

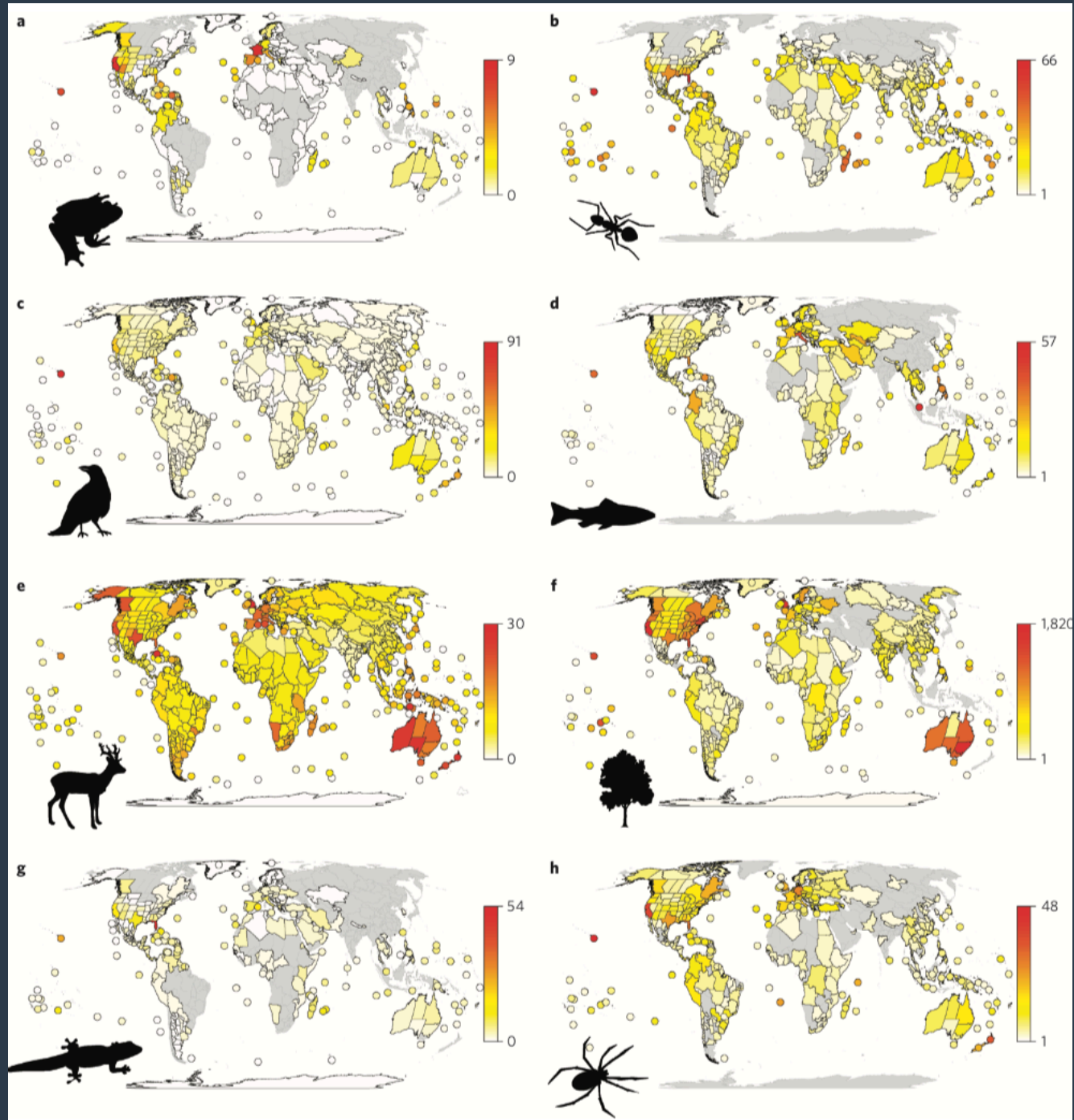
The 2027 Hawaii Interagency Biosecurity Plan

January 2020 Informational
Briefing



Global hotspots and correlates of alien species richness across taxonomic groups

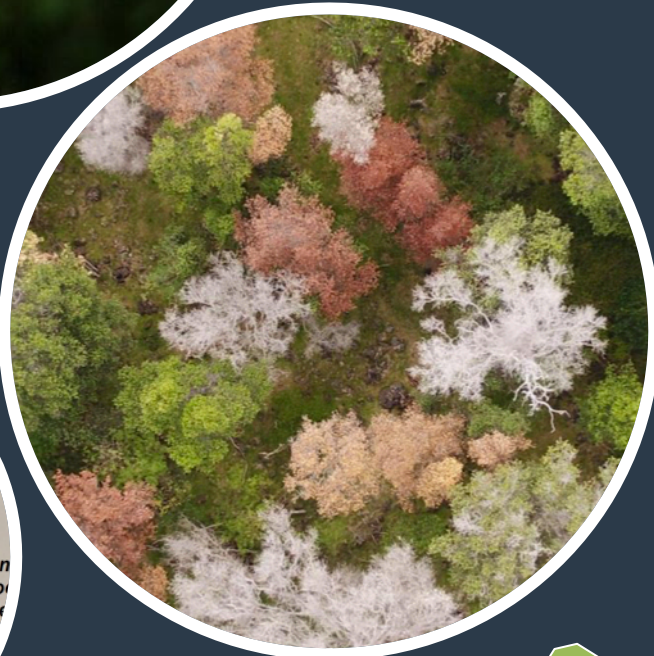
Dawson et al. 2017,
Nature Ecology & Evolution, 1(186)





\$174M/yr
On Hawaii
Island alone

\$672M/yr



?

\$2B/yr



Dung Beetle

Oriental Flower Beetle

Cocon
Rhino
Beetle



Photo: CRB Response Team



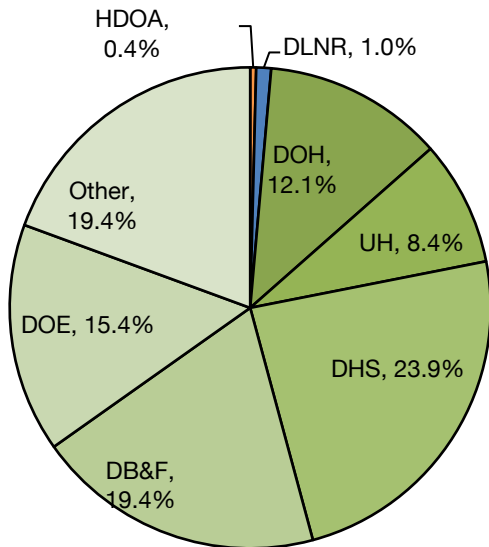
Photo: CRB Response Team

2017 Baseline

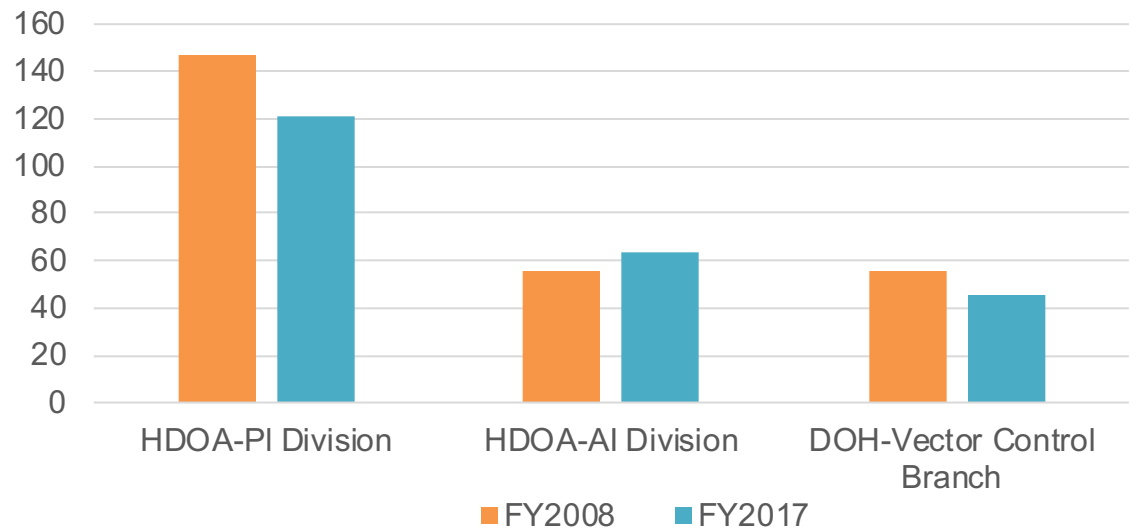
Known Gaps

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

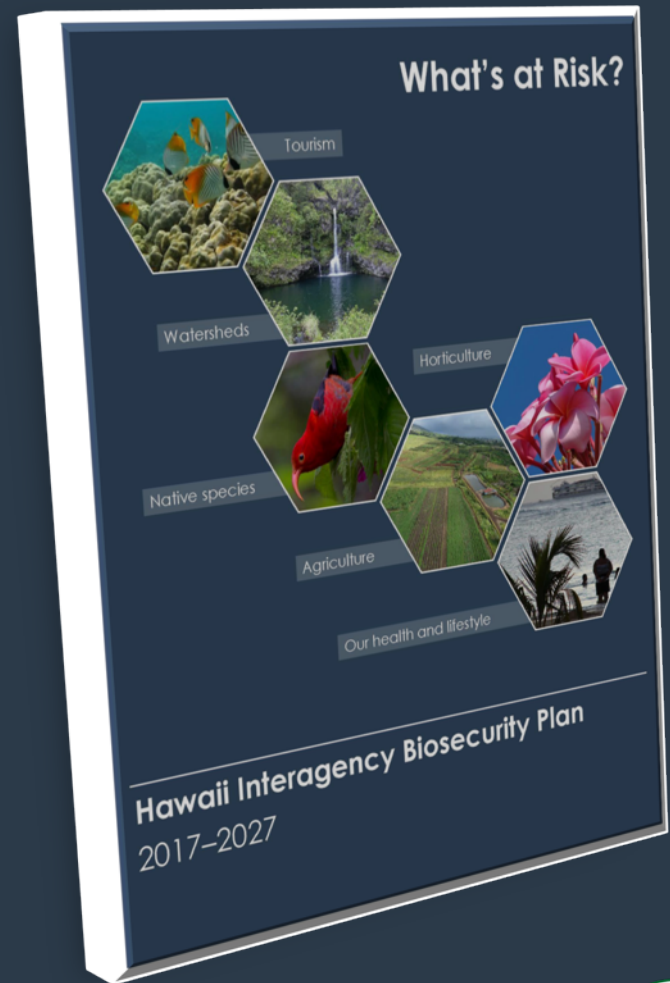


Positions, 2008-2017



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**



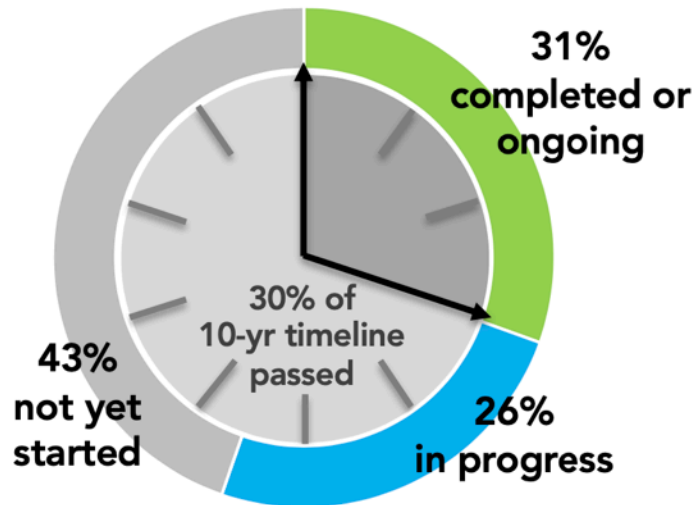
Biosecurity in 2027

- ❖ Risk assessments and electronic manifesting
- ❖ Regulation of ballast water and vessel biofouling
- ❖ Inspection facilities
- ❖ Doubled inspection staff, for both imports and interisland shipments
- ❖ Field capacity at DLNR & DOH
- ❖ HDOA biocontrol facility



HIBP January 2020 Progress Report

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.










57% of HIBP actions have been initiated, are ongoing in perpetuity, or have been completed. This is an increase of 7% over the past year.



HIBP January 2020 Progress Report



Completed

-  Data manager & specialists for HDOA inspections
-  Increased FY20 funds for HISC and watershed fencing
-  HDOA e-manifest system developed
-  643pest.org online pest reporting tool & app
-  Extension agent positions for UH CTAHR
-  Rapid 'ōhi'a death emergency response plans for each county
-  Vector Control Branch restored









In Progress

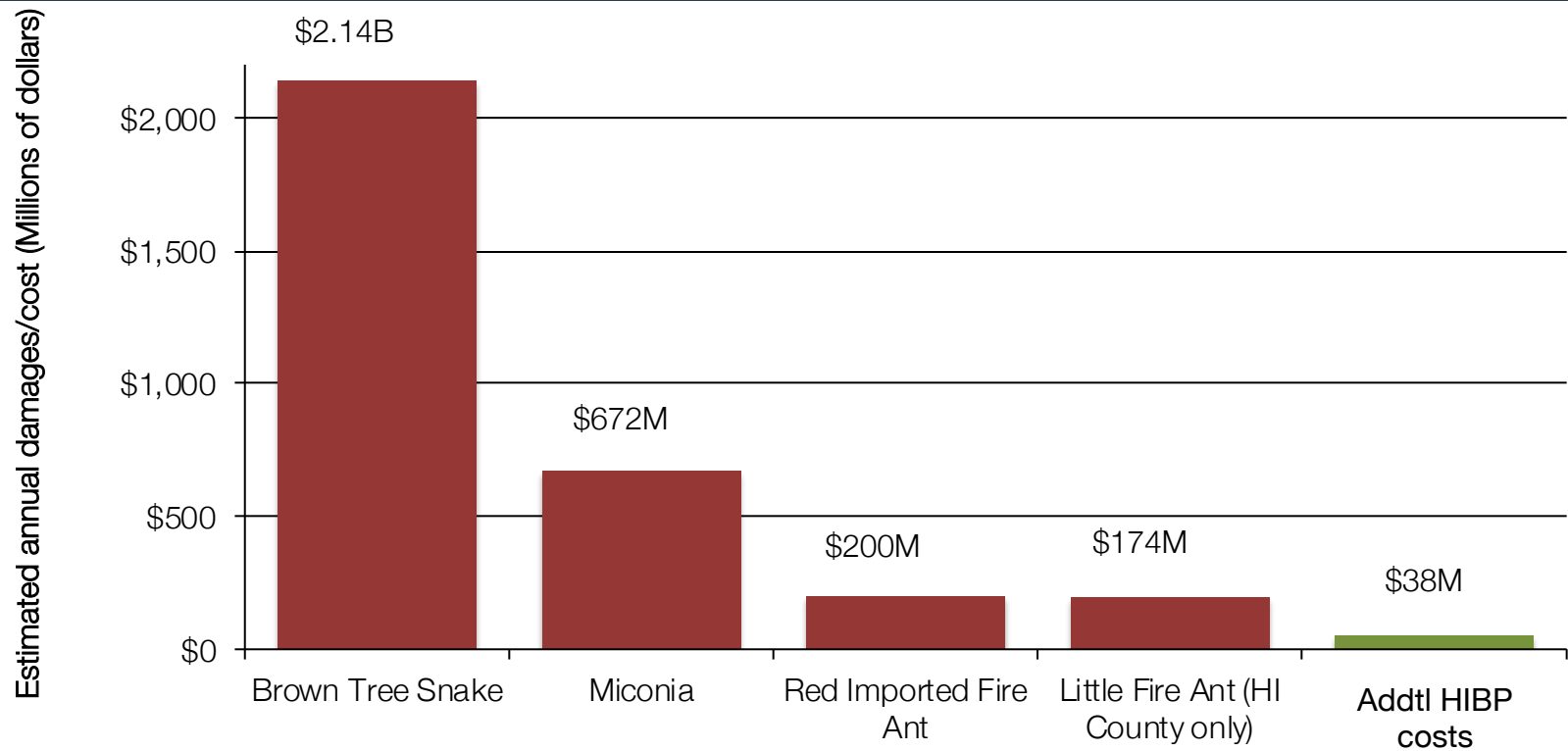
-  Biocontrol facility planning discussions ongoing
-  Restrictions on imported myrtles that threaten ohia
-  Restricted Plant Rules
-  Draft rules for ballast water management
-  New tools for ant & mosquito control
-  Addition of invasive species BMP's to EAs
-  Biocontrols for miconia, ginger, albizia, tibouchina



Needed

-  Capacity to co-manage vessel biofouling & ballast water discharge
-  CTAHR aquaculture extension agents
-  Biosecurity emergency response fund
-  DOFAW biosecurity techs for protected lands
-  Inspector positions at HDOA Plant Quarantine
-  Biocontrol facility construction funds

Costs in Context



Costs in Context



\$600 million agriculture industry; \$76M in aquaculture



\$14.9 billion tourism industry



Trillions in Natural Capital

The Koolau Mountain forest watershed alone is estimated at \$14 billion in economic and ecosystem services.



Our way of life in the islands ...

