

August 30, 2019, 1:00 PM  
Kalanimoku Building, Rm 132

AGENDA

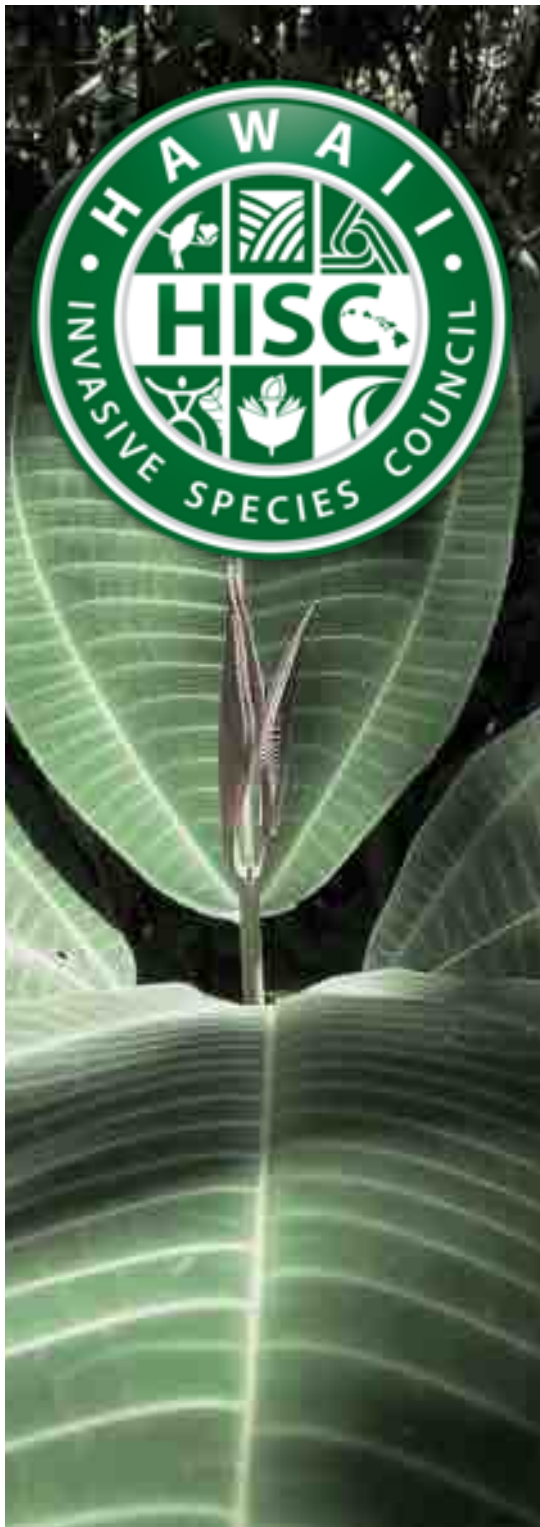
1. Call to order
2. Introductions
3. Approval of minutes from January 29, 2019 meeting
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8. Public Comments
9. Adjournment



# Budget Process

1. Call for proposals based on HIBP priorities
2. Eval Committee, representative of HISC agencies & Working Group Chairs, scores:
  - a) how many priorities are met and
  - b) how well the application addresses those priorities
3. Calculation used to create initial balanced budget
4. RWG meeting to produce final recommendation based on discussion (8/2)
  - a. Structured primarily as a discussion among the Eval Committee members
  - b. The public, including applicants, can attend and weigh in
5. Council reviews budget for approval (8/30)





## 2019 Eval Committee

DBEDT/RWG: Justine Nihipali

DLNR/CWG: Rob Hauff

HDOA/PWG: Jonathan Ho

DOH: Grace Simmons

UH: Mike Melzer

POWG: Christy Martin

DOT: David Rodriguez

HISC Staff



## Funding Available

	5% restriction	10% restriciton
Total Requests	\$8,476,285	\$8,476,285
Appropriation	\$5,750,000	\$5,750,000
Restriction	\$287,500	\$575,000
DOFAW Overhead	\$327,750	\$310,500
HISC Support, HBIN, WRA	\$437,412	\$437,412
Biocontrol Facility Planning	\$50,000	\$50,000
Remaining	\$4,647,338	\$4,377,088

## Legislative Stipulations on New Funding

Invasive Species Committees Statewide	\$500,000
Maui Little Fire Ant Response	\$61,200
Maui Coqui Frog Containment	\$83,000
Biocontrol of 4 Invasive Plant Targets	\$255,800
Landscape Scale Mosquito Control Technology	\$100,000



# Applications Received

**8,476,285**

Grand Total Request to HISC (SUM)

**6,220,662**

Total Existing Non-HISC Funds (SUM)

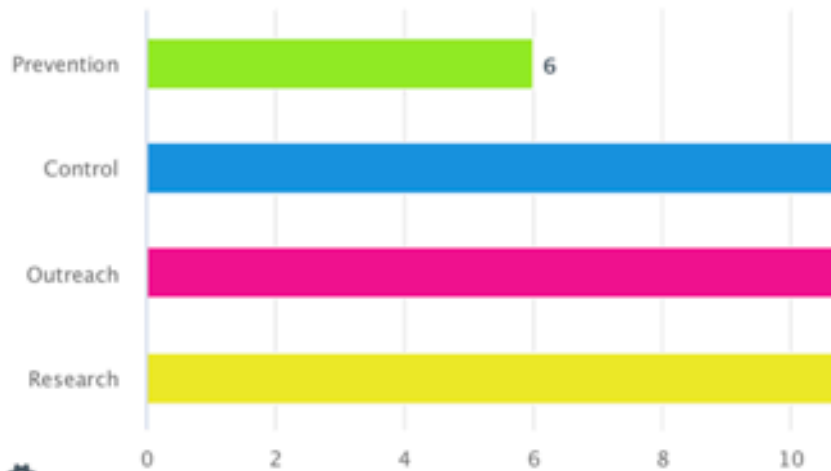
**7,902,430**

Total Anticipated Non-HISC Funds (SUM)

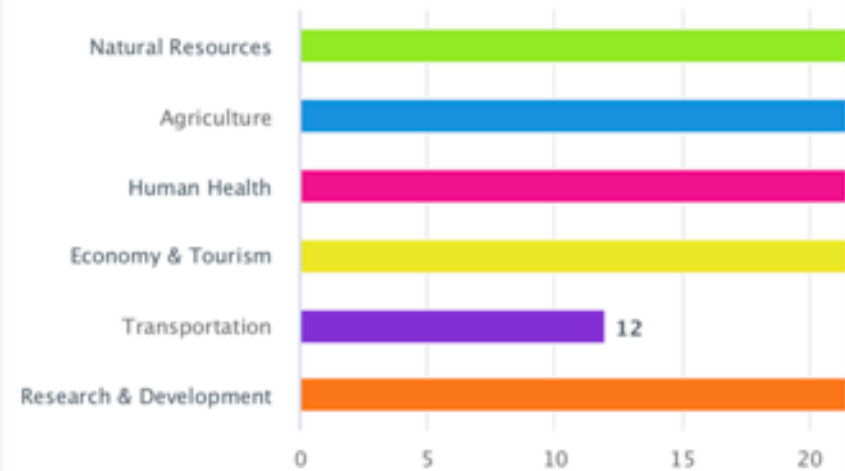
**4**

Proportion of Project Funded by Non-HISC Funds (0-10) (AVG)

Project Category



Relevant Sectors





## Requested Funds

\$1,200,000  
\$1,000,000  
\$800,000  
\$600,000  
\$400,000  
\$200,000  
\$0

King Mosq Video  
Gorham RLWD Outreach  
Penniman Planning  
King Mosq Coord  
Johnson Ginger Biocontrol  
King Mosq Tech  
Tian Fusarium  
Works Mongoose  
Stewart Molecular Tools  
Cheng Lac Scale  
Wright Arcte  
Ahmad Biochar  
Sier's Avian  
Ersbak Ginger Kohala  
Sier's Mongoose Bait  
Watson Albizia  
Brock HAPI  
Watson Albizia Teams  
Johnson Rubus Biocontrol  
Simmons Mosq Health  
Sim Acalolepta  
Martin CGAPS  
Bolosan Islands  
Chee Cat's  
Oleson Miconia  
Sier's Mongoose Trap  
Kaye BIISC ROD  
Radford MISC LFA  
Villalobos Bees  
Watson Tibber  
Zahawi Psi Cat  
Johnson Melastome Biocontrol  
Akana CRB  
Kuo BWBF  
Keanini KISC Outreach  
Neville OISC Outreach  
Perry MKWA  
Strohecker MISC Outreach  
Neville OISC Pests  
Berry Mosq Kauai  
Radford MISC Coqui  
Gallaher Plant Info  
Smith Mudweed  
Kaye BIISC Outreach  
Johnson Albizia Biocontrol  
Vanderwoude HAL  
Kaye BIISC  
Keanini KISC Outreach  
Neville OISC EDRR  
Radford MISC



# RWG Recommendations

Rank	Project Title	Agency, Division	Request	RWG Rec
1	Hawaii Ant Lab core funds	UH, PCSU, Hawaii Ant Lab	\$311,439	\$276,302
2	Detection and Control of Invasive Species in Maui County	UH, PCSU, Maui & Molokai Invasive Species Committees	\$1,029,724	\$723,923
3	Coordinating Group on Alien Pest Species	UH, PCSU, Coordinating Group on Alien Pest Species	\$70,000	\$50,000
4	Public Engagement in Invasive Species Control on the Island of Hawaii	UH, PCSU, Big Island Invasive Species Committee	\$269,069	\$190,970
5	Early Detection, Control & Eradication for Priority Invasive Species on O'ahu	UH, PCSU, O'ahu Invasive Species Committee	\$900,979	\$623,330
6	Invasive Species Outreach and Education in Maui County	UH, PCSU, Maui & Molokai Invasive Species Committees	\$192,174	\$132,640
7	Early Detection and Rapid Response to Rapid Ohia Death on Hawaii Island	UH, PCSU, Big Island Invasive Species Committee	\$106,784	\$73,356
8	Public Outreach and Education on Kauai	UH, PCSU, Kauai Invasive Species Committee	\$165,170	\$113,285
9	Kauai Invasive Species Committee Early Detection and Control	UH, PCSU, Kauai Invasive Species Committee	\$792,171	\$579,500
10	Invasive Species Outreach on O'ahu	UH, PCSU, O'ahu Invasive Species Committee	\$167,873	\$107,279
11	Little Fire Ant Control Program for Maui	UH, PCSU, Maui & Molokai Invasive Species Committees	\$111,237	\$61,200



12	Detection and Control of Invasive Species on the Island of Hawaii.	UH, PCSU, Big Island Invasive Species Committee	\$699,483	\$493,000
13	Coqui Frog Control and Monitoring Program on Maui	UH, PCSU, Maui & Molokai Invasive Species Committees	\$220,658	\$83,000
14	Pest Response O'ahu	UH, PCSU, O'ahu Invasive Species Committee	\$198,035	\$108,317
15	The Hawaii Alien Plant Informatics Project: informing invasive plant management decisions with interconnected data	UH, PCSU	\$58,530	\$30,000
16	Landscape Scale Mosquito Control Project Coordination	DLNR Division of Forestry and Wildlife	\$30,500	\$24,274
17	Laying the groundwork for landscape-level mosquito suppression to protect endangered forest birds and human health from mosquito borne disease in Hawaii	DLNR Division of Forestry and Wildlife	\$198,996	\$92,646
18	Trap development and biological assessment of Acalolepta aesthetica (an invasive longhorn beetle attacking cacao)	USDA-ARS, Pacific Basin Agricultural Research Center	\$66,770	\$32,527
20	Hawaii Ballast Water and Biofouling	DLNR Division of Aquatic Resources	\$160,321	\$86,034
21	Increasing Awareness and Community Support for Albizia Related Projects on Oahu	UH, PCSU, Koolau Mountains Watershed Partnership	\$61,014	\$23,000
23	The Future Bee: Protection of Hawaii's bee stock from invasive Africanized honey bees	UH CTAHR	\$113,959	\$41,130
24	Regional Eradication is Feasible: Continuing Albizia Control in The Upper Waiawa Watershed	UH, PCSU, Koolau Mountains Watershed Partnership	\$57,671	\$19,000



26	Waipahoehoe Management Unit Feral Ungulate Removal	UH, PCSU, Mauna Kea Watershed Alliance	\$188,000	\$72,822
27	Biological control of invasive Rubus spp.	USDA Forest Service	\$62,413	\$31,000
28	Mongoose toxicant bait station development and evaluation	USDA APHIS WS National Wildlife Research Center	\$56,760	\$21,070
29	The Plants of Hawaii online species information system	Bishop Museum	\$223,284	\$66,025
32	Investigating a novel method to extirpate Hawaii's most prolific marine invasive, leather mudweed Avrainvillea lacerata.	UH, Department of Botany	\$264,645	\$45,000
34	Biocontrol of Hedychium gardnerianum	USDA Forest Service	\$35,409	\$9,159
36	Evaluating natural enemies of albizia as potential biocontrol agents	USDA Forest Service	\$280,000	\$180,000
37	Continued control of Tibouchina herbacea on O'ahu	UH, PCSU, Koolau Mountains Watershed Partnership	\$129,372	\$30,000
38/25	The efficiency of different trap types in controlling the small Indian mongoose (Herpestes javanicus) in Hawaii	Department of Land and Natural Resources, Division of Forestry and Wildlife and USDA NWRC	\$115,938	\$48,548
39	Wolbachia Outcrossing, Cytoplasmic Incompatibility Testing, and Colony Maintenance for Hawaii Lineage Ae. aegypti and Ae. albopictus Mosquitoes	Hawaii Department of Health, Environmental Health Services Division, Vector Control Branch	\$63,843	\$61,989
40	Biocontrol of invasive melastomes	USDA Forest Service	\$148,400	\$74,000
41	Detection and invasive potential of Arcte coerula (Lepidoptera, Noctuidae), a new potential pest of mamaki in Hawaii.	UH, CTAHR	\$45,793	\$15,535
42	Mosquito Rearing Technician	DLNR Division of Forestry and Wildlife	\$35,750	\$17,477
45	Cats are Heros - Public Relations Campaign	DLNR Division of Forestry and Wildlife	\$74,200	\$10,000




# Contingency Restriction

Program	Program Req	RWG Rec	Contingency Restriction Adjustment	Difference
Biocontrol	\$441,665	\$294,159	274,562	19,597
Mosquitoes	\$357,789	\$196,386	183,303	13,083
Hawaii Ant Lab	\$311,439	\$276,302	257,895	18,407
BIISC	\$1,075,336	\$757,326	706,873	50,452
MISC	\$1,553,793	\$1,000,763	934,093	66,670
OISC	\$1,266,887	\$838,926	783,038	55,888
KISC	\$957,341	\$692,785	646,632	46,153

## Submittal Recommendation

1. That the HISC approve the FY20 budget for HISC support and an interagency project portfolio in substantially the same form as recommended by the Resources Working Group.
2. That, should the Department of Budget and Finance release any portion of the restriction on expenditures, the HISC delegate authority to the Program Supervisor to identify best uses of released funds.



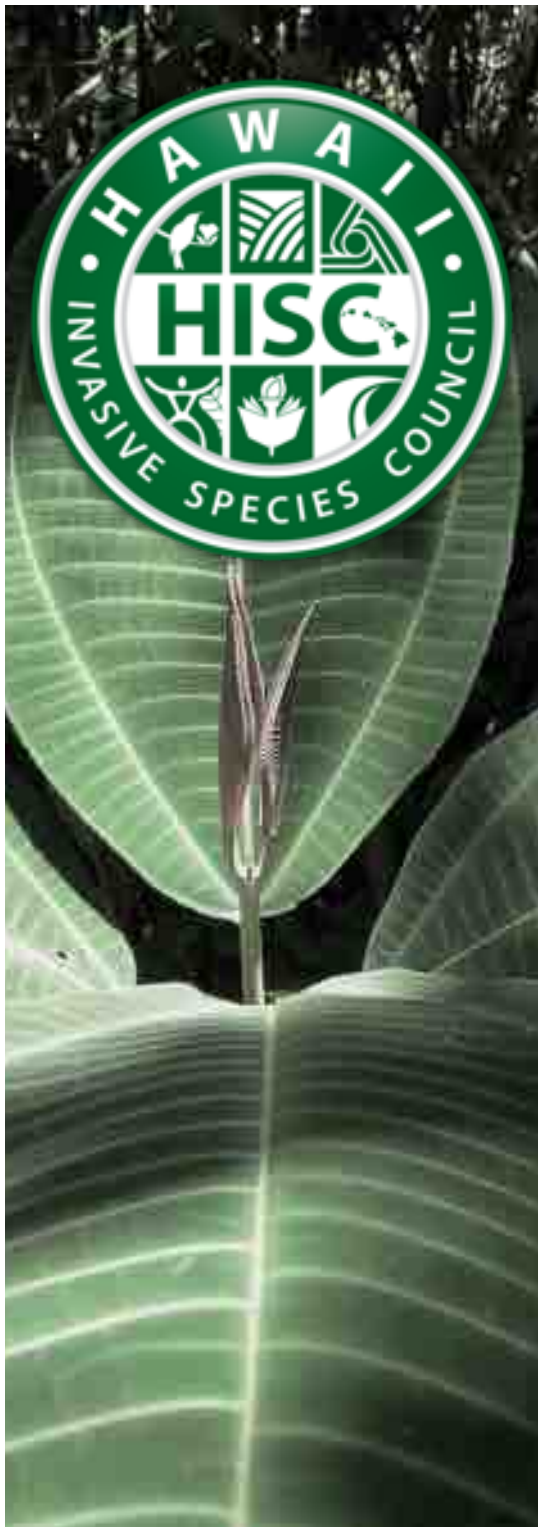


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# July 2019 HIBP Progress Report



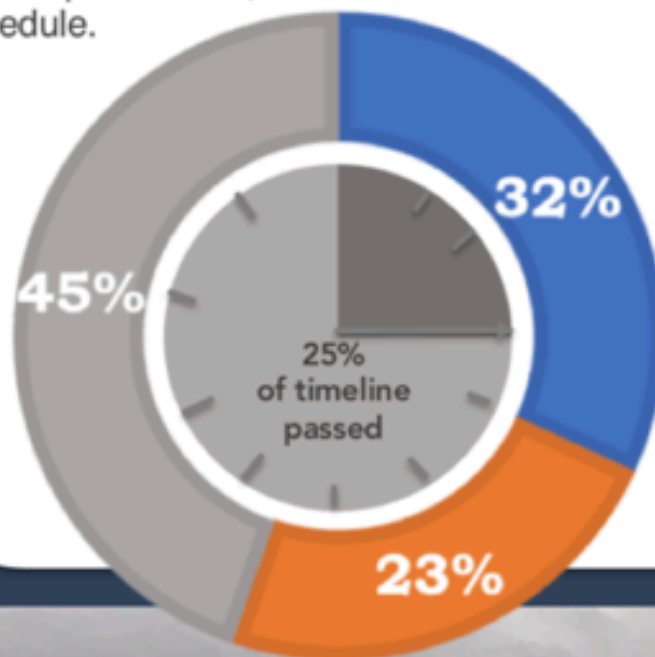
## Agency updates:

- HDOA
  - Jonathan Ho, Acting PQ Branch Manager
  - Becky Azama, Acting PPC Branch Manager
  - Kent Dumlao, PQ Outreach Specialist
- DLNR
  - Jules Kuo, Ballast Water & Biofouling Coordinator
  - Josh Atwood, Invasive Species Coordinator
- UH
  - Mike Melzer, Associate Specialist
- DOH
  - Grace Simmons, Vector Control Branch Manager
- HISC: Interagency / Legislative
  - Randy Bartlett
  - Josh Atwood



# Hawai'i Interagency Biosecurity Plan July 2019 Snapshot

**147 actions** in the Hawaii Interagency Biosecurity Plan (HIBP) provide a roadmap to a safer, more sustainable Hawaii. Implementation is underway and ahead of schedule.



**55%** of HIBP

actions have been initiated, are ongoing in perpetuity, or have been completed. This is an increase of 5% over six months.

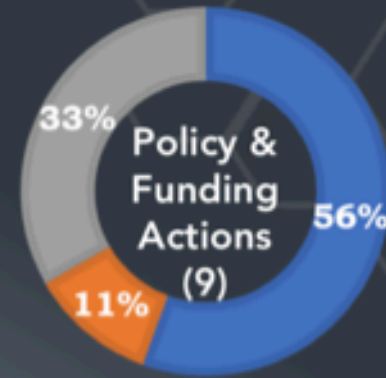
# Preborder Biosecurity

## Pre-border Biosecurity

Prevent the transport of invasive species to Hawai'i.

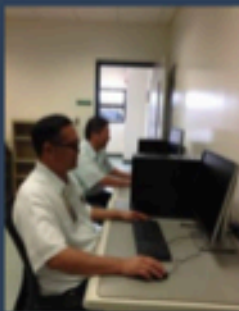


■ Completed / In progress (ongoing)  
■ In progress to completion  
■ Not yet started



■ Approved / Partially Approved  
■ Introduced but not passed  
■ Not yet introduced

### HIGHLIGHTS



- HDOA Plant Quarantine Branch has completed the initial development of their electronic manifest database and is now in the pilot phase of field testing. **PrePro1.1, 1.4** Photo: HDOA
- The legislature approved 4 specialist positions for HDOA PQ including an entomologist, botanist, and data manager for their new e-manifest system. **PreTifs2.2, 2.3**

### FUTURE WORK

- Biologist positions to conduct ballast & biofouling risk assessments at DLNR DAR **PreTifs2.5** Photo: DLNR DAR
- Amending HDOA admin rules to require phytosanitary certificates for high-risk plant imports **PrePol2.2**





# Border Biosecurity

## Border Biosecurity

Enhance the detection and control of pests and diseases at ports of entry.



■ Completed / In progress (ongoing)  
■ In progress to completion  
■ Not yet started



■ Approved  
■ Introduced but not passed  
■ Not yet introduced

### HIGHLIGHTS



- Coconut Rhinoceros Beetle Rapid Response Team (HDOA) trained a detector dog team to assist with inspections in high-risk areas and ports of entry. **BorTifs1.3** Photo: *plantwise.org*

- DLNR DAR completed development of a database to collect information on ballast water for tracking and management of invasive aquatic species like this orange tumor-like sponge, *Mycale armata*.

**BorPro2.3** Photo: DLNR DAR



### FUTURE WORK

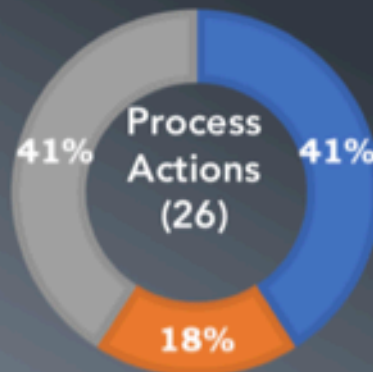
- Develop hull-fouling rules for the shipping industry and other high-risk vessels to prevent the introduction of non-native aquatic organisms.
- Add positions at DLNR DAR to inspect vessel hulls in preparation of new federal laws



# Postborder Biosecurity

## Post-border Biosecurity

Protect Hawai'i from the invasive species already present within the State



■ Completed / In progress (ongoing)  
■ In progress to completion  
■ Not yet started



■ Approved  
■ Introduced but not passed  
■ Not yet introduced

### HIGHLIGHTS

- DLNR DOFAW has begun work to integrate invasive species control and mitigation actions into project requirements during environmental review and approval processes to protect native resources. **PosPro1.4**
- The legislature provided funding for a number of important post-border biosecurity issues in 2019, including watershed fencing, an increase to the HISC budget, and CIP funds for a coqui barrier on Maui. *Photo: MISC*



### FUTURE WORK

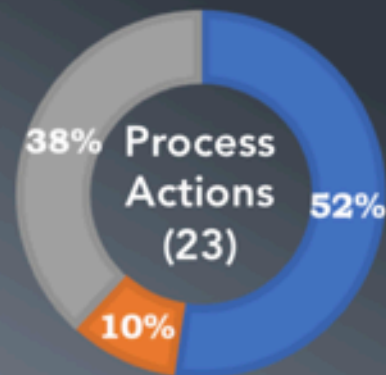
- Hire 45 invasive species techs statewide by 2027 to protect natural areas. **PosTifs2.1**
- Construct new biocontrol research facilities following development of construction plans using funds appropriated in 2018. **PosTifs2.1**



# Public Awareness

## Public Awareness

Enhance public awareness and support for Hawai'i Biosecurity.



■ Completed / In progress (ongoing)  
 ■ In progress to completion  
 ■ Not yet started



■ Approved  
 ■ Introduced but not passed  
 ■ Not yet introduced

### HIGHLIGHTS

- UH is offering 600 graduate level classes; one focusing on biosecurity, and the other on managing invasive pest and pathogens in agriculture/terrestrial environments.

**PwsPro3.8** Photo: UH CTAHR




- The documentary "Saving 'Ōhi'a" won 4 Emmy Awards. The film was produced by CGAPS and Club Sullivan (featured right) with funding from the HISC. The documentary has brought national and international attention to Rapid 'Ōhi'a Death. **PwsPro3.2** Photo: UH PCSU

### FUTURE WORK

- Promote a certified nurseries program to help consumers find certified growers. **PwsPro1.5**
- Expand interagency use of the online 643pest.org reporting system **PwsPro 3.5**





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# HISC & CGAPS Strategic Planning Process

SHARED BIG PICTURE →

Partner  
Interviews  
& Input

HIBP  
Bottlenecks-  
CGAPS  
Retrospective

Strategic  
Comms.  
Analysis

Environmental  
Scan

SWOT/SOAR

HISC & CGAPS  
Progress &  
Lessons with  
Partners

Identify  
Strategic  
Priorities

STRATEGIC ACTION →

Key Actions

Tasks

Smart  
Objectives

Tasks

Key Actions

Tasks

STRATEGIC COMMUNICATIONS →

Tasks



You are here

# HISC & CGAPS Strategic Planning Timeline



**August 29, 2019**  
Statewide Strategic Planning Meeting

## **November 2018:**

HISC and CGAPS embark on strategic planning together.  
Contact Audrey Newman to facilitate the process.

**December 2019 – early 2020**  
CGAPS and HISC Plans complete

## **April – July 2019**

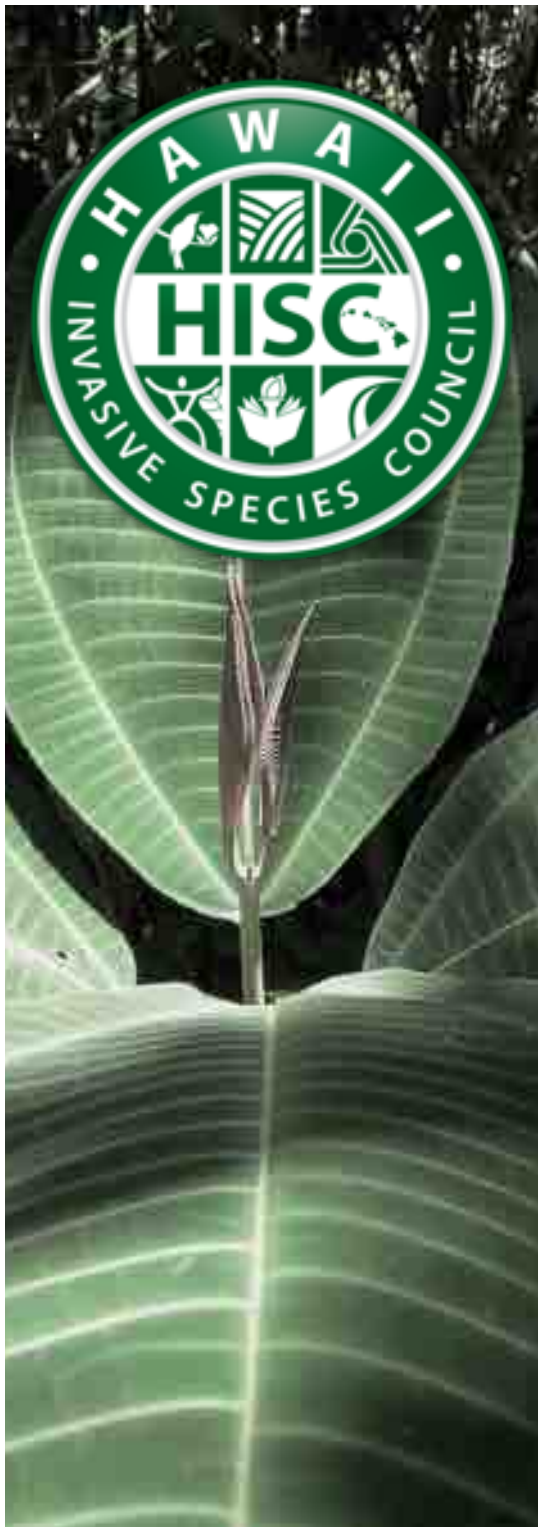
Gathering partner feedback and identifying bottlenecks and accomplishments

## **September – November 2019**

Splitting CGAPS and HISC objectives. Begin working with respective planning teams (CGAPS Steering Committee, HISC Interagency Review Team and Council)







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