaries lives.
- •"Effects of causes" analysis: To identify what combinations of improvements in beneficiaries lives were associated with a specific project activity (or combination of)
- •To identify "positive deviants" cases where success is being achieved despite the fact that failure is the most common outcome

•https://evalc3.net/



Select Data 9

Get Started Input Data Select Data Design & Evaluate View Models View Cases

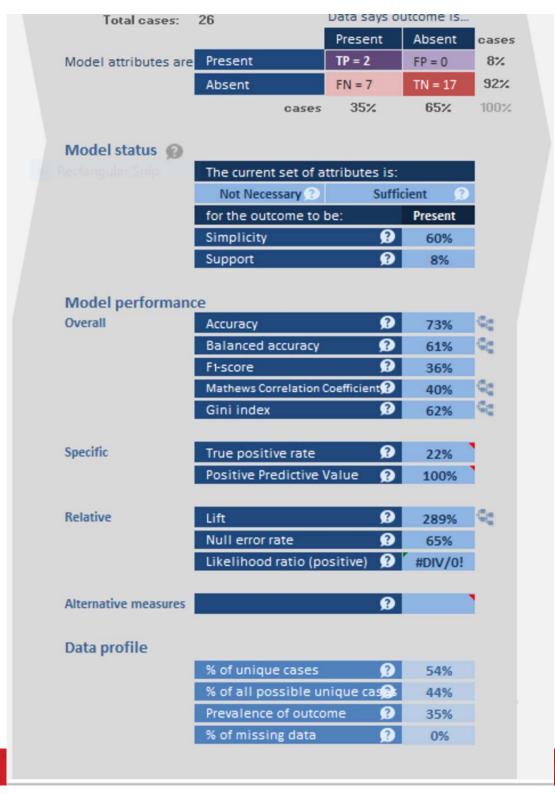
Configurations: 14
Consistency: 100%

Consistency: 100%

Diversity: 44%

Find optimal attributes

	y		************			y
ID	Attribute	Attribute	Attribute	Attribute	Attribute	Outcome
Country	Electoral system 💌	Quotas 💌	Women's status	Level of human development 💌	Post-conflict situation	% women in national parliament
Benin	1	0	0	1	0	0
Botswana	0	1	1	1	0	0
Burkina faso	1	0	0	0	1	0
Burundi	1	1	0	0	1	1
Congo	0	0	0	1	1	0
Djibouti	0	0	0	1	1	0
Ethiopia	0	1	0	0	1	1
Gabon	0	0	1	1	0	0
Gambia	0	0	0	1	0	0
Ghana	0	0	0	1	0	0
Guinea-Bissau	1	0	0	0	1	0
Kenya	0	0	0	1	0	0
Lesotho	0	0	1	1	1	1
Madagascar	0	0	0	1	0	0
Malawi	0	1	1	0	0	0
Mali	0	1	0	0	0	0
Mozambique	1	1	0	0	1	1
Namibia	1	1	1	1	1	1
Niger	0	1	0	0	0	0
Nigeria	0	0	0	1	0	0
Senegal	0	1	0	1	0	1
Sierra Leone	1	0	0	0	1	0
South Africa	1	1	1	1	1	1
Tanzania	0	1	0	1	0	1
Uganda	0	1	1	1	1	1
Zambia	0	0	0	1	0	0



What other innovations might you consider?

8 Global Innovations in Measurement and Evaluation

- 1.User-Centric Evaluation
- 2. Shared Measurement and Evaluation
- 3. Theory-Based Evaluation
- 4.Impact Management so evaluation feeds back into programme delivery
- 5.Data Linkage
- 6.Big Data
- 7. Remote Sensing
- 8. Data visualisation

Some other innovations

- 1. Children as evaluators
- 2. Community scorecards
- 3. Positive deviance
- 4. Mobile device data collection
- 5. Community mapping
- 6. Citizen juries
- 7. Realist synthesis
- 8.Infographics
- 9. Rapid impact assessment
- 10.Co-design

Supporting innovation

- As individuals
- As organisations
- Through the AES and other organisations
- Through BetterEvaluation as a platform for co-creating and sharing knowledge about evaluation methods and processes

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An international collaboration to improve evaluation practice and theory by sharing and generating information about options (methods or processes) and approaches.

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Global Innovations in Measurement and Evaluation

Illustrating models and theories of change

BetterEvaluation is going to AES17 -Come say hello!

Lessons from a trial of the Success Case Method

Find options

The Rainbow Framework organizes 300+ evaluation options into 7 clusters of tasks (shown to the right as coloured

tabs).

MANAGE













MANAGE an evaluation or evaluation system

Manage an evaluation (or a series of evaluations), including deciding who will conduct the evaluation and who will make decisions about it. Read more.

- 1. Understand and engage stakeholders
- 2. Establish decision making processes
- 3. Decide who will conduct the evaluation
- 4. Determine and secure resources
- 5. Define ethical and quality evaluation standards
- 6. Document management processes and
- 7. Develop planning documents for the evaluation
- 8. Review evaluation (do metaevaluation)
- 9. Develop evaluation capacity

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 Illustrating models and theories of change

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