

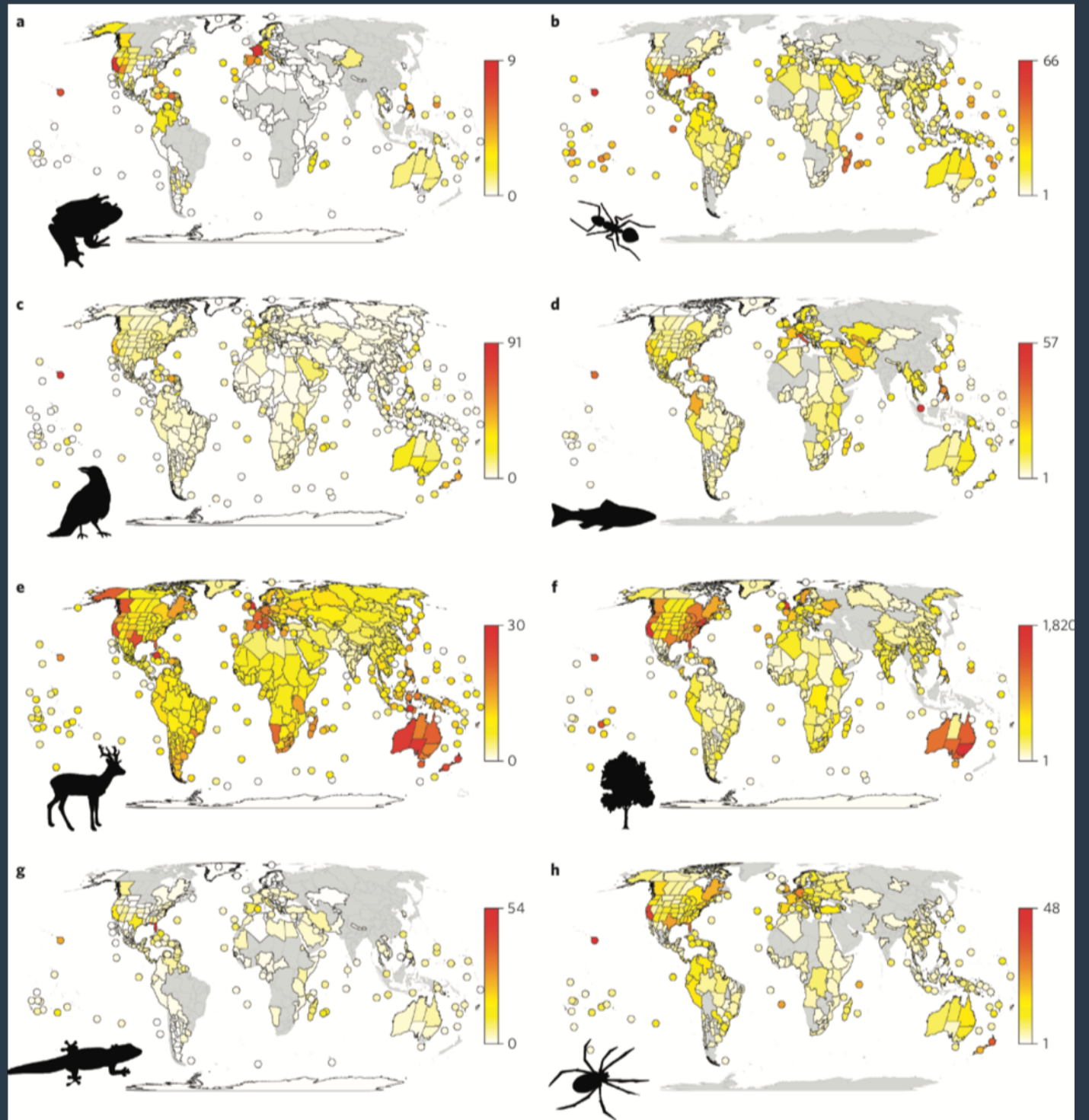
The 2027 Hawaii Interagency Biosecurity Plan

January 2019 Progress Update



Global hotspots and correlates of alien species richness across taxonomic groups

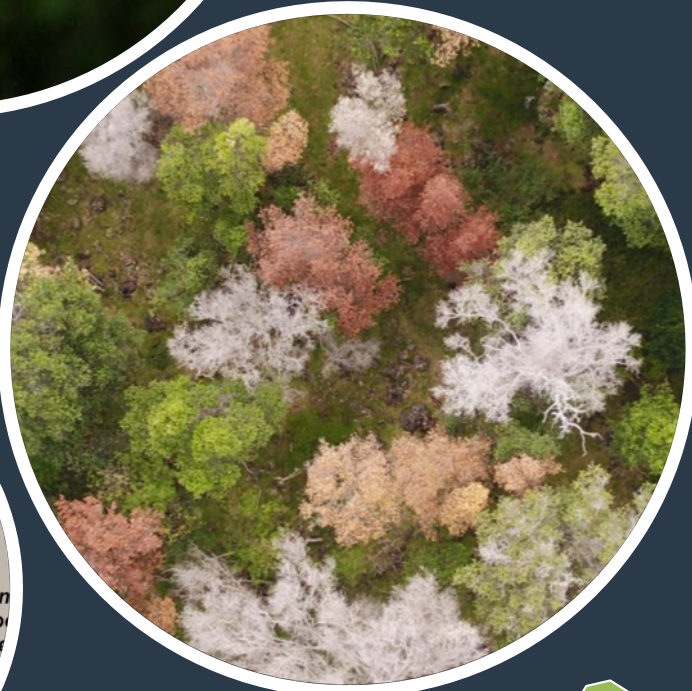
Dawson et al. 2017,
Ecology & Evolution,
1(186)





\$174M/yr
On Hawaii
Island alone

\$672M/yr



\$2B/yr



?



Dung Beetle

Oriental Flower Beetle

Cocon
Rhino
Beetle



Photo: CRB Response Team



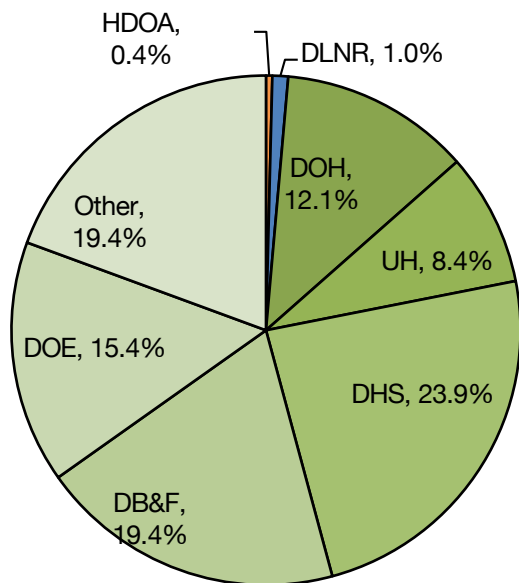
Photo: CRB Response Team

2017 Baseline

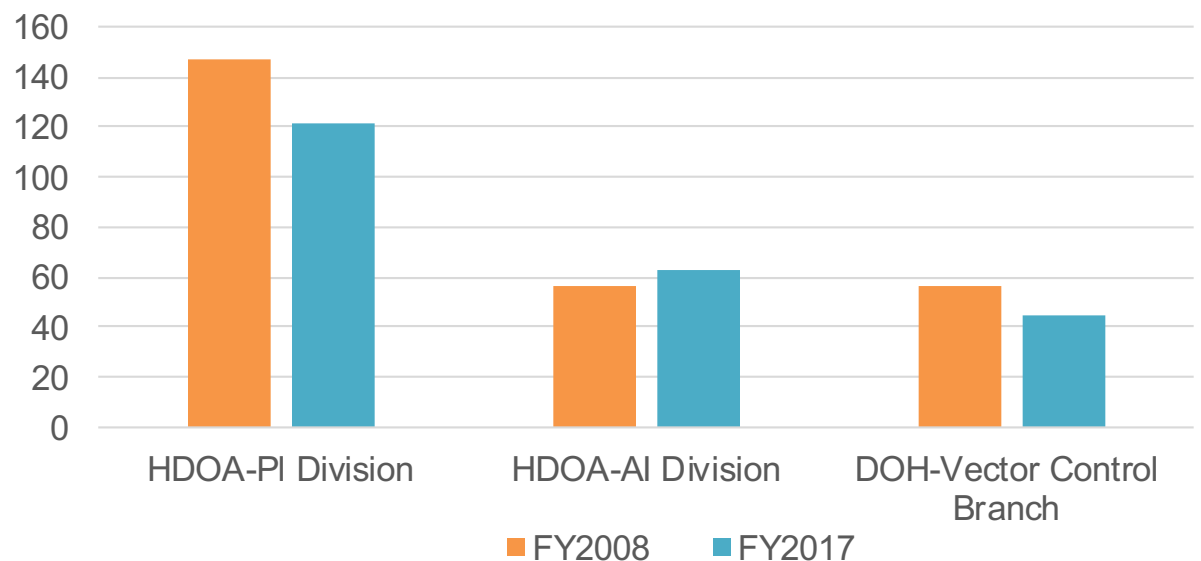
Known Gaps

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**



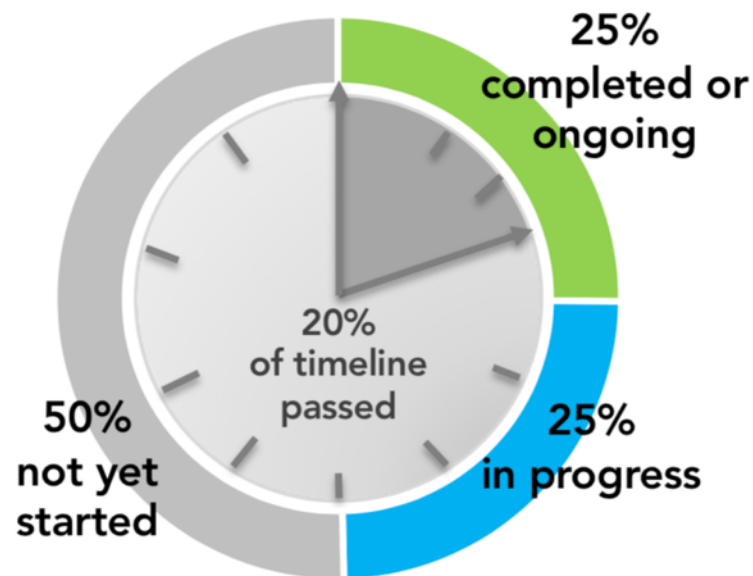
Biosecurity in 2027

- ❖ Risk assessments and electronic manifesting
- ❖ Regulation of ballast 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 January 2019 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.










50% of HIBP actions have been initiated, are ongoing in perpetuity, or have been completed. This is an increase of 4% over the past year.



HIBP January 2019 Progress Report









Completed

-  Vector Control restored
-  10 new extension agents
-  Detector dog program restored
-  Phase I of E-manifest technology developed
-  643pest.org online pest reporting tool
-  Airport biosecurity signs
-  Funds for biocontrol facility planning



In Progress

-  Restricted Plant List
-  Rapid ohia death emergency response plans
-  Vessel biofouling tools
-  Aquaculture risk assessment tool
-  Biocontrols for miconia, ginger, albizia
-  New tools for ant & mosquito control

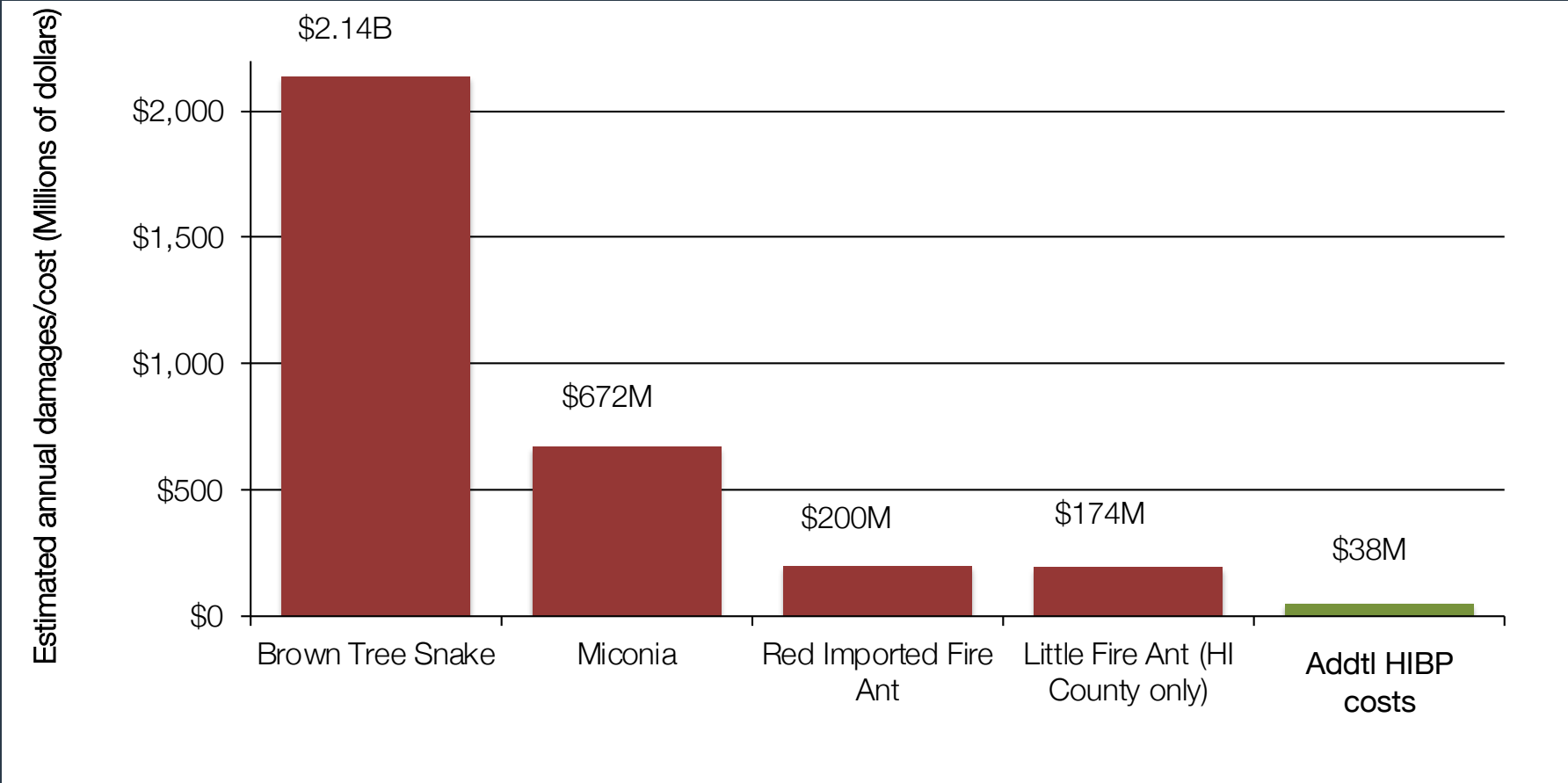


Needed

-  DOFAW biosecurity techs for protected lands
-  Specialist positions for import risk assessments
-  Biosecurity emergency response fund
-  Increased funds for HISC and watershed fencing
-  Policy changes for ballast water & hull fouling regs
-  Coqui barrier for Maliko Gulch, Maui



Costs in Context



Costs in Context



\$600 million agriculture industry



\$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 ...

