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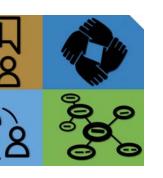
Ripple Effects Mapping: A participatory method to document program and community impacts

2022 Alaska Indigenous Research Program

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A DIFFERENCE IN MINNESOTA: ENVIRONMENT + FOOD & AGRICULTURE + COMMUNITIES + FAMILIES + YOUTH



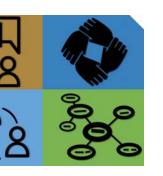
Overview

- Background
- Steps in the process
 - Planning and recruiting
 - Facilitation and mind mapping
 - Data analysis
 - Reporting strategies
- Benefits and limitations of REM



Ripple Effects Mapping

- Purpose to better understand intended and unintended results of a program, intervention or collaborative for individuals, groups, sectors or communities.
- Can be post-program (more summative) or midprogram (more developmental)

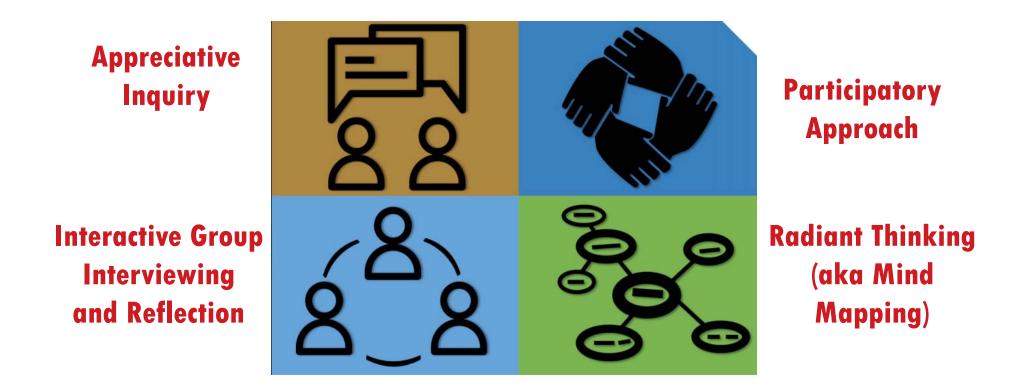


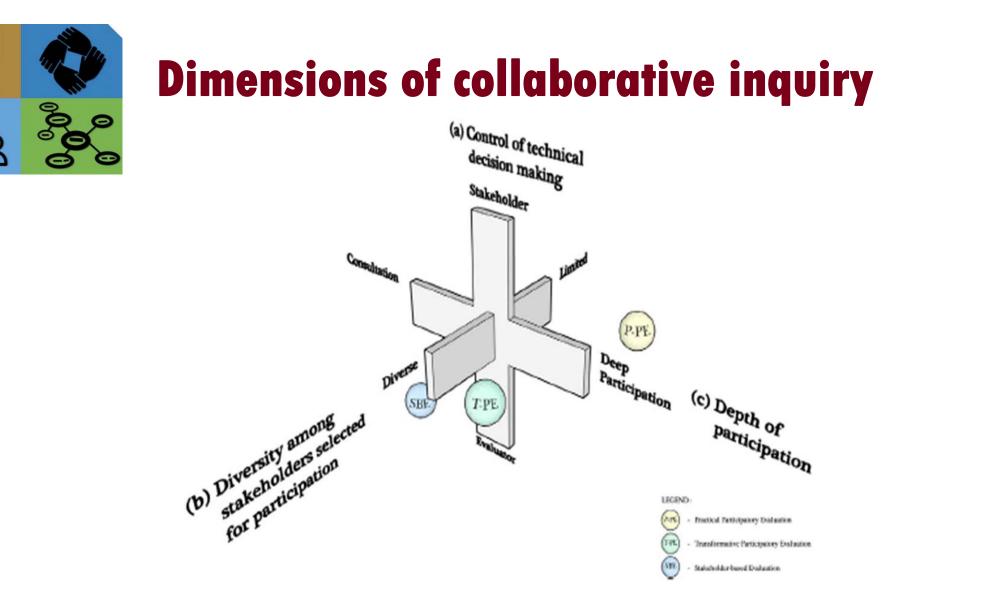
Intended and unintended impacts

- People do not act in isolation -- strengthened social capital is a necessary pre-condition for other impacts
- In other words, "change flows along the lines of relationship" (Allen and Cherrey, 2000)
- Other impacts may occur that were not foreseen in program theory

Allen, K. E. and Cherrey, C. (2000). *Systemic leadership: Enriching the meaning of our work.* Lanham, Maryland: University Press of America.

The core ingredients of REM





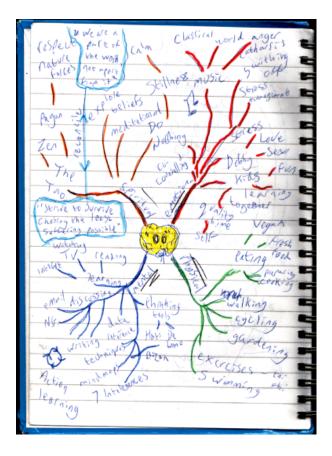
From Cousins, J.B., Whitmore, E., & Shula, L. (2014). Let there be light. *American Journal of Evaluation*, 35(1), 149-153.



Mind mapping = "radiant thinking"

Pictorial method used for:

- Note taking
- Brainstorming
- Organizing
- Problem solving
- Evaluation



For more on mind mapping, see Buzan, T. (2003). *The mind map book*. London: BBC Books.

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Image: Mindmap, Graham Burnett, http://en.wikipedia.org/wiki/File:Mindmap.gif



- Identify the intervention
- Schedule the event and invite participants
- Convene group mapping session
- Conduct follow-up interviews
- Cleaning, Coding, Analysis
- Reporting





Identify the intervention

- High engagement program or position
- Cross-sector initiative
- Collaboration

Invite stakeholder group

- Participants
- Non-participant stakeholders
- 12 to 20 participants
- Two moderators

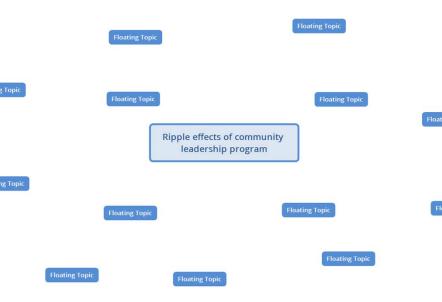


Appreciative inquiry interview

- Conducted among pairs of participants
- Examples of questions:
 - What is a highlight, achievement, or success from your participation in the program?
 - What new or deepened connections with others have you made as a result of your involvement with the program? What did these connections lead to?
 - What unexpected things happened as a result of your participation in the program?



- On wall with sticky notes or a sticky wall or using mind mapping software with data projector
- Floating topics generated from Appreciative Inquiry





Building the map

Theming

- Work with group to identify which items are closely related
- Work with group to generate theme names
- Floating topics moved and organized

Rippling

- Group cross-validation
- Potential for probing using relevant framework

| FIGURE II.4 | Ripple effect cha | in, modified to | include more sta | kehol |
|--|---|--|---|--------------------------------|
| Less trash near community gardens | Community youth also volunteer to clean up trash weekly | Community youth engaged in the actual painting | Trash cans in community gardens artistically painted | Con ar art com gar |



Examples of contexts where REM has been a great fit

- Community gardening
- Community leadership development
- Tribal opioid prevention program with youth
- Arts-based community development
- Community-based public health programs



Demonstration of mind mapping interview results

- Capturing interview insights as "floating topics"
- Generating themes
- Generating ripple effect chains
- Discussing challenges
- Tips for using the software



- Two virtual sessions, one or two weeks apart
- First session paired Appreciative Inquiry interviews
- Use online software "breakout room" capacity
- Use Google Form to capture interview data



- Between sessions, create draft mind map with themes (less participatory)
- Second session share screen with draft mind map
- Edit/change themes
- Add detail for ripple effect chains



Ripple effects map examples

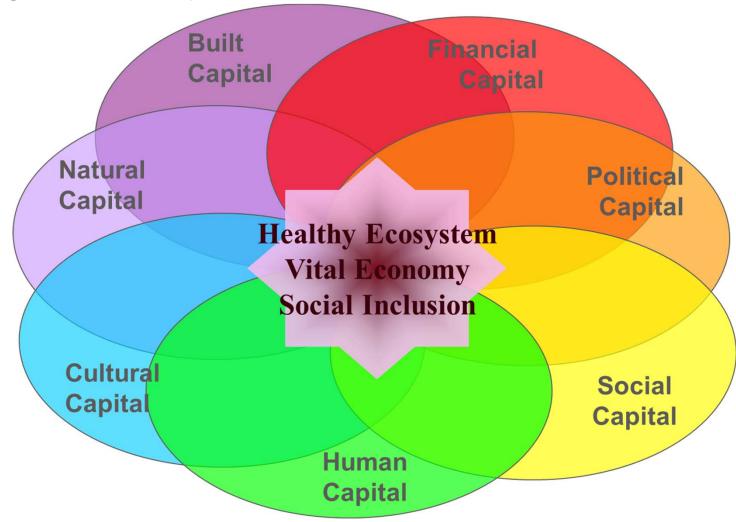


Cleaning, coding & analysis

- Organize map to better identify pathways or combine pathways
- Download data to Excel for coding
- Code using relevant thematic framework and type of outcome
- Follow-up interviews if more clarity is needed

The Community Capitals Framework

(Emery and Flora, 2008)



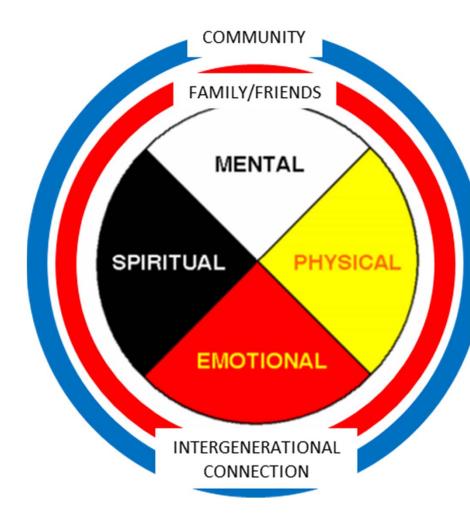
Three approaches

| | Web mapping | In-depth rippling | Theming and rippling |
|--------------------------|---|---|---|
| se of Community Capitals | Used in the mapping process | Used to analyze data after the group session | Used to analyze data after the group session |
| ore focus of group time | Develop a deep and rich visualization of the causal chains that led to impacts, with an understanding of how impacts in one capital influence changes in the other capitals. | Develop a deep and rich visualization of the causal chains of events that led to impacts. | Develop a broad understanding of core impact themes as well as some visualization of causal chains of events that led to impacts. |
| ow of session | 1. Appreciative Inquiry 2. Reporting and mapping onto capitals framework of short term , medium term, and long term outcomes | Appreciative Inquiry Reporting and rippling discussion | 1. Appreciative Inquiry 2. Reporting 3. Theming 4. Ripple discussion 5. Negative effects discussion |
| ata analysis | Quantify the number of assets developed by capital. | Coding of data based on CCF Quantify the number of assets developed by capital | Coding of data based on CCF Quantify the number of assets developed by capital |
| se of technology | Ripple map is captured on butcher paper and later typed into mind mapping software | Ripple map is captured on butcher paper and later typed into mind mapping software | Ripple map is typed directly into mind mapping software and project on screen |

Emery, M., Higgins, L., Chazdon, S., and Hansen, D. (2015). Using Ripple Effect Mapping to evaluate program impact: Choosing or combining the methods that work best for you. *Journal of Extension 53*(2).

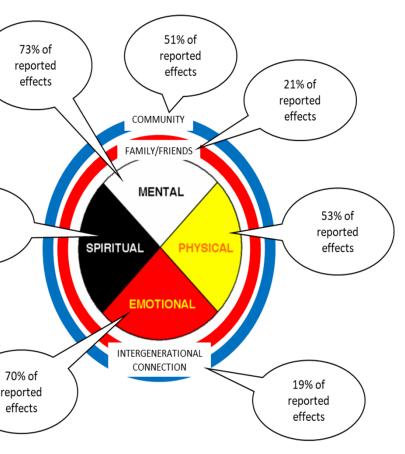
oding the map with a edicine wheel amework

aluators working with indigenous nmunities have explored using the dicine wheel to guide evaluation sign and reporting. As applied to aluation, the medicine wheel elebrates both the diversity and unity our spiritual, mental, physical, and otional experiences.



| 6 | | | Aspects of well-being | | | Contexts of well-being | | | | | |
|-------------------|-----------------------|------------------------------|-------------------------|---|---|--|--|------------------------|-----------------|-----------|-------------------|
| Ripple effects of | f the RHSE grant | | | Spiritual (Reflection, dignity, beliefs and values, openness, solidarity, connection) | Mental/Intellectual (knowledge, awareness, outlook, leadership perspective, understanding) | Physical (health, action, participation, hands-on skills) | Emotional (relationship building, empowerment, confidence, acceptance, appreciation, cooperation, struggle, ambition) | Intergenerational | Friends/Family | Community | Counted as effect |
| | Strengthening a sense | e of community | | | | | | | , | , | |
| | | per relationships - stronge | r sense of belonging | | | | | | | | |
| | 200 | | g for about 12 - 15 pe | | 1 | | 1 | | | 1 | |
| | | | | | | at there will be so | me follow up when | they get feedback from | n the training. | | |
| | | Strengthened | 4 | (A) | Has stay connected w | | | | 1 | | |
| | | | some of the relatior | | 1 | | 1 | | | 1 | |
| | | | | | ective with the kids. Ge | e 1 | | | | | |
| | | There were s | | | re involved with the ca | | 1 | | 1 | 1 | |
| | | | y department, comm | | | | 1 | 1 | | 1 | |
| | | | Felt a greater se | | | | | | | | 1 |
| | | I have met so | me people I didn't kr | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | This led to new fi | iends, more con | 1 | | 1 | | | 1 | 1 |
| | | The new con | nections was getting | to know more pe | ople in the community | . Had scattered re | 1 | 1 | | 1 | 1 |
| | | Didn't enter in | nto this expecting per | sonal relationshi | ps was a major unexp | ected. Her husba | 1 | | 1 | | 1 |
| | | I don't just wa | ant to put my kids in a | program, I'm pa | 1 | | 1 | | | 1 | 1 |
| | | Especially du | ring the pandemic, th | is project helped | d us connect with peop | ole who might not | 1 | | | 1 | 1 |
| | New | relationships | | | | | | | | | 0 |
| | | Meeting new | people and seeing n | ew people every | day. It has been good | 1 | 1 | | | | 1 |
| | | Made about f | ive new friends doing | RHSE. | | | | | 1 | | 1 |
| | | Every connect | tion I made was pret | ty much new. I'm | 1 | | | | | | 1 |
| | | | So I do yoga with | the kids, and al | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | I work in the | community, so there | are kids that are | living the community b | out go to surround | 1 | 1 | | 1 | 1 |
| | | | summer camp mad | | - | | | 1 | | 1 | 1 |
| | | | isolated and was a | | | | 1 | 1 | | 1 | 1 |
| | Conr | necting with staff and colle | | | | | | | | | 0 |
| | | | some better connect | ions with Fond F | u Lac natural resource | 4 1 | 1 | | | 1 | 1 |

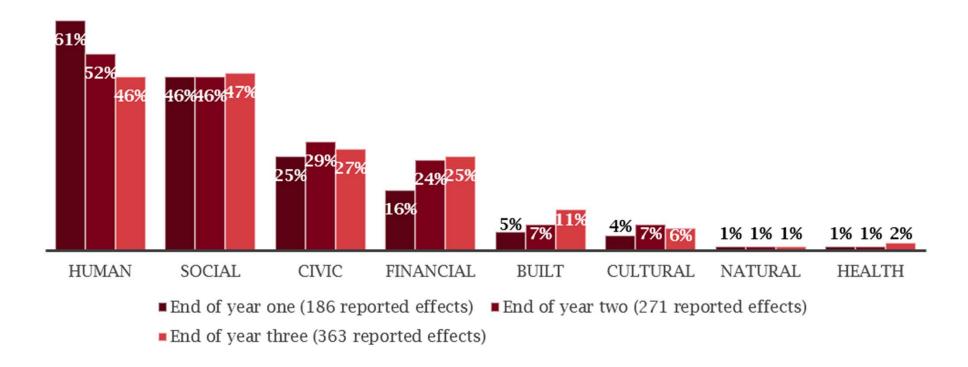
ng the map with a icine wheel



| | | Number of reported effects | Percentage of 70 reported effects | Illustrative examples |
|---|-------------------|-------------------------------------|--|---|
| Aspects of well- being | Mental | 51 | 72.9% | [The talking circle] was a learning experience for everyone. It was some we can build on and learn how to gro use the circle as a tool with zoom and our community as well as in person. |
| | Emotional | 49 | 70.0% | It made my heart happy every time I participated in an activity and the folk were there. It's a really fun group to w with. I always left feeling like I got mo from the group than I gave. |
| | Physical | 37 | 52.9% | Camp activities helped her with being resilient. She had a hard time when th the high ropes course the first time b second time she was able to do it rea well. |
| | Spiritual | 27 | 38.6% | Mindfulness and staying present are core principles in our culture. |
| Social contexts that support well- being | Community | 36 | 51.4% | Had scattered relationships and this allowed to link more relationships tog Lead to more jointed conversations. A connect daughter to the community |
| | Friends/ family | 15 | 21.4% | My daughter is always teaching me the She's a very deep thinker. She gets me focus. I've seen some excellent copin come out of the different opportunities she's exposed to. |
| | Intergenerational | 13 | 18.6% | I did workshops and I was able to me more people who I now connect with Facebook, pow wows and done more with. It has broadened my community Mostly adults but some of the youth since my granddaughter was in the c |



Changing proportions of REV community accomplishments from year one through year three (Combined results across communities²)



Eight principles of the East Side Community Health and Well-Being Collaborative

| Effectiveness principles | Number of effects counted by coding team | Percent of total counted effects (N=125) | Examples of reported effects |
|---|--|--|---|
| Design for complexity (cultural diversity) | 59 | 47.2% | Cultural brokers developed out of mental health and resiliency working group. |
| Put relationships first | 53 | 42.4% | I have been able to connect with many other people in different agencies with whom we share the common goc of improving the community's well being |
| Actualize equity in health and well- being | 48 | 38.4% | CLUES, KOM, and Wilder ask us to be more involved in the community events. They host events to provide dental care and have created a space where we can make deeper connections |
| Co-create (non-hierarchical decision making) | 43 | 34.4% | Being involved in meal kit program, in collaboration with CLUES. Seeing how families are happier while preparing the meal kits at home. They were enthusiastic sometimes they would text pictures of the food. Wonderful to be part of this. |
| Neighborhood-based approach | 41 | 32.8% | Decreased social isolation among East side organizations. You start building relationships and you end up going places you've never been. |
| Use strengths-based approach | 40 | 32.0% | Increased connection among patients and community members through classes, tastings, and community celebrations |
| Respect autonomy | 33 | 26.4% | I have a much deeper and broader understanding of the great community work ongoing on the East side as done by all the partner organizations |
| Design for sustainability | 33 | 26.4% | Because of the community dialogue with Hmong community members, learned that the community wanted spaces that worked for them. Hmong American Partnership (HAP) decided for the first time ever to host their own national Night Out celebration. |

Providing access to garden knowledge

As relationships and trust grew, they shared their knowledge and resources with community members--informally and formally, in backyards and community gardens. Now Master Gardeners are seen as a resource for garden knowledge and are sought to assist with community projects.

"Master Gardeners worked through the Peace Garden to bring plants and suggestions to other neighborhood gardens."

"Together with PPL, the strategy is to work with kids living in PPL properties to reach the adults."

"We have requested a train-the-trainer program from Master Gardeners."

"We leveraged access to Master Gardeners to get a hoop house (for Gordon Park High School.)."

Promoting broader community activism

Gardens create a space and opportunity for community organizing on broader issues. Community members and Master Gardeners cited greater awareness of social justice issues that link gardening with community action.

"Urban farming connected us back to our environment. If our soil isn't healthy, then everything else isn't going to be healthy."

"He thought everyone gardened, but once he connected he saw a NEED for community gardeners. He became a voice with Summit-University planning committee (and became a Master Gardener)."

Changing how universities engage with the community

Stronger, trusting relationships make it possible to have dialog about perceptions and difficult issues. Doing so starts to address barriers that keep people from engaging with programs, institutions, and communities. It is cause for examining how institutions structure programs, relate to individuals, and execute projects. This often means adapting to better meet the community.

"Diversity isn't just having people of color engaged, it is having people of color in leadership roles...."

"We tried to take University rules and make exceptions to do better work in the community"

Nurturing teaching and learning

After trusting relationships formed, community m started to ask for garden information. As a result, Gardeners now teach and assist, directly or indire over ten garden programs in the neighborhood.

"We're helping in the Peace Garden, teaching the k grow and eat vegetables."

"T've learned how to compost, how to grow my own

Creating economic opportunities

Community members said the gardens fostere economic benefits, an unexpected 'ripple' that resulted from the relationships and networks to developed.

"Access to free produce increases the ability to families, friends and neighbors."

"Providing economic alternatives for youth"

Preserving and creating green spac

As relationships developed, Master Gardeneradded to the community's own energy for crepreserving green spaces in the city. The comm has gone on to create some large-scale, openrains.

"I'm proud of our acquisition of Frogtown Park a good investment not centered around crime an

"People are starting to think about how to look a as more than just a space for businesses!"

Strengthening relationships

With the help and guidance of a community liaison, Extensio Gardeners developed relationships founded on mutual learn respect for the knowledge already held in the community. Th just being present. Over time, being together in the gardens, and 'showing up' led to strong connections and meaningful i

"The first year Master Gardeners just needed to learn to be present."

Community Gardening Efforts



ifographics

Hastings, MN Tourism Assessment: key themes and impacts

Changing perceptions of tourism

"Being involved really changed my outlook that tourism is an important piece...we need to work together to attract people and use this as an economic driver."

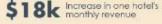


Growing new leadership

"[Getting involved] has grown my appreciation for a lot of the great things in Hastings and made me want to spread the word."

Increasing tangible investment

People are building more connections with small and local businesses and spending their money to keep them going instead of going to the large businesses outside Hastings."



\$7k Increase in annual lodging tax revenue

Enhancing assets and increasing engagement

"People are actually going down and hanging out by the river. Families have picnics, people walk their dogs, ride their bikes, and play with their kids. It used to be a ghost town."

Increasing collaboration

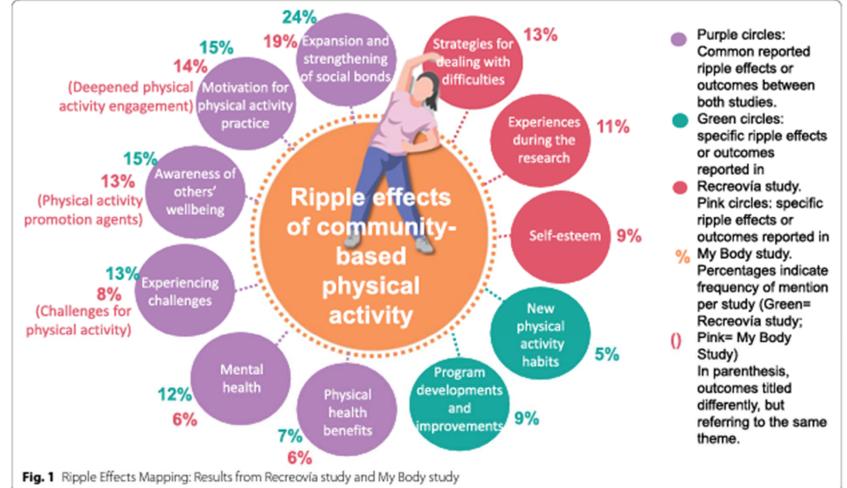
"More people are stepping up...you can come with your idea and people will work to make it happen. This has resulted in successful projects."

Stronger marketing

The increase [in visitor guide requests] from last year is over 65%, not just from the Twin Cilies but all over the country."

65%

nfographics



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n Colombia. BMC nublic health, 22(1), 1-15.

Ripple Effects of the RHSE Grant

In August 2020, the Fond du Lac Tribal Extension Program held a virtual Ripple Effects Mapping (REM) evaluation of the RHSE grant. The REM process engaged parents, youth participants, program instructors, staff, and other community members to reflect on their experiences with the RHSE Grant. These core themes emerged from the process.

Strengthening a sense of community

Participants described a sense of deepening relationships they already had, weaving together scattered relationships into a tighter web, feeling more able to connect to the broader community.

I didn't enter into this expecting personal relationships - this was a major unexpected result. My husband built personal relationships too. The impact was on the whole family.

Planting seeds of hopefulness

There was a sense of hopefulness and possibility in many of the comments. Parents were impressed at how eager the kids were to participate and become engaged.

It was surprising how much the youth liked the yoga. All of it had value with the camp and workshops.

Reclaiming our culture and creating a sense of well-being

Many participants highlighted the ways that grant efforts were strengthening their connections to Ojibwe language and cultural teachings.

> I'm now in touch with the head of pharmacy program at UMD and learning about their medicinal program and reclaiming medicinal plants. It's sad that it takes so much to reclaim our culture but we're moving there.

Learning and applying healthy coping skills

Self defense activities, yoga classes, and lacrosse games helped youth tune in to their emotions, calm their nerves, and become more open to wisdom of others.

We did different circles about different themes, how to fill your bucket and fill other people's buckets. It takes time and it doesn't happen over night, but we try to take a look at different things we can do. Different ways to look at things and different perspectives.



Gaining confidence in positive leadership skills

A consistent theme about youth experience in the grant was their increased confidence. A staff member thought that exposing kids who are not natural leaders to other kids who have more leadership traits had an impact.

> The ropes course was a great experience because some kids that spoke were sometimes not the ones that normally spoke. It was an experience where everyone had to pull together to be a success.

Opportunities moving forward

The group discussed challenges they faced during the grant process that were really opportunities to make adjustments in future programming.

It would help to have different age groups do this activity. Developmentally, the topics that come up for different ages are different. The younger kids didn't want to share with older kids. They don't want to share something they might get teased about. **Building safe space to learn from and support each other.** DCoP members feel supported by in their efforts in the group to strengthen equity and diversity efforts in their own departments. One participant noted that "if you are in a unit at an earlier stage of this work, DCoP provides scaffolding up to do more and better." Another participant noted that the group has created a safe space for difficult conversations about racism and other forms of injustice. Powerfully, another member wrote that "I really feel like I am part of a community at the U now."

| | 0 11 0 | up for our school's equity, diversity & meaningful ways rather than any grand | | | | |
|--|---|---|--|--|--|--|
| | Community building with others that do similar work around campus | | | | | |
| | A space at the University where I am with like-minded people. I don't have to censor myself. | | | | | |
| | This experience has provided me a space to share what we are doing and to learn from others. It has also contributed to credibility of doing equity work. | | | | | |
| | It has been helpful to see who other allies are, especially within my college. isolated. Before joining the DCoP I wasn't sure who this work in my college. This has led to me isolated. | | | | | |
| Building safe space to learn from and support each other | They have led to more intimate discussions and safe place to ask questions when I am not sure. Those deepened relationships create more trust through the system. | | | | | |
| | I felt understood, supported and more confident and comfortable talking about it in my work place. I made similar connections at work and built my own community of advocates there. | | | | | |
| | I really feel like I am part of a community at the U now. | | | | | |
| | Being included in one break out session of Keeping our Faculty conference and linked with others working on behalf of diversity on campus and beyond | | | | | |
| | People to reach out to for advice on diversity, equity, and inclusion topics and collaborate on initiatives | | | | | |
| | If you are in a unit at an earlier stage of this work, dcop provides scaffolding up to do more and better. I find this inspiring and motivating. $^{\odot}$ | Helpful to see different units at different stages. | | | | |



Skill Set Needed

- Facilitation/group process skills
- Interviewing and probing
- Technology and typing (if you're gonna do live capture)
- Qualitative analysis
- Commitment to participatory evaluation



Benefits and Limitations

Benefits

- Simple and cheap tool
- Captures impacts of complex or evolving work
- Participatory and appreciative approach that engages stakeholders
- Group validation of results

Limitations

- Risk of bias in participant selection and data collection
- Participants may not have complete information about a program or program outcomes
- Potential for inconsistency in implementation



- Use same facilitator, recorder and "mapper"
- Develop a facilitator guide with ideas for probes.
- Make decision prior to mapping whether to use a preexisting framework as probes during group interviews
- May need to recognize that one organization isn't trying to take all credit for all change
- It is important to probe for negatives



- Find the right balance between breadth and depth
- Schedule the event along with another activity
- Put much effort into recruitment and explaining the process
- Choose a good setting not too informal
- Use external facilitators, not program staff



- How might you use this?
- What types of programs would be the best fit for this type of evaluation?
- What concerns do you have about this method?

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Thank you!

| | A Field Guide to Ripple Effects Mapping edited by Scott Chazdon, Mary Emery, Debra Hansen, Lorie Higgins, and Rebecca Sero | |
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| A Field Guide to Ripple Effects Mapping Scott Chaston, Mary Emery, Debra Hansen, Lorie Hagens, and Rebecco Serie | Full Text Download (16 MB) <u>Buy a print copy</u> | E |

s://publishing.lib.umn.edu/publication/a-field-guide-to-ripple-effects-mapping/

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