



Empowering the Participant Voice

What if you knew what participants were thinking?

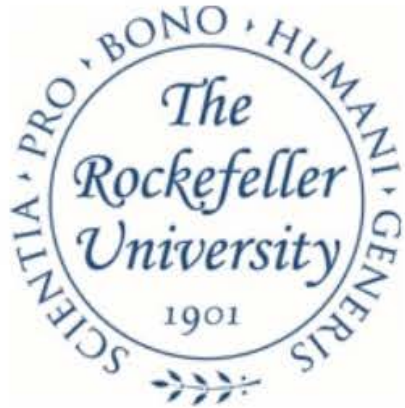
Rhonda G. Kost MD
Project PI, Co-Director Community Collaboration Core
Associate Professor of Clinical Investigation
The Rockefeller University Center for Clinical and Translational Science
Monday April 5, 2021
kostr@rockefeller.edu

Support

Empowering the Participant Voice: Collaborative Infrastructure and Validated Tools for Collecting Participant Feedback to Improve the Clinical Research Enterprise is supported in part by a Collaborative Innovation Award from the National Center for Accelerating Translational Science #U01TR003206 to the Rockefeller University, and by Clinical Translational Science Awards UL1TR001866 (Rockefeller University), UL1TR002553 (Duke University), UL1TR003098 (Johns Hopkins University), UL1TR002001 (University of Rochester), UL1TR002243 (Vanderbilt University), and UL1TR001420 (Wake Forest University Health Sciences).

No conflicts of interest to disclose

Collaborative Infrastructure and Validated Tools for Collecting Participant Feedback to Improve the Clinical Research Enterprise

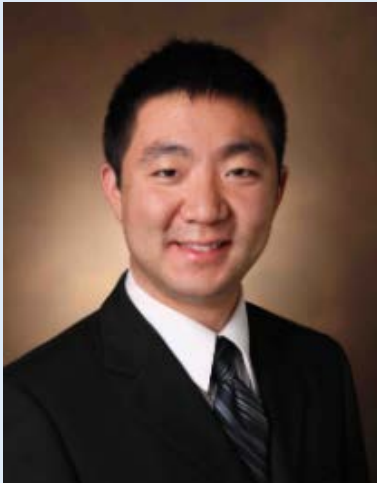


Speakers



Rhonda G. Kost
MD

*Associate Professor
of Clinical
Investigation
Center for Clinical
and Translational
Science*



Alex Cheng
PhD

*Research Assistant
Professor
Department of
Biomedical
Informatics*



Joseph E. Andrews, Jr.
PhD, MA, CIP, CCRP

*Assistant Dean for
Regulatory Affairs and
Research Integrity at
Wake Forest School of
Medicine.*



Ann M. Dozier
RN, PhD, FAAN

*Professor and Chair,
Public Health
Sciences
Albert D. Kaiser Chair
of Public Health and
Preventive Medicine*



Liz Martinez
RN, BSN, CCRC

*Institute for Clinical
and Translational
Research*



Jamie Roberts
MPH, MA, CCRP

*Director, Clinical
Research Networks and
Recruitment Innovation
Duke Clinical and
Translational Science
Institute*



Overview

1. What is the Research Participant Perception Survey (RPPS)?
2. What is the *Empowering Participant Voice* project about?
3. Plans, Progress, What's Next...
4. How will the tools be shared beyond the EPV collaborators?
5. How might the EPV tools to test an innovation in a TIN trial?

- What is the Research Participant Perception Survey (RPPS)?

Research Participant Perception Survey – Validated Measures of the Research Participant Experience



RPPS survey asks about...

- Motivations to join, stay, leave research
- Informed consent
- Listening/courtesy/respect
- Feeling valued
- Language/culture/privacy
- Communication with team
- Rate the Overall research experience
- Would you recommend to friends and family
- Demographics

RPPS-Short-P

x. Motivation to join

1. Would you recommend joining a research study to your family and friends?

2. Did the study require that you already have a disease or condition in order to enroll?

3. Did the study involve taking a drug or a supplement or the use of a new medical device, or undergoing a new medical procedure?

4. Did the Informed consent form prepare you for what to expect during the study?

5. Did the information and discussions you had before participating in the research study prepare you for your experience in the study?

6. Did the research team members listen carefully to you?

7. Did the research team members treat you with courtesy and respect?

8. During your discussion about the study, did you feel pressure from the research staff to join the study?

9. When you were not at the research site did you know how to reach the research team if you needed a question?

10. When you were not at the research site and you needed to reach a member of the research team, were you able to reach him/her as soon as you wanted?

11. Did you feel you were a valued partner in the research process?

12. If you considered leaving the study, did you feel pressure from the Research Team to stay?

13. Did the research staff respect your cultural background (e.g. language, religion, ethnic group)?

14. Did the research staff do everything possible to provide assistance with any language difference you might have?

15. Did you have enough physical privacy while you were in the study?

x. Motivation to leave

x. Motivation to stay

15. Which other things would be important to you in a future study:

16. Please use the scale below to rate your overall experience in the research study, where 0 is the worst possible experience, and 10 is the best possible experience. Scale from (Worst)0.....9,10 (Best)

17. How much did the study demand of you? (Pick the answer that most closely describes your experience)

x. Demographic questions

x. Is there anything else you would like to share about your experience in the study you most recently joined?

- Completely
- Mostly
- Somewhat
- Not at all
- No consent form

- Always
- Usually
- Sometimes
- Never
- No interaction with research team

RPPS Surveys

RPPS – Long survey, aggregate scores, from 15 CTSA centers (~5000 responses)

- 73% gave their overall experience the Top (9 or 10) rating (61-82% across sites)
- 66% Would Recommend research participation to friends and family completely (46-87% across sites)
- Overall rating correlated with feeling valued, respected, listened to (completely); understanding consent (completely), and being able to reach the research team (always) when needed.
- Participants who answered that they trusted the research team completely were the participants who felt they were always treated with courtesy and respect (99%) and always listened to (93%) ($p < 0.001$)

Motivation insights:

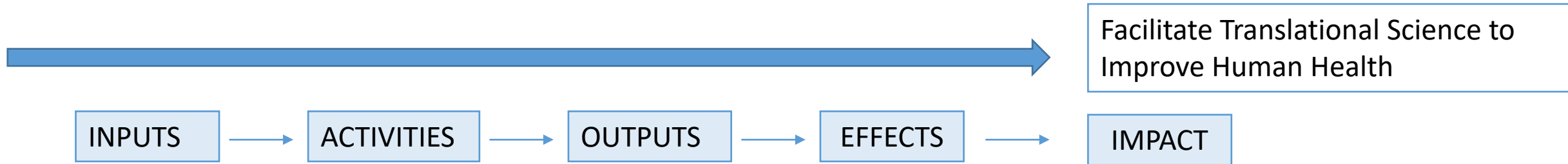
- Participants stayed in research when they felt valued and perceive benefit.
- 85% said they would have liked to receive results of the study
- 72% said receiving results would be a factor in deciding about future participation

RPPS – Short and Ultrashort surveys

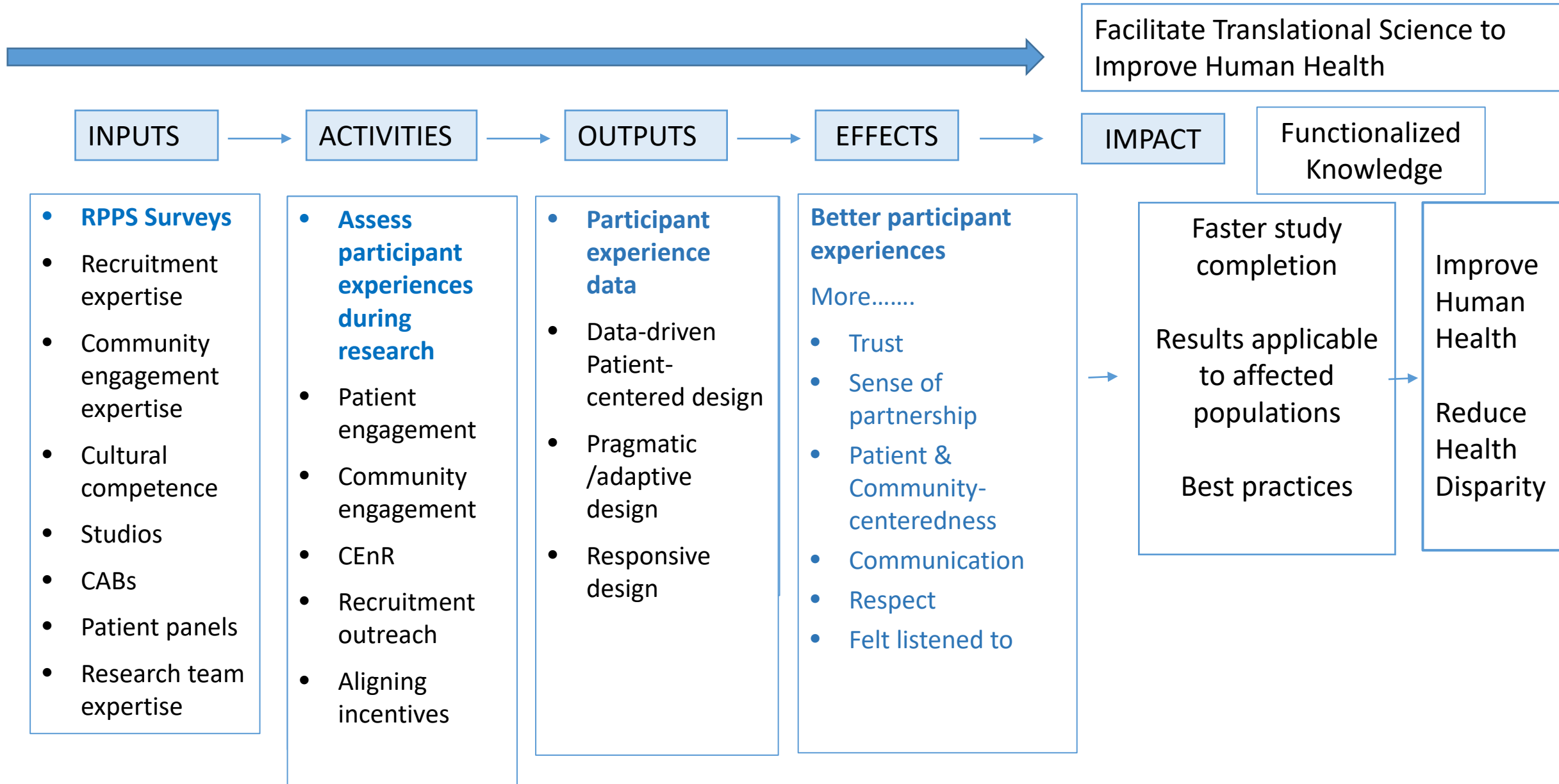
- Capture all the important drivers of overall research rating in a handful of questions (+ demographics)
- Increase response rates to 60-75%

[Link to RPPS surveys and related publications](#)

Evaluation - Causal Pathway



Evaluation - Causal Pathway

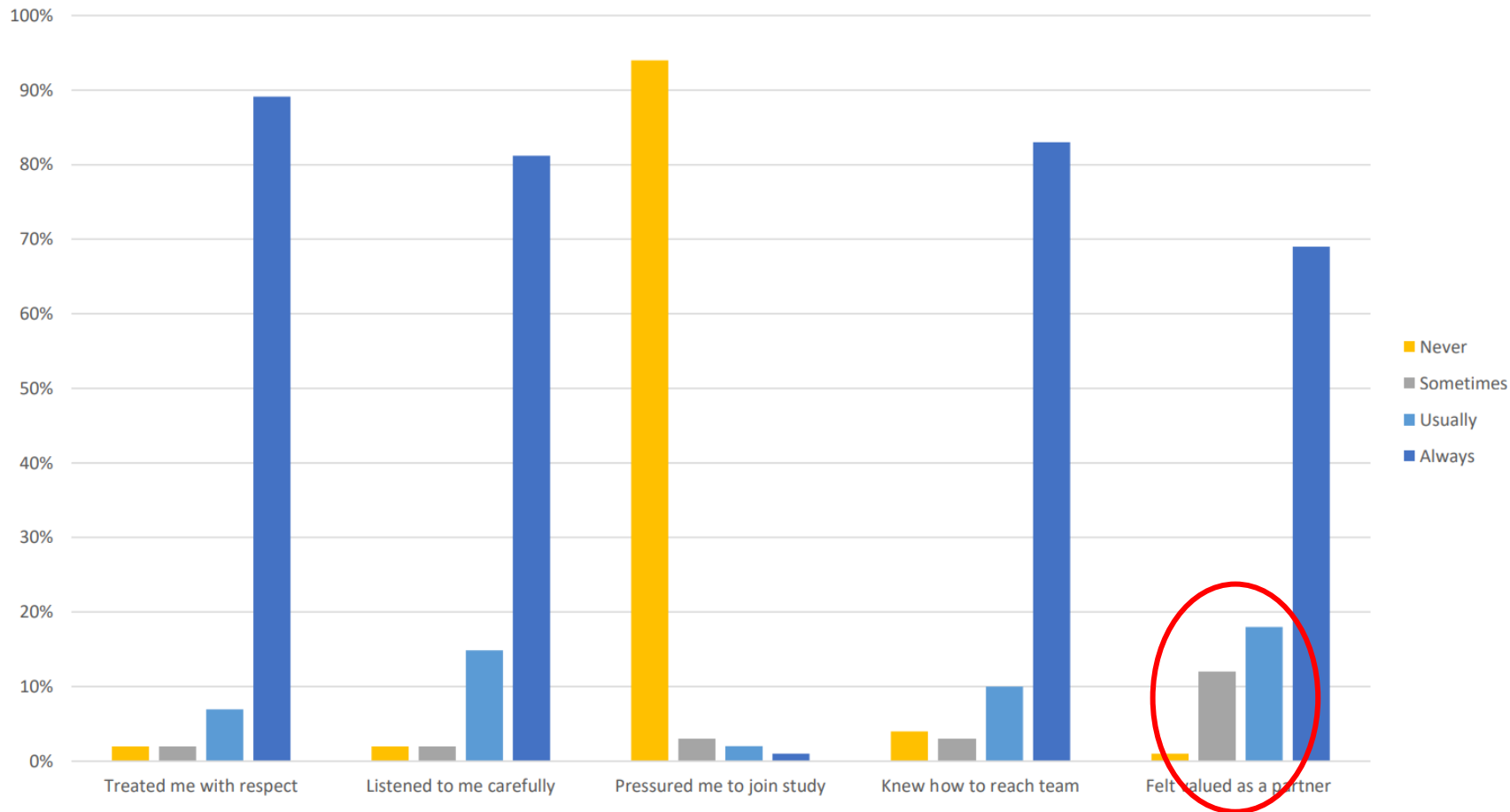


How to use the RPPS?

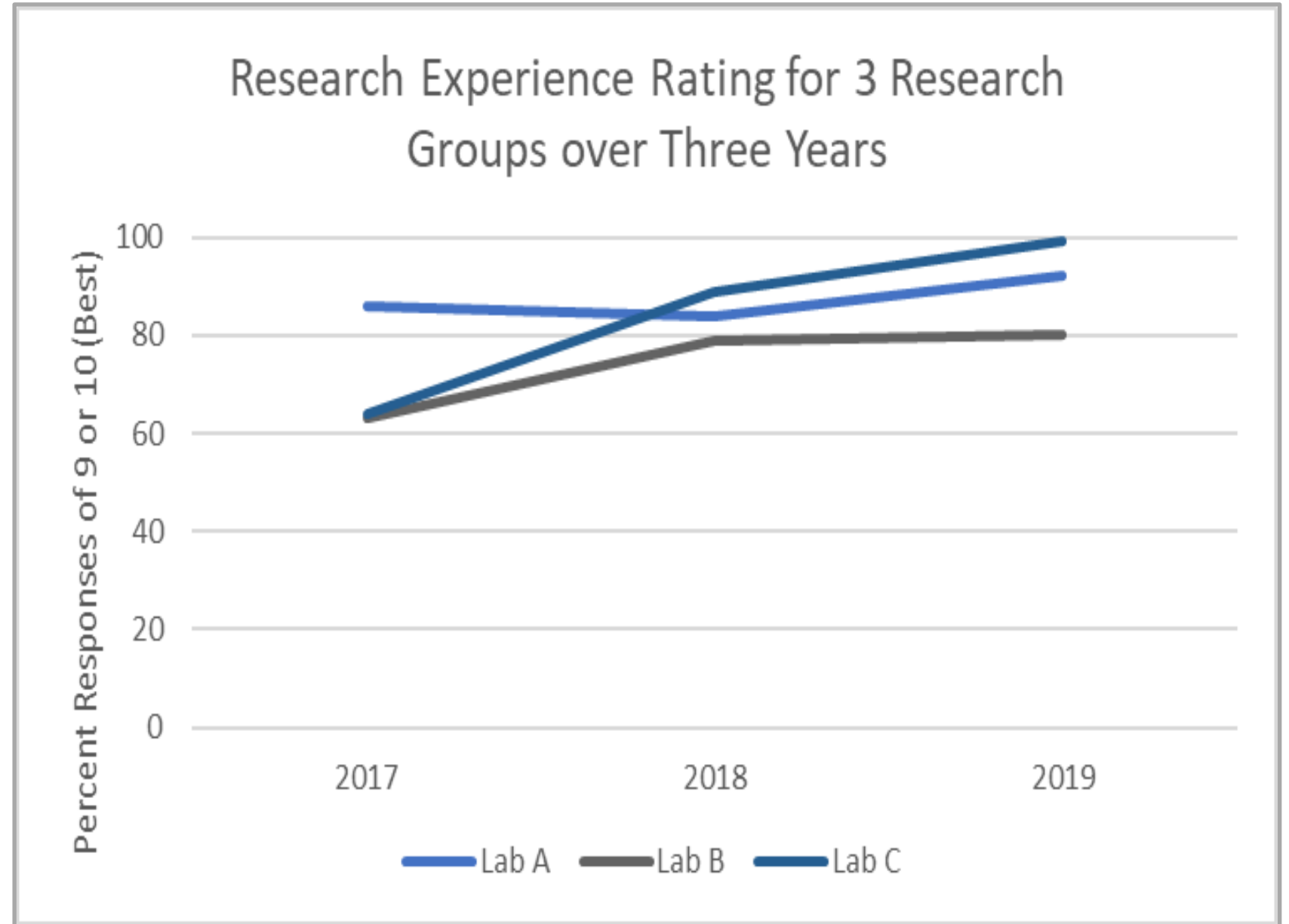
- Complementary to face-to-face initiatives
- Informed by stakeholder input before and after implementation
- Intentionally...
 - Take a pulse
 - Comparative
 - Pre/Post

Cross Sectional - "Take a pulse"

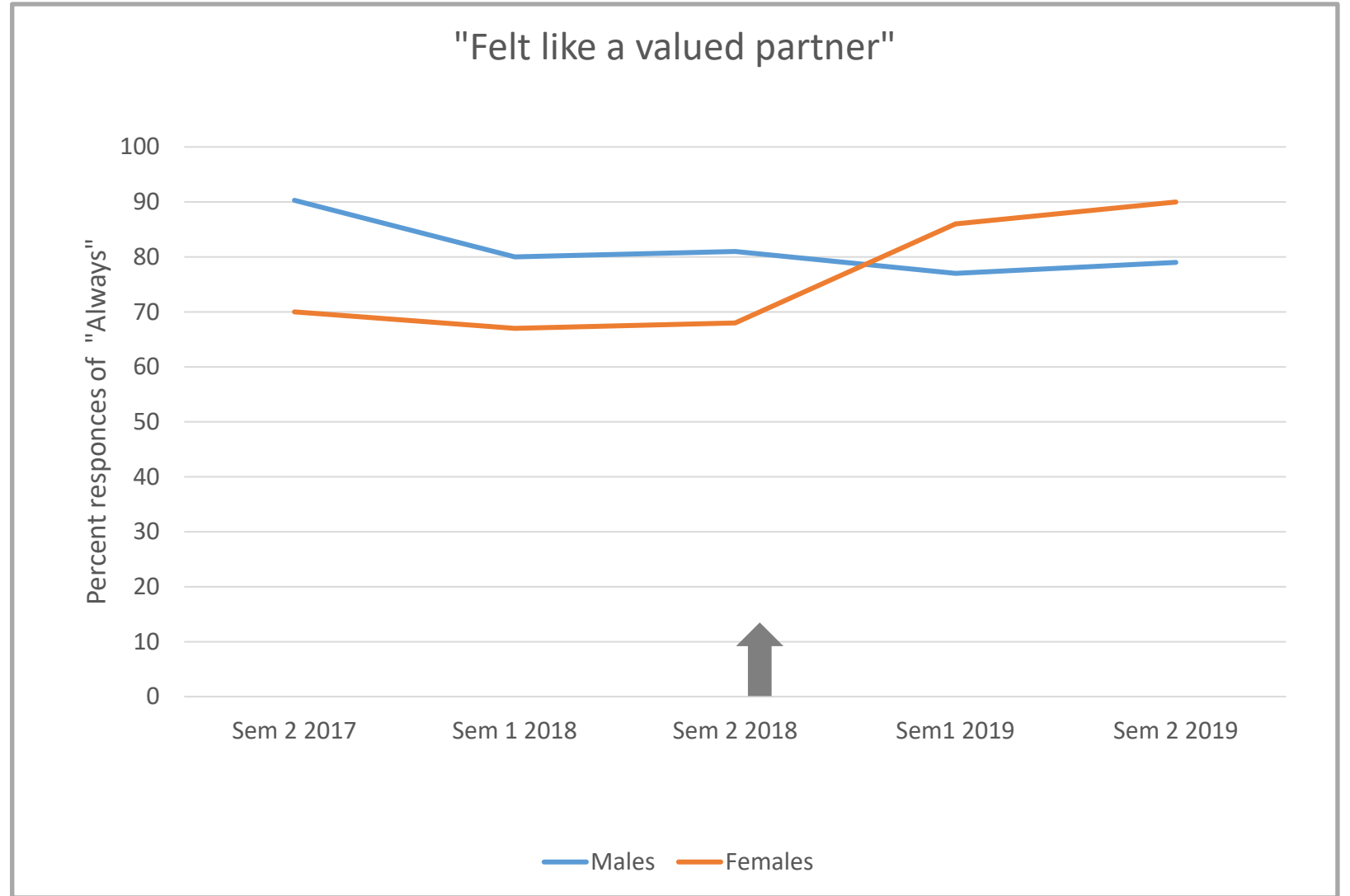
Satisfaction with Research Team



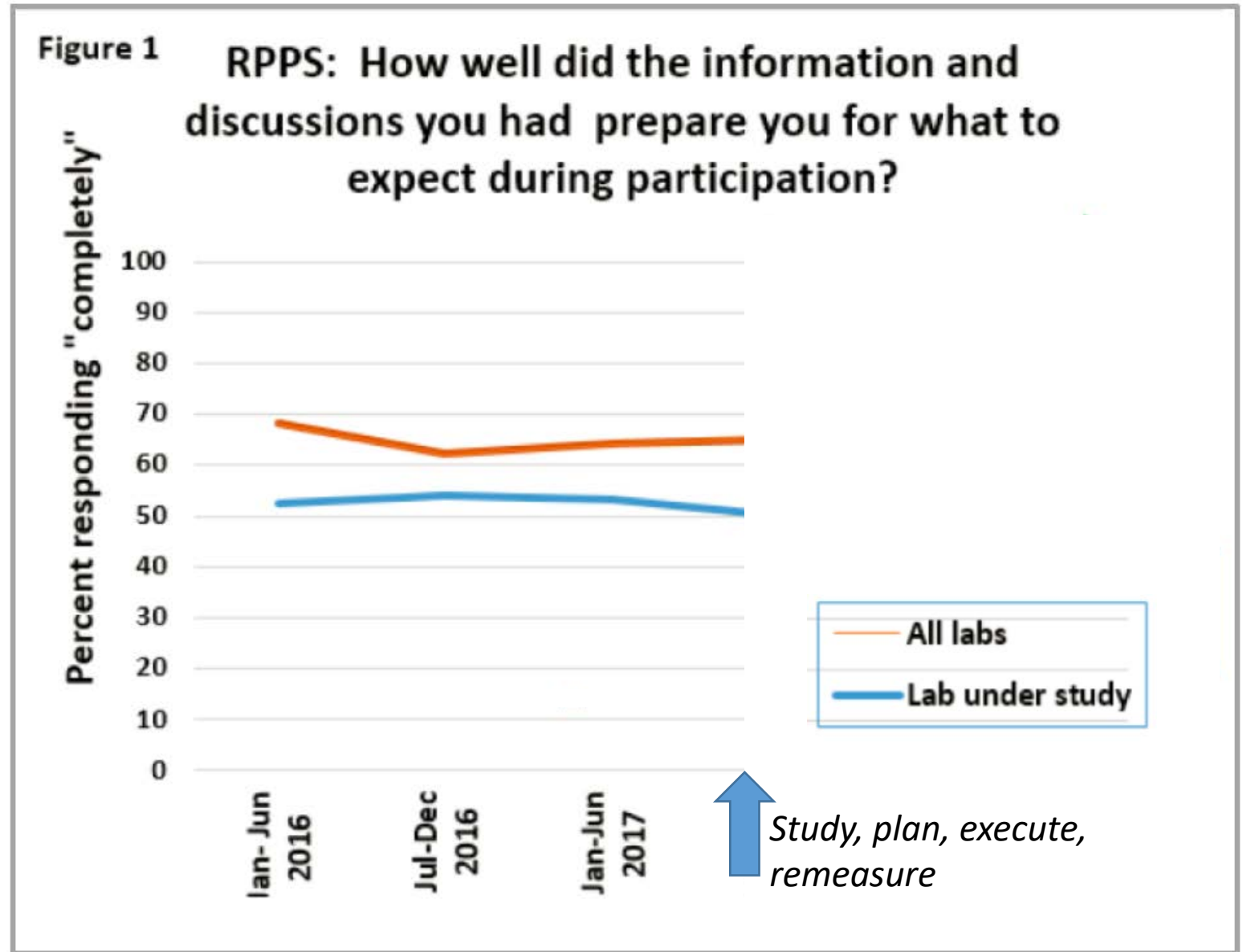
Comparative



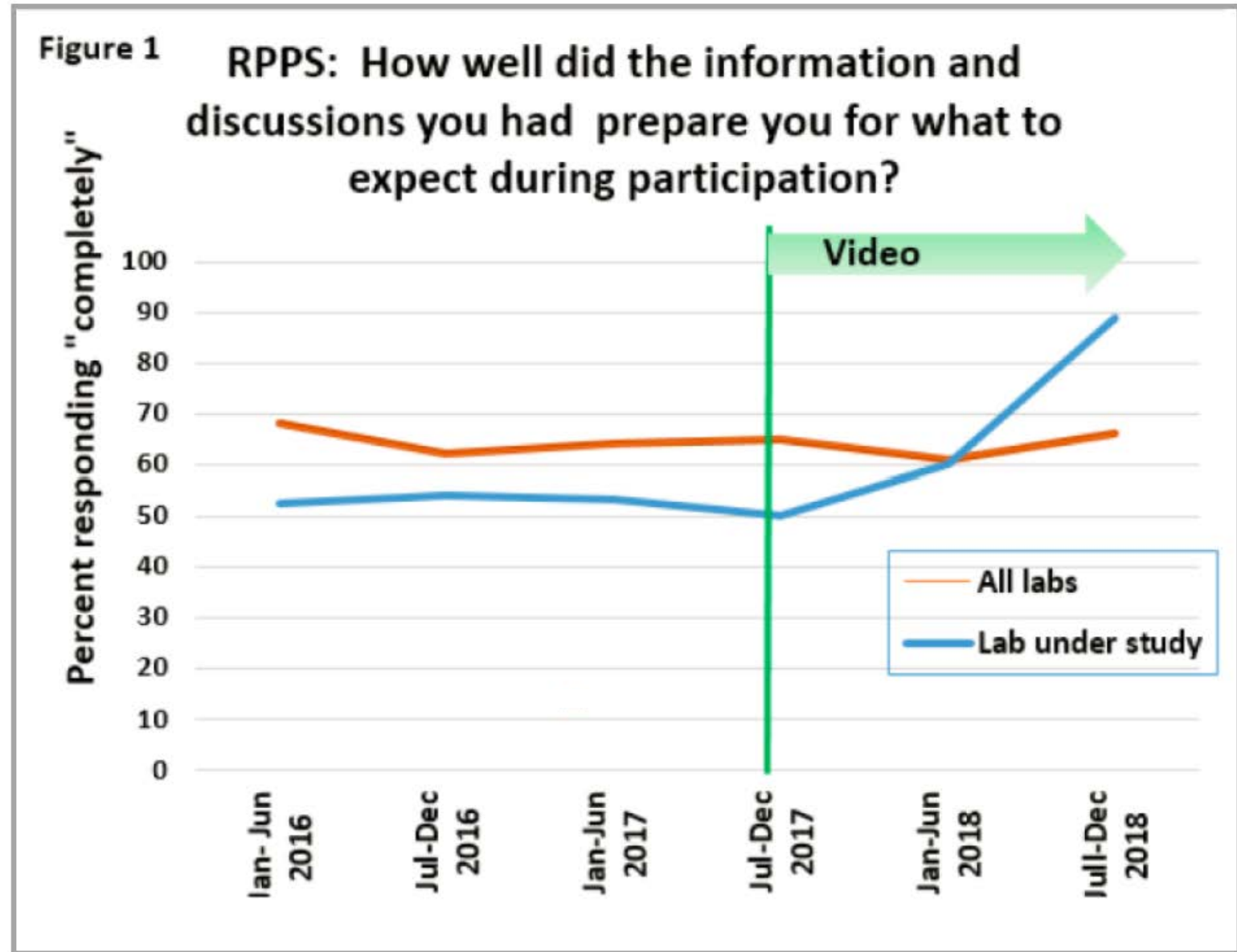
Comparative



Pre/Post



Pre/Post



If you could deploy the RPPS survey right now:

What would you want to learn from the survey?

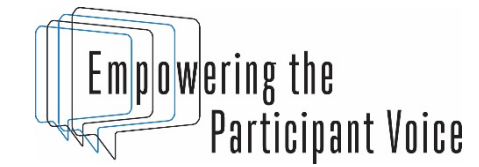
Which participants would you send it to?

With whom would you share results?

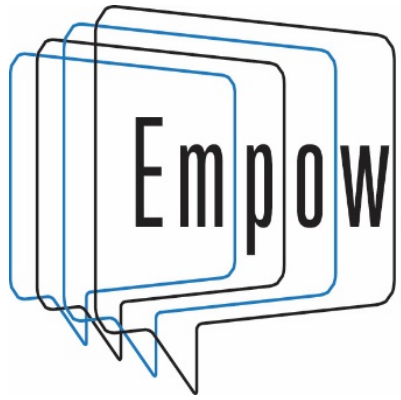
Why isn't the RPPS used more broadly

Common challenges.....

- Cost and logistics of sending surveys
- Managing data
- Analyzing data
- Visualizing data
- What does it mean?



What is the *Empowering Participant Voice* project about?



Empowering the Participant Voice

Collaborative Infrastructure to streamline collection of participant feedback

Specific Aims:

- 1. Develop** a novel Research Participant Perception Survey/REDCap (RPPS/REDCap) collaborative infrastructure and standard implementation models
- 2. Demonstrate** that the collaborative RPPS/REDCap infrastructure and implementation model is an effective approach to collect institutional benchmarks and actionable data
- 3. Disseminate** the infrastructure, catalyze research-on-research and transform evaluation by empowering the participant voice

www.Rockefeller.edu/research/epv

Study Timeline

Milestones	Year 1		Year 2		Year 3		Year 4	
	Sept	Mar	Sept	Mar	Sept	Mar	Sept	Mar
Convene RPPS/REDCap Stakeholder Collaborative								
Develop Charter								
Develop RPPS/REDCap v1 Measures Consensus								
RPPS/REDCap v1 Implementation								
Dashboard External Module v1								
Implementation Framework (Standards) v1								
Use cases, Evaluation metrics, tools								
Collaborating site surveys underway								
Site implementation metadata								
Investigator-level metadata								
Refine: RPPS/REDCap/Dashboard v2								
Refine: Analytics External Modules v2								
Dissemination/evaluation to REDCap network								
Analysis of impact/local use cases								
Refinement of value proposition								
Dissemination								

Program Development;
 Milestones Aim 1;
 Milestones Aim 2;
 Milestones Aim 3

Engaging stakeholders

- Institutional Leadership
- IRB/Privacy Officer
- Investigators
- Clinical Research Managers
- Research Coordinators/Research Nurses
- Community members/liaisons
- Patient/Participants
- Sponsor/NIH
- Other Consortium hubs
- Understand expectations, concerns
- Refine the value proposition
- Define the questions
- Input on implementation
- Reach hard-to-reach populations
- Plan how to share & analyze results, design interventions, measure impact, returning results to the community
- Foster trust, participation, impact

Standards, Data, Metadata

Survey Response Data

- Participant-provided, de-identified, RPPS-Short response data
- Demographics

Project Level Metadata - Survey project characteristics

- Timing (end of study, post-consent, other)
- Sampling approach (census, random, targeted, bias)

Study Level Metadata - Study characteristics

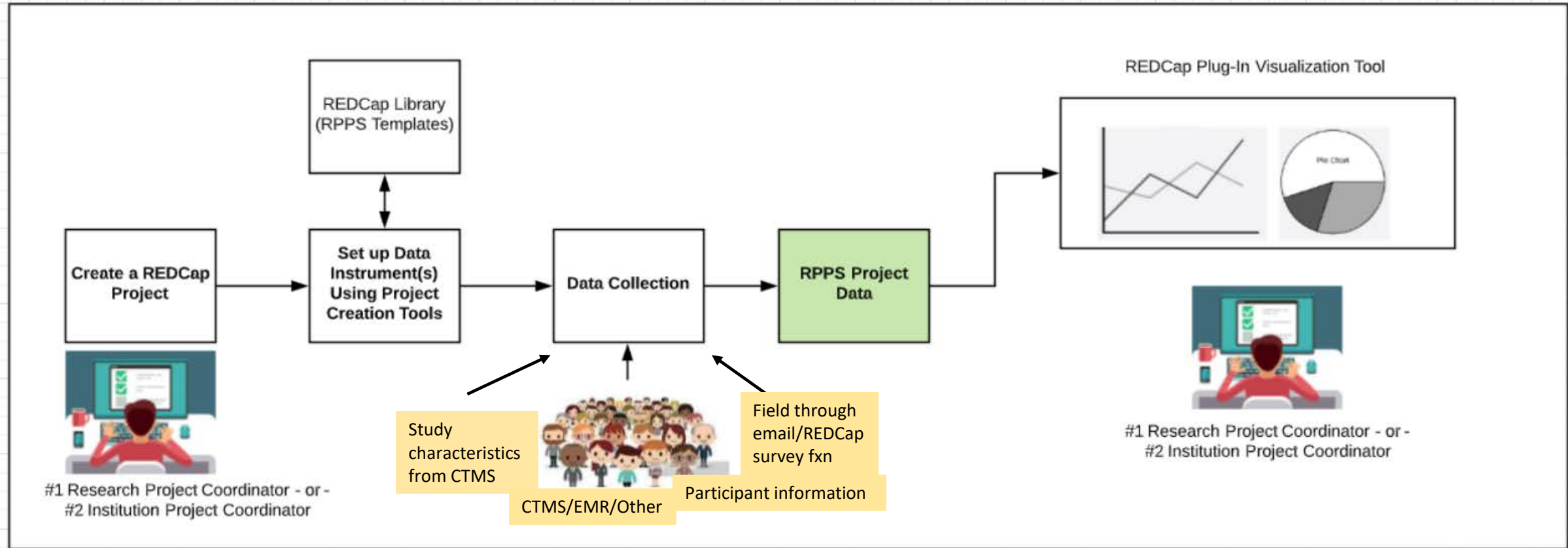
- Interventional /observational
- Domain (disease, trial design)- MeSH*
- Compensation yes/no
- Investigator, Coordinator
- Department, Unit

Evaluation Metadata

- Measures of ease of implementation and impact

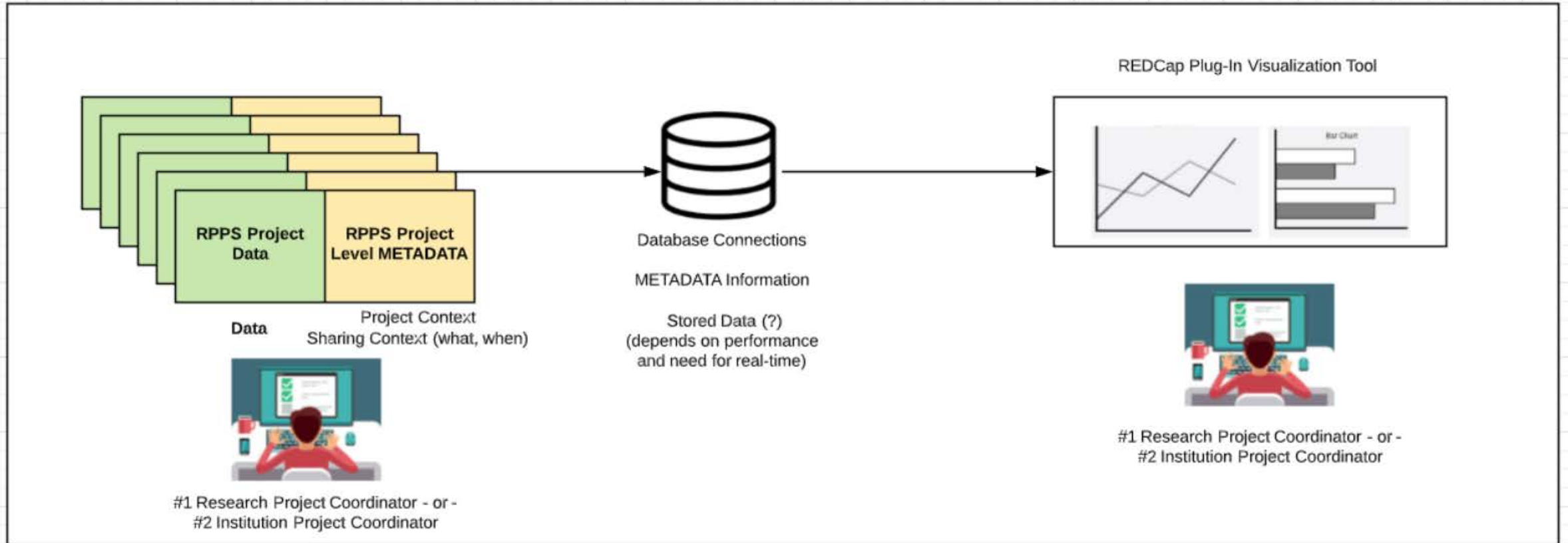
Data flow model: Use Cases 1 & 2

USE CASE #1 (Project Collection) + USE CASE #2 (Institutional Benchmarking) --- Single Capture



Data Flow Model: Use Cases 3 & 4

USE CASE #3 (Multiple Research Projects, Unit Level, Temporal Benchmarking) --- Intrainstitution Aggregation



Study Timeline

Milestones	Year 1		Year 2		Year 3		Year 4	
	Sept	Mar	Sept	Mar	Sept	Mar	Sept	Mar
✓ Convene RPPS/REDCap Stakeholder Collaborative								
✓ Develop Charter								
✓ Develop RPPS/REDCap v1 Measures Consensus								
✓ RPPS/REDCap v1 Implementation								
✓ Dashboard External Module v1								
✓ Implementation Framework (Standards) v1								
✓ Use cases, Evaluation metrics, tools								
Collaborating site surveys underway								
Site implementation metadata								
Investigator-level metadata								
Refine: RPPS/REDCap/Dashboard v2								
Refine: Analytics External Modules v2								
Dissemination/evaluation to REDCap network								
Analysis of impact/local use cases								
Refinement of value proposition								
Dissemination								

Program Development;
 Milestones Aim 1;
 Milestones Aim 2;
 Milestones Aim 3

EPV At-a-Glance Dashboard



At-A-Glance Dashboard - Empowering the Participant Voice

Participant perception

Race

Load Table

	TOTAL	Asian	American Indian or Alaska Native	Black or African American	Native Hawaiian or other Pacific I	White	NO RACE REPORTED	MULTIPLE
% Best score								
Would you recommend joining a research study to your family and friends?	71	56	56	62	50	74	64	55
Did the Informed consent form prepare you for what to expect during the study?	67	67	44	57	50	72	52	64
Did the information and discussions you had before participating in the research study prepare you for your experience in the study?	57	56	56	52	50	60	47	64
Did the research team members listen carefully to you?	80	88	78	76	100	83	54	73
Did the research team members treat you with courtesy and respect?	80	88	78	76	100	83	54	73
During your discussion about the study, did you feel pressure from the research staff to join the study?	87	100	78	95	100	86	89	91
Did the research staff do everything possible to provide assistance with any language difference you might have?	-	-	-	-	-	-	-	-
When you were not at the research site did you know how to reach the research team if you had a question?	72	44	78	67	0	75	68	82
When you were not at the research site and you needed to reach a member of the research team, were you able to reach him/her as soon as you wanted?	45	50	40	31	0	50	9	33
Did you feel you were a valued partner in the research process?	61	56	44	52	50	64	45	45
If you considered leaving the study, did you feel pressure from the Research Team to stay?	80	100	100	92	0	79	35	100
Did the research staff respect your cultural background (e.g. language, religion, ethnic group)?	-	-	-	-	-	-	-	-
Did you have enough physical privacy while you were in the study?	-	-	-	-	-	-	-	-
Please use the scale below to rate your overall experience in the research study, where 0 is the worst possible experience, and 10 is the best possible experience.	59	56	33	52	50	60	55	27

Plans, Progress, What's next

- Alignment with institutional priorities and initiatives
- Priorities in Implementation
- Approach to analysis and using the results

1. RPPS Integration into Institutional Goals

- Demonstrating our commitment to participant-centeredness in research;
- As a mechanism for action to ensure alignment with participant expectations; and
- Longitudinal measurement of success and evolving needs

2. Priorities

1. Central Approach – reach as many research participants as possible
2. Use tiered contact methods (EMR Portal; Text Messaging; Mail)

3. Acting on RPPS findings

- Drill down to identify opportunities
- Stakeholder committee; Research Community; and Leadership – meaningful solutions and reporting back

- *How will RPPS be integrated into your Institutional initiative as a tool to measure progress toward institutional goals?*
 - Research Without Walls (Moving research out into the community)
 - RPPS - major evaluation component – assess/improve overall research infrastructure and the clinical research experience with greater use of new technologies and more remote operations
 - Increasing recruitment and retention into clinical research
 - Provide valuable data for Recruitment Innovation Unit and Office of Clinical Research
 - Strengthen engagement key stakeholders (especially community) to advise on paths forward to improve our processes

- *Top priorities in Site Implementation*
 - Build into existing organizational structure (sustainability beyond funding period)
 - Increase survey response rates by research subjects (testing different strategies, i. e. Incentives)
- *Approach to acting on RPPR findings*
 - Systematically obtain feedback from our stakeholder groups on interpretation of findings and recommendations for modifications to survey methods
 - Conduct focus groups to brainstorm solutions/recommendations for changes to research processes

Johns Hopkins has been conducting the Research Participant survey for almost 4 years on an institutional level . We randomly select a group of 500 participants who have signed consent to participate in a clinical trial in the last 6 months and send the survey by email.

Initially, we will continue to follow this plan to implement the EPV at JH so we may draw comparisons of the EPV implementation vs the local RPPS implementation.

Top 1-3 priorities in site Implementation at JH

- As little disruption to current surveying as possible
- Assure continued anonymity of participant responses
- Continued communication of findings to all partners



JH will continue current approach to communicate findings with institutional officials, local site personnel and community partners via web posting of results, direct communication with institutional officers and HRRP leaders and dissemination via internal training and meeting opportunities. We also want to focus on racial ethnic disparities in results.

For example: From participant feedback in the past (from open response section) we have contracted with Greenphire to improve participant payments.

Duke CTSI

Integration at our institution

- Multiple CRUs, some large, some small – lots of QI initiatives ongoing; need to socialize to raise interest and ensure buy-in
- Use-case #s 1 and 2: ID individual study teams willing to volunteer for the pilot as we continue to socialize the program across both the research enterprise and leadership.
- Demonstrate the **benefit** and **value** of surveying on a study-by-study basis and sharing the data on an institutional dashboard
 - Consider Use-Case #3 and central deployment of the survey across multiple studies

Duke CTSI

Priorities in Implementation

- Ensure diversity of research teams and types using program
 - Non-traditional, community-based, one-touch studies
 - RCTs, Observational, University-based (non-clinical)
- Reach traditionally hard to engage populations with multiple survey delivery methods
- Continually engage with our stakeholders to ensure we are using appropriate and effective methods & socializing across the enterprise

Approach to acting on RPPS findings

- Identify 5-7 study teams willing to volunteer for pilot
- Years 3-4: Analyze collected data, define metrics for CRU scorecards, generate hypotheses and interventions to improve scores and/or processes
- Year 4: add metrics to monthly CRU scorecards

The Rockefeller University

Center for Clinical and Translational Science



Integration at our Institution

- Rockefeller has been fielding the RPPS for more than 10 years
- Aligns with aim to use participant experience data to inform initiatives

Priorities in Implementation

- To reach every participant
- Improve response rates
- Work with stakeholders to integrate CE and RPPS efforts

Approach to Acting on RPPS Findings

- To identify opportunities and develop action plans with stakeholders
- To generate hypotheses and test the impact of specific innovations

- How will the tools be disseminated beyond the EPV collaborators?

Project Website www.Rockefeller.edu/research/epv/

- Links to the RPPS surveys in the REDCap Library for download
- Links to publications about RPPS
- In the future, links to External Modules for download
- Articles about how the tools are being used by Collaborating sites
- [SIGN UP](#) to receive periodic EPV project updates

Future: Aim 3 – Broad sharing, Learning Collaborative, Benchmarking

How might we insert EPV/REDCap tools into a TIN Trial to test an innovation?

- To evaluate the impact of initiatives on participants' experiences
- To Compare approaches
- To Compare impact of an innovation across populations, sites, studies
- Compare +/- or pre/post innovation in the same study/population

Q & A

