

FULL-LENGTH ARTICLES

Participatory Research Methods – Choice Points in the Research Process

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Participatory research (PR) encompasses research designs, methods, and frameworks that use systematic inquiry in direct collaboration with those affected by an issue being studied for the purpose of action or change. PR engages those who are not necessarily trained in research but belong to or represent the interests of the people who are the focus of the research. Researchers utilizing a PR approach often choose research methods and tools that can be conducted in a participatory, democratic manner that values genuine and meaningful participation in the research process. This article serves as an introduction to participatory research methods, including an overview of participatory research, terminology across disciplines, elements that make a research method participatory, and a model detailing the choice points that require decisions about which tools and methods will produce the desired level of participation at each stage of the research process. Intentional choices of participatory research methods, tools, and processes can help researchers to more meaningfully engage stakeholders and communities in research, which in turn has the potential to create relevant, meaningful research findings translated to action.

PARTICIPATORY RESEARCH

Participatory Research (PR) is a research-to-action approach that emphasizes direct engagement of local priorities and perspectives (Cornwall & Jewkes, 1995). PR can be defined as an umbrella term for research designs, methods, and frameworks that use systematic inquiry in direct collaboration with those affected by the issue being studied for the purpose of action or change (Cargo & Mercer, 2008). PR prioritizes co-constructing research through partnerships between researchers and stakeholders, community members, or others with insider knowledge and lived expertise (Jagosh et al., 2012). Simply put, PR engages those who are not necessarily trained in research but belong to or represent the interests of the people who are the focus of the research. Instead of the “subjects” of traditional research, PR collaborates with stakeholders, community, constituents, and end-users in the research process.

By sharing leadership in research, PR “contributes *directly* to the flourishing of human persons, their communities, and the ecosystems of which they are part” (Reason & Torbert, 2001, p. 6). PR has a multitude of benefits including research that is informed by and relevant to real-world contexts, results that can be more effectively translated into community and non-academic settings, and research quality and rigor that is improved by the “integration of researchers’ theoretical and methodological expertise with nonacademic participants’ real-world knowledge and experiences into a mutually reinforcing partnership”

(Balazs & Morello-Frosch, 2013; Bush et al., 2017; Cargo & Mercer, 2008, p. 327; International Collaboration for Participatory Health Research (ICPHR), 2013; Warren et al., 2018). Increasingly, PR is used and valued across disciplines as a way to solve complex problems; however, the nomenclature of the specific PR approaches varies widely. As can be seen in [Table 1](#), the breadth of terms describing the PR orientation is vast, but they share in common a value in doing research *with* those who are typically the subjects of research, rather than *on* them (Reason & Torbert, 2001). Table 1 is not intended to be an exhaustive list of the frameworks, approaches, and orientations that utilize PR, but it demonstrates that there are researchers within almost every discipline that view research as a collaborative inquiry process with research goals that go beyond knowledge generation and into real-world impact.

Over the last decade, researchers across disciplines have increasingly engaged all types of stakeholders, including consumers, end-users, patients, youth, and individuals from marginalized communities to have active roles in the research process, sharing decision-making to ensure research is relevant and translational in their lives (Vaughn et al., 2018). The way that these stakeholders are engaged is not conceptualized as a dichotomous distinction, but rather as a continuum ranging from academic-driven research to equitable shared decision making between academic and community partners. For example, a report from the National Institutes of Health describes community-engaged health research as a continuum with increasing involvement, impact, trust, and communication flow that ranges from *outreach* (i.e., researchers provide communities with information) to *shared leadership* (i.e., strong bidirectional partnership where final decision making is at the community level) (CTSA Community Engagement Key Function Committee Task Force on the Principles of Community Engagement, 2011). Key and colleagues (2019) describe research engagement as ranging from community informed to community driven. Similarly, from the field of civic engagement, the Spectrum of Public Participation describes a continuum of engagement ranging from *inform*, in which information is provided to the public to help communities understand a complex topic, to *empower*, in which decisions made by stakeholders are implemented into practice (International Association of Public Participation (IAP2), 2018). The terms and definitions differ in these three frameworks, but the implications for PR are the same: the choice of participation level is closely tied to the impact research will have in real world settings.

RESEARCH METHODS

A research method is typically thought of as a means of data collection or data generation. Conventionally, research methods are categorized as quantitative methods (i.e., surveys, questionnaires), qualitative methods (i.e., interviews, focus groups), or some combination of the two in mixed methods research. Research methods vary considerably and can include written, visual, verbal, observational, arts-based, and active strategies. Within PR, the process of

Table 1: Participatory Research Frameworks, Orientations, and Approaches

Framework/ Approach	Definition	Types/Variations	Key Sources
Action Anthropology	A process of social science research that combines inquiry with practical solutions of day-to-day problems of a particular group or community.	applied action anthropology; collective action anthropology	Bennett (1996); Stull (2019); Tax (1975)
Action Inquiry	An approach to learning and inquiry that combines research and practice for the purpose of transformational change; often applied to leadership practices.	cooperative inquiry; dialectical inquiry	Barnes-Najor (2019); Torbert (2004)
Action Learning	A problem-solving approach that uses a process of action and reflection. Commonly used in businesses and non-profits and in governmental and educational settings.	action reflection learning; critical action learning; unlearning	McGill & Brockbank (2003); Revans (2011); Zuber-Skerritt, Wood, & Kearney (2020)
Action Research (AR)	Represents a broad family of research approaches that emphasize social change and transformation, active collaboration through participation between researcher and members of the system, and iterative cycles of action and reflection to address practical concerns.	arts-based AR; critical AR; feminist AR; first person AR; systematic AR	Bradbury (2015); Chandler & Torbert (2003); Lewin (1946); Reason & Torbert (2001)
Action Science	An intervention approach used within organization development to improve behavioral processes and organizational effectiveness, encourage learning, and create interpersonal, group, intergroup, or organization-wide change.	organization development	Argyris, Putnam, & Smith (1985); Argyris (1995); Friedman, Razer, & Sykes (2004).
Appreciative Inquiry (AI)	An asset-based approach based in the positive potential of individuals, communities, and organizations that directly engages stakeholders in positive social change around what is already working rather than solving problems.	appreciative systems	Cooperrider, Whitney, Stavros, & Stavros (2008); Reed (2007); Watkins, Mohr, & Kelly (2011)
Asset-Based Community Development (ABCD)	An approach to sustainable community-driven development that posits communities can drive the development process themselves by identifying and mobilizing existing, but often unrecognized assets.	citizen-led development	Mathie & Cunningham (2003); Kretzmann & McKnight (1996)
Citizen Science	Research that is conducted at least in some degree by members of the public; popularized in environmental science	public participation in science; crowd-sourced science; civic science	Bonney, et al (2009); Dickinson, et al (2012); Shirk, et al (2012)
Collaborative Change Research, Evaluation, & Design (CCRED)	Collective term referring to participatory approaches utilized by researchers, evaluators and designers who bridge research and practice for positive social change	collaborative change research	Busch, Jean-Baptiste, Person, & Vaughn (2019)
Community-Based Participatory Research (CBPR)	An orientation to research often focused on health-related issues that equitably involves all partners, including researchers and community members, in all phases of the research process, from study design to dissemination.	community capacity; participatory health research; community-based participatory action research	Israel, Eng, Schulz, & Parker (2013); Wallerstein, Duran, Oetzel, & Minkler (2018); Wallerstein & Duran (2006)
Community-Engaged Research (CEnR)	Represents a broad array of research approaches that emphasize academic-community partnerships focused on issues that affect the well-being of the community of focus.	community engagement in research	Ahmed & Palermo (2010); CTSA (2011); Key et al (2019)
Community Science	Research that is focused on building strong communities through partnered prevention, treatment, education, and health promotion efforts. Often used within community psychology.		Chinman, et al (2005); Luke (2005); Wandersman (2003)
Decolonizing Methodologies	Research methods that question the assumptions of power in the research process, in research relationships, and in ways of knowing. Approaches that challenge traditional Western methods that undermine lived experiences of	indigenous research methodologies	Chilisa (2019); Smith (2013)

Framework/ Approach	Definition	Types/Variations	Key Sources
	marginalized groups.		
Educational Action Research	Represents a broad range of action research conducted in educational and school settings.	teacher action research	Kinsler, K. (2010); Mertler (2019); Somekh (2009)
Emancipatory Research	Research that shifts power and control from researchers to those who would be the research subjects. Often used in the context of disability research.	emancipatory action research	Oliver (1997); Walmsley, J. (2001)
Health Impact Assessment (HIA)	A structured method to understand health consequences of projects and policies that takes into account those who might be impacted by a proposed policy.	community health needs assessment	Brigg (2008); Lock (2000)
Participatory Action Research (PAR)	Combines participation and action to understand and address societal issues. Emphasizes democratic processes in participation <i>with</i> others rather than research for research's sake conducted <i>on</i> people/communities.	participatory research; youth participatory action research	Baum, MacDougall, & Smith (2006); Cammarota & Fine (2010); Chevalier & Buckles (2019); Ozer (2017)
Participatory Evaluation	An approach that shares decision-making with stakeholders in the evaluation of a program or service in some point of the process.	empowerment evaluation; participatory or democratic evaluation	Cousins & Whitmore (1998); Greene (2006); Whitmore (1998)
Participatory Health Research (PHR)	A research paradigm that most centrally values participation from stakeholders in the research process in specific ways to improve the quality and relevance of the research.	community-based participatory research	ICPHR (2013); Ramsden, McKay, & Crowe (2010); Wright & Kongats (2018)
Participatory Rural Appraisal	An approach to community development in which rural people share decision-making in the programs and policies that affect them. Often used by non-governmental organizations.	rapid rural appraisal	Chambers (1994); Mukherjee (1997); Mosse (1994)
Patient-Centered Outcomes Research	Research investigating the outcomes that are important to patients, with the rationale that clinical research is higher quality when it is informed by perspectives of the end users. Often used in healthcare research.	patient-centered research	Frank, Basch, & Selby (2014); Gabriel (2012); Selby, Beal & Frank (2012)
Popular Education	A people-oriented, people-guided approach to education pioneered by Paulo Freire that centers people's life experiences and sees all participants as both teacher and learner.	popular adult education; critical education	Freire (2018); Giroux et al (1999); Torres (1992)
Popular Epidemiology	A research process in which lay people gather data and work with experts to understand the epidemiology of disease and develop treatments.	environmental justice research	Brown (1992)
Practitioner Inquiry	A reflective approach to professional development for practitioners that involves asking research questions, collecting data, evaluating inquiries, and taking action.	practitioner action research, critical practitioner inquiry; teacher action research	Anderson, Herr, & Nihlen (2007); Cochran-Smith & Lytle (2015); Coughlan (2014)
Pragmatic Action Research	A cyclical progression of action research and collaborative evaluation designed to enhance co-generative learning among the participants with the end goal of solving problems.	co-generative research	Greenwood (2014); Greenwood (2007)
Team Science	Collaborative, cross-disciplinary approaches to complex social problems that have many causes (e.g., climate change, chronic disease).	interdisciplinary team science	National Research Council (2015); Stokols, Hall, Taylor, & Moser (2008)
User-Centered Design Research	An iterative design process that involves users in the design of products or services that are intended for them.	design thinking; PostDesign; participatory design research; human-centered design	Mao, Vredenburg, Smith & Carey (2005); Sanders (2002)

engaging people in each step of the research process includes tools, tasks, and structured activities that are used to facilitate participation, shared decision-making and mutual learning. Thus, we define research methods broadly to include those concrete tools, techniques and processes used throughout the entire research process not just at the point of data collection. For instance, a particular method could be developed or adapted for use when forming a research partnership or to co-design research questions. Furthermore, research methods can include the processes and techniques for data collection, data analysis and interpretation, dissemination, and enacting change.

PARTICIPATORY RESEARCH METHODS

In contrast to more traditional research design strategies, researchers utilizing a PR approach often choose research methods and tools that can be conducted in a participatory, democratic manner. The foundational premise of participatory research methods is the value placed on genuine and meaningful participation – methods that offer “the ability to speak up, to participate, to experience oneself and be experienced as a person with the right to express yourself and to have the expression valued by others” (Abma et al., 2019, p. 127). The ways in which stakeholders participate will vary at each step of the research process, and there are infinite options as to how to share decision making in each research task. [Figure 1](#) depicts “choice points” – the intersection between participation and steps in the research cycle. During each and all phases of research, decisions must be made about which tools and methods will produce the desired level of participation. First, stakeholders must identify their needs and goals of the research process. Second, researchers must identify the fundamental needs of research to provide the desired evidence, outcome, or impact. Ideally, academic-community partnerships will work together to make choices that will best meet the needs of both the research and those involved in the research. These choices might lead to highly participatory strategies for some steps in the research process, and more researcher-driven strategies at others. For example, an academic-community partnership focused on environmental justice might use a citizen science approach to collect soil samples, interpret results in the context of local environments, and disseminate results back into the community. In contrast, the partnership might decide that researchers have the equipment, skills, and tools to analyze the soil samples so the data analysis stage will be conducted by the researchers. Figure 1 emphasizes a foundational principle of participatory research methods – there is no prescription for the “right” way to do PR; instead, research partners must collaborate to prioritize what’s most important and choose methods that best represent stakeholder interests and maximize the potential for real-world impact.

Two important considerations should be made when conceptualizing choice points in participatory research design, or instances where choices about level of participation must be made. *First, research tools and methods can vary in the degree of participation.* The “inform” level of participation is usually associated

Participation Choice Points in the Research Process

At each step in the research process, there is a choice about the degree of participation. The choice guides the selection of research methods and tools.

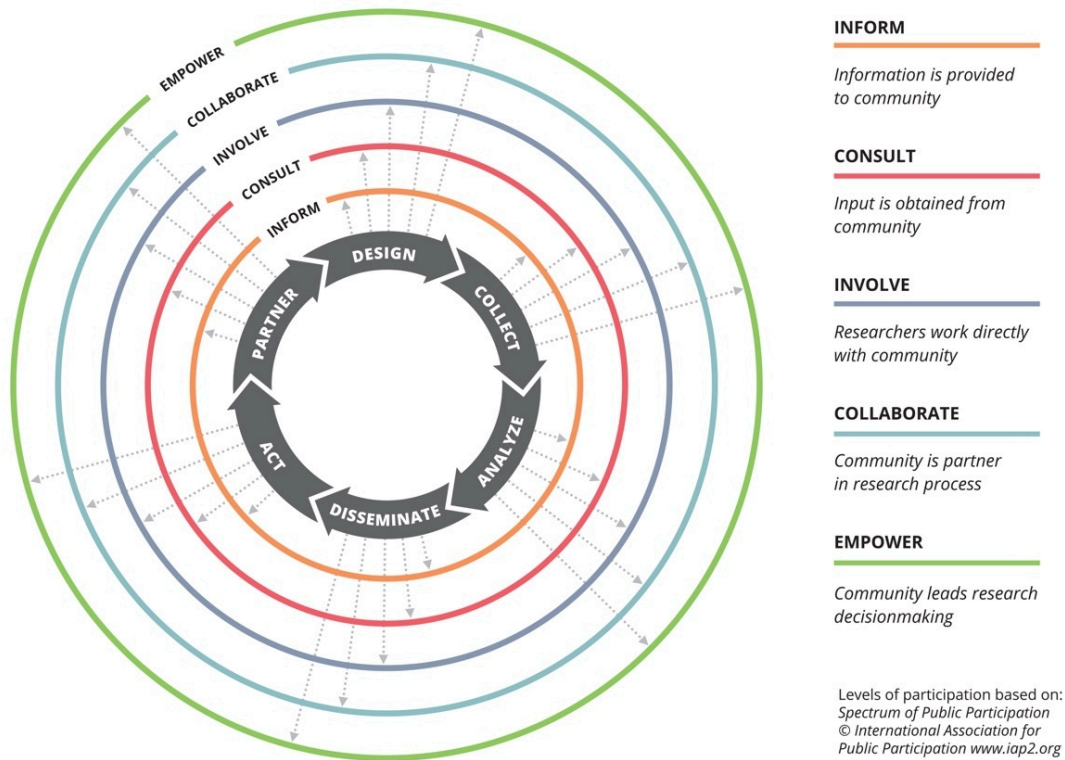


Figure 1. Participation choice points in the research process.

with traditional research outreach, but could be more participatory if stakeholders ask to be informed about a particular topic. Traditional focus groups often function at the “consult” level of participation described in the Figure 1, with stakeholders providing feedback that researchers consider when making their research decisions. Community Advisory Boards tend to operate on the “involve” level, with community members providing feedback throughout the research process. At the “collaborate” and “empower” levels of participation, a decision to work with non-academic co-researchers would indicate a choice of research methods, tools and processes that prioritize shared decision making and co-leadership in their very structure. For example, a project that partners directly with residents of a neighborhood and trains them to be co-researchers in a project that benefits the local community could exemplify the “collaborate” level. If these residents truly led the decision making throughout the research process, this project would be functioning

at the “empower” level. Notably, the potential for immediate and sustainable impact and social change are thought to rise with increasing stakeholder participation in the research process (CTSA 2011; IAP2 2018).

Second, although there are many methods and tools that are participatory by design, more conventional research methods used in quantitative and qualitative research like surveys and focus groups are not off the table. Rather, they can be adapted and re-thought so they are approached in a participatory way. For instance, focus groups can be co-designed, co-facilitated, and collaboratively analyzed by community co-investigators (see for example, Johnson & Martínez Guzmán, 2013; McElfish et al., 2016). Other research partnerships have collaboratively developed and administered surveys as part of a community needs assessment (e.g., Goodman et al., 2014) or worked with community co-researchers to develop questions and conduct qualitative interviews (Watson & Marciano, 2015). The distinguishing feature of participatory research is stakeholder power in decision making and implementation; therefore, any research method or tool can be participatory if chosen and/or utilized collaboratively between academic and community partners.

Collaborative researchers have many points throughout the research process that require choices about which method will provide the desired results, in terms of both research evidence and community impact. The participatory research literature provides rich and diverse examples to help guide partnerships through these choice points. [Figure 2](#) contains examples of participatory research methods and tools that have been used at various steps in the research process. Researchers new to participatory research might use this figure to identify examples of the type of participatory tools that can be used for various research tasks. For example, if a partnership is looking for concrete strategies to involve community members in analyzing data, they might look to Jackson’s (2008) work with marginalized women to analyze qualitative data, Main and colleagues (2012) data collection, analysis, and dissemination of health data in urban Denver neighborhoods, or Cashman and colleagues (2008) overview of four public health case studies that involved stakeholders in data analysis and interpretation. Although the results of participatory research are prolific in the literature, it can be difficult to isolate concrete descriptions of how the research was collaboratively conducted. We offer these examples as a starting point to inspire future use of participatory research methods and tools.

CONCLUSION

The focus on participatory research methods is necessary to truly actualize the dual goals of PR: knowledge production and real-world action conducted in a democratic, collaborative manner. A deliberate choice of participatory research methods can help researchers more deeply engage stakeholders and communities at each step of the research process. Such engagement allows research to benefit from the collective wisdom of both researchers and communities which in turn creates more meaningful findings translated to

Example participatory research methods/tools for each step in the research process

Steps in the Research Process	Example Participatory Research Methods/Tools
<p><u>PARTNER</u></p> <ul style="list-style-type: none"> • Develop a research partnership • Build relationships • Evaluate and sustain partnership 	<p>Warm calling (Lapierre et al., 2018) Stone soup (Ndulue et al., 2012) Boundary crossers/co-researchers (Kilpatrick et al., 2009) Community advisory boards (Newman et al., 2011) Synergy model (Brush, Baiardi, & Lapidés, 2011)</p>
<p><u>DESIGN</u></p> <ul style="list-style-type: none"> • Develop research questions • Plan research design 	<p>Action learning sets (Munns et al., 2017) Storytelling group (Kankainen et al., 2012)</p>
<p><u>COLLECT</u></p> <ul style="list-style-type: none"> • Assessment of community needs, resources, and priorities • Data collection • Idea generation 	<p>Community risk assessment (Van Aalst, Cannon, & Burton, 2008) Group Level Assessment (Vaughn et al., 2011) Concept mapping methodology (Vaughn et al., 2016) Arts-based, co-created fotonovelas (Hidalgo, 2015) Narrative workshops (Lykes & Crosby, 2014)</p>
<p><u>ANALYZE</u></p> <ul style="list-style-type: none"> • Data analysis • Data interpretation 	<p>Participatory group process for data analysis (Jackson, 2008) Community-based participatory data system (Main et al., 2012) Participatory data analysis and interpretation (Cashman et al., 2008)</p>
<p><u>DISSEMINATE</u></p> <ul style="list-style-type: none"> • Telling and showing • Dissemination 	<p>Decision guide (Van Eerd et al., 2016) Collaborative GIS tool (Driedger et al., 2007) Ethnodrama (Taylor et al., 2017)</p>
<p><u>ACT</u></p> <ul style="list-style-type: none"> • Enacting change • Sharing impact of project • Policy-level outcomes 	<p>Urban community action planning (Ross & Coleman, 2000) Participatory forecasting (Gudowsky et al., 2012) Participatory monitoring and evaluation (Holte-McKenzie, Forde & Theobald, 2006) Framework to Assess the Impact from Translational health research (FAIT; Searles et al., 2016)</p>

Figure 2. Example participatory research methods for each step in the research process.

action. Researchers across many disciplines have a long history of working with non-academic stakeholders in PR, but the nuts-and-bolts description of *how* to do this work is often minimal to non-existent. Explicit description of the participatory research methods, tools, and processes along with documentation of the challenges and facilitators to implementation will strengthen PR and broaden its impact.



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