

Invasive Plant Management 101

California Invasive Plant Council Training
Symposium 2016



Principles of Invasive Plant Management

Gina Darin

California Department of Water
Resources

Cal-IPC Volunteer since 2004

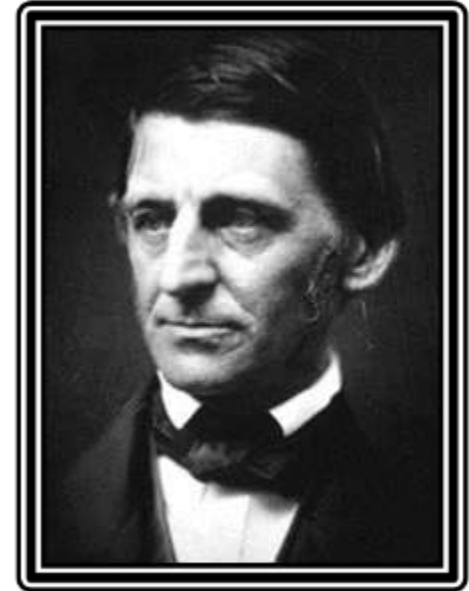


CAL-IPC
CALIFORNIA INVASIVE PLANT COUNCIL

“What is a weed?...

...A plant whose virtues have not yet been discovered.”

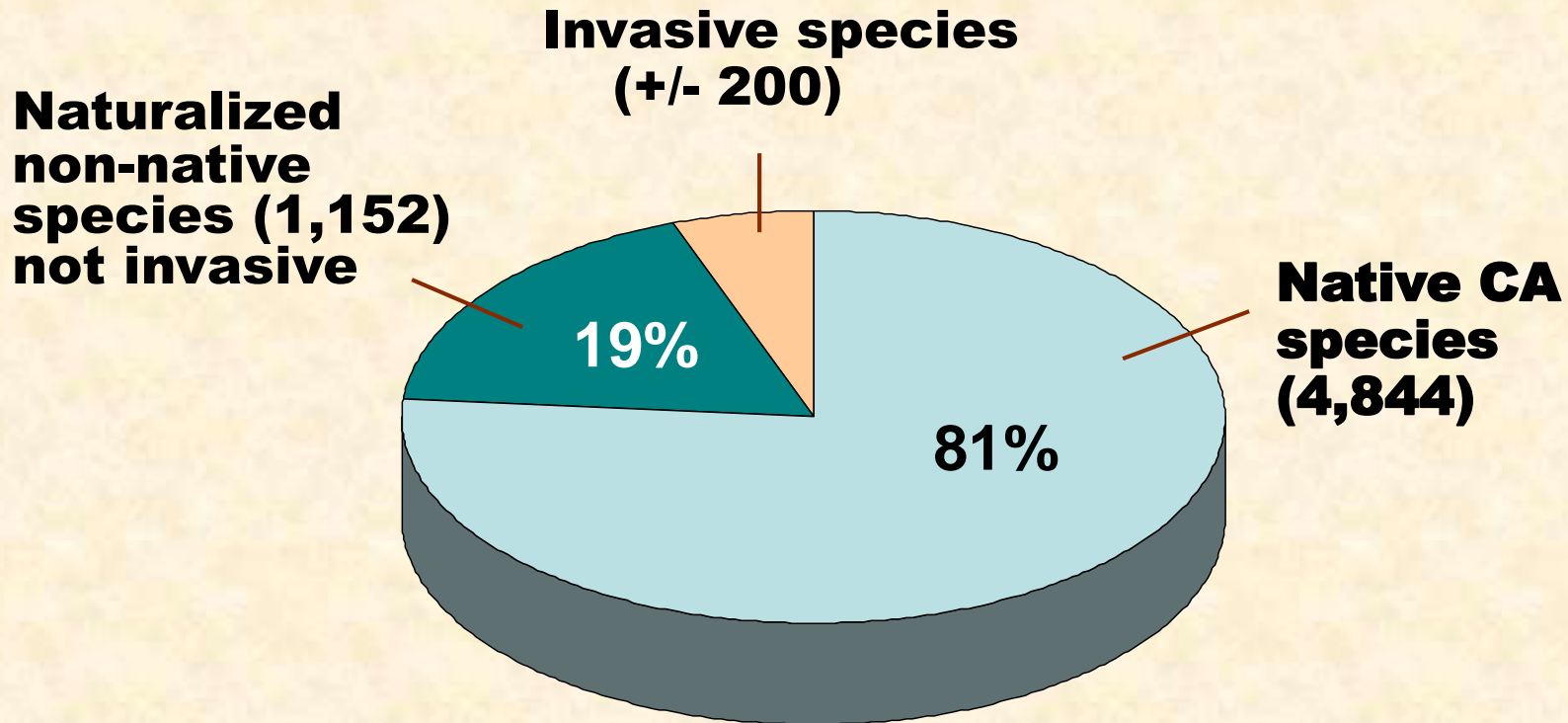
- Ralph Waldo Emerson
(1803-1882)



What is an Invasive Plant?

- **Non-native (can be regional)**
- **Impairs the ability of native California ecosystems to function**
 - Threatens native plants and wildlife, including endangered species
 - May cause economic losses
- **“Unfair advantage” makes it spread easily and difficult to control**
 - Natural predators are absent

How Many Invasive Plants are in California?



Source: Joe DiTomaso, UC Davis

- **Approximately 200 plants**
- **Categorized as**
 - **High**
 - **Moderate**
 - **Limited**
 - **Alert**

CALIFORNIA Invasive Plant INVENTORY

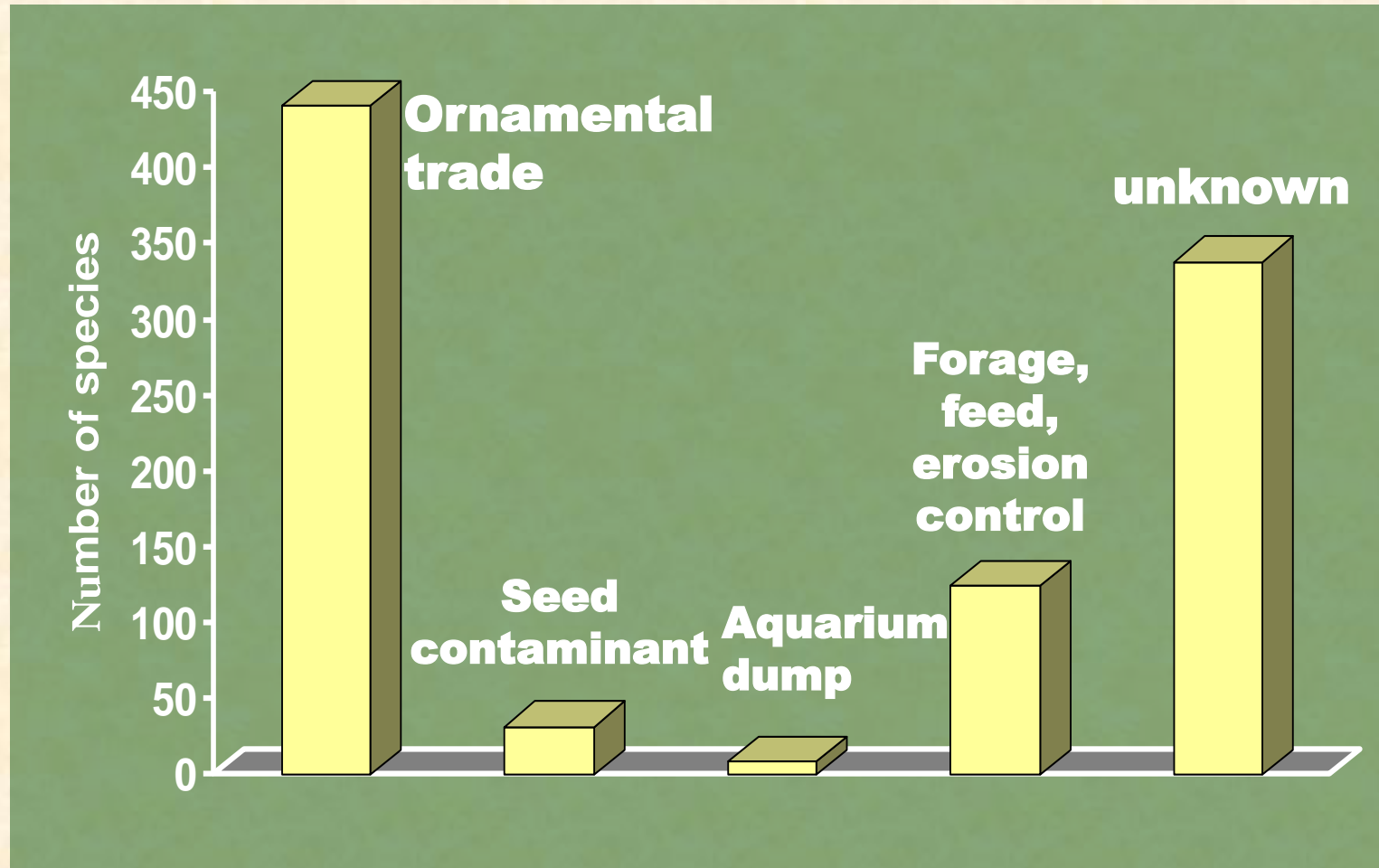


Published by the
California Invasive Plant Council

February 2006

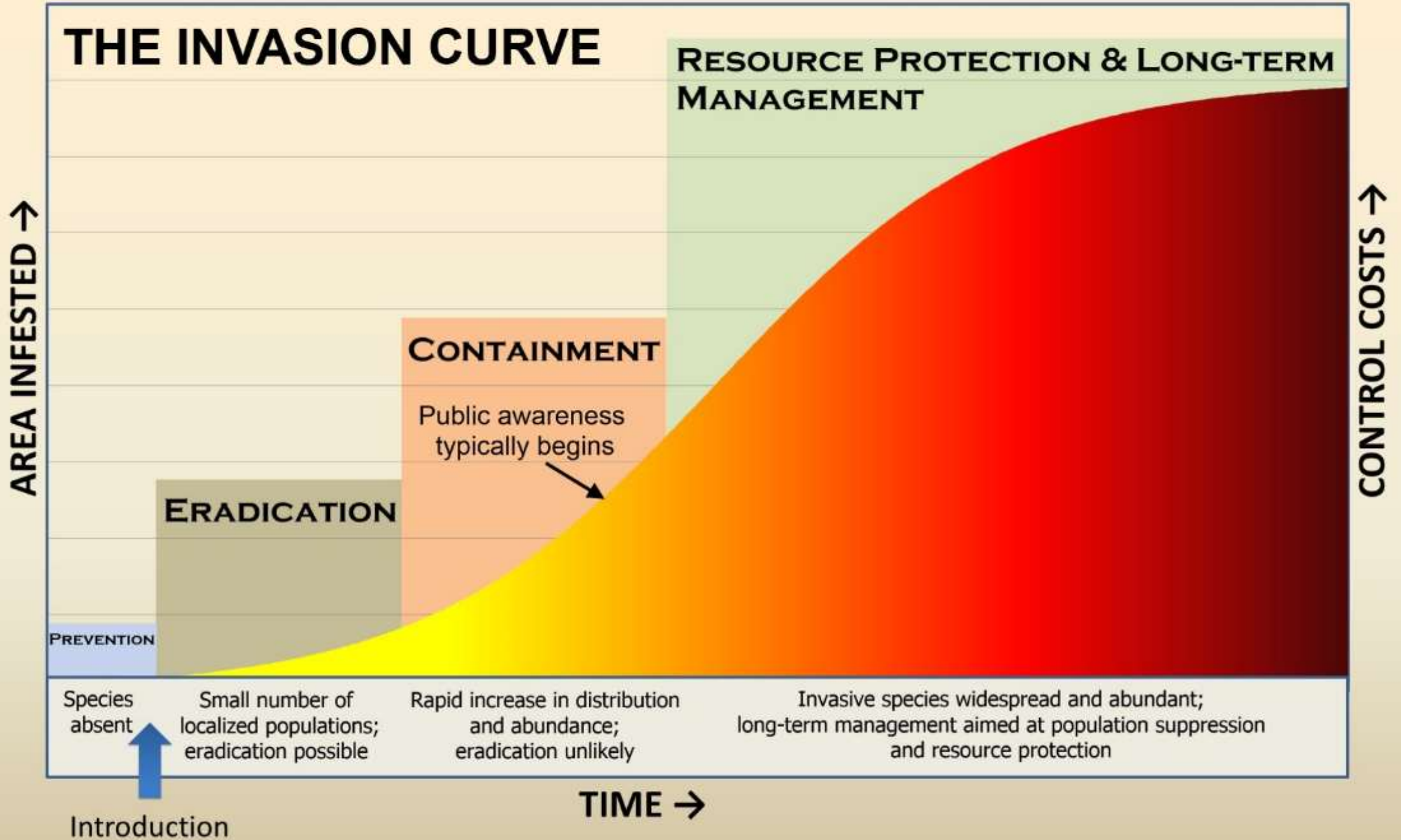


How Did They Get Here?

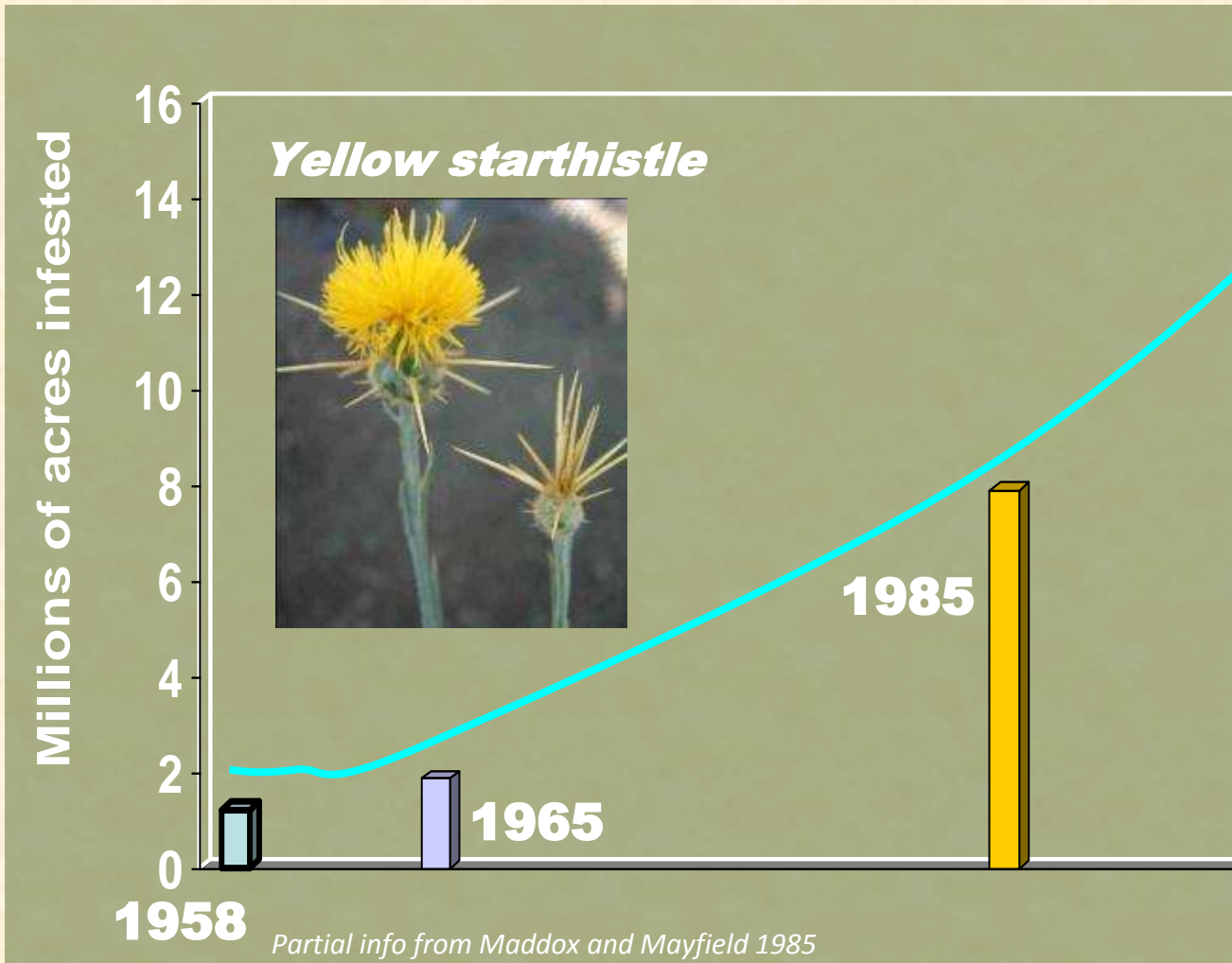


Source: DiTomaso, UC Davis

THE INVASION CURVE



How Fast Do They Spread



Know Your Enemy

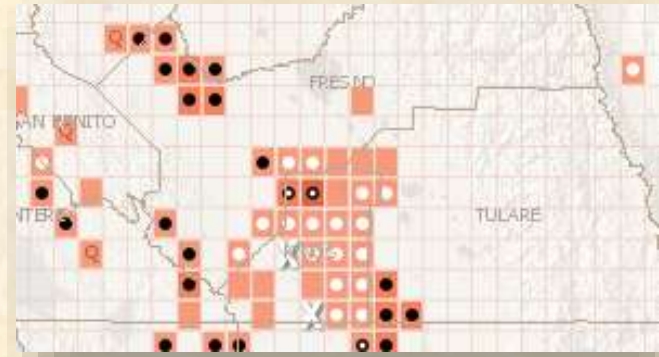
- » **Annuals**
- » **Biennials**
- » **Perennials**
- » **Woody plants**

By learning more about weed biology you will be better equipped to plan and implement effective weed control projects



Know the Distribution of Your Species

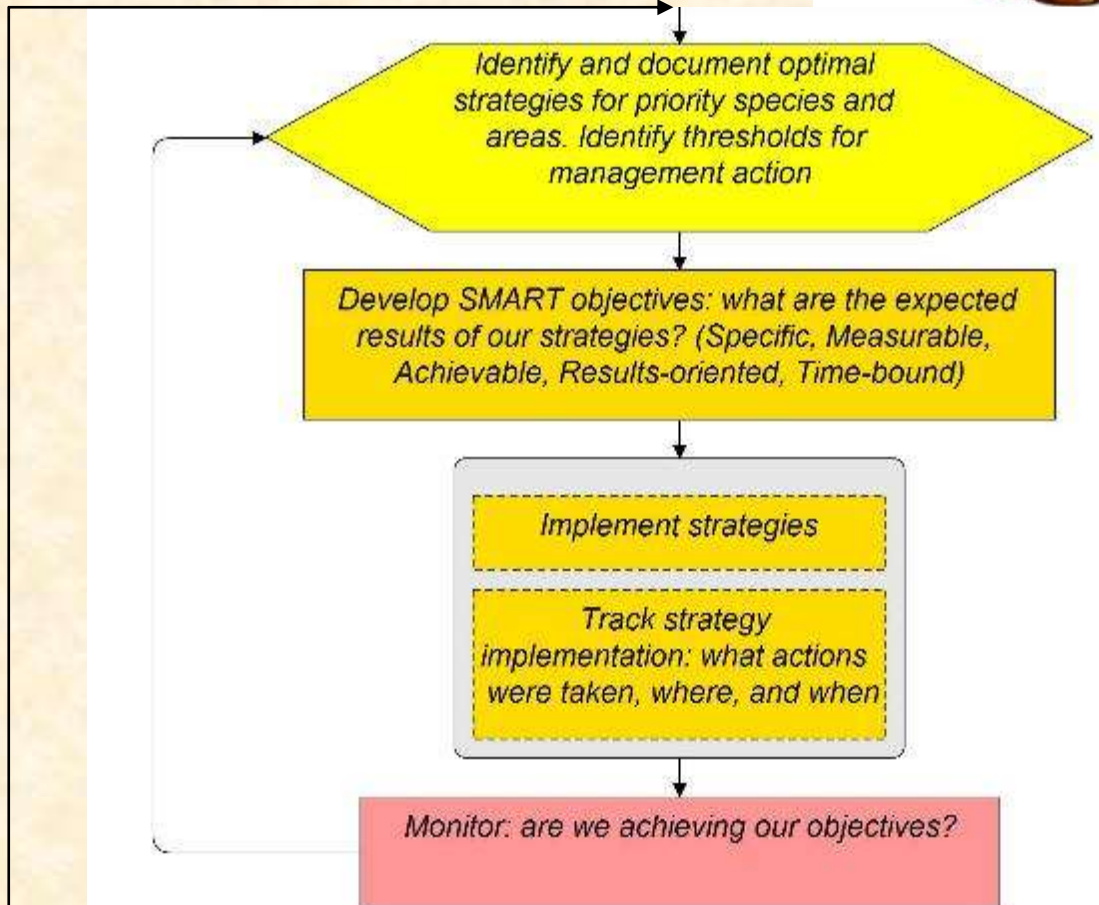
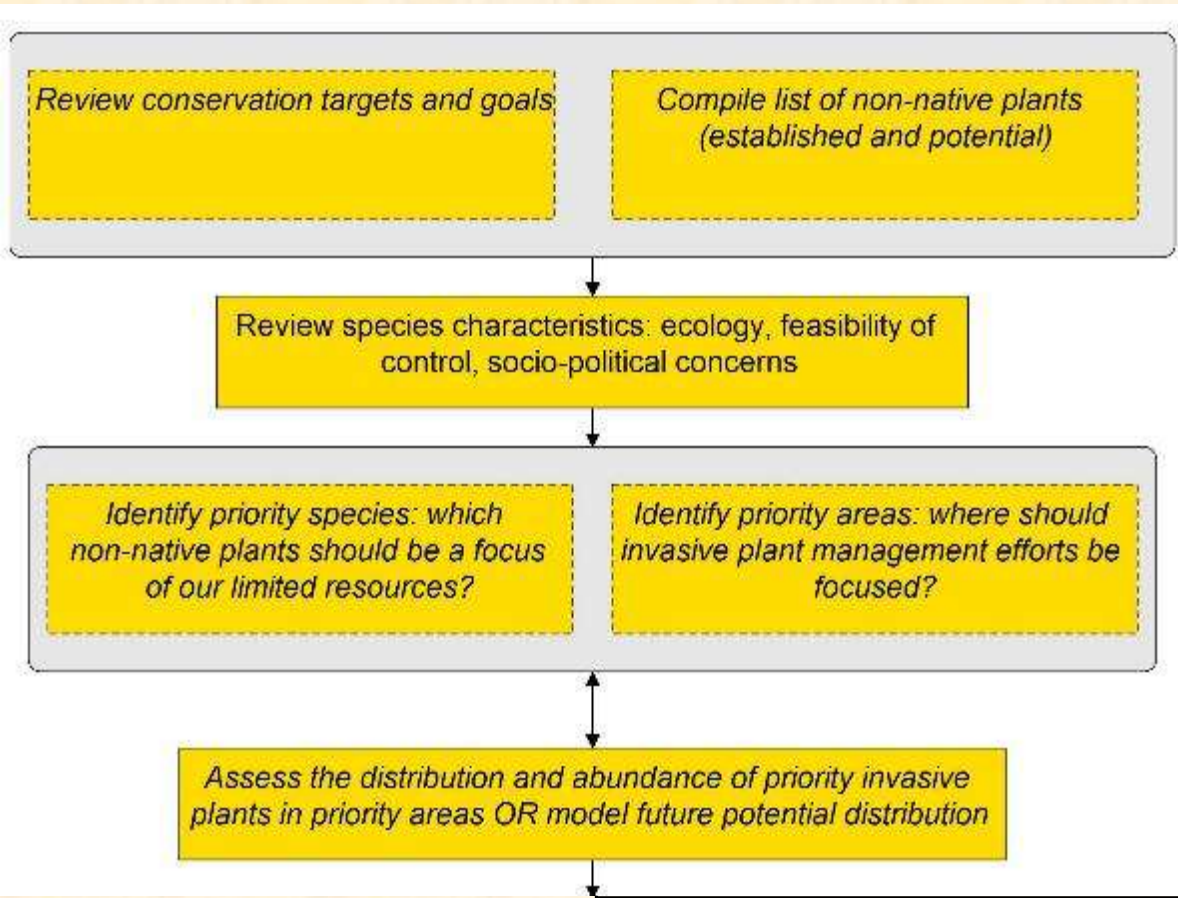
- **Inventory and map the infestation**
- **Early detection only happens if you survey**
 - **the sooner you control them the more time and money you save!**
- **Consult Weed Mapper**
 - **calweedmapper.cal-ipc.org**



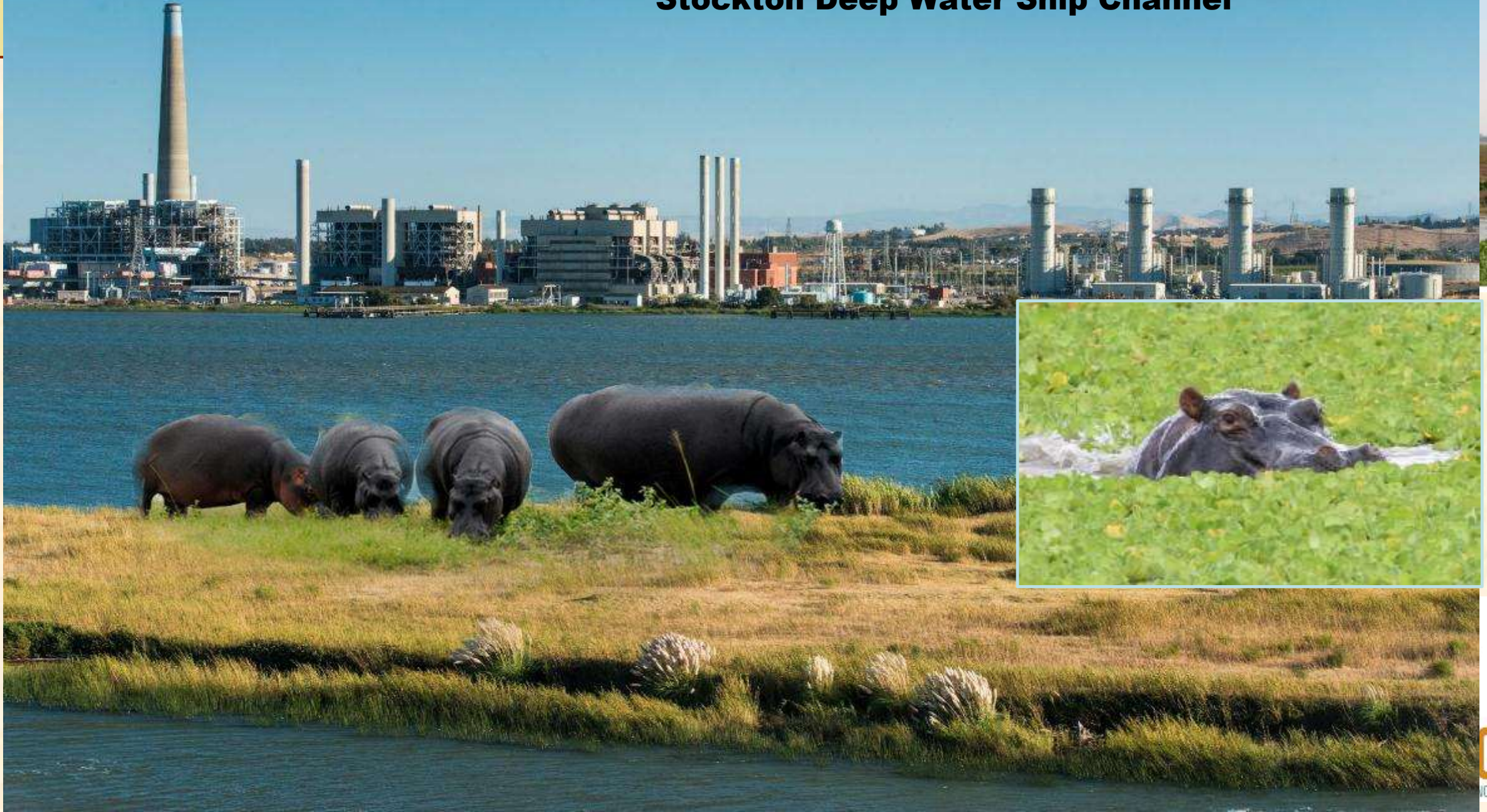
What can we do about it?



Conceptual Model of Strategic and Adaptive Invasive Plant Management



Stockton Deep Water Ship Channel



CEQA

Do you really need a permit?

CESA

1600



HELP!



404

NPDES

NEPA

ESA

401

How do you get funding???

Where?

Funding Sources

How?

Grant Applications

The Pitch?

Funder Values

No money?

Use Volunteers



Share & Steal With Pride

- **Consider your audience: visitors, policy makers, funders**
- **Craft your message: analogies, accessibility, language**
- **Controversy**
- **Share your learning moments**
- **Share all the expert knowledge you have gained!**



Policy and Agency Context



- **Federal**
 - **United States Department of Agriculture, Natural Resources Conservation Service**
 - Federal Noxious Weed List
 - 112 species
- **State**
 - **California Department of Food and Agriculture**
 - Section 4500, California Noxious Weed List
 - CDFA Pest Plant Rating List, AKA Encycloweedia
 - Approximately 250 species
- **Local**
 - **Weed Management Areas**



Look for Advice

- **Take More Field Courses**
- **Consult the Web**
 - <http://www.cal-ipc.org>
 - <http://tncinvasives.ucdavis.edu>
 - <http://www.invasive.org/>
 - **More resources listed on Cal-IPC Website**
- **Ask an expert**
 - **Weed Management Areas**
 - **UC Cooperative Extension**
 - **Field course instructors**
- **Experiment!**



A photograph of a field of purple flowers, likely a groundcover, with a boat in the foreground and a dense green hedge in the background. The text is overlaid on the image.

California Invasive Plant Council
Protects California's environment and
economy from invasive plants
www.cal-ipc.org



Thank you!

gina.darin@water.ca.gov

