EVANS CENTER FOR IMPLEMENTATION AND IMPROVEMENT SCIENCES





Bringing Science to Quality

May 10, 2018

Engage with CIIS

Guide & Innovate

 Provide guidance, support & innovation to design projects that rigorously evaluate the effectiveness of efforts to implement change

Accelerate & Promote Sustainability

 Identify strategies that accelerate the adoption & promote sustainability of effective healthcare interventions

Educate

 Provide implementation & improvement sciences education to faculty, trainees, students

Overview: Implementation & Improvement Sciences

Implementation Science

Focuses on optimal strategies to promote evidence uptake in realworld settings



Addresses

Did stakeholders perform the desired endeavor? Why or why not? How well?



Aims

Translate research intro practice

Systematically implement evidence-based practices

Focuses on rigorously measuring outcomes associated with efforts to improve care delivery

Improvement Science



Addresses

Did the new endeavor measurably improve desired outcomes?



Improve the quality of healthcare





Previous Sessions & Resources

Tentative Date	Session Title	Proposal Areas Addressed
10/25/2017	Identifying Your Implementation & Improvement Sciences Research Question	Quality/Care Gap, Evidence- Based Practice
12/6/2017	Using & Discussing Implementation Science Models	Conceptual Model
1/25/2018	Implementation Strategies Versus Study Interventions	Implementation Strategy
2/28/2018	Designing an Implementation & Improvement Sciences Study	Study Design, Measurement, Analytic Methods
3/22/2018	Designing Your Implementation & Improvement Sciences Study	Measurement, Analytic Methods
4/18/2018	Measuring Implementation & Improvement Outcomes	Measurement, Analytic Methods
5/10/2018	Engaging with Stakeholders to Conduct Feasible & Meaningful Research	Stakeholder Engagement, Feasibility, Team, Policy Environment

Key Take Away Points from the Series

• Think of implementation science as the science of making the right thing to do, the easy thing to do

- Implementation strategies ≠ interventions
- Implementation strategies are the methods used to adopt, integrate evidence into practice

- Important to study both improvement and implementation
- If we successfully implement but fail to improve care, does it matter?
- If we improve care but we have no idea how it was done, is it sustainable?

Key Take Away Points from the Series

• Conceptual models serve as roadmaps for your study design and outcome measures, promote generalizable knowledge for replication, sustainability

- Not all study designs are equal assess their strengths and weaknesses
- Study designs should match your question

- Implementation outcomes ≠ effectiveness outcomes
- Acceptability, adoption, appropriateness, cost, feasibility, fidelity, penetration, sustainability

Engaging with Stakeholders to Conduct Feasible & Meaningful Research

Madeleine LK Scammell, DSc Associate Professor, Environmental Health, BUSPH JPB Environmental Health Fellow, Harvard T.H. Chan SPH

Stakeholder

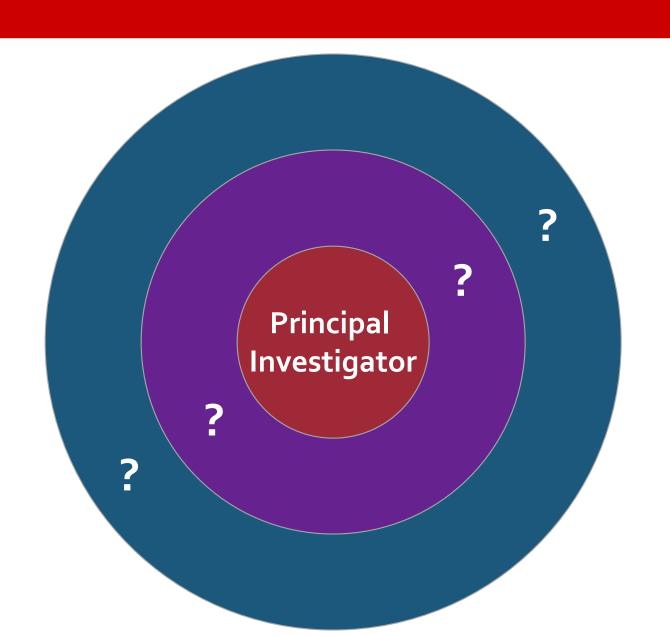
Definition of stakeholder

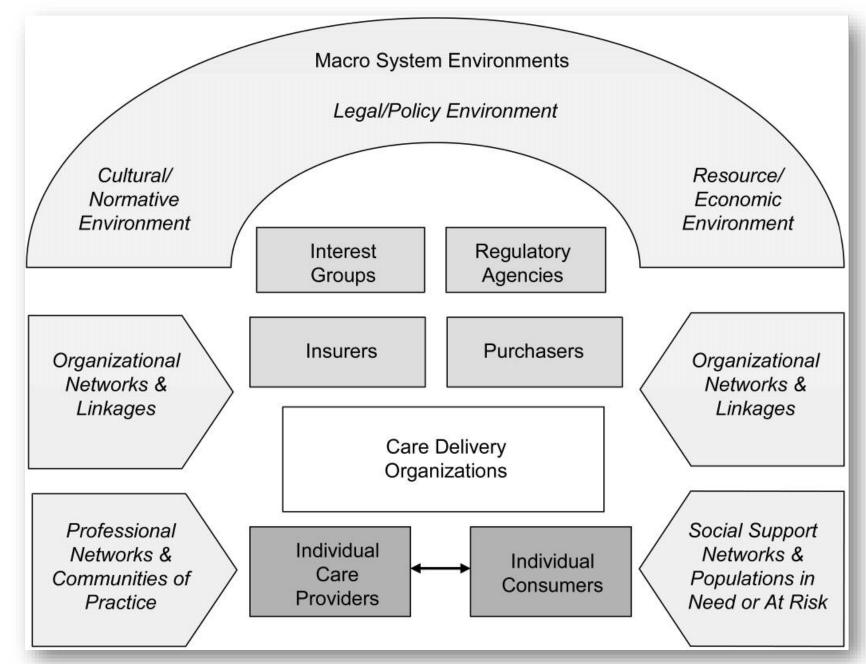
- 1. A person entrusted with the stakes of bettors
- 2. One that has a <u>stake</u> in an enterprise
- 3. One who is involved in or affected by a course of action

"Bannon, who returned to the company last year, stepped down in January—a move reportedly forced by billionaire financier and Breitbart *stakeholder* Rebekah Mercer."

Jeet Heer, The New Republic, "The Breitbartization of Fox News," 22 Mar. 2018

Who Are Your Stakeholders?





Source: Mendel P, et al. Interventions in organizational and community context: A framework for building evidence on dissemination and implementation research. *Adm Policy Ment Health*. 2008;35:21-37.

7Ps of Stakeholder Engagement

- 1. Patients and the public
- 2. Providers
- 3. Purchasers
- 4. Payers
- 5. Policy-makers
- 6. Product-makers
- 7. Principal investigators

Source: Concannon TW, Meissner P, Grunbaum JA, McElwee N, Guise JM...Leslie JK. A new taxonomy for stakeholder engagement in patient-centered outcomes research. J Gen Intern Med. 2012;27(8):985-991.

Stakeholder Analysis Matrix

Name	Contact Person Phone, Email, Website, Address	Impact How much does the project impact them? (Low, Medium, High)	Influence How much influence do they have over the project? (Low, Medium, High)	What is important to the stakeholder?	How could stakeholder contribute to the project?	How could stakeholder block the project?	Strategy for engaging stakeholder
EXAMPLE Nurses & Midwives Union	Carlos Davida cdavida@nu.org 998 765 287	High	High	Maintaining working conditions for nurses	Agree for union members to implement the new reforms	Going on strike	Monthly round- table discussions
Patient Advocacy Group	Viki Chan vchan@pag.org 888 587 101	High	Medium	Maximising quality of care for patients	Communicate with other stakeholders to express their support for reforms	Making complaints about quality of service after the reports	Information and feedback meetings every 6 months
Sunday Times Newspaper	Jane Smith jsmith@stn.com 888 587 101	Low	High	Getting a good story	Print stories that support the new reforms	Printing stories that oppose the new reforms	Quarterly press meetings

Source: Tools4Dev. Participation. 2014. http://www.tools4dev.org/resources/stakeholder-analysis-matrix-template/

Why Engage with Stakeholders

To conduct feasible and meaningful research

• Feasible: Actual fit or utility of the implementation strategy/innovation, suitability for everyday use

 Meaningful: Efforts that are valued, perceived as worth the resources, expected to result in desired outcomes

Why Engage with Stakeholders?

- Stakeholders vary in their
 - Knowledge
 - Perceptions
 - Preferences

 Stakeholders represent the context when you are aiming to effect change

 Successful implementation depends on fit of implementation strategies and intervention with stakeholder preferences/priorities

Stakeholder-Related Implementation Challenges



Stakeholder Analysis Matrix

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Source: Tools4Dev. Participation. 2014. http://www.tools4dev.org/resources/stakeholder-analysis-matrix-template/

Engaging Stakeholders

- Need to engage with stakeholders when
 - Designing
 - Implementing
 - Evaluating
 - Scaling

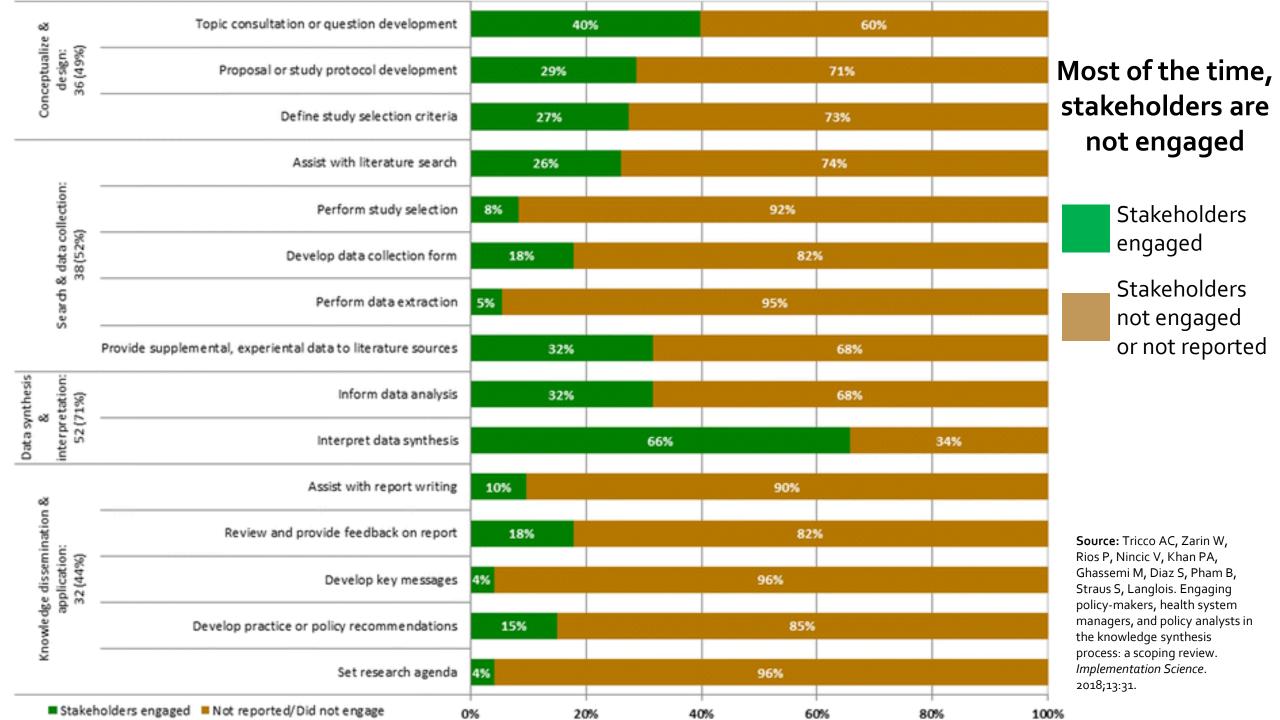
 Degree of stakeholder engagement will influence implementation outcomes

For each project, ask:

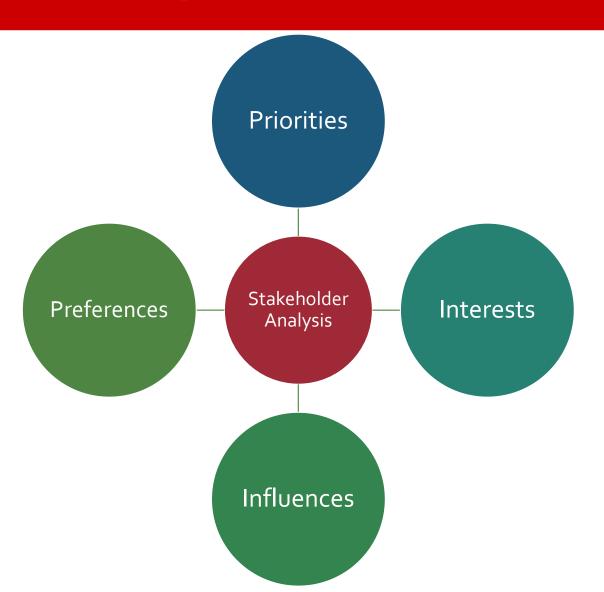
What are processes for engaging stakeholders in pre-, mid- and post-implementation activities?

Outcome Measure	Definition	Role of Stakeholders
Acceptability	Individuals satisfaction with multiple aspects of the innovation	
Adoption	Individual/organizational/setting's use of the innovation	Consider how these
Appropriateness	Compatibility of the innovation with target population, setting	outcomes may be
Feasibility	Individual's/setting's ability to do/use the innovation	impacted if stakeholders are not
Fidelity	Delivering the innovation as intended	engaged when planning study design,
Implementation Cost	Amount of resources required	implementation strategies, etc.
Penetration	Reach of the innovation within target population/setting	strategies, etc.
Sustainability	Maintenance of innovation	

Adapted from: Proctor E, Silmere H, Raghavan R, Hovmand P, Aarons G, Griffey R, Hensley M. Outcomes for implementation research: Conceptual distinctions, measurement challenges, and research agenda. Adm Policy Ment Health. 2011; 38(2): 65-76.



Pre-Implementation Efforts: Stakeholder Analysis



Results of stakeholder analysis should inform implementation strategies

how you promote
 uptake of the evidence based practice

Establishing Relationships: Memorandum of Understanding

- Background
- Purpose
- Reporting
- Funding
- Duration
- Milestones
- Deliverables

Sample Memorandum of Understanding Template

Memorandum of Understanding

Between

(Partner)

and

(Partner)

This Memorandum of Understanding (MOU) sets for the terms and understanding between the (partner) and the (partner) to (insert activity).

Background

(Why partnership important)

Purpose

This MOU will (purpose/goals of partnership)

The above goals will be accomplished by undertaking the following activities: (List and describe the activities that are planned for the partnership and who will do what)

Reporting

(Record who will evaluate effectiveness and adherence to the agreement and when evaluation will happen)

Funding

(Specify that this MOU is not a commitment of funds)

Duration

This MOU is at-will and may be modified by mutual consent of authorized officials from (list partners). This MOU shall become effective upon signature by the authorized officials from the (list partners) and will remain in effect until modified or terminated by any one of the partners by

Pre/Mid/Post Implementation

Key informant interviews

- + Good for taking a deep dive into specific aspects of implementation
- + Can conduct with leadership, mid-level managers, frontline staff
- + Can identify unexpected barriers/facilitators
- Time-consuming to conduct, identify themes

Focus groups

- + Good for soliciting information about group dynamics, team preferences
- + Can use natural groups, cross-section of staff
- + Can identify unexpected barriers/facilitators
- Time-consuming to conduct, identify themes

Surveys

- + Good for obtaining a lot of information in a short-time
- + Can reach larger sample
- + Easy to analyze
- ± Only learn what you ask

Delphi Methods

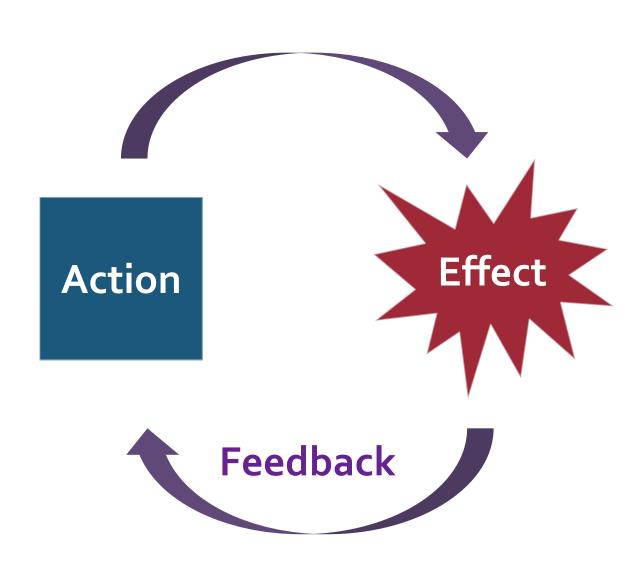
- Survey method that is useful for identifying priorities, achieving consensus
- Process
 - Review materials
 - Rank preferences/priorities
 - Materials are modified
 - Second ranking

- Enables large group of stakeholders to participate
- Not time intensive
- Enables identification of key issues, prioritization of issues by those most impacted
- Flexible can create your own criteria
 - E.g. rank on feasibility, appropriateness, potential impact or write in priority tasks

Opportunities for Engagement

- Regular progress updates
 - Know your audience will they want data or a briefing?

- Opportunities for feedback
 - Encourage feedback loops



Types of Stakeholders: Knowledge Users

- Stakeholder: those affected by, who have an interest in research
- Knowledge User: subgroup of stakeholders who will use research findings to make informed decisions about health systems
 - Patients
 - Caregivers
 - Providers
 - Policymakers
 - Health system managers
- Goal of addressing knowledge users: to co-produce relevant knowledge that aids in decision-making

Types of Stakeholders: Partners

Partner pärtnər

- A person who takes part in an undertaking with another or others, especially in a business or company with shared risks and profits
- Either of two people dancing together or playing a game or sport on the same side
- Either member of a married couple or of an established unmarried couple

Spectrum of Stakeholder Engagement

Community-Based Community-Based Participatory Research

Community -Targeted

Community Driven

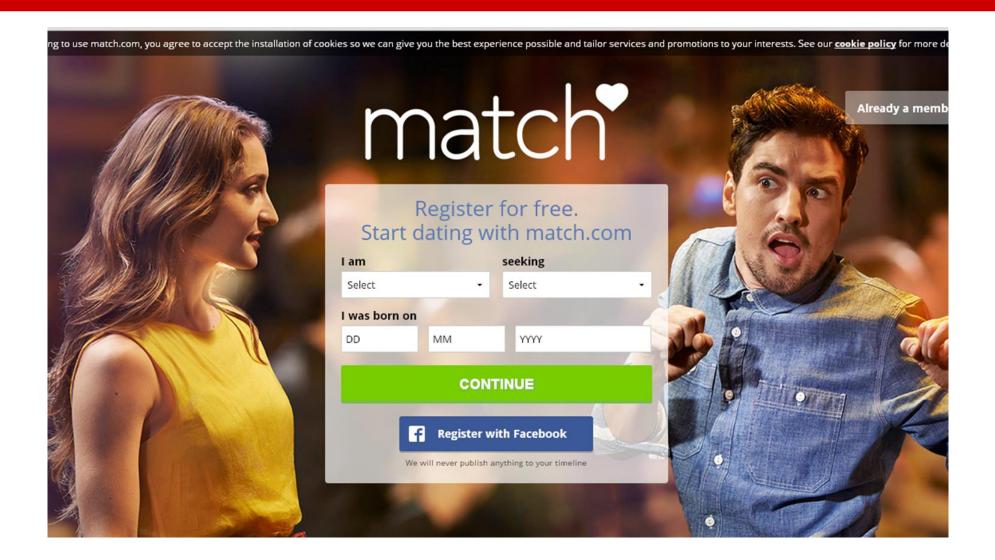
Partnership

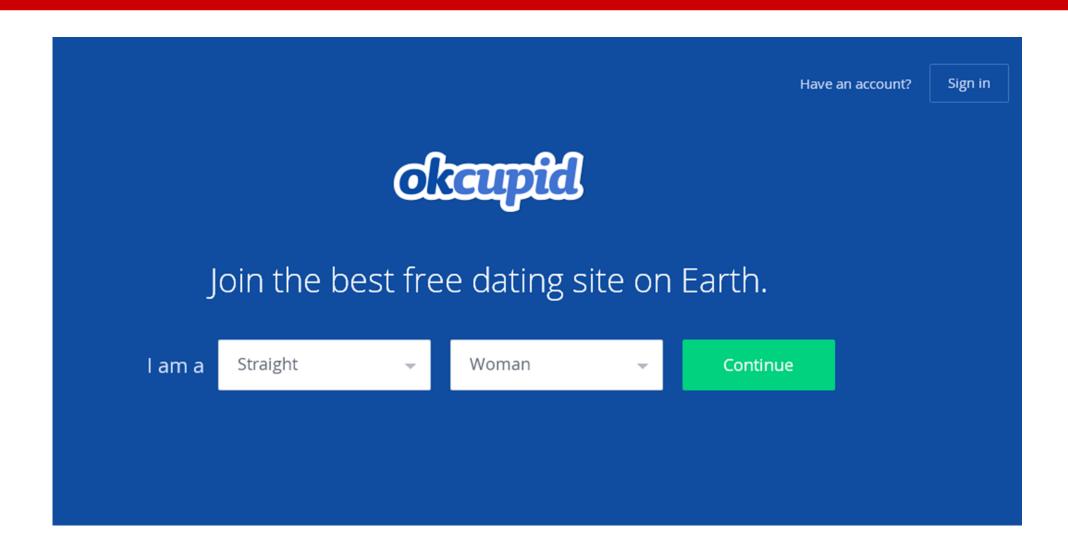
Professionally Driven

Bottom-Up

Shared Ownership

Top-Down





About how long do you want your next relationship to last?

- One night
- A few months to a year
- Several years
- The rest of my life

okcupid

- ·I am looking for...
 - New friends
 - Short-term dating
 - Long-term dating
 - Causal sex

Research partner

·I am looking for...

HEAR-db.org

The HEAR database aims to increase and diversify the legal, scientific, medical and technical expertise available to community groups with environmental and public health concerns.

The HEAR database is a collaborative project of Alternatives for Community & Environment (ACE), Boston University School of Public Health (BUSPH) and Toxics Action Center. Every day, members of community groups across New England call our organizations seeking advice on their work confronting environmental hazards. Sometimes we can handle the questions ourselves, but often we have to look outside our own networks for help. When groups need a lawyer to review siting documents or a doctor to weigh in on the effects of air pollution on health, we turn to the network of HEAR experts to match communities with volunteers. This kind of assistance, and in some cases partnership, is absolutely essential to our work and the services we provide community groups.

Do you have expertise you can share? Sign up today and join a network of scientists, lawyers and other environmental experts committed to assisting residents in building a cleaner, healthier environment.

Become a HEAR expert

← → C ↑ ① www.hear-db.org/volunteer/signup/		
	BMC 📙 BUMC 📙 Imported 📙 Raja	Tag Archive for
Degree(s) or professional license(s).	- Faviran mantal asian as	
	■ Environmental sciences	
	Epidemiology	
	Geology/hydrogeology	
	GIS	
V 6 1 1 1	☐ Immunology	
Year of primary degree or license:		
	Neurology	
Affiliations:	Psychology	
	Public Health (other)	
For example, organizations with which you work on a	Remote sensing	
professional or volunteer basis.	Sociology	
professional of volunteer basis.	□ Toxicology	
	- Toxicology	
	Medicine	
Level of engagement		
	□ Dental/oral	
Come to a community meeting to translate or present	□ Endocrinology	
scientific information		
	□ Family practice	
 Develop a long-term collaborative program 	■ Geriatrics	
Fact-check document (e.g., fact sheets and reports)	■ Internal medicine	
☐ Give expert testimony	■ Mental health	
· · · · · · · · · · · · · · · · · · ·	■ Neurology	
Provide legal advice via phone or meeting	Nursing	
Provide legal representation	3	
Respond to brief questions or quick advice via phone or e-	Nutrition	
	Obstetrics/gynecology	
mail	□ Oncology	
Review a plan / a risk assessment / an EIS / etc	□ Pediatrics	
☐ Sign letters / editorials	□ Psychiatry	
Sign letters / editorials	□ Pulmonology	
	Pullionology	
If students are available for project work, please detail course,		
experience level, and time available:		
	Professional	
	Fiolessional	
	A volsito etuvo /le v de cene	
//	□ Architecture/landscape	
	architecture	
Non-English language proficiency:	☐ Civil Engineer	
	■ Economist	
American Sign Language	☐ Industrial Hygiene	
Arabic	Licensed Site Professional	
Cape Verdean Creole	Mechanical EngineerOrganizer	
	0	

How to Document Stakeholder Engagement

Letters of support = the minimum

- Real partnership or collaborative efforts in
 - Identifying the problem
 - Selecting, developing a solution
 - Planning implementation

Examples From My Own Work...

Longitudinal study of workers in El Salvador and Nicaragua:

- Scientific community
- Industry association of sugar producers
- Individual industries
- Unions
- Workers (and families)
- Study participants
- Study teams (nurses, doctors, scientists, students)
- Providers (clinics, hospitals)
- National committees, labs, etc.





Chronic Kidney Diseases in Agricultural Communities

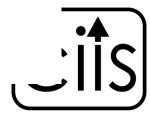
🗂 June 25 - 26, 2018



Metal Exposures and Chronic Kidney Disease
 Ana Navas-Acien, M.D., M.P.H., Ph.D., Columbia University

Gaining Trust in the Community

 Studying the Agricultural Worker Experience in El Salvador Madeleine Scammell, D.Sc., Boston University



Recommendations for Successful Engagement

- Engage with stakeholders early in the process
 - Build in time to identify and reach out to stakeholders

- Promote feedback processes as a way to ensure transparency, accountability, credibility
- Detail expectations (e.g. timeline, tasks, roles) of stakeholders
- Manage stakeholder expectations
- Provide regular updates/preliminary results

Key Take Away Points

• Successful implementation depends on fit of implementation strategies and intervention with stakeholder preferences/priorities

• Effective engagement of stakeholders can results in successful implementation

 Stakeholders are people too, be intentional about the nature of your relationship

Your Experiences?

- Challenges engaging stakeholders?
- Times when they needed to be involved, but weren't?
- Where have your experiences been relative to the spectrum of engagement?

Community Driven

Partnership

Professionally Driven

Bottom-Up

Shared Ownership

Top-Down

Thank You!

Contact CIIS

Website: http://sites.bu.edu/ciis/

Email: ciisinfo@bu.edu



