

Co-production &
boundary spanning
in rural Alaska



Practicing Partnership

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Guidance framework for research co-production, regional networking, and capacity building through partnerships

Outline

1. Overview of climate services, co-production, and boundary spanning
2. 'Nuts and bolts' about implementing this type of work
3. Summarizing a guidance framework

Climate Services

Research Co-production

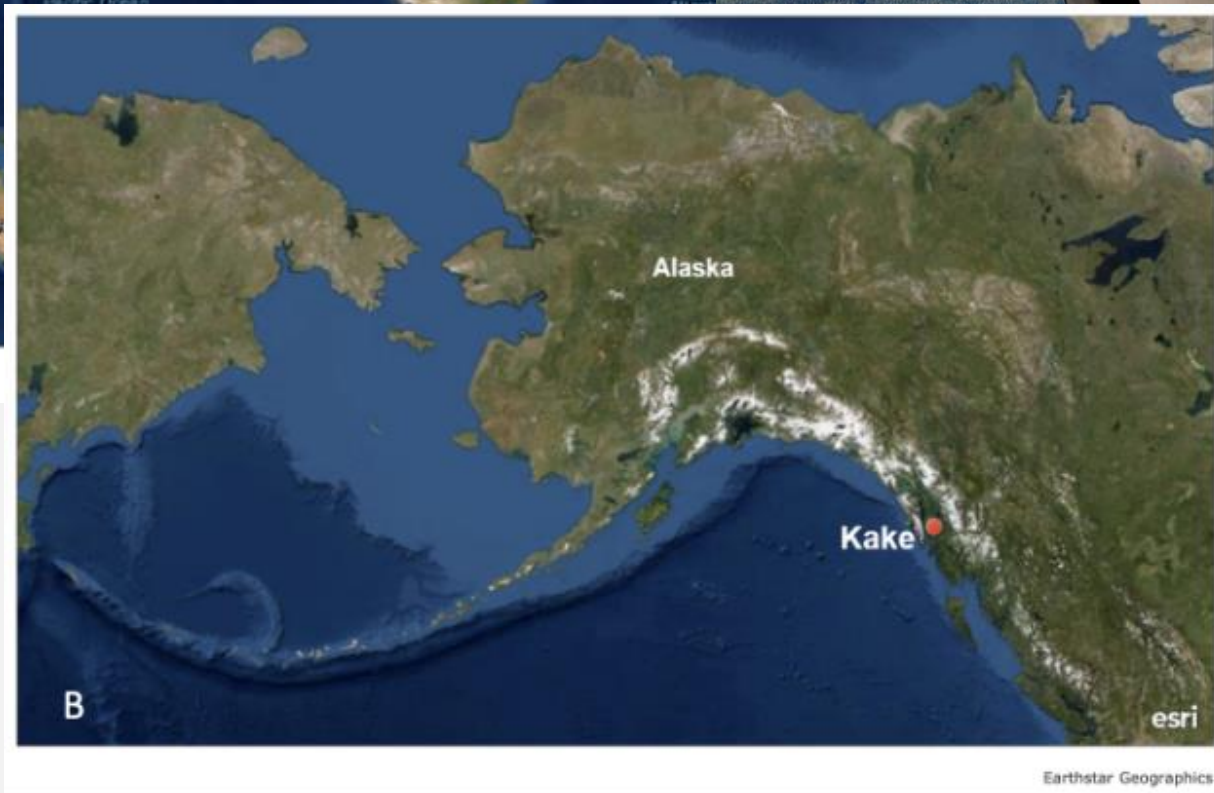
Boundary Spanning



Since January 2020, a partnership between:

- *Organized Village of Kake*
- *Kake Tribal Corporation*
- *City of Kake*
- *Alaska Center for Climate Assessment & Policy, UAF*

Kake, Alaska

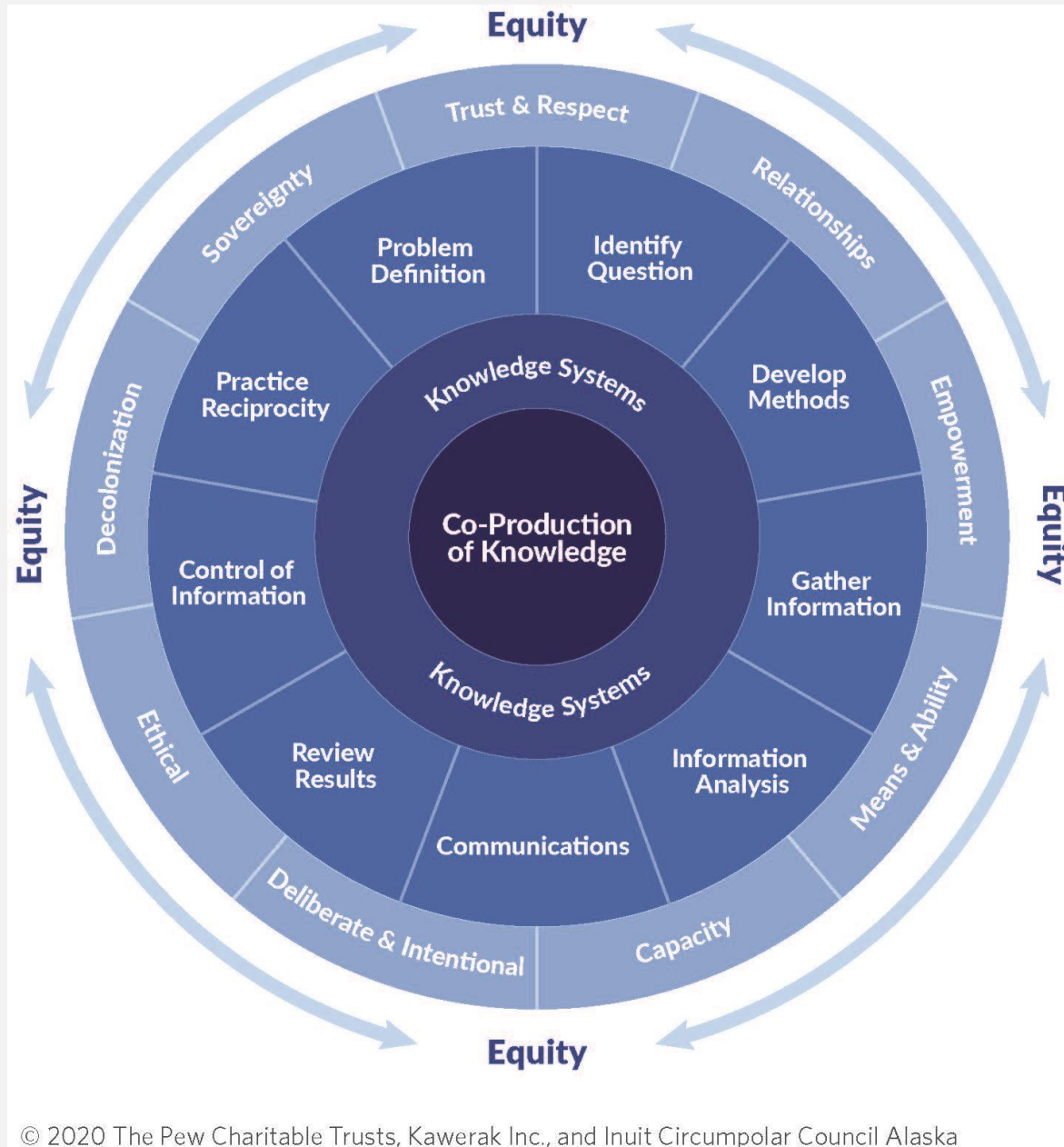


Kake Climate Partnership

- Organized Village of Kake
 - *Federally Recognized Tribe*
- Kake Tribal Corporation
 - *Alaska Native Claims Settlement Act Tribal Corporation*
- City of Kake
 - *Municipal government*
- Alaska Center for Climate Assessment and Policy, UAF
 - *NOAA CAP/RISA*



Co-Production of Knowledge Framework from Yua et al. (2022)



Co-production means being partners from the beginning and at every stage of research

Field Research Focus Areas

- Understanding climate, environment, and pollution
 - Multiple stressors and linkages
- Customary and traditional foods
 - Access to clean and healthy traditional foods
- Food sovereignty
 - Taking control over maintaining healthy natural resources for traditional foods
- Local workforce development



Figus, E., Ki'ye Jackson, B., and S. Trainor, S. 2022. The Kake Climate Partnership: Implementing a Knowledge Co-Production Framework to Provide Climate Services in Southeast Alaska. *Frontiers in Climate*. <https://www.frontiersin.org/articles/10.3389/fclim.2022.885494/full>

Climate Services + Co-production of knowledge



Nuts & Bolts

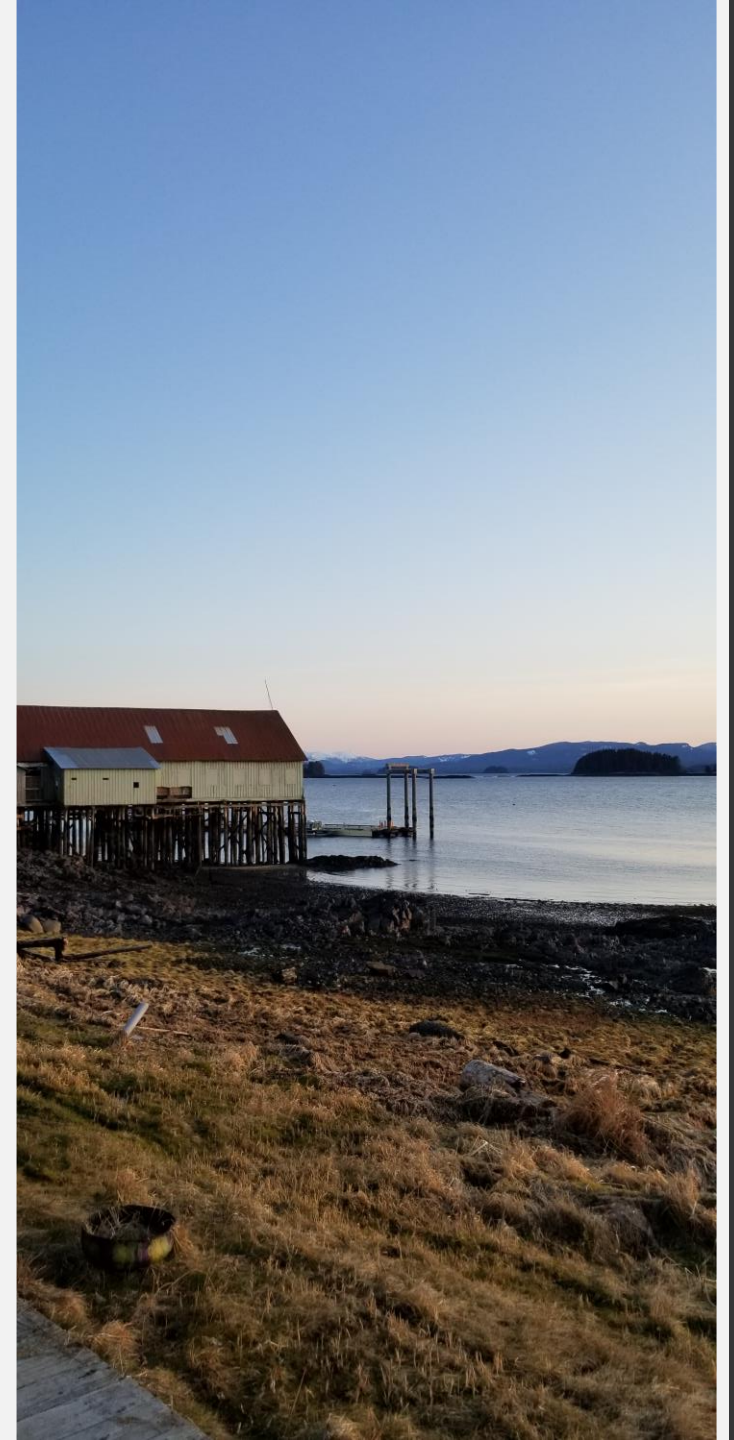
Planning
Funding
Follow Through
Scope

Nuts & Bolts: Planning

- MOU
- MOA
- Principles and Expectations

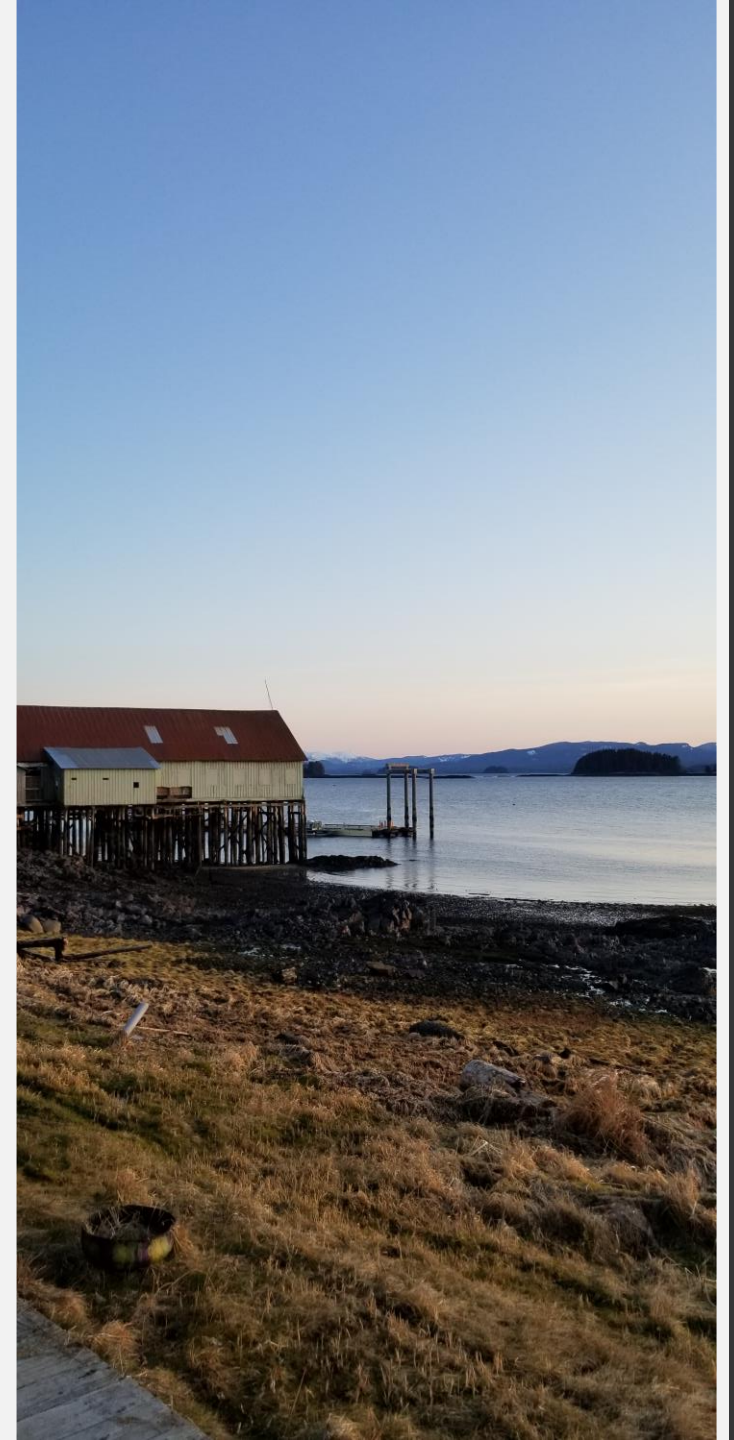
- IRB
- IACUC

- ‘Administranglia’



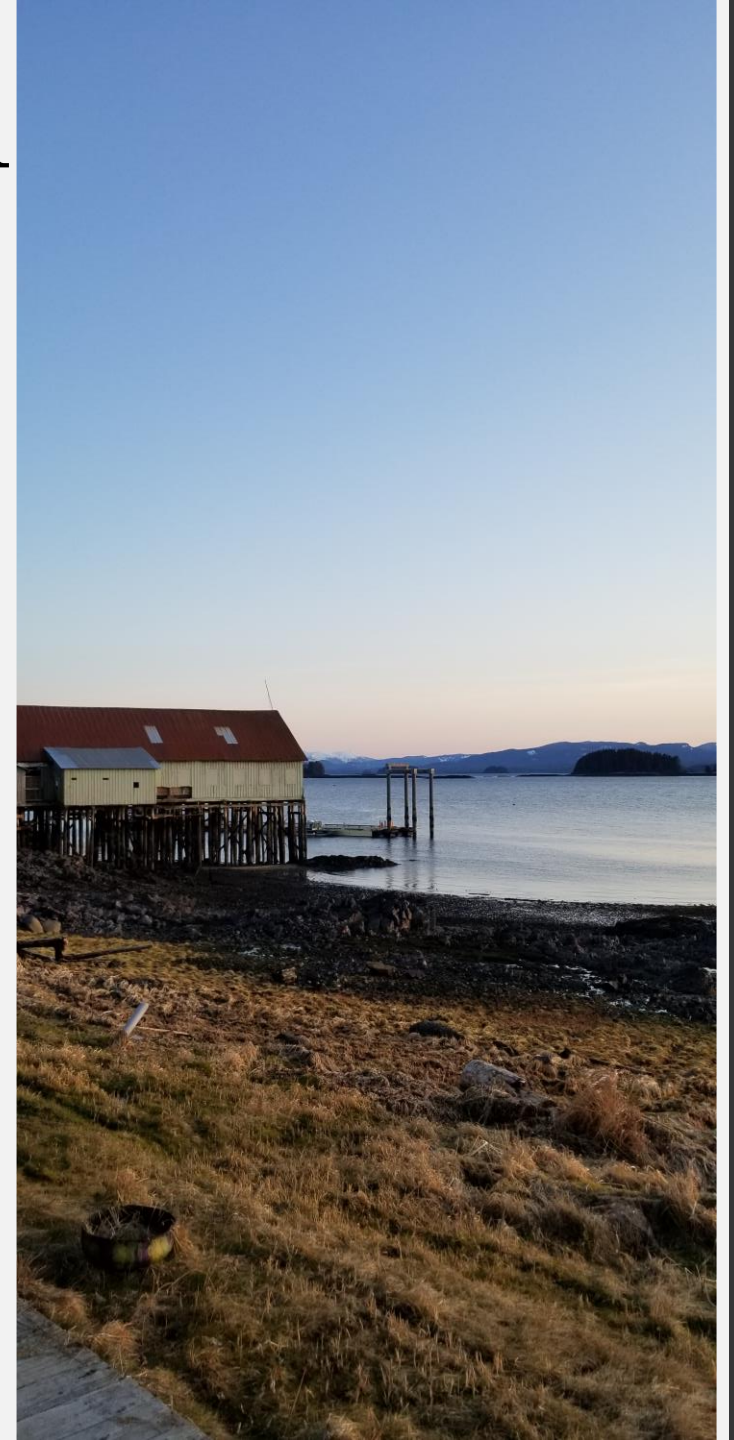
Nuts & Bolts: Funding

- Who will lead/PI grants for the work?
- Subawards versus Logistical Support Contracts
- Small amounts of funding are not necessarily simple for Tribes or community governments to accept
- Honoraria
- Invited travel



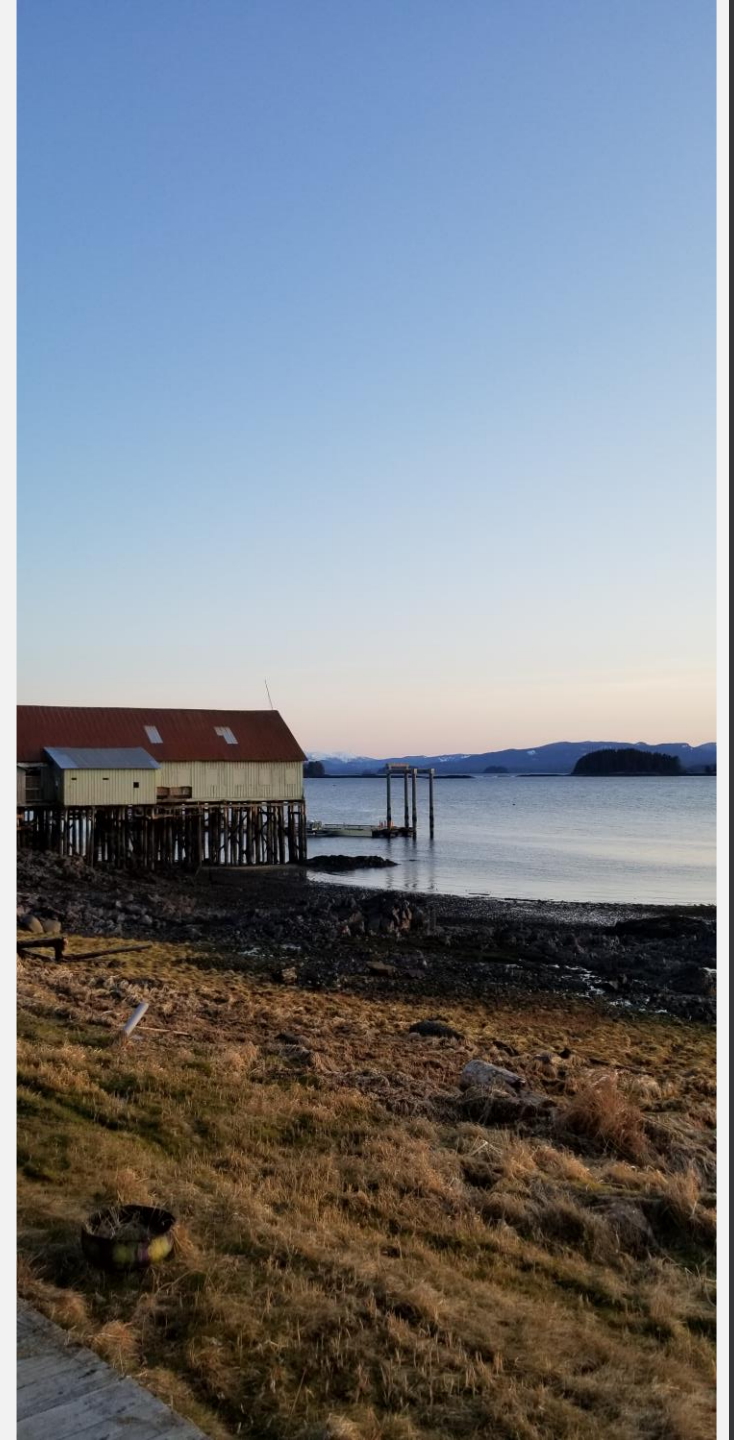
Nuts & Bolts: Follow Through

- In-person meetings
- What does the research/project require?
 - Training?
 - Fieldwork?
 - Analysis?
- Who controls the data?
 - Storage
 - Sharing
 - Publishing
 - Sovereignty
 - Ownership
- How will you evaluate the work?



Nuts & Bolts: Scope

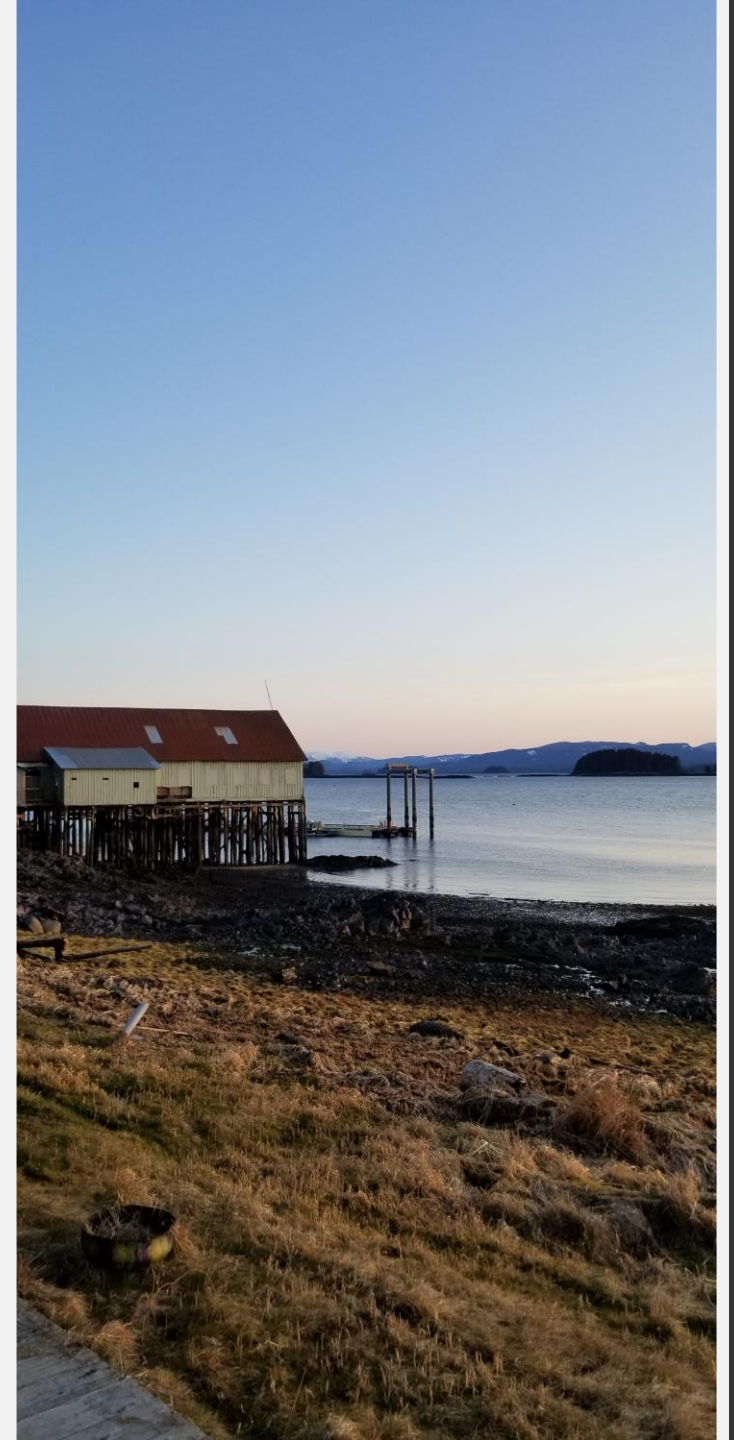
- Importance of scope from the beginning
 - Time: Is this a 1-year, 2-year, or longer project?
 - Capacity: How many people and how much money do you have?
- Closely related to scope are...
 - Training & Mentoring Students
 - Workforce Development



Nuts & Bolts

Examples:

- Funding
- Evaluation



KCP has leveraged funding from...

- NOAA CAP/RISA program
- USGS CASC Program
- Environmental Protection Agency
- First Nations Development Institute
- Newman's Own Foundation
- Environmental Justice Data Fund
- International Arctic Research Center
- United States Department of Agriculture
- Bureau of Indian Affairs Tribal Resilience Program
- Sealaska Heritage Institute STEAM program
- NOAA Hollings Preparation Program
- AFS Hutton Scholars Program
- Alaska Sea Grant Community Change Intern Program
- UAF Undergraduate Research and Scholarly Activity



Evaluation for the KCP

- Completing an evaluation was included in Principles and Expectations document when KCP was formalized in May 2020
- 3 evaluation meetings during 2021-2023, using Indigenous evaluation in line with Ellam Yua co-production methods
 - *LaFrance et al. 2012*
 - *David-Chavez and Gavin 2018*
 - *Waapalaneexkweew and Dodge-Francis 2018*
 - *Kalafatis et al. 2019*



Developing a Guidance Framework

Outline for a Guidance Framework

1. Choose an approach to your jargon anchored in existing methods
2. Planning
3. Funding
4. Follow through
5. Scope
6. The big picture: regional networking and capacity building for a better future



Reflections about KCP work...

- When the climate services process is centered on Tribal and community priorities and locally identified science needs, the climate science aspect becomes just one element in the implementation of a larger local vision and goals.
- Co-production can be used to explicitly define a collective vision among partners that is a transformative way of doing applied climate and environmental science
- The role of the university researcher can shift from focusing on personal research interests to focusing on supporting local needs and priorities



Reflections about KCP work...

- Process that centers community needs can yield...
 - Workforce development
 - Mentorship
 - Healing from intergenerational trauma
- Only through the explicit use of Indigenous evaluation did the KCP partners realize the full transformative potential of the Ellam Yua co-produced research process
 - ...to produce useful and usable climate services and to uncover new understandings of what climate services can be for communities.



Thank you for your attention!

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Resources

- Yua et al. (2022): <https://ecologyandsociety.org/vol27/iss1/art34/>
- Figus et al. (2022): <https://www.frontiersin.org/articles/10.3389/fclim.2022.885494/full>
- Naquin et al. (2019): <https://static1.squarespace.com/static/5672cfb1d82d5e366e753691/t/5dfc077ef8a68c27967cc40c/1576798088266/FINAL+FIELD+GUIDE+reduced.pdf>
- West, J., et al. "Principles of participatory action research (PAR), issues of entrée, and internal review board (IRB) challenges in community/agency/university collaborations." *Journal for Community Engaged Research and Learning Partnerships* 1.1 (2008): 13-26.
- LaFrance et al. (2012): <https://doi.org/10.1002/ev.20027>
- David-Chavez & Gavin (2018): <https://doi.org/10.1088/1748-9326/aaf300>
- Waapalaneexkweew & Dodge-Francis (2018): <https://doi.org/10.1002/ev.20329>
- Kalafatis et al. (2019): <https://doi.org/10.1007/s10584-019-02429-2>



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