

PI-CASC Manager Climate Corps – “collaboration across worldviews”

Who We Are: Manager Climate Corps (MCC)

The Manager Climate Corps (MCC) is a manager-driven research program developed by the Pacific Islands Climate Adaptation Science Center (PI-CASC) and the University of Hawai'i at Hilo that unites graduate students, natural and cultural resource managers, university and federal researchers, community leaders, cultural practitioners, and policy professionals as co-leads in order to develop place-based research output utilized by practitioner networks on the ground to adapt to climate change impacts (1).

Our Foundations

Extensive research in cognitive science has made clear that human behavior is driven by a range of relational and experiential knowledge forms that extend well beyond rational thought and analytical reasoning in isolation. Diverse knowledge forms, such as group norms and values, individual values, emotion, logic, the unconscious, instinct, and intuition, collectively define one's identity or worldview (1, 2, 3, 4). In order to build adaptive, resilient, and sustainable capacities through unprecedented socio-ecological change, our relational research program, therefore, supports long-term, place-based networks (e.g., relationality; 5) through community-driven research in accordance with...

4 Foundational Elements:

- Returning to notions of “community” that are centered within more-than-human relationships sustained through daily experience (6)
- Recognizing and engaging multiple knowledge forms (1)
- Supporting trust by building upon long-term, place-based practitioner relationships (5, 6)
- Employing the process of knowledge co-production (community-driven research)

“Information, in itself, is not knowledge, nor do we become any more knowledgeable through its accumulation. Our knowledgeability consists, rather, in the capacity to situate such information, and understand its meaning within the context of direct perceptual engagements with our environments.” (2)

MCC in Motion: first cohort of manager-driven graduate research projects (2016)



Mulching non-native albizia to support sustainable agricultural practices while mitigating storm impacts



Impacts of climate change and ground water shifts on loko i'a management (traditional Hawaiian fishponds)

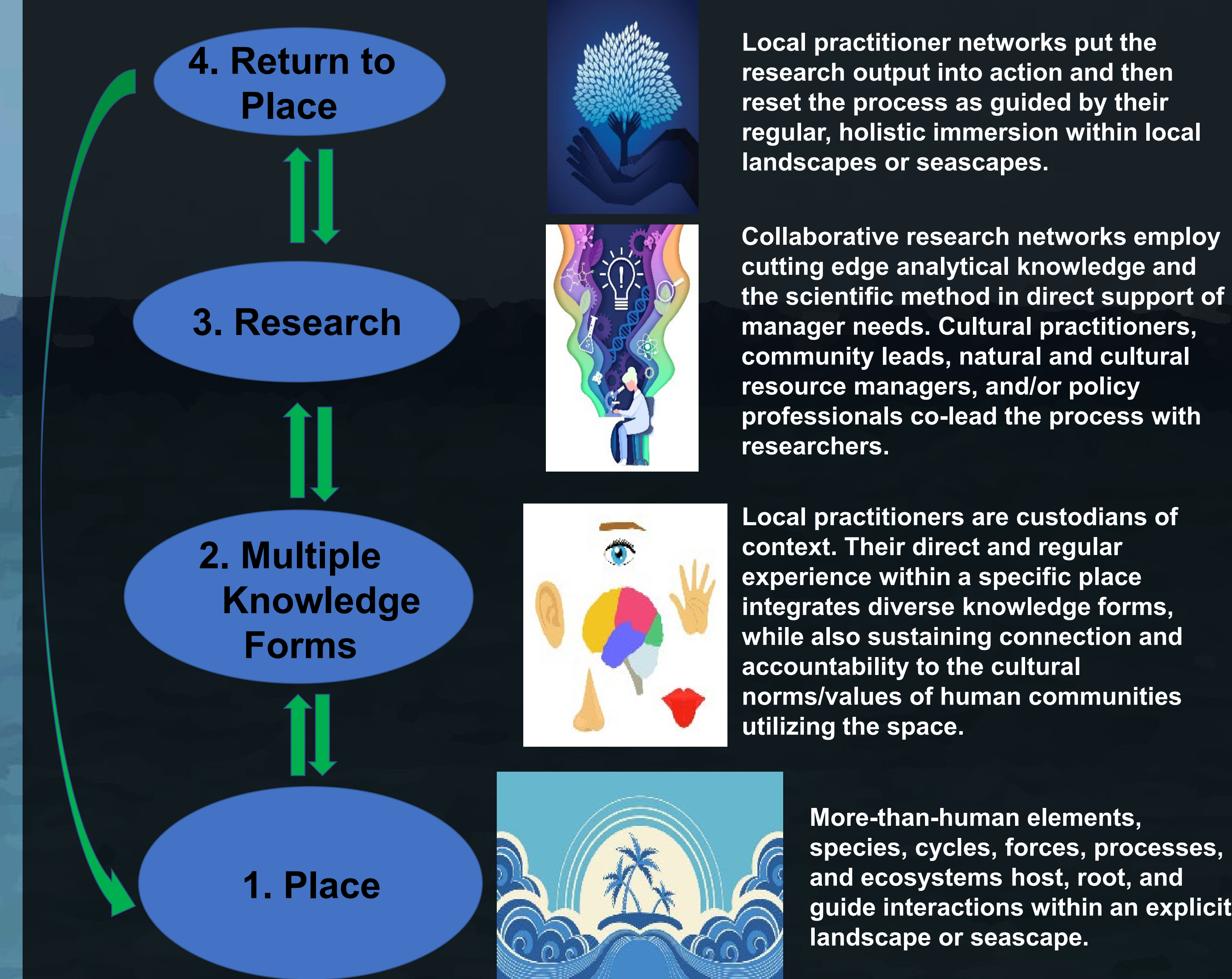


Estimating coastal erosion rates on Hawai'i Island in relation to SLR to inform coastal development setbacks



Climate driven shifts in *Staphylococcus aureus* and MRSA in near shore waters

MCC's Relational Approach: engaging place through the practitioner's experiential lens (5)



References

1. Laursen S, Puniwai N, Genz AS, Nash SAB, Canale LK, and Ziegler-Chong S (2018) Collaboration across worldviews: managers and scientists on Hawai'i Island utilize knowledge coproduction to facilitate climate change adaptation. *Environmental Management* 62(4): 619-630
2. Ingold T (2011) *The perception of the environment: essays on livelihood, dwelling and skill*, 2nd edn. Routledge, London.
3. van der Linden S, Maibach E, Leiserowitz A (2015) Improving public engagement with climate change: five "best practice" insights from psychological science. *Perspect Psychol Sci* 10:758-763. doi: 10.1177/1745691615598516
4. Amel E, Manning C, Scott B, Koger S (2017) Beyond the roots of human inaction: fostering collective effort toward ecosystem conservation. *Science*, 356(6335), 275-279.
5. Tynan L (2021) What is relationality? Indigenous knowledges, practices and responsibilities with kin. *Cultural Geographies*. 28(4):597-610. doi:10.1177/14744740211029287
6. Abram D (1996) *The spell of the sensuous: language and perception in a more than human world*. Random House, Toronto

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