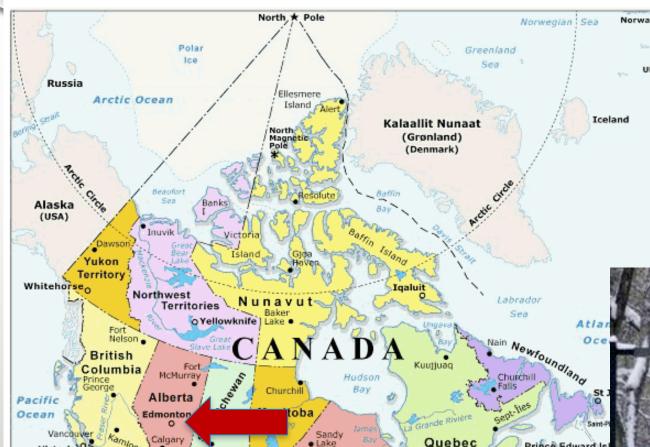
EXPLORING DILEMMAS AND OPPORTUNITIES WITHIN COMPLEX MIXED METHODS RESEARCH

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WHO IS THE WEBINAR PRESENTER?



- WHERE IS THE VOICE COMING FROM?
- WHERE IS THE



WHAT DOES IT LOOK LIKE OUTSIDE MY
 WINDOW CURRENTLY?



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O Provincial or Territorial capital

Other populated places

LEGEND

National capital

Saskatoon

Regina

United States of America

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Map Copyright Information

Ontario

Québec

Ottawa o



SOME OF MY MMR WORK



COMPLETED

MMR TEACHING

POTH, C. (2014). WHAT CONSTITUTES EFFECTIVE LEARNING EXPERIENCES IN A MIXED METHODS RESEARCH COURSE? AN EXAMINATION FROM THE STUDENT PERSPECTIVE. *INTERNATIONAL JOURNAL OF MULTIPLE RESEARCH APPROACHES*, 8(1), 74-86. DOI: 10.5172/MRA.2014.8.1.74

2. MMR TEAMS

POTH, C. (2012). EXPLORING THE ROLE OF MIXED METHODS PRACTITIONER WITHIN EDUCATIONAL RESEARCH TEAMS: A CROSS CASE COMPARISON OF THE RESEARCH PLANNING PROCESS. SPECIAL ISSUE OF "MIXED METHODS RESEARCH IN EDUCATION" INTERNATIONAL JOURNAL OF MULTIPLE RESEARCH APPROACHES, 6, 315-332.

3. MMR QUALITY

ONWUEGBUZIE, A., & **POTH**, **C**. (2016). EDITORS' AFTERWORD: TOWARD EVIDENCE-BASED GUIDELINES FOR REVIEWING MIXED METHODS RESEARCH MANUSCRIPTS SUBMITTED TO JOURNALS. *INTERNATIONAL JOURNAL OF QUALITATIVE METHODS*, *15*, 1-13 DOI:10.1177/1609406916628986.

IN PROGRESS

1. COMPLEXITY IN MMR

POTH, C. (IN PRESS). THE CURIOUS CASE OF COMPLEXITY: IMPLICATIONS FOR MIXED METHODS RESEARCH PRACTICES, INTERNATIONAL JOURNAL OF MULTIPLE RESEARCH APPROACHES,

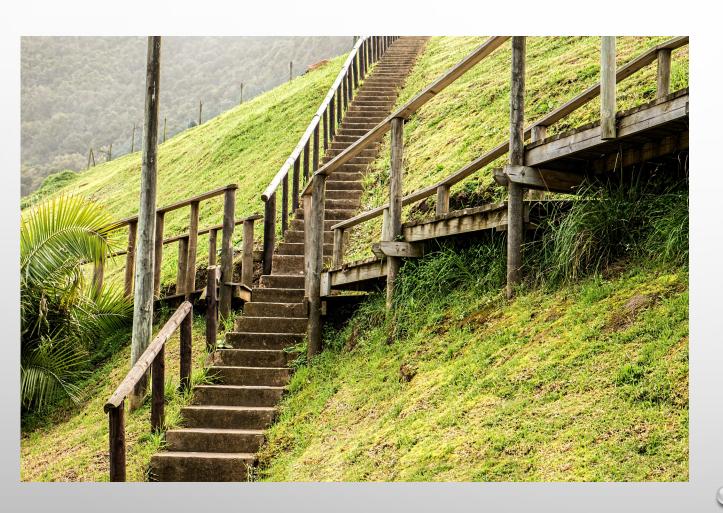
POTH, C. (IN PREPARATION). INNOVATIONS IN MIXED METHODS RESEARCH: A PRACTICAL GUIDE TO INTEGRATIVE THINKING WITH COMPLEXITY LONDON: SAGE (UNDER CONTRACT FOR PUBLICATION 2018).

2. MMR IN LEARNING ENVIRONMENTS

POTH, C. (UNDER REVIEW). THE CONTRIBUTIONS OF MIXED INSIGHTS TO ADVANCING TECHNOLOGY-ENHANCED FORMATIVE ASSESSMENTS WITHIN HIGHER EDUCATION LEARNING ENVIRONMENTS



THIS WEBINAR AS A CREATE-YOUR-OWN-JOURNEY ABOUT COMPLEXITY



- CONNECTIONS ARE PERSONAL
- READINESS IS INDIVIDUALIZED
- AGREEMENT IS OPTIONAL
- CONSIDERATION IS DESIRABLE
- FEEDBACK IS VALUABLE
 - CPOTH@UALBERTA.CA



WHAT MIGHT OUR JOURNEY INVOLVE?

- WHAT DO I MEAN BY COMPLEXITY AND
 COMPLEX (MIXED METHODS RESEARCH) MMR?
- WHY DO I FOCUS ON COMPLEXITY WITHIN MMR?
- WHAT OPPORTUNITIES FOR MMR INNOVATIONS
 DO I THINK CAN BE SEIZED THROUGH A
 COMPLEXITY PERSPECTIVE?



STARTING PLACE: COMPLEXITY AND COMPLEX MMR

ALL RESEARCH IS COMPLEX REGARDLESS
 OF WHETHER WE, AS RESEARCHERS,
 CHOOSE TO RECOGNIZE IT

 IF YOU SEEK TO RECOGNIZE SOURCES OF COMPLEXITY IN YOUR MMR THEN YOU ARE MORE LIKELY TO DESIGN PROCEDURES THAT HELP YOU TO CAPTURE IT AND THUS BE MORE ABLE TO TACKLE COMPLEX MMR PROBLEMS



DEFINING COMPLEXITY IN MMR

	Low complexity	Moderately complex	High complexity
Purpose	Easily determined	Somewhat focused	Difficult to pinpoint
	and stated	and able to be stated	beyond innovative
Contexts	Predictable and	Many known and	Many yet to be known and
	stable	some predictability	dynamic influences
Contributors	Pre-determined and	Many known and some	Many yet to be known and
	collective roles	emergent roles	integrative roles
Procedures	High agreement	Some agreement	Low agreement
Outcomes	Known	Able to be known	Unknowable





- THINK ABOUT A MMR RESEARCH STUDY YOU HAVE UNDERTAKEN OR ARE INTERESTED IN UNDERTAKING AND
- HOW DID YOU CHOOSE TO SEE THE CONDITIONS OF COMPLEXITY FOR THE RESEARCH?
- WRITE DOWN YOUR IDEAS RELATED TO THE RESEARCH PURPOSE, CONTEXT, CONTRIBUTORS, PROCEDURES AND OUTCOMES
- NOW CONSIDER IF YOU SAW THESE ASPECTS AS LESS OR MORE COMPLEX?
- WHY DO YOU THINK YOU FRAMED YOUR MMR STUDY IN THIS WAY?

HOW DID I COME TO EMBRACE





I began to apply similar thinking, that is, more complexity-sensitive thinking to the challenges I was hearing about in MMR – specifically I identified 5 patterns of dilemmas.

DILEMMAS POSED BY CONDITIONS OF COMPLEXITY ON IN **DEFINING MMR PROBLEMS**

"I cannot research this problem because it has not been studied before and no literature exists to guide me"

Research phase	Key researcher tasks	Desirable outcomes	Dilemmas posed
Defining	Consider experiences,	Articulate research problem	Pinpointing study's need for
problems	motivations and literature	by describing topics,	integration and mixing purposes
	during exploration of	purposes, and questions that	when the background influences to
	foundational study ideas	inform designs	the research problem are not well
MMIRA_IIQM Webinar_November	1 <i>4</i> _201 <i>7</i>		understood 10

DILEMMAS POSED BY CONDITIONS OF COMPLEXITY IN SITUATING MMR CONTEXTS

"I cannot do this research because I do not yet understand the contextual boundaries of my study"

Research phase	Key researcher tasks	Desirable outcomes	Dilemmas posed
Situating contexts	Consider the contexts in which	Convey research system by	Bounding study's interrelated system
	the study takes place	describing societal, local,	when the contextual influences to the
		and personal contexts that	research are not stable or defined
		influence one another	
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DILEMMAS POSTED BY CONDITIONS OF COMPLEXITY IN DESCRIBING MMR DESIGNS

"My supervisor tells me I need to use a sequential MMR design and it does not fit what I want to do in my study"

Research phase	Key researcher tasks	Desirable outcomes	Dilemmas posed
Describing	Refine design features while	Communicate research	Describing suitable research
designs	maintaining methodological	design by describing data	designs when no existing
	cohesiveness and considering issues	procedures that address	design typology fits
	of feasibility, ethics, and rigor	research questions	
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DILEMMAS POSTED BY CONDITIONS OF COMPLEXITY IN REALIZING MMR INTEGRATIONS

"I cannot do this research because no one has integrated the data in a way that I intend to do it"

Research phase	Key researcher tasks	Desirable outcomes	Dilemmas posed
Realizing	Rationalize design adaptations	Execute research	Responding with agility to
integrations	by presenting sufficient	procedures by adapting	changing conditions given the
	evidence while carrying out the	designs to changing	unpredictability of the dynamic
MMIRA_IIQM Webinar_November	integration purpose of the study	conditions	influences

DILEMMAS POSTED BY CONDITIONS OF COMPLEXITY ON IN GENERATING MMR INSIGHTS

"I cannot do this research because I do not yet know what the outcomes might be"

Research phase	Key researcher tasks	Desirable outcomes	Dilemmas posed
Generating	Revisit integration processes as	Convey the research	Creating conditions for interactions that
insights	needed during during	outcomes by describing	generate novel insights because the yet-
	generating, representing and	integrative evidence that	to-be-known solutions to the complex
	drawing inferences from the	underpins the study's	problem call for them to draw on
	integrated findings.	implications	diverse experiences and transcend
MMIRA_IIQM Webinar_November 1	4_2017		traditional disciplinary boundaries 14



 TOO OFTEN, RESEARCHERS ATTEMPT TO REDUCE, CONTROL, OR SIMPLY IGNORE THE EFFECTS OF COMPLEXITY RATHER THAN REVISITING UNDERLYING ASSUMPTIONS AND ADAPTING OUR APPROACHES TO MIXED METHODS RESEARCH

MISFIT OF TRADITIONAL APPROACHES
 WITH COMPLEX CONDITIONS



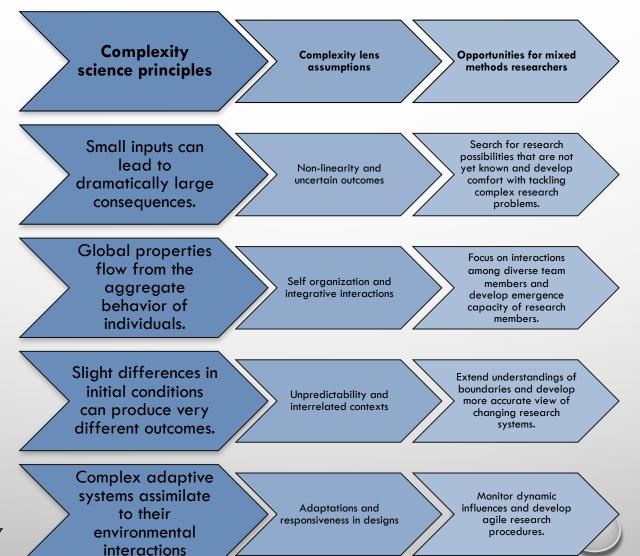
CALLS FOR NEW WAYS OF TACKLING COMPLEX MMR PROBLEMS....

• "BUSINESS AS USUAL WILL NOT LEAD TO EFFECTIVE USE OF RESEARCH TO ADDRESS WICKED PROBLEMS, PROBLEMS FOR WHICH TIME FOR SOLUTIONS IS RUNNING OUT" (2015: MERTENS, 2015, P. 5).

• MERTENS AND COLLEAGUES DESCRIBED THE FUTURE OF MIXED METHODS IN THEIR REPORT TO THE MIXED METHODS INTERNATIONAL RESEARCH ASSOCIATION (MMIRA) AS KALEIDOSCOPIC WITH ITS "SEEMINGLY UNPREDICTABLE PATTERNS FULL OF RICH POSSIBILITIES FOR DIVERSITY AND POTENTIAL TO PROVIDE OPPORTUNITIES TO SEE THINGS THAT HAVE NOT YET BEEN SEEN" (2016: 222).

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OPPORTUNITIES FOR MMR AFFORDED BY THE THEORETICAL UNDERPINNINGS OF COMPLEXITY SCIENCE



OPPORTUNITIES FOR MIXED METHODS RESEARCHERS

- A COMPLEXITY PERSPECTIVE RECOGNIZES THAT RESEARCH CONDITIONS CALLS INTO QUESTION FIVE TRADITIONAL MAINSTAYS OF MIXED METHODS RESEARCH PRACTICES:
 - PURPOSE FOR INTEGRATION CAN BE IDENTIFIED
 - FRAME THE STUDY'S MIXING PURPOSE ABOUT THE INNOVATION NEED
 - STABILITY OF THE RESEARCH CONTEXT CAN BE ASSUMED
 - DIAGNOSE THE STUDY'S INTERRELATED CONTEXT USING A SYSTEMS PERSPECTIVE
 - EXPERTISE NEEDED FOR THE INSIGHTS CAN BE PRE-DETERMINED.
 - DEVELOP THE STUDY'S EMERGENCE CAPACITY THROUGH INTEGRATIVE INTERACTIONS
 - DESIGNS FOR GUIDING THE PROCEDURES CAN BE FIXED
 - DESCRIBE THE STUDY'S AGILE PROCEDURES ADOPTING ADAPTIVE INTEGRATIONS
 - FINDINGS UNDERPINNING THE INSIGHTS CAN BE ANTICIPATED
 - GENERATE THE STUDY'S MIXED INSIGHTS USING RESPONSIVE VALIDATION
- BY RESPONDING APPROPRIATELY INNOVATIONS IN MMR PRACTICES ARE LIKELY



BY ASSESS THE COMPLEXITY OF....

MMR PROBLEMS WE CAN...

RECOGNIZE INNOVATION AS A MIXING PURPOSE AND THUS A DESIRABLE MIXED METHODS STUDY OUTCOME

MMR SYSTEMS WE CAN...

 PROMOTE DIAGNOSIS OF MIXED METHODS RESEARCH SYSTEM CHARACTERISTICS AND MONITORING FOR SYSTEM INFLUENCES AND EFFECTS

MMR MEMBERS WE CAN...

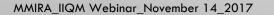
 ACCESS THE NECESSARY EXPERTISE AND DEVELOP THE INTEGRATIVE CAPACITY OF THE MIXED METHODS RESEARCH CONTRIBUTORS

MMR PROCEDURES WE CAN...

SUPPORT RESPONSIVENESS TO CONDITIONS AND THINKING BEYOND EXISTING MIXED METHODS RESEARCH DESIGNS

MMR INTEGRATIONS WE CAN...

REPRESENT INTEGRATED FINDINGS AND EMBED THE VALIDATION PROCESSES FOR MIXED INSIGHTS



CHECK IN: WHERE ARE WE AT IN YOUR JOURNEY ABOUT COMPLEXITY?

- LETS REVISIT THE MMR RESEARCH STUDY YOU HAVE UNDERTAKEN OR ARE INTERESTED IN UNDERTAKING
 AND
- HOW MIGHT YOU CHOOSE TO SEE THE CONDITIONS OF COMPLEXITY FOR THE RESEARCH?
- HOW MIGHT YOUR IDEAS RELATED TO THE RESEARCH PURPOSE, CONTEXT, CONTRIBUTORS, PROCEDURES
 AND OUTCOMES HAVE SHIFTED?









- PAY ATTENTION AND RESPOND TO VARYING CONDITIONS OF COMPLEXITY
 - ASSESSING SOURCES OF COMPLEXITY PROACTIVELY
 - MONITOR ATTENTIVELY
- THE ABILITY TO TRANSFORM IS A VALUED MMR PRACTICE COMPETENCY
 - OFTEN LEAD TO INNOVATIONS THAT THEN CAN 'MOVE DISCIPLINES FORWARD'
- RESEARCHERS WHO ATTEND TO CHANGING CONDITIONS ARE BETTER POSITIONED FOR ADAPTING APPROPRIATELY
 - RESEARCH CONDITIONS ARE DYNAMIC

BEFORE QUESTIONS.... WHAT'S ON YOUR MMR BUCKET LIST?



- Rather than
 death...perhaps a
 different goal...
 - Before I graduate..
 - Before I get tenure..
 - Before I reach 5 years as a prof..
 - Whatever works for you...

IDEAS FOR YOUR MMR BUCKET LIST...

- ✓ Publish a MMR paper
- √ Complete a MMR dissertation
- ✓ Attend a global MMIRA conference
- ✓ Attend MMIRA webinars
- ✓ Host a MMIRA webinar
- √Give a MMR keynote



All these are possible and MORE...

- √ Teach MMR course
- ✓ Teach MMR workshop
- ✓ Host a MMIRA regional conference
- ✓ Create a MMIRA chapter
- ✓ Establish a MMIRA affiliate
- ✓ Join MMIRA
- ✓ Join the MMIRA
 - executive board

WE ARE INDIVIDUALS PART OF A COMMON MMR MOVEMENT...



MMIRA Regional Conference in 2017:

Jamaica, US, Indonesia, South Africa, & Japan

MMIRA Global Conferences: US (2014), UK (2016), Austria (2018)

WHERE CAN YOU LEARN MORE ABOUT MMR?

- AS A MMIRA (MIXED METHODS INTERNATIONAL RESEARCH ASSOCIATION) MEMBER YOU HAVE ACCESS TO:
 - MEMBERS-ONLY RESOURCES
 - 10% MMIRA CONFERENCE FEE REDUCTIONS
 - LISTS OF UPCOMING TRAINING
 - FREE MMR MONTHLY WEBINARS
 - AND MUCH MORE!
- WE ARE CONSTANTLY ADAPTING TO THE CHANGING NEEDS OF OUR MEMBERS.
- VISIT OUR WEBSITE AND BECOME A MEMBER TODAY! http://mmira.wildapricot.org/admin/

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2018 MMIRA INTERNATIONAL CONFERENCE HOSTED BY THE UNIVERSITY OF VIENNA, AUSTRIA 22-25 AUGUST 2018



- HTTPS://MMIRA2018.UNIVIE.AC.AT
- CALL FOR PROPOSALS:
- AVAILABLE NOW! AND DUE DECEMBER 31, 2017
- CONFERENCE CHAIR: DR. JUDITH SCHOONENBOOM
- JUDITH.SCHOONENBOOM@UNIVIE.AC.AT





Our Workshops – from least to most advanced (approximately)

(Workshops are still subject to change)

- Vicki Plano Clark and Peggy Shannon-Baker, Navigating Mixed Methods Research: Connecting the Field of Mixed Methods to Your Research Practices
- Elizabeth Creamer, Fully Integrated Mixed Method Research Approaches
- Sharlene Hesse-Biber, Qualitative Approaches to Mixed Methods
 Research Inquiry: Design & Analysis
- Donna Mertens, Mixed Methods Design as a Tool to Enhance Social Justice
- Nataliya Ivankova and Ivan Herbey, Using Mixed Methods with Community-Based Participatory Action Research to Facilitate a Meaningful Change
- Udo Kuckartz, Mixed Methods Data Analysis with MAXQDA (Featuring Joint Displays)
- Pat Bazeley, Integrating Mixed Methods Analyses
- . Mike Fetters, Meet the Editor of the Journal of Mixed Methods Research
- Jennifer Greene, Meeting the Challenges of "Voice" in Writing up the Results of Mixed Methods Social Inquiry
- · John Creswell, [Title to be announced]
- Kathy Collins and Cheryl Poth, An Integrated Approach to Designing a Mixed Methods Research Course: Applicable for Face-to-Face and Online Settings
- Judith Schoonenboom and Burke Johnson, Causation in Mixed Methods Research
- · Floryt van Wesel, Conducting a Mixed Studies Review
- Tony Onwuegbuzie and John Hitchcock, Advanced Mixed Analyses





Third Global Conference of the

Mixed Methods International Research Association



Gaining New Ground: Deepening and Expanding the Field of Mixed Methods

August 22-24, 2018: Conference

August 24-25, 2018: Post-conference workshops

University of Vienna, Department of Education

Location: Juridicum, Schottenbastei, Vienna, Austria

IMPORTANT DATES

August 2017	Submission system open
December 31, 2017	Abstract submission deadline
January 2018	Conference registration open
April 30, 2018	Deadline early bird registration
May 31, 2018	Deadline presenter registration deadline

More information: mmira2018.ac.at & mmira2018@univie.ac.at





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Our key note speakers

Professor Nancy Cartwright is a methodologist/philosopher of science working at Durham University in the UK and the University of California at San Diego in the USA. She has done research on modelling in the natural and social sciences, causal inference, objectivity and, most recently, evidence, especially for evidence-based policy. She has co-authored two books on evidence-based policy, one of which is on general topics, including the need for mixed methods research, the second of which is directed towards child protection practitioners, as well as a number of more philosophical monographs, including two on causation and causal inference.

Professor Burke Johnson is a professor in the Department of Counseling and Instructional Sciences at the University of South Alabama. He is currently an Associate Editor of the International Journal of Multiple Research Approaches. Burke is first author of Educational Research: Quantitative, Qualitative, and Mixed Approaches (Sage, 2017, 5th edition); second author of The SAGE Dictionary of Statistics and Methodology (2015); coeditor (with Sharlene Hesse-Biber) of The Oxford Handbook of Multimethod and Mixed Methods Research Inquiry (2015); Burke's current interests are in advances in mixed methodology and the history and philosophy of social science.

Dr Barbara Soukup is an Austrian Science Fund sponsored Elise-Richter Research Fellow at the University of Vienna English Department. A central theme in Soukup's work is the strategic, agentive use of linguistic variation (the various styles/ dialects/ languages available to speakers) for purposes of rhetorical goals and interactional meaning-making. Soukup's publications have straddled the concomitant divides by applying a mixed-methods rationale to her research. She currently explores the patterns of occurrence and interactional functions of "English in the Linguistic Landscape of Vienna, Austria" in a large-scale project of the same name, financed by the Austrian Science Fund (Project Nr. V 394-G23).





Your contribution

Everyone, whatever their current experience in mixed methods research is coridally invited to provide a contribution tot he conference. Submit your abstract at mmira2018.ac.at in one of the following formats. All sessions have a duration of 1.5 hour.

Individual presentation sessions

Paper presentation. A traditional paper presentation session, including 10 minutes for a discussant, and 20 minutes for discussion.

Round table paper. Traditional round table session with 20 minutes per presentation, including questions

Poster presentation. Poster presentations will be held during designated coffee and lunch breaks.

Sessions

Symposium session. Paper presentations about one theme, invited by the symposium organizer.

Panel session. Exploration of an issue in depth by panelists and audience.

Research design forum. Questions on their research design are submitted beforehand by researchers and discussed by experts.

Mentoring session (upon invitation only). Novice researchers can meet, greet, and question experts on specific mixed methods topics.

Demonstrations

How-to session. One expert explains one "how-to" topic in detail. E.g., "how to publish mixed methods research."

Research tool demonstration. A specific computer or other tool is demonstrated in depth. Examples include demonstration of a specific type of visualization or a tool for social network analysis.





USEFUL REFERENCES

- DECUIR-GUNBY, J., T., & SCHUTZ, P. A. (2017). DEVELOPING A MIXED METHODS PROPOSAL: A
 PRACTICAL GUIDE FOR BEGINNING RESEARCHERS. THOUSAND OAKS, SAGE.
- LEWIN, R. (1999). COMPLEXITY: LIFE AT THE EDGE OF CHAOS. CHICAGO, IL: UNIVERSITY OF CHICAGO PRESS
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- PLANO CLARK, V. L., & IVANKOVA, N. V. (2016). MIXED METHODS RESEARCH: A GUIDE TO THE FIELD, THOUSAND OAKS, CA: SAGE