

Invasive Species Coordination Update: Overview of Efforts to Streamline Early Detection and Rapid Response to Invasive Species in the Delta

Rachel D. Wigginton, PhD
Delta Conservancy Board Meeting
January 27, 2022



SACRAMENTO - SAN JOAQUIN

DELTA CONSERVANCY

A California State Agency



Delta Interagency Invasive Species Coordination (DIISC) Team

- Formed in 2013 to foster communication and collaboration among groups that **detect, prevent,** and **manage** invasive species and **restore** invaded habitats
- Facilitated by Delta Conservancy



Agency logos for the DIISC Team co-chairs



Major DIISC Team Activities

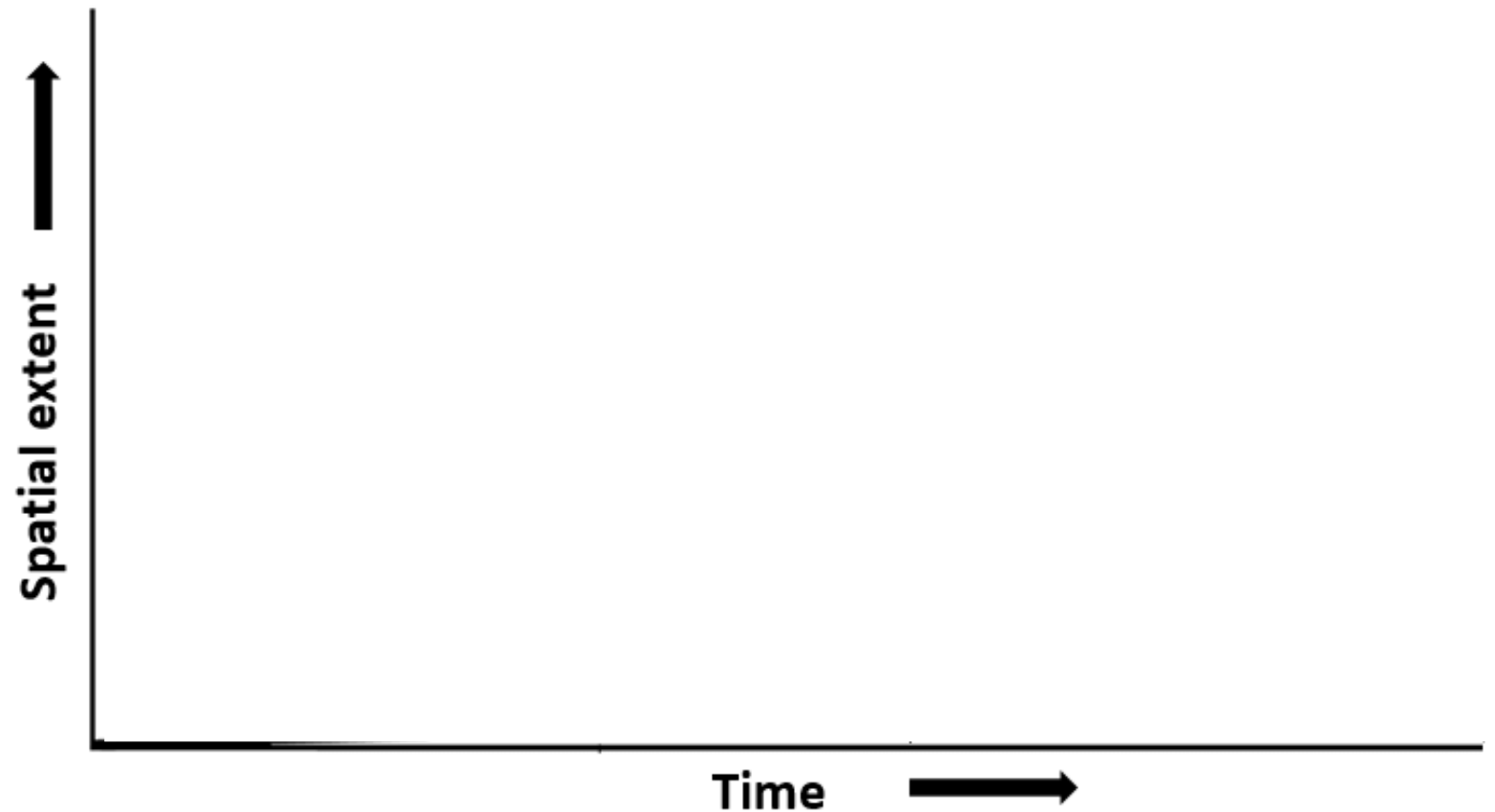
- Exchange Information
- Leverage Funding
- Research and Management
 - Early Detection and Rapid Response (EDRR)



Invasive alligator weed

What is Early Detection and Rapid Response?

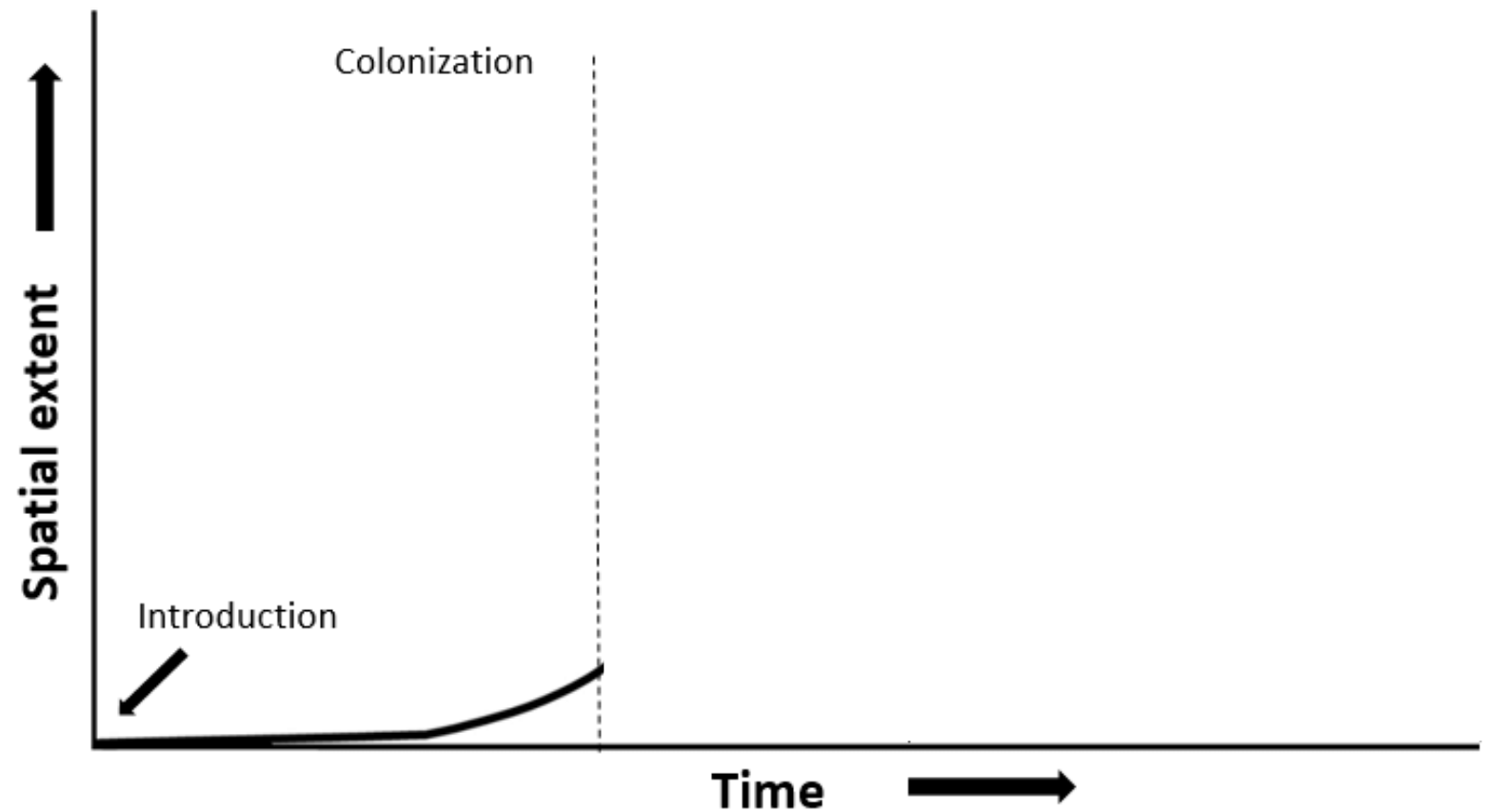
“a coordinated set of actions that aim to find and report, then eradicate potential invasive species before they spread and cause harm.”



Modified from Robichaud 2016

What is Early Detection and Rapid Response?

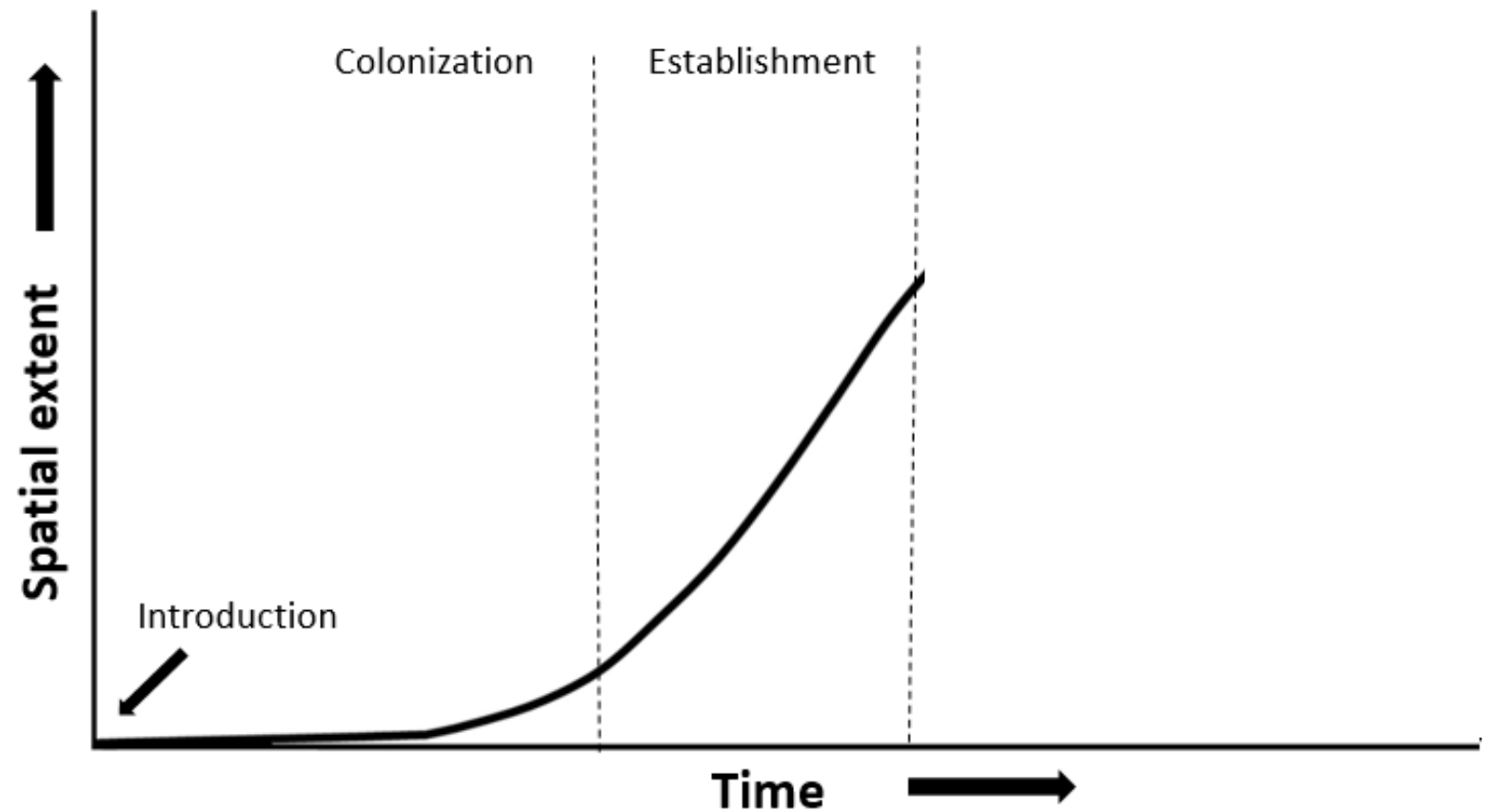
- Limited spatial extent
- Eradication is possible and cost effective



Modified from Robichaud 2016

What is Early Detection and Rapid Response?

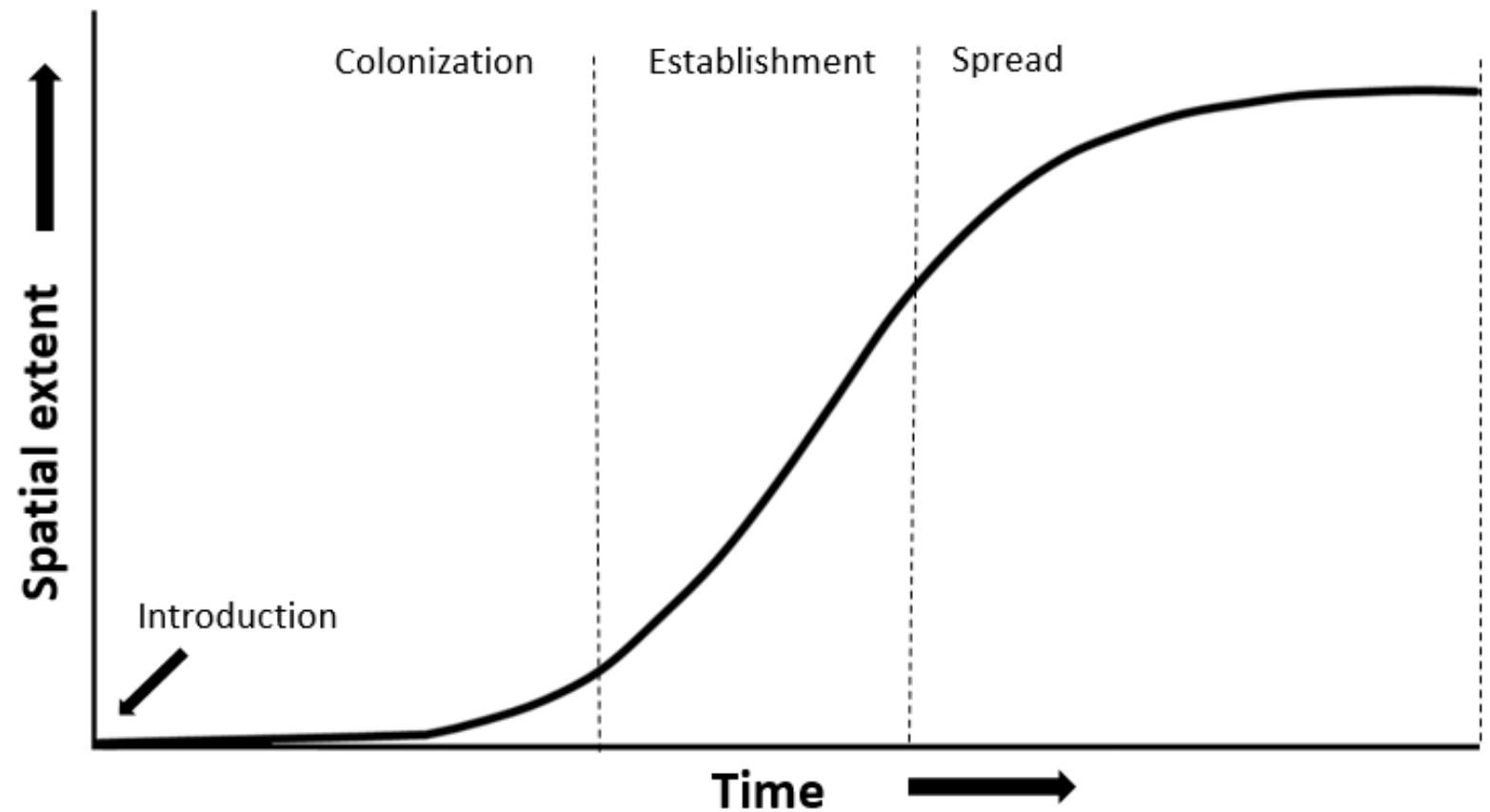
- Eradication is possible but takes intense effort and large commitment of resources



Modified from Robichaud 2016

What is Early Detection and Rapid Response?

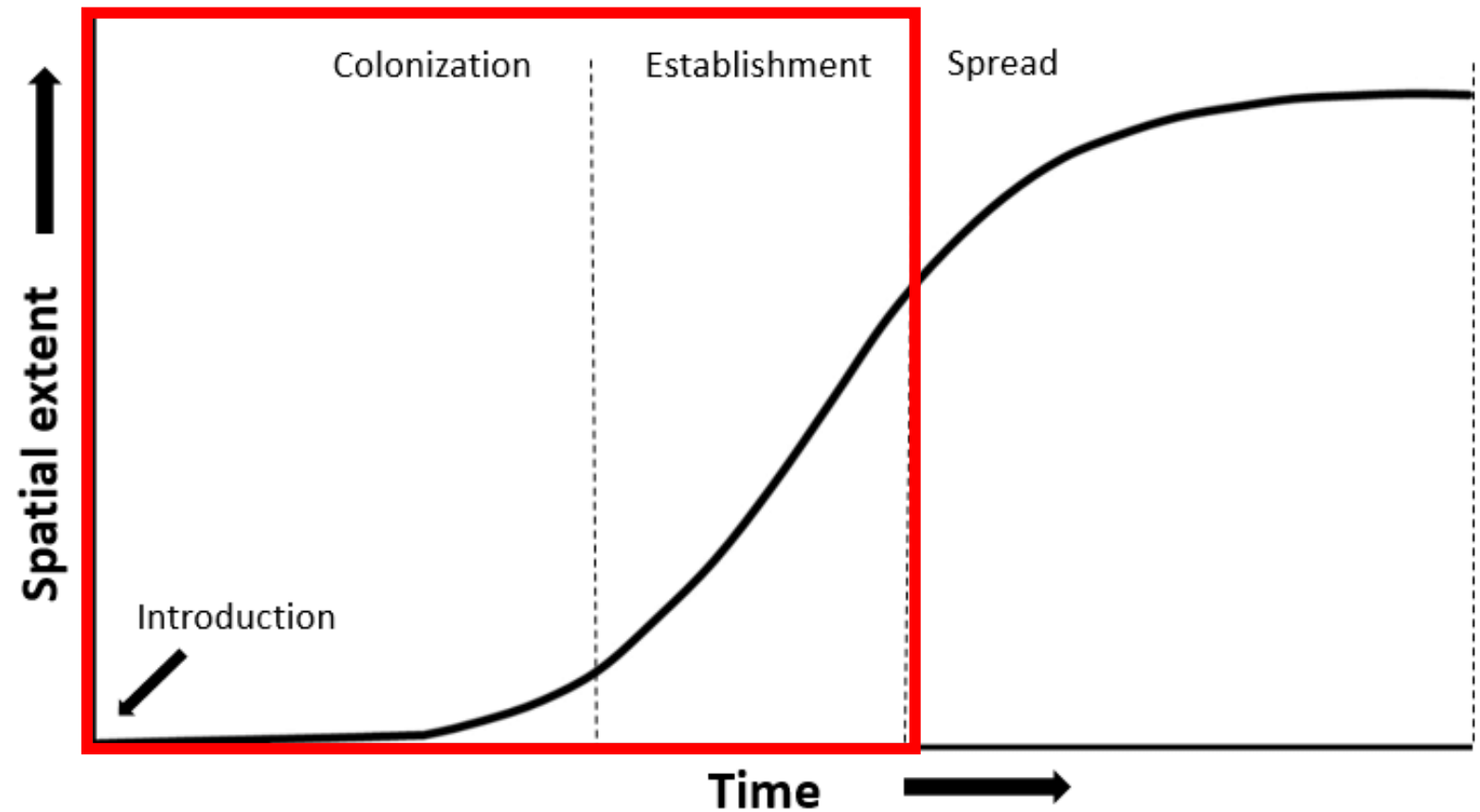
- Focus shifts from containment to control and maintenance
- Long-term costs of management add up



Modified from Robichaud 2016

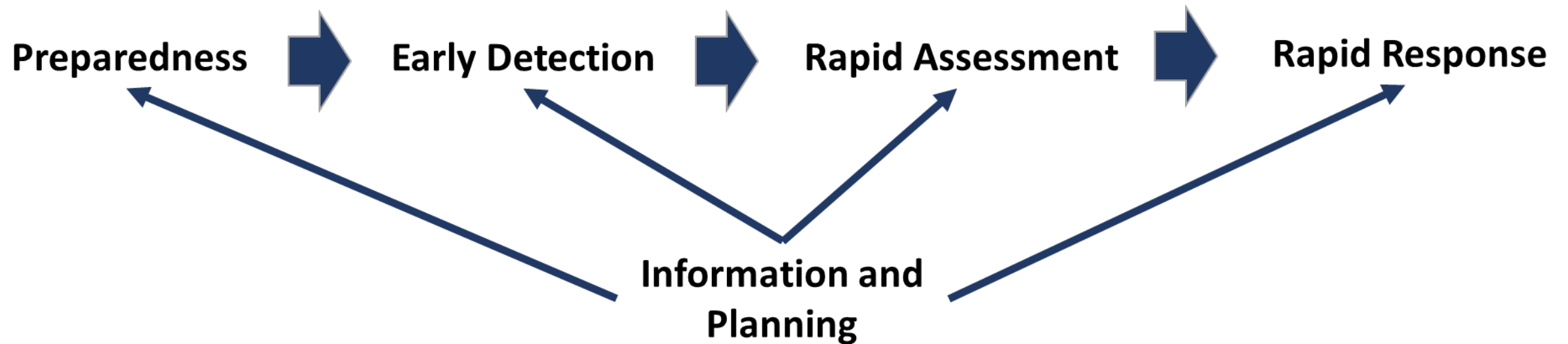
What is Early Detection and Rapid Response?

“a coordinated set of actions that aim to find and report, then eradicate potential invasive species before they spread and cause harm.”



Modified from Robichaud 2016

Draft Delta EDRR Framework Elements



Note: Prevention exists outside of the EDRR process, but should inform it

Draft EDRR Coordination Table

- Working group identification of known programs
- Desktop research
- Not exhaustive

Framework Element	Total Delta EDRR Resources	Total Organizations Involved
Preparedness	40	17
Early Detection	30	15
Rapid Assessment	6	6
Rapid Response	12	10

Table summarizes the number of Delta EDRR resources and involved organizations categorized by the four main EDRR Framework elements.

Draft Delta EDRR Framework

1. Preparedness

- a) Horizon Scanning
- b) Planning
- c) Research



2. Early Detection

- a) Training and Monitoring
- b) Detection and Reporting
- c) Communication and Outreach



3. Rapid Assessment

- a) Risk Screening and Risk Assessment
- b) Risk Management
- c) Risk Communication



4. Rapid Response

- a) Coordination and Leadership
- b) Containment and Quarantine
- c) Treatment and Eradication
- d) Monitoring, Adaptive Management, and Documentation

2021 Delta Invasive Species Symposium

- Focused on EDRR
- 180 individuals from more than 90 organizations
- Highlighted draft framework and coordination table
- Agenda and talk abstracts on the DIISC Team webpage
- Available to stream on the Conservancy's YouTube page

Next Steps

- Gather feedback on draft documents
- DIISC team quarterly meetings and EDRR working group will meet in early 2022
- Workshop to engage resource managers in 2022



SACRAMENTO - SAN JOAQUIN

DELTA CONSERVANCY

A California State Agency

Questions?

Rachel Wigginton

rachel.wigginton@deltacconservancy.ca.gov