

## UH Ecosystems Work Program Needs-Finding Workshop Preliminary Results updated 2022.09.09

Contacts: Clay Trauernicht ([trauerni@hawaii.edu](mailto:trauerni@hawaii.edu)) Melissa Kunz ([mmkunz@hawaii.edu](mailto:mmkunz@hawaii.edu))

At the 2022 Hawaii Conservation Conference the UH Ecosystems Work Program and the Hawaii Forest Restoration Synthesis team (led by Aurora Kagawa-Viviani [USGS PIERC/ WRRRC/ HCSU]) conducted an online workshop to elicit challenges and needs within restoration/ conservation as well as how participants would like them addressed. Participants answered two main questions:

- To identify Needs/ Challenges: *How would you complete this sentence: “I would like more support with.....”?*
- To generate Potential Actions/ Strategies: *What could support in these areas look like?*

The table that follows provides a condensed list of participant responses:

| Topic  | Needs/ Challenges  | Potential Actions/ Strategies   |
|--|--|---|
| <b>Training</b>                                    | Participants expressed a need for clarity and standardization of conservation-related training for staff and also for emerging professionals.<br><br>Training topics of interest include: <ul style="list-style-type: none"> <li>• Weed identification and survey methods</li> <li>• Helicopter training</li> <li>• Firearms use</li> <li>• New technologies &amp; developments</li> <li>• Drones, aerial tech, FAA permits</li> </ul> | Elevate recognition of high skill and high training; have compensation to match it<br><br>Collect and organize info from hiring organizations on training requirements for different kinds of positions; disseminate info thru schools, community colleges, UH, KUPU and HCA. |
| <b>Continuing Education</b>                        | Participants expressed a desire for: <ul style="list-style-type: none"> <li>• Opportunities that fit with a work schedule</li> <li>• 1-2 year degrees or certificate programs at CC</li> <li>• University credits</li> <li>• Grad-level courses</li> <li>• Online PhD program</li> </ul>   | Develop asynchronous learning/ degree opportunities<br><br>Disseminate info on existing programs  |
| <b>Collaboration, Community, and Communication</b> | Participants expressed a desire for: <ul style="list-style-type: none"> <li>• More on-site and across program learning opportunities</li> <li>• Increased student involvement</li> </ul>   | Have dedicated, fully funded FTE, non-grant funded Coordinator positions  |

\*indicates ideas from Ecosystems Work staff generated while reviewing workshop notes

| Topic                                       | Needs/ Challenges   | Potential Actions/ Strategies   |
|---|---|---|
|   | <ul style="list-style-type: none"> <li>• Support for technical guides/informational resources</li> <li>• Strategic visioning and activity prioritization</li> <li>• TRUSTing relationships, including:               <ul style="list-style-type: none"> <li>○ Opportunities for communities to co-produce applicable science</li> <li>○ Effective facilitation of data sharing, reciprocity</li> </ul> </li> <li>• Better communication between:               <ul style="list-style-type: none"> <li>○ Programs; Admin &amp; Programs; Agencies, university, and community; Experienced folks &amp; new hires</li> <li>○ Different sectors and scales of management (local, island, state-wide)</li> </ul> </li> </ul> | <p>Create an Ecosystems Extension Website</p> <p>Provide opportunities for in-person gatherings and site visits to build connections with like-minded people as well as across roles to share what folks are working on and Lessons Learned.</p>  |
| <b>Problem Solving &amp; New Technology</b> | <p>Trials and working groups to identify needs/applications, E.g:</p> <ul style="list-style-type: none"> <li>• On herbicides and pesticides</li> <li>• Forest bird issues and threats like rats</li> <li>• Predator control</li> <li>• Insect pests across agriculture &amp; conservation</li> <li>• Phytosanitation</li> <li>• Seed sourcing</li> <li>• Resist-Accept-Direct framework</li> </ul> <p>Conflict resolution training/service for non-profits</p>  | <p>Follow model of invasive pest mini conferences - drop in, connect, learn what research is going on</p> <p>Develop One-stop online shop to access training videos, webinars, etc. easy to direct new staff.</p> <p>Provide/ advertise tiered training opportunities for herbicide application</p> <p>Provide site-specific support through convening variety of experts</p> |
| <b>Data</b>                                 | <p>Management of and access to environmental data</p> <p>Need data on:</p> <ul style="list-style-type: none"> <li>• Site history and legacy impacts of invasions &amp; land use</li> <li>• Non-ecological benefits of restoration</li> <li>• Pests and diseases for native plants</li> <li>• Downscaling climate models and predictions to apply at the project level</li> <li>• Maps on biome/community shifts from 3 climate scenarios</li> </ul>   | <p>Database of research conducted - historic and current</p> <ul style="list-style-type: none"> <li>• Can see what was done and where gaps</li> </ul> <p>Create Maps of restoration efforts with abstract/short paragraph on project; Eg: case studies.</p> <p>Develop awareness of benefits of monitoring; identify barriers (methods and capacity)*</p>                     |

\*indicates ideas from Ecosystems Work staff generated while reviewing workshop notes

| Topic  | Needs/ Challenges   | Potential Actions/ Strategies  |
|--|---|--|
| <b>Job Security/ Jobs</b>                                    | <p>It's challenging to recruit good local candidates.</p> <ul style="list-style-type: none"> <li>• Lack of competitive/ living wages and job security for more people</li> <li>• People need security for confidence in building a career in conservation.</li> </ul> <p>Need to value and develop people within organizations as a critical resource to ensure program longevity</p> | <p>Provide support and information that encourages government funding through direct program budgets instead of grants.</p> <p>Create and/or identify professional pathways for local workforce</p>  |
| <b>Funding</b>   | <p>Need to share positive stories for advocacy/funding</p> <p>Institutional hurdles</p> <ul style="list-style-type: none"> <li>• Reporting burdens from funders</li> <li>• Short-term budgets</li> <li>• High indirect costs for 'off-campus' projects</li> <li>• Limited options/mechanisms to support partners/students/communities</li> </ul>                                      | <p>Provide support for grant writing</p> <p>Mapping out payment mechanisms to support partners/collaborators (Eg. honoraria, casual/temp hire, contract work)*</p>   |
| <b>Planning &amp; Assessment</b><br>(from practice workshop) | <p>Need for well-defined restoration targets and culture/ place-based metrics on multiple planning time scales</p> <p>Need efficient, effective, and long-term monitoring on the scale of decades for evaluating long-term success</p>  | <p>Develop/ disseminate standardized list of research questions and basic monitoring methods and when to use them.</p> <p>Provide consultations on how best to monitor for goals</p> <p>Create a statewide monitoring program (for native ecosystems &amp; restoration sites) to shift the burden of monitoring from overextended management programs to a dedicated program</p> |

\*indicates ideas from Ecosystems Work staff generated while reviewing workshop notes