

Biosecurity at Multiple Levels

The Hawaii Interagency Biosecurity Plan

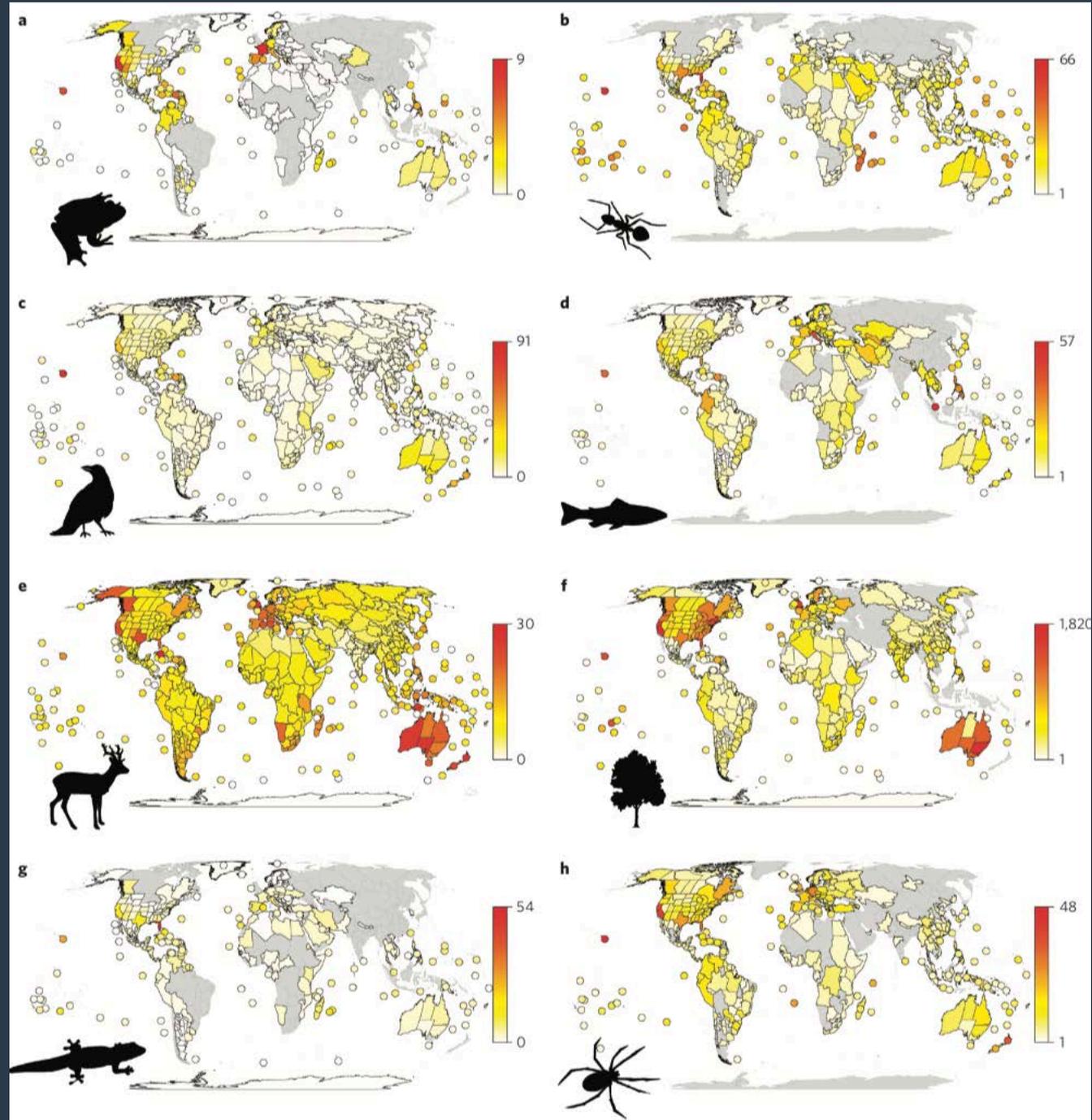


Josh Atwood, Hawaii Invasive Species Council
Western Governors' Association, Dec 2018



Global hotspots and correlates of alien species richness across taxonomic groups

Dawson et al. 2017,
Ecology & Evolution,
1(186)





HISC COUNCIL

Cabinet-level direction on invasive species prevention, control, research and outreach

DLNR <i>Protection & management of natural resources</i>	HDOA <i>Document, prevent, & control agricultural pests.</i>	DOH <i>Human health, disease vector management, env quality</i>	DBEDT <i>State planning, economic impacts on tourism & other industries</i>	DOT <i>Manages airports, harbors & highways</i>	UH <i>Research and education related to invasive species</i>
--	--	---	---	---	--

HISC STAFF

HISC Support Program Administration: DLNR DOFAW Invasive Species Coordinator
Other HISC Staff: *Coordination, planning, and other duties required to carry out Council actions*

FUNDED PROJECTS

Projects that fill gaps between regular agency programs
e.g.: the ISCs, Hawaii Ant Lab, ad-hoc multi-agency responses

Projects that advance our collective knowledge about invasives
e.g.: Research on new ant baits, biological control development



Multi-level Partnerships

Invasive Species
Committees

& Watershed Partnerships



Hawai'i Ant Lab



CGAPS

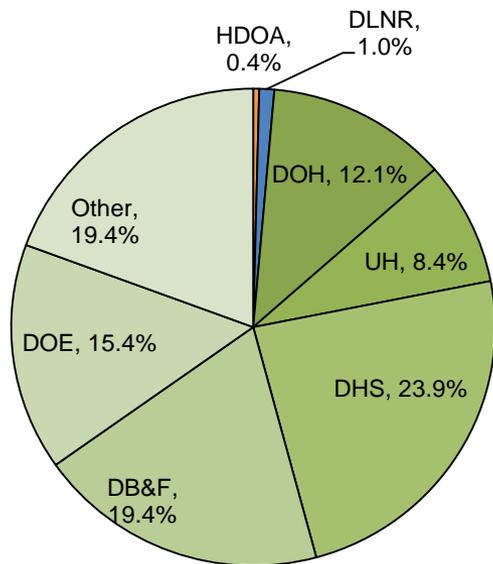


2017 Baseline

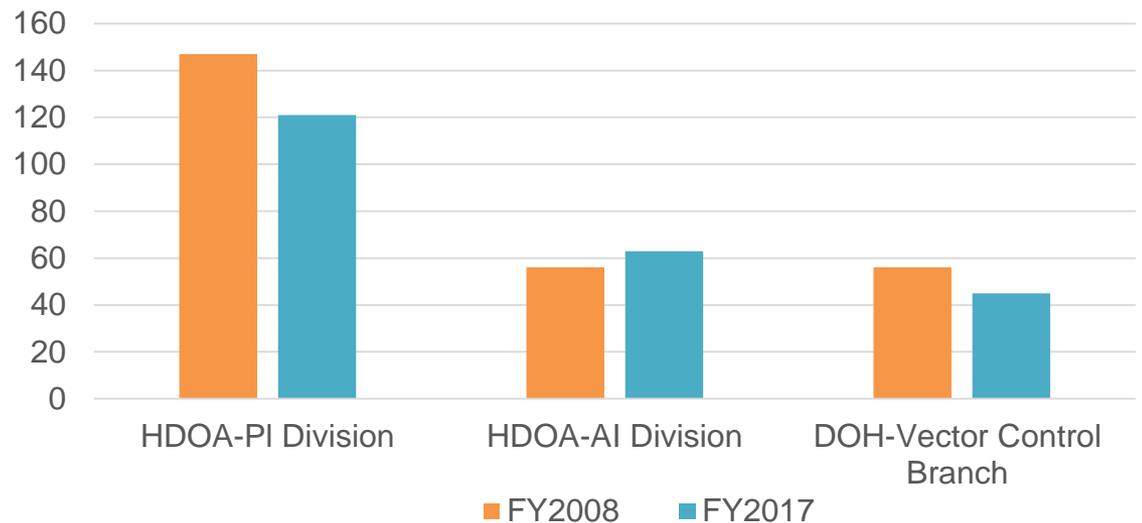
Known Gaps

FUNDING	STAFF	FACILITIES	POLICY	INFORMATIONAL
Soft funds	Fewer staff now than in 2008 at multiple agencies	Inspection facilities	Ballast and biofouling	Import database
Shrinking fed grants		Biocontrol facilities	Interisland nursery certification & inspection	Risk assessments
1.4% of budget to DLNR and HDOA			Non-ag inspection	Sufficient investments in R&D

FY15-17 Budget

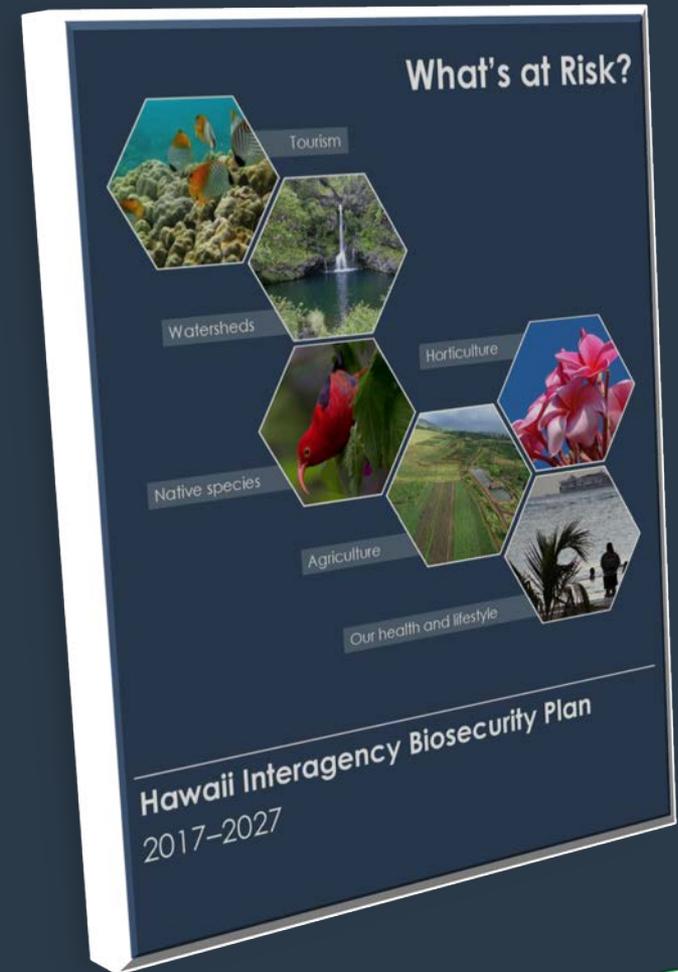


Positions, 2008-2017



The Hawaii Interagency Biosecurity Plan 2017-2027

- ❖ Comprehensive in scope
- ❖ Multidisciplinary, collaborative approach
- ❖ 150 action items to address gaps and weakness in our biosecurity system
- ❖ A 10-year path forward



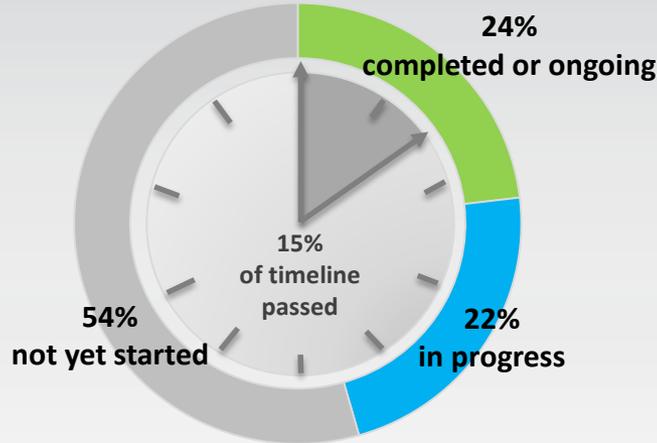
Biosecurity in 2027

- ❖ Risk assessments and electronic manifesting
- ❖ Regulation of ballast and biofouling
- ❖ Inspection facilities
- ❖ Doubled inspection staff, for both imports and interisland shipments
- ❖ Field capacity at DLNR & DOH
- ❖ Stable funding for the ISCs
- ❖ HDOA biocontrol facility
- ❖ New outreach tools



HIBP Progress

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.



46% of HIBP actions have been initiated, are ongoing in perpetuity, or have been completed.



HIBP Progress



Completed

-  Vector Control Branch restored
-  10 new extension agents
-  Detector dog program restored
-  643pest.org online pest reporting tool
-  HISC funds moved to base budget
-  Funds for biocontrol facility planning
-  Funds for watershed fences, rapid ohia death



In Progress

-  E-manifest technology for imports
-  Biosecurity database for interceptions
-  Airport biosecurity signs
-  Vessel biofouling tools
-  Aquaculture risk assessment tool
-  Biocontrols for miconia, ginger, albizia
-  New tools for ant & mosquito control



Needed

-  DOFAW biosecurity techs for protected lands
-  Entomologists, pathologists, botanists for risk assessments
-  Biosecurity emergency response fund
-  Increased funds for HISC and watershed fencing
-  More agricultural inspectors
-  Funding for biocontrol facility construction