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# ATION OF MIXED METHOD! RANSFORMATIVE PURPOSES

utun nna M. Mertens, Katrina Sullivan, and Amy Wilson . Bledsoe,

#### Objectives

Specific objectives for this chapter are to

- describe the events based on history, changes in and passage of multilateral human rights declarations that contribute to the rationale for the transformative paradigm; ethical codes,
- discuss the underlying philosophical belief systems of the transformative paradigm and their implications for ods approaches to research; use of mixed meth-
- explain how a transformative perspective can stand and account for culture, power, and social justice in conducting research with diverse populations; be used to under-
- understand how the use of mixed methods mative paradigm can be used to provide a better understanding of the context in which communities and individuals reside; within the transfor-
- that reflect the use of a transformative paradigm; analyze examples of mixed methods studies to determine facets and
- identify challenges encountered in mixed methods research. conducting transformative

sufficient? deaf, for racial or ethnic the ultimate dynamics involved in this complex and challenging scenario? What is the notential enhancement. acteristics enhancement of understanding if a transformative lens is used to frame the study with and social justice as the consideration of culture, power, diversity, diversity with that program of What focuses on the number and charof additional goal teachers the SI. would of teaching minority designed central improv recruited and trained disabilities, ing achievement concerns? methods

questions about the use of ine inclusive education for people with disability, ical framework for addressing such issues in the and poverty teacher these aforementioned topics by illuminating held beliefs that stigmatize experiences and resilience. communities and brings ormative variety In underlying assumptions from the transmixed paradigm this preparation, chapter, paradigm that of methods reduction as research an we overar research In obesity focus to their lived disrupt commonly members of these the transformaeach such

The transformative paradigm builds on the seminal work of Guba and Lincoln

mental belief systems that define a research paradigm: axiological beliefs about the nature of ethics; ontological beliefs about the beliefs about the nature of reality; epistemological beliefs about the nature of knowledge and the relationship between the knower and ing of how paradigms func-research world by identifying and Lincoln contributed to the belief systems that which would be known; and meth ological beliefs about the approprimethods for systematic investigation implications for mixed methods research.

Box 8.1 displays communication

by Manager M belief systems to explain of the transformative para yield warrantable assertions. transformative paradigm fits into by Mertens and her graduate students with paradigm is offered as an integrated set of beliefs that is at the same level as the post-Hesse-Biber, 2010 [th ability rights theories. onomy of paradigms that appears and Lincoln (2005). The transf Lincoln and Denzin; and other theories such positivist and constructivist paradigms and SI in the commensurate research that constitute major worldit illustrates how explicated with critical community. n as feminist (see volume]) and disfunction in transformative the meaning We and methodknower and appropriate understandfour the use the in Guba fundatheory Guba basic these the

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### Paradigms and Theories

For the interested reader, Guba and Lincoln provide detailed analyses of these belief systems for several paradigms: positivism, postpositivism, constructivism, critical theory et al., and participatory. My students and I were perplexed as to why critical theory et al. would be included at the level of paradigm when it is a theory. Hence, we wrote and asked Lincoln and Denzin about this. In personal communication (March 19, 2006), they acknowledged that critical theory et al. is not at the same level as a paradigm. They wrote:

First, with respect to the paradigm-theory distinction: For us, a paradigm is a meta-physics, an integrated philosophical statement which encompasses positions on ontology (what we believe the nature of reality to be), epistemology (what we believe can be known about that reality, how the reality "works," and the best ways for coming-to-know),

axiology the ends might take). Paradigms are the overarching cosmological statements to which We believe the ends of inquiries might provide to us by way of knowledge, and what form which we em paradigm), paradigm, for instance). subscribe (the the law (a judicial paradigm), or simple social description when we engage in research, although there might be ploy or deploy in other realms of our lives, such as faith (a theological of values, aesthetics within any inquiry), and teleology other paradigms (a demographic (what We

us some model or format for thinking about a phenomenon. A theory might have space!) is that theories and paradigms are commensurate; that is, the onance, such that theories are nested within and under paradigms not contain theories which violate the paradigms' cosmological ass one such statement, or many connected statements, but theories describe some aspect of "reality." The reason for collapsing paradigms and theories (besides saving theory. Thus ries belong i theories do Theories why we have joined them. are not grow from cosmological assumptions which c they are related, as "parent" and "child"; that is, p n ontological and epistemological and axiological " statements, usually integrated statements, within paradigms that give cosmological assumptions, and , paradigms and do "families. not support they exhibit res-Paradigms So that is theothe

## Transformative Paradigm

feminists; people postcolonial peop transsexual, and conho have paradigms and limitations in th partially explicit edge basis 2009). transformative paradigm lead to considerthese of marginalized communities expressed dissatisfaction with the dominant research cates for social justice (see Creswe [this volume]; Hesse-Biber, 2010). tion and oppression, as members of self and community that form a for methodological decisions (Mertens, philosophical paradigms The transformative paradigm arose recogniti approaches to because in the peoples; of tion of values practices the lesbian, gay, bisexual, e experienced discrimina-ion, as well as other advo-ustice (see Creswell, 2010 researchers on of values and knowl-community that form a queer communities; that were articulated by of color; indigenous and research associated with assumptions of people with disabiland and members because

Of the four belief systems identified by Guba and Lincoln (2005), the axiological assumption takes precedence and serves as

paradigm's axiological assurthe recognition of power of thical implications that desertion systems because the a basis for articulating the other three paradigm's digm emerged from the need to lexplicit about how researchers can oppression, misrepresentation, and being made to feel and be invisible (marginalized). As (Mertens, Holmes, Brooks (2006) notes, of social justice. Holmes, & Harris, transformative assumption rests on wer differences and of The transformative derive discrimination, from those 2009). be address parabelief more

are commonly found throughout virtually all areas of health, education, income, imprisonment, and the like. Given the magnitude of the gaping racial Racism contributes mations, the question needs to be asked: Why is it those who implement societal programs seeking to reduce today's disparities both racial disparities generally potential contributor to such disparities? serious investiga tions within to local and internaof and fail to include racism between

People racism, yet as classism, able-ism, and others that are used crimination and oppression, such as sexism, the associated with a greater sions torical, or other factors. I paradigm offers a broad and acknowledging to dent who throughout history and to bring their voices into the world of research in order to bring formative enhance barriers to accessing privilege in society. Brooks dimensions of diversity that are related of access to privilege, basis of access life body have been pushed and of visibility are social justice. circumstances diversity paradigm emerged odor, born into circumstances that are (2006)to greater may there physical, economic, social, histo that , or being encompass are members of communities are limits the contextually such as homeless-g drunk. The trans-The transformative or lesser probabil-whether that is on scope with regard lesser lesser privilege, relevant dimen-ntextually depensocietal margins characteristics as a way homelessis on

mative paradigm on issues of the axiological assumption is ing the formation systems include need tive paradigm and development work understand the communities in which they processes that sustain researchers ms of this paradigm. The transforma-axiological assumption reflects the for ethical choices in research to oppression the m the and have a order realization central of the are to moral responsibility focus other defining belief pervasive and challenge that discrimination the is key transformative basis for the social justice, to framsocietal

those defined Principles of ethics (respect, beneficence, and justice) are defined in Colrespect is defined in terms of courtesy comes and minimizing harm, without explicit acknowledgement of the furtherance the informed consent process. Beneficence is autonomy Within that this m and terms guide legalistic is. defined in codes such as e ethical review boards. of operationalized maximizing good outethical framework, through

of social justice as a potential benefit for participants. Justice is defined in terms of ensuring that benefits of the research accrue to those who accept the risks involved in participating in the research, again without specific reference to the broader implications for social justice.

Researchers who situate their work in the transformative paradigm value these legalistic definitions of ethical principles; however, their transformative axiological assumption leads them to extend and reframe these principles. Thus, respect includes the critical examination of cultural norms of interaction in diverse communities and across cultural groups. Transformative beneficence is defined in terms of the promotion of human rights and improvement of social justice. An explicit connection is made between the process and outcomes of research and the furtherance of a social justice agenda.

of human rights. For example, the United Nations passed the International Convention on the Elimination of All Forms of Racial organizations and professional associations that share similar values in the promotion intertwining of interests formative Discrimination (1969), the Convention on the Elimination of All Forms of Discrimination against Women (1979), Convention on the Rights of the Child (1990), the International Convention of the Protection of the Rights Their Families (1990), the Declar the Rights of Indigenous Peoples, tive paradigm to be responsive to violations of human rights associated with relevant tions reinforces the need for the transforma-Convention on the Rights of Persons with Disabilities (2006). The list of UN declara-Their Families Researchers who work within mative paradigm find that the Migrant Workers and Members of Families (1990), the Declaration of rights associated with relevant with there is an multilateral Persons with the transand the Si

In addition, several professional organizations have revised their codes of ethics to reflect the need to be more culturally aware and responsive, including the American Psychological Association, American Educational Research Association, American

Sociological Association, American Anthropological Association, American Evaluation Association, the International Organization for Cooperation in Evaluation (IOCE), and the International Development Evaluation Association (IDEAS). The zeitgeist that surrounds revisions to professional associations' codes of ethics stands in testimony for the need for researchers to be more aware of the implications of the transfor-

The synergy between the professional associations and multilateral organizations on this topic of human rights is illustrated by the map for the future priorities for evaluation in an international context with an emphasis on human rights, developed by the UN International Children's Emergency Fund's (UNICEF), with the endorsement of IOCE and IDEAS:

Within a human rights approach, evaluation should focus on the most vulnerable populations to determine whether public policies are designed to ensure that all people enjoy their rights as citizens, whether disparities are eliminated and equity enhanced, and whether democratic approaches have been adopted that include everyone in decision-making processes that affect their interests. (Segone, 2006, p. 12)

This ethical impetus supports the need for a way of thinking about research that focuses on social justice and human rights as a starting point. The need for the transformative paradigm is also evidenced in the headlines of newspapers, scholarly literature, and the voices of those with unequal access to privileges. For example, the HIV/AIDS epidemic presents challenges around the world from Washington, D.C., to parts of Africa. Gang violence is a problem in many parts of the world and is often connected with the trafficking and use of illegal drugs. Indigenous peoples who still suffer from a legacy of oppressive colonialism are more often given prison sentences

instead of preventive social supports when they are found to be associated with such activities. Impaired people, subjected to the medical gaze, re-created as "the disabled," and labeled dangerous or deviant, are either incarcerated in institutions or excluded from the mainstream and generally subjected to regimes of cure, care, or observation.<sup>1</sup>

worthy addressing them. H is on human rights problems are elusive. researchers can raise questions that are directly relevant to the life experiences and contexts of those whose quality of life is most impacted by inequality, discrimination, and oppression. Chilisa (2005, 2009) has used a transformative lens to shape research in Botswana; Battiste (2000) offers ideas for Native American Indians; Cram ens is brought to such topics and the focus into working with the Maori people in New Zealand; Wilson (2005) introduced a (2009) and Smith ment researchers in the field of deafness and paradigm shift for disability; Bledsoe and Hopson (2009; Bledsoe, 2007) developed transformative research frameworks suggests ways of American communities; and Sullivan (2009) Scholars problems about owever, solutions to the and the working (2005) provide insights and social justice, then international for working in African If a these transformative difficulties creatively headlinedevelopshape and

individuals (Oliver, Physically Impaired ethically with people with disability.

Sullivan (2009) documented the paradigm shift that began in the early 1970s in the understanding of disability development of the social model in opposiability in social structures whereas the latter locates model of disability. The former locates disno longer a personal tragedy but a basis for social oppression. 1976). From this perspective, disability cause and cure of counts as disability research is no longer the to the hegemonic individual medical structures and attitudes disability in individuals, Against Segregation, 1990; Union of Furthermore, disability with the what

198

become a matter of human rights and social justice. Thus, the transformative paradigm the disabling society and fixed to a sociocultural basis for oppression. for research is viewed as being commensudisablism. In short, but the from a medical problem that needs to be rate with this shift in the model of disability uncovering and transformation of disability institutionalized research has

research conducted within the transforma-tive paradigm. Others include, but are not cal lens is one illustration of the theoretical that drug of using a feminist lens with research conducted within and Leavy (2007), and Stewart and Cole include Hollingsworth (2004), Hesse-Biber standpoint limited to, feminist theory, critical theory, frameworks that are critical race theory, and queer theory. Feminist researchers who link feminist school; Hollingsworth's Hispanic female immigrants; Tolman and tive paradigm: (2009) cite the following illustrative examples facing eviction (Hill, Dillane, Bannister, & older women. Sweetman et al. also identichildren; (2007). Sweetman, Badiee, and Creswell (Newman & Wyly, 2006), and couples with (Freeman, 2000), drug users (Kumar et al., 2000), people of low socioeconomic class fied transformative mixed that focused on people (Boland, Daly, & Staines, custody cases involving older women with Szalacha's (1999) study children; and Shapiro, Setterlund, and Cragg's (2003) study of policy related to Herrera's (2006) study advocating for poor The use of disability rights as a theoretiuse with regard to the experiences of 2002), feminist-based family therapy with mixed Cartwright, Schow, and commensurate with with mixed methods methods research of girls in high (2004) study of Setterlund, and methods studies the transforma-2008), families with disability

that constitute a unified worldview. Recall children (Nordenmark & Nyman, 2003).

The axiological assumption provides grounding for the other belief systems that the ontological assumption is used as a basis for answering the (ontology, epistemology, and methodology) question: what is

> ilege in determining what is accepted as real tivism and recognizes the influence of privontological assumption rejects cultural relarelative. What are relative are opinions about truth" (Nicolás Gómez Dávila, 2005). There are versions of truth that are structed and shaped by a variety of factors, including social, political, cultural, economic, ethnic, gender, disability, or other cultural lenses. However, "Truths are not and the consequences of accepting one verthe nature of reality? The transformative in negative terms and stereotypes by those with power (e.g., deaf people are immature and impulsive; "welfare moms" have 2010). Versions of reality are socially conprejudices, and biases) are interrogated through a transformative lens, they can be rejected as having no truth value. and impulsive; "welfare moms" have babies to get more money). When these versions of truth (often based on stereotypes, harmful for groups who are characterized of reality over another (Mertens, they can be

constructed realities as having equal legiti-macy. Damage is done when differences of perceptions of what is real are accepted, and when factors are ignored that give privtural, economic, ethnic, gender, and disability lenses in the construction of reality. In addition, the transformative ontological belief emphasizes that which seems "real" ilege to one version of reality over another, such as the influence of social, political, cul-The transformative paradigm recognizes the danger of accepting multiple socially may instead be reified structures that are taken to be real because of historical situations. Thus, what is taken to be real, needs to be critically examined via an ideological critique of its role in perpetuating oppres-, needs

standing of valid knowledge within a transformative context. Therefore, the nature of sive social structures and policies.

The transformative axiological and ontological assumptions lead to the epistethe relationship is characterized by mological assumption that the critical determinant in achieving between researchers and participants is a relationship an under close

> participants with specific attention given to issues of communication and power. Christians (2005) criticized the notion that collaboration get the facts right" a "morally neutral in that ethical ways of knowing must be surface cations nicity, race, natio other dimensions cognizant of power relations associated with gender, sexual orientation, class, ethnicity, race, nationality, disability, and inequities in power relations mative epistemological assumption in the transformative paradigm that "understanding the culture and building trust are deemed to be paramount" (Mertens, 2009, p. 57). from the from the axiological assumption in the epistemological assumption nationality, disability, inationality, diversity. between researchers and l, objective observer will (p. 148). Hence, implidisability, and These lead to

assumption reflects the three previously disfor mixed method cussed assumptions and leads to support The transformative s approaches. methodological

Inclusion methodological assumptions is critical in tional transformative nity members. as a point of of transformative research and evaluation as a point of establishing a dialogue between the researchers and the commu-However, the can be considered to address the informaare made especially as they relate to discrimination and oppression. Thus the formation of community is an important step in addressing methodological questions in research. (Mertens, 2009, p. 59) partnerships with researchers and the contextual needs of a with a conscious awareness tual and historical factors, methodological decisions qualitative dimension in Mixed methods designs of the community.

view in terms of establishing the focus of the research, development of research quesparadigm reframes the analysis, interpretation, and use. tions, and decisions about data collection, follow in this chapter illustrate a variety of examples of mixed methods research that Methodologically the transformative researcher's world-

grounded in the transformative paradigm. design options in mixed methods that are

#### Transformative Mixed MethodsDesigns

the transformative worldview do not neces sarily use mixed methods (Mertens Researchers who situate the transformative paradigm is identified by adherence to a social justice agenda; methods by adherence to a social justice agenda; explicit acknowledgment of factors that are culturally based in the definition of what is ships in the research context and wider lenging of power differences in relationperceived to be real; Ginsberg, 2008, 2009). However, mixed society; and the need ological approaches that are resp the aforementioned complexities. formative model for mixed involvement, as well research suggests the data to inform decisions for next research or to program changes (Mertens, 2007, 2009). whether those steps research that as the recognition and chalrelated need for community to develop methodthemselves is reflective cyclical use of to additional responsive methods A within trans steps, to

systems explicitly identify tive paradigm as their worldview (Mertens, Some, but not all, researchers work exemplifies the transformative sible to analyze mixed methods research in examine those studies that do illustrate the transformative mixed methods approach. terms of the underlying belief systems and 2009; Sweetman et al ods designs with illustrations drawn from the authors' research studies as well as rele-vant literature. We present these examples Hence, the remainder of this vides examples of a variety of mixed methstandings of how to conduct similar research. The examples were chosen to reflect options digm plays out in mixed methods research to illustrate how the with a goal of enhancing transformative para-2009). Yet, it is posresearchers whose the transformareaders' underchapter probelief

for mixed methods designs, such as the sequential and concurrent designs (see Creswell, 2009; Mertens, 2010; and Teddlie and Tashakkori, 2009; for more on mixed methods designs).

#### TRANSFORMATIVE SEQUENTIAL DESIGNS

the transformative paradigm's in which ration, quantitative methods). We present examples lowed by qualitative methods ration, obesity prevention programs, inclusive education for disabled people in New of this approach taken from teacher prepaand then use quantitative verse (qualitative Zealand, and poverty reduction in Rwanda. A transformative sequential researchers ground their work in methods methods first, folbelief systems followed by design is one or the con-

### Teacher Preparation

ning of this chapter is based on deaf Department of Education (Mertens, 2008; was conducted and train students of color hearing people who intend to work with the higher education for deaf people and for Gallaudet is the only university in the world Mertens, Holmes, Harris, & Brandt, 2007). disability. The program director contacted who were deaf or hard of hearing to precoming to an end and that they were contractually obligated to conduct a summapare teachers for students who are deaf or tive evaluation. hard of hearing and who have with the specific Mertens and indicated that the project was The scenario that appeared Education obtained a grant from the a teacher population. ( Department of Education to recruit preparation at Gallaudet Sallaudet's mission of providing and students project that an evaluation an additional at the begin-Department University's

Using a transformative lens, Mertens questioned the director about the history of the project and its current status, as well as

proposals, the proposal submitted to the U.S. Department of Education, and the annual reports that the project had submitted. Thus, the evaluation began with qualitative data collection strategies of interviewing and document review. Based on analysis of these data, Mertens decided to invite members of the deaf community to join her as co-evaluators, deliberately selecting individuals who reflected important dimensions of diversity in the deaf community. Diversity considerations of relevance to deaf community include a person's choice of language (signed or spoken; American Sign Language or Pidgin Signed English) and use of assistive listening technology (such as hearing aids or cochlear implants). Two of the co-evaluators were culturally deaf, meaning that they used American Sign Language and did not speak while they were signing. One of the co-evaluators was a deaf woman who was raised orally (i.e., she used supportive technology to capitalize on her residual hearing, read lips, and spoke English.) At the time of the study, she used a cochlear implant to enhance her hearing.

As a team, Mertens and colleagues reviewed the documents and discussed how to approach the study. Graduates of the program were scheduled to attend a reflective seminar the following month; we agreed this would be a good venue for data collection. We observed the seminar proceedings for 2 days, taking careful field notes, and comparing our notes at the end of each day. On the third day, with agreement of the seminar coordinator, we interviewed all of the participants, using questions that were based on our observations and document reviews. Several issues of social justice surfaced from our preliminary data collections and analyses, and we used the interviews to explore these further. For example, the issue of marginalization of teachers who teach students with multiple disabilities, as well as the marginalization of the students themselves, was noted in our

field notes of interviews with program graduates in May 2007:

- I feel teachers in the mainstream resist our students, especially students with multiple disabilities.
- It's almost like multiple disabilities/ special needs section is totally separate, an island opposed to the regular deaf school. I hate the separation. I've worked there 2 years, and many teachers at the regular deaf school building look at me as if I'm a visitor. When I tell them I've been teaching here for 2 years, they look at me in awe.

In addition, the field notes and interviews revealed concerns about how to address the diversity within the population of deaf and hard of hearing students with multiple disabilities in terms of:

- diverse home languages (e.g., Spanish, Arabic);
- diagnosing and teaching disability groups other than those with severe disabilities (e.g., learning disabilities, autism);
- multiple communication modes used in their classrooms; and
- diverse settings and teacher's roles.

Mertens and colleagues pursued these issues in the May 2007 interviews with program graduates, which yielded such comments as:

- When the home language is Spanish and the kid has very limited language and no sign, no English. Now I have a student who is deaf with another disability from another country.
- My students are under 5 years old, and they come with zero language and their behavior is awful. They can't sit for even a minute. Kids come with temper tantrums and run out of the school building. I have to teach these kids language;

means there same time. Which one do I run after? kid got into the storm drain. I'm only is seeing three kids run out after at the same time as teacher, interact with others. see them start to learn and is still I have an assistant, cid the biggest challenge of to we other two school at behave can't but chase One that one and the

graduates. The quantitative data confirmed the concerns that were raised by the seminar determine if the issues, attitudes, and con-cerns expressed by those in attendance at all the program access to a broader base We then used the data from the tive part of the study to construct participants: that they felteachers and they needed based quantitative survey, which was sent to seminar were shared graduates. felt by more of their students. of participants construct marginalized This other program support for gave qualitaa Web-Sn as

support for Department of Education attending mainstream schools. disability and Canada that have programs to the need for additional preparation and/or ulty and school staff members in order to collected from program graduates and were designed to present the findings to the faccussion about the challenges teachers of the deaf and these results lenges. For example, the administrators and teachers. The questions were based on the data the program and involved preparing interview Holmes of the classroom was used to determine their thoughts the university faculty who the program and the coo dealing with the diversity

The final cycle of 70 different universities in the United States teacher about the presentation was followed by lively dis type of teacher preparation and to give attention to the multi to give (2008) made a students that the new teachers. Mertens and to an audience students who run out cooperating school about these chalhard of hearing. final quote set up data are presentation of participated The The interview inquire questions faculty increasingly involved collection multiple that an online **Fallaudet** prepare about from from were the for of In In

mentoring system for new program graduates, which was so popular that they opened it up to all teacher candidates in the department, not just those in the multiple disabilities program.

## Adolescent Obesity Prevention

Bledsoe (2005) evaluated a program designed to address adolescent obesity in a Trenton, New Jersey, high school. The program was a response to what the faculty and administration recognized as a growing problem among adolescents within the school community: that black and Latino high school students were at a higher risk for obesity than the national average.

(TOPS), conceptualize gies provide information and actionable strateoverweight students (Bledsoe, 2005). TO was considered part seek collaboration with the evidenced-base intervention high school students and their families and of the faculty and administration to have an evidenced-base intervention led them to eral arts college. Teachers focused Trenton community at large. as to combat the growing number of the and administrators worked to on health and the Obesity program, informally of a lar Project Study well-being for city's local libger agenda to The desire PS

The evaluation addressed two objectives:

- lenges nity associative link physical health behavior outcomes (how one identifies with by To of providing understand the an increasingly between scientific their culture) and cultural identity diverse commueeds evidence of
- To make sure that the health promotion program not only educated, but also addressed the dynamics (e.g., attitudes and behaviors) that encourage and discourage healthy nutrition behavior

To address these objectives, the program consisted of three components: (1) physical (teaching students to exercise regularly),

(2) psychological (encouraging students to understand their eating habits), and (3) educational (teaching students to make healthy food and eating choices). Initial evaluation activities focused on gathering information that would inform the design of the program and the strategies to accurately assess the effectiveness of the intervention within the cultural context.

Despite the good intentions of school

Despite the good intentions of school officials, there was a tremendous gap between the program developers and researchers, on the one hand, and the student body population. Most, if not all, researchers and school officials were white (except for Bledsoe, the lead evaluator, who is African American), were middle to upper-middle class, and were not living within the city's limits. The program consumers and research participants were students of color, living in a city with a median income of \$36,000, and considered impoverished and underserved. It became clear to the research team that views of nutrition, health, and obesity were influenced by power and privilege: those in the most powerful positions making decisions and determining lifestyle choices for those in less powerful positions.

For example, many of the assumptions concerning the rationale behind perceived high rates of obesity among urban high school students were based on high-level stakeholders' (e.g., teachers, researchers, community partners) theory that was loosely informed by the literature. This "theory" emphasized an individual deficit model anchored by variables such as low self-esteem, poverty, and educational deficiency. The research team sought to close the gap in the power structure by engaging in more qualitative (in addition to quantitative) and/or unusual methods that would help provide an understanding of the students and the community in which they resided (Mertens, 2007).

The first approach of the evaluation team was to meet with students regularly via the use of focus groups. These focus groups were used to gather information

about the kind of intervention to which student participants would respond. The group discussions served two purposes. First, they served to connect the evaluation team (made up of college-age research assistants) to the students. Second, they served to provide needed context of any possible intervention design and future evaluation strategies. These groups were used throughout the project to bring the student voice into the planning of the program, as well as

A second approach was to gather base-line data via survey from the students and their teachers, families, and the general environment. The team, with feedback from the students, designed surveys (students provided feedback on the wording of questions and the general concepts that should be covered) for students, parents, and teachers. The team also conducted a site mapping of the city to identify the environmental and community factors that encouraged or discouraged unhealthy eat-

ing patterns. obtained from the focus groups, surveys, and site mapping, involved the evaluation and administration. team meeting regularly as a conduit to obtained from student, teacher, and parent surveys. sumers and participants was brought to light, the composition of the program collaborators changed. Instead of private and local general medical practitioners, new collaborators, such as a municipal land use group, a community environmental housing development addition, the evaluation team brought on department Information Systems to provide a Webgrocery and convenience stores. based mapping of the city's The third approach, based on the results urban planner As information from key of health were included. In who used Geographical present information These meetings served with faculty, staff, eateries and

By using the transformative paradigm, the team was able to diminish the power differential by fostering regular dialogue

in every planning aspect. In this case, using focus groups first and then using quantitative methods allowed for the creation of a bond with the students who began to feel (a) that they had some control over what they would be asked to disclose and in what manner and (b) that they had ownership in the development of the program and research (Bledsoe & Hopson, 2009). Finally, this approach allowed for a more accurate understanding of health and well-being in the city in a collective and community-based manner, as opposed to a deficit model of human imperfection and blame (Bledsoe & Hopson, 2009).

## Disability Studies in New Zealand

A good example of disability research in New Zealand using mixed methods is Alison Kearney's (2009) research into the exclusion of disabled children from and sion. In this research, Kearney sets of explore the nature of this exclusion to legislation guaranteeing within their neighborhood schools, pening and to make recommendations that may reduce this exclusion. She developed a vide some answers as to why this was hapinvolved an online questionnaire for parents whose children had experienced barriers, three-phase mixed methods study: Phase 1 followed by a semistructured interview with a random stratified sample of these parents; Phase 2 involved a postal questionnaire to principals in three regions of New Zealand, followed by a semistructured interview with involved interviews with school and a focus group interview with group of teacher aides in the school Kearney concludes her study with son eliminate the exclusion of disabled students to (a) schools on how they might reduce and powerful and compelling recommendations agencies on how they inclusive education in and (b) sample of these principals; to government New their right to inclumight develop truly research into the and teachers in Zealand. sets out to government Phase despite school. proand one

sion of rights; the need to rectify this situation is matter of social justice—not just for the paradigm, it clearly fits within it. The excluresearch to genuinely inclusive education system will result in the transformation of the lives not tutes a individuals involved but only of the disabled students involved but and whanau (extended family) as well. A ence and diversity is a valued given. and within a community of all students who must learn to work with Although Kearney disabled people from schools constiviolation of be within the their human and legal does -not just for the for their families in which differtransformative not claim

#### International Development and Health Services in Zambia

and transformative, Lishandu, and I most important considerations centered on health intervention research approach as follows: relational issues between over a 3-year period. As demonstrated in service other design to investigate the effectiveness of Mbwili-Muleya, Lungu, recipients that transformative delivery. sequential oewenson. They ween service providers t challenged effective They described their program in Zambia studies, one mixed methods Kabuba, Zulu (2008) used a of

geted using the spiral model concept of particifocus pating, reflecting, and acting by the tar-The design that P ities pating health implementation ticipatory issues and areas targeted meetings collected through qualitative techniques baseline data on these change areas were on planning and budgeting at the particiworkshop. oewenson et al., 2006). were and outputs group discussions groups were held to planned during the workshop tools-This was an In centres. phase -during was achieved, an intervention re iterative manner flect on the activof the activities followed by an (FGDs) and parfor change and Regular review Identification of an orientation followed by study

the further action identified to be necessary. A pre and post intervention questionnaire was administered to assess change in the new HCs [Health Committee] involved. (p. 5)

Mbwili-Muleya et al. (2008) found that pre-post test questionnaires allowed them to document that the health intervention program was successful. More important, they reported that the participatory action research process demystified and removed suspicions between stakeholders, strengthened dialogue between communities and health workers, and increased the community involvement in planning and in resolving community issues, increasing the efficacy of the program.

## TRANSFORMATIVE PARALLEL DESIGN FOR MIXED METHODS

A transformative parallel design involves the use of both quantitative and qualitative methods at essentially the same time during the study. In this section, we use examples of this mixed methods approach from an evaluation of a crime prevention program, a study on spinal cord injury, and a study on an international development poverty reduction program.

#### The Peace Campaign Crime Prevention Program

dated into giving up material property and were also being " community. The Peace Campaign was a response to a growing situation in which ing and intimidation in school school-age children in the East community Angeles community's efforts to tration, collaborative effort, with the school adminis-tration, parents, a local community service lence (Bledsoe, orced into early gang membership and vio-ence (Bledsoe, 2001). The program was a Bledsoe (2001) evaluated an East Los were being bullied reduce bully-"jumped" or Los Angeles and intimiand goods and was a in the

> such their idators, as well as the bullied and intimiservices that focus on the bullies and intim-Department organization, members who were at a loss about how to providing communication skills training for deal with the situation. Services included dated, and the parents and activities that encouraged students to project parents and children, as well as sponsoring as sports, academics, and the arts. energies toward more fruitful avenues (LAPD), designed to provide and the Los Angeles community

idation within the community and to evaluate the effectiveness of the campaign. determine the extent of bullying and intimplace at risk ch idation; (b) the community's general context, which served both to protect and to place at risk children and their families; provide a well-rounded understanding of key constituents, team used focus and (c) appropriate strategies to address the situation. bullied and engaging in bullying and intim-(a) the extent to which students were being The evaluation team groups and interviews of as well as surveys, to help was asked to help

Members of each stakeholder group were asked to participate in either a survey or focus group. The choice of method was determined by the participants and their perceived comfort level, and survey and focus group data were combined to give a comprehensive picture. The team felt that this approach—to provide participants a choice of the measures in which they would like to participate—would result in more accurate data collection (Mertens, 2007).

use of nomic rary sures. First, the team discovered that part of such as culture the problem was exacerbated by aspects grant Latino community), socioeconomic status (the community was of low socioecoindicative of manhood were considered an extension of the artifact Several perspectives emerged from the machismo, a or status, qualitative and quantitative meaconsisted of and employment was tempo-(bullying and intimidation characteristic considered low-level service within the immi-

profession jobs), and community population (the community had a high percentage of monolingual, Spanish-only immigrants who had recently come to the East Los Angeles area with little knowledge of the surrounding city).

Participants noted that increasing daily communication and improving communication skills between students and parents seemed to reduce bullying and intimidation. The increase in communication seemed not only to help students develop strategies that could keep them safe from bullying but also to lessen the use of bullying techniques.

they had outlets and sources, not just one. Their data, as well as using a community-based perspective, rather than using an individual deficit model (Bledsoe, 2001). Thus, the commuand the problem needed to a school issue. It was a and intimidation was not other key constituents, found that bullying data from parents, teachers, the LAPD, and their response to potentially violent situa-tions, developed partnership-like interacnity program designers included aspects which the LAPD and other commun tions, and sponsored community-building members were active as also allowed for the activities. The transformative perspective close relationship between the researcher nity, and the general context in w ticipants resided (Bledsoe, 2001). and participants, the values of the In addition, data from student-level groups indicated that students felt consideration of the support community issue a family issue or a community in be addressed perspective, from many community which parcommudeficit Ħ

#### Spinal Cord Injury Research in New Zealand

Sullivan and colleagues (2007) are currently undertaking research in New Zealand on the first 2 years of spinal cord injury (SCI) and the transition from spinal unit to community. Anecdotal evidence suggests that many people with SCI in New Zealand waste their lives away existing on accident

the 4-year study began in August 2007. compensation, out what was obtained from the New Zealand Health Research ( Years longitudinal study was designed to find once they left the To test actually happened to people nationwide ouncil (New Zealand HRC) and this, once the SCI: they and includes spinal unit. Funding The First both with

tetraplegics and paraplegics.

The aims of the research explore how the interrelationship(s) of body, self, and society have shaped the life chances, life choices, and subjectivity of a explore investigate ted to one of New Zealand's two spinal units will be eligible to participate if they affects tation residents aged between 16 cohort of people with SCI; are New Zealand citizens or without serious cognitive Accident Compensation Commission (ACC) comes. All new SCI-people w damage to their and socioeconomic and how entitlement compensation and 65. injury, admitith neurologto rehabiliand (b) permanent (a)

the Ngai the spinal units: the Association of Spinal Sullivan and colleagues consu ment with directors of the spinal units permission tion with these groups, the study was designed and questionnaires developed. To Burwood They then entered a partnership arrangeand in ensure the research was (BAIL) at principles,3 research in the Christchurch Hauora, Maori Health Services, Burwood Hospital, took part in these discussions. The final Concerns Sounties-Manukau **Aaori** ommittee At the line with the Treaty Health proposal was also Academy of Independent Living Christchurch. In the consumer groups beginning of research design, (TASC) at Auckland and and support for Tahu Research (the local tribal a representative Research District cultu scrutinized by Consultation rally sensitive ose consultalted with the area) and the the research. Health Board at each of Burwood Waitangi of the Ranga

(which has tribal authority over research located in the Auckland area).

prior to participants' discharge from the spinal unit. The second and third structured months following SCI. This is a face-to-face interview undertaken by the trained on-site ial will be collected in three structured interlel design using quantitative and qualitative methods concurrently. Quantitative materfollow-up interviews will be undertaken by telephone at 12 and 24 months after SCI. The timing of these interviews complies interviewers (who themselves have an SCI) views with all participants recruited over 2-year period. The first interview is at (van Beeck et al., 2007). These three structured interviews are designed to collect facand income, personal and social relation-ships, and life satisfaction, as this constitual evidence on the "what" of the world tudes, health status, support services, follow-up tutes the framework in which they create their subjectivity. Two qualitative, face-to-face interviews with a subsample of with international recommendations for follow-up times in injury outcome studies 20 participants explore in greater depth the meanings participants now attach to these meanings are shaping their life choices and subjectivity. On the advice of BAIL and 6 months, the person ought to be settled in at home with alterations complete and the TASC, these qualitative interview held at 6 and 18 months after phenomena and how these phenomena and done so. At 18 months, any neurological recovery that is going to occur will have broader world if he or she has not already thinking about venturing out necessary from the spinal units for specific reasons. occurred and the person will be thinking "so this is it for the rest of my life." Inferences derived from facts and personal understandings of what actually happens to perspectives will be triangulated SCI people in the first 2 years po The research uses a transformative paral-Il people inhabit: their life chances, personal supports in p interviews st-injury. lace to be discharge settled in into the to enrich will be work at 4 atti-

> ing, and the second round of quantitative interviews is being repeating a number of questions from the questionnaire is being used, which while first interview, includes a new set of questheir tions on issues such as what has changed for participants since the first interview and which services generally and with personal careers and ACC in particular. These later questions are yielding some interesting data, second qualitative interview. tions are yielding some interesting data, which will be followed up in-depth in the summer 2009, use and will satisfaction with support conducted. A recruitment is continudifferent

mixed methods within a transformative paradigm. The quantitative data provide the frequency tables that constitute the skeleton raw numbers, of what happens to SCI people as they transkeleton, sition from spinal "where to from here" detail necessary for transforming lives. Quantitative data are does not provide the how, the why, or the useful for promoting policy change, but the the individuals concerned, reveal the appropriate color, texture, and direction of that policy if it is to transform the lives of the tarqualitative data, the subjective meanings of get population on the ground. This exemplifies the beauty of using while providing a useful model, which are processed into the unit to community.

pudding." ground provides the "proof of the (policy) tion at the macro policy level is very imporand ticipants are situation of learning to live ing had a high response rate to this study, as most want to contribute their experience in order to improve people with SCI. In terms of the study having a transformative effect on the immediate lives of participants, to date, this has been achieved in While seeking and obtaining transformatheir energy new lives. Notwithstanding, we have ." At this so newly paralyzed that most gy is directed at their personal stage of the research, partwo ways. or transform the lot of all in new bodies

First, one of the key aims of the study was to involve newly paralyzed people as part of

the research team.<sup>4</sup> To this end, a number of people with SCI were recruited through TASC and BAIL, trained in research and interviewing techniques, and included as paid members of the team to recruit and carry out the quantitative interviews. They will also be used in the analysis of data.

Second, at a more prosaic level, the research is transformative insofar as it provides the opportunity for those newly paralyzed participants in the qualitative side of the study with the opportunity to speak confidentially with someone with at least 30 years experience of living successfully with SCI. In summary, the transformative para-

digm uses mixed methods to bring about ing with them their conditions of existence and deconstructing these so that they can social justice for minority groups by researcheliminate barriers and themselves. Participants in the SCI: The First Two Years study are motivated by the desire to move beyond anecdote and find out what actually Has this population been adequately pared to manage living productively with SCI once might be done better might be added to or rehabilitation programs in the spinal SCI in their communities? units? Is this population ing supports necessary for living in the community? community? If so, improvement? If not, answers to these questions will we be in a this be rectified? Only position to know if and what barriers impede SCI New Zealanders from reaching their full potential in terms of living productive and fulfilling lives. they leave eliminated from the build better lives or differently, why not? How happens to people when and what barriers there room getting the ongothe spinal unit. If not, what we have the what with pre The for can for

#### International Development and Poverty

The United Nations' Millennium Development Goals (MDGs) place emphasis on and expectation of results from organizations delivering development assistance

rately report movement toward the period 2008). ground, nor offer practical assessments have traditionally tions for improving practice. and and quantitative data does not random sample poverty (poverty that capture the dynamics of poverty and why it measures have not been able niques to describe tions about chronic poverty occurs structured interviews were limited poverty, but the qualitative dimension nec-Rwanda were ineffective in discovering the factors communities processes that caused then analyzed using studying poverty itself, reflect what to answer the why Howe and McKay (2007) found in of their understanding of chronic (Addison, that time) using quantitative measures in poor and household Hulme, the demographics of is obse that these lasts countries. statistical techcommonly used it. and how queswere missing. When specifirved to accurately surveys and Historically, quantitative ecommenda-MDGs, but measures on the

Woolcock, 2010 [this logical details attitudes, preferences, included a Participatory Poverty Assessment collect data related to "people's judgments, semistructured and interactive (PPA) in poverty usually through sociological ducted by the World Bank.) ceptions For the past 15 years, the World Bank has employing purposive on research about a subjectmixed techniques" measurement and assess [this volume] for more methods priorities, and/or per-ject—and analyzes it Bamberger, Rao, & research consampling and or (Carvalho & interviews to anthropo

mid-90s, ration tion sharing, analysis, and action. PPAs usually done in a community with colla tools and activities that encourage informastrategies process of analyzing poverty (Norton, 2001). PPA uses PPA, designed by the W of representatives from universities, Bird, for includes poor people in the influencing Brock, a variety Kakande, of national policy kande, & Turk, orl and in creating d Bank in the with collabo participatory

nongovernment organizations (NGOs), government officials, or local development agencies. During many PPAs, the stake-holders develop community action plans, which are later supported by local governments or development organizations.

well-being and quality of life factors found in the PPAs (Addison et al. 2008). For example, in Rwanda (Howe & McKay, 2007), household surveys (Q1) described tors found in government household sur-To study chronic poverty, researchers use a "Q-squared" approach (quantitative ing conditions, their annual income, and ment and well-being gave deeper insight into factors overlooked by Q1. The results + qualitative sources) where economic consumption over time. The addition of qualitative methods (Q2) allowed for a the assets owned by poor families, their livpants a better understanding poverty, a tool to use for social clearer understanding of the "extent, pat-tern, and nature of chronic poverty" ing chronic poverty have been critical to attain social justice for the poor who are affect their welfare at the household level. stakeholders, gave the Rwandan particiof the Q-squared approach, shared with all because measures such as human tion, and the ability to identify factors that typically marginalized because of lack of Supplemental qualitative methods in studyaccess and exclusion. are analyzed simultaneously mobilizadevelop their with fac-For

#### International Development and Mixed Methods

International organizations send billions of dollars in development aid to economically poor countries for development programs targeted to better the lives of people living in poverty. External experts routinely monitor and evaluate programs using single-method approaches to measure the effectiveness/efficiency of projects and to discern whether accountability demands of donor agencies are being met (Mayoux &

Mosedale, mal projects are unsustainable and make institutes siderable time and resources away from the of the impact assessments as they take condevelopment programs. Questions have Debates have emerged about the cost/benefit ments that measure the economic impact of projects but ignore the multidimensionality arisen (Mayoux & Chambers, 2005). Exclusively measuring "development" through an ecorequested tural factors that also influence economics of poverty and the social, nomic lens is insufficient in designing polipeople's well-being cies to truly make a positive impact on poor nearly voiceless in the evaluation process and excluded from participating in making populations and minority groups have been decisions and policies on their own behalf (Turk, 1999). Rather than assessments that ment organizations cal relevance to the beneficiaries, develop-"proved impacts" and held limited practi-"improving their impact on improving communities. concerning have assessments 2005). Development research ave noted many development the validity of assess-(Cobb, 2002). Poor that political, and culstakeholders have aid them

studies improved when they use qualitative particistudy ers patory assessment tools in which stakeholdtechniques include case studies, participant ohservation, focus groups, semistructured opportunities (Hulme, 2007). Participatory consequently learn interviews program stakeholders study in a variety Participatory observation, to resolve, or sketching resource maps, make to improve their program. Participatory activities raise the stakeholdevaluation empower Researchers participate fully their well-being, awareness of their right to a voice in the luation process and inform and now them with key informants, and y Learning and Actions where akeholders with heir practice" (Hulme, 2000). rs conducting development recognize that their work is process variety of ways (drawing s, developing timelines, rank-being, prioritizing challenges sketching seasonal diagrams). to groups, in the evaluation and about their needs and take actions they participate

using qualitative means, yet they omit quantitative tools. Wilson and K (2005) used case studies, focus groups individual interviews to learn what opment assistance deaf beneficiaries designed. share the study's results with all stakehold-Currently, it is difficult to opment studies using mixed ers (other than PPA-see below). Many researchers have wholeheartedly embraced methodology of putting the "first last the "last first." Some practitioners is socially useful and contributes to advo-cating for the attainment of human rights Chambers with stakeholders to create national activities; the study also was a tool ment funding for several national and interfrom their Kenyan government and foreign icy with their government ministries, yet no quantitative data collection tools were used by the deaf community NGOs. The results of the to identify their needs when in the study. s (1997) and Narayan's (1997) and Narayan's qualitat a more inclusive, qualitat at the "first last" a he yet they omit using to obtain governfocus groups, to study were knowledge discussing polmethods that locate what qualitative desired Kakiri (1996)develdevelwork used that and and

tive, as the resulting data are not with the stakeholders. Hulme (1999 ied 13 Microfinance Institutions in Africa to understand why individuals mixed methods tend not grams meant to bring income into homes of dropped out of these small erized dropout records as well as sheets detailing each individual's the moderately poor. statements. About 1,400 people were inter-Results show banks tended to adhere strict bank policies that did not fit the clients' needs, which varied according to: were collected and analyzed from computviewed, from bank employers Other development to those borrowed to studies *quantitative* well be business (1999)individuals transformanot who as that Ħ. account spreadshared money. made studpro-East data use the

seasons, stage of life, means of gaining a livelihood and a host of contingencies. Clients need loans for emergency medical and health bills, savings to pay

school fees, insurance in case of the death of an adult income earner, a mortgage to build a house, a savings plan so they have a small retirement income, and many, many other needs. (Hulme, 1999, p. ii)

Qualitative methods have the express purpose of empowering the beneficiaries, yet similar to other final reports using mixed methods in development, this study makes no mention of sharing results with stakeholders.

#### Conclusions

lights methodology ties that are often marginalized has prodemonstrate how engaging The work discussed and issues of interest to those communities. duced framework. the powerful results use In particular of within mixed methods m this chapter highfor the questions with communi-, the authors research

textual factors such as social justice (or lack thereof), power, and oppression to be addressed in (a) the type of questions asked; that can both benefit and accurately represent the cultural communities. This chapter (b) the types of kind of information that can be gathered discusses issues in conducting transformawork. It also brings to visibility domains of social inquiry in which transformative used to expand on and complement earlier such as participatory action research, dismixed methods can be fruitfully applied, sertation research, program evaluation, and international development. Framing research with philosophical components from the transformative paradigm allows spective plays out in mixed methods research. Such a focus should help others decide how the researcher to focus on how to conduct similar research. which those designs are used; ws for the inclusion of important conmixed methods research that can be the transformative designs used; (c) the manner evaluation, and (d) the paradigm that per

# Research Ouestions and Exercises

- 1. Analyze one of the examples in this chapter in terms of the philosophical assumptions of the transformative paradigm. Present evidence from the study that supports the claim that it is reflective of the transformative belief systems.
- 2. Visit the U.S. Agency for International Development's Web page, "Telling Our Story" (http://www.usaid.gov/stories/index.html), and read examples of development assistance projects the U.S. supports worldwide. Select one project and list all of the stakeholders you think should participate in an evaluation of the project and why. What kinds of supports might be necessary to involve the stakeholders in appropriate ways?
- 3. Howe and McKay (2007) used qualitative methods, such as focus groups, to understand the "extent, pattern, and nature of chronic poverty" in Rwanda. What information do you imagine they were able to gather from focus group discussions that they were unable to capture using quantitative methods? How could this imagined collected data be used by poor people themselves?
- 4. Visit the United Nation's Web page, "About the Millennium Development Goals" (http://www.undp.org/mdg/basics.shtml), and select one of the eight goals. Describe the measures (indicators) the United Nations uses to measure achievement of that goal. Derive implications for mixed methods research based on your review of these documents.

- 5. How did the qualitative data enhance quantitative data in Bledsoe's (2001, 2005) evaluation of the obesity program or the peace campaign program? By using the transformative paradigm in her work with the high school obesity prevention program, what does Bledsoe feel she accomplishes with the participants?
- 6. What are the transformative elements of Sullivan et al.'s (2007) research in the SCI community?
- 7. What are the challenges of using transformative mixed methods in the context in which you conduct your own research?

#### Notes

- 1. As when living in group homes owned by an agency contracted by the state to provide accommodation and to enforce attendance at life-skills, educational, vocational, and various training programs designed to keep "clients" safely occupied.
- 2. In 1974, New Zealanders gave up the right to sue for compensation if they incurred injury in an accident. In return, a state-run Accident Compensation Commission (ACC) was ances, any necessary home and workplace alterations, ongoing home care and support, a rehabilitation costs including aids and applimotor vehicle, and 80% earnings-related compensation (ERC) for the period of rehabilita-Compensation includes a cash lump sum, all Zealand 24-hour, no-fault compensation. tion (this might and means-tested Invalid Benefit and Ministry registration. If, however, one's SCI is congenion employers, wages, petrol, and motor vehicle tal or caused through illness, one is not covered cannot return to work). It is funded from levies rehabilitation, aides of Health Disability Support Services (DSS) for by ACC and must established to provide all people in New be rely on the far less generous and appliances, and so on. extended for life if
- of the British Crown in 1840 and allowed for the annexation document between iwi Maori (tribes) and representatives law in New 3. The Treaty of Zealand. New and of Waitangi is Zealand. establishment of Maori and English texts It was signed the founding British

- of New Zealand, with the and protection—rather than the acincorporated in New Zealand law. debates over translation have ples of the treaty—partnersh chiefs the treaty were signing the -partnership, participation circulated Maori than the actual clauses overwhelming majority text. seen the princithroughout Later-day
- research sophically committed cided with the nity and the important tenet of transformative research capacity within the disability commu-SCI on the research team. Happily, this coin-New Zealand (funding body) policy to build research first researcher on the Martin Sullivan, to include process people from marginalized Health to including appropriately 2 Research paraplegic himself team, people Council of was in philowith the

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# OF RESEARCH METHODOLOGY

An Integrated Set of Continua

• Katrin Niglas

#### Objectives

The detailed objectives of the chapter are to

- present a brief history describing how the idea of philosophical research paradigms (and essential attributes of those paradigms) were converted from dualisms into continua;
- present a brief history describing how the QUAN-QUAL methodological dichotomy (and its constituent components) was converted into a set of QUAN-MM-QUAL methodological continua;
- present the multidimensional model of research methodology and describe its constituent parts as illustrated in Figure 9.2;
- describe in more detail the philosophical continuum in the model;
- describe in more detail the methodological continuum in the model;

(Continued)