

Invasive Exotic Species Strategic Action Framework

April 2, 2014





2013 Task Force Direction

- July 9, 2013 Task Force Meeting
 - The Working Group recommended the development of a Comprehensive Invasive Species Strategic Action Framework (2013) that includes a cross cut budget (2010)
 - OERI to hold a high-level partnership workshop to discuss Strategic Action Framework
 - Provide coordination support for federal invasive species efforts (2010)



Goals for Today

- Update the Working Group and Science Coordination Group on the Strategic Action Framework
- Get feedback on the Framework's:
 - Structure
 - Goals
 - Objectives

Activity to Date

- Held 4 IES Strategic Framework meetings
- Briefed the WG/SCG (11/19/13)
- Briefed the Task Force (12/17/13)
- Continuing to broaden the partnership





Current Status

- Simultaneously developing:
 - Printable Framework
 - Web-based Framework
 - Suite of case studies
- Initiated process to update the Task Force's overarching Strategy to better address invasive exotic species

Draft Framework

Vision, Goals, and Case Studies



Why a Strategic Action Framework?

- Help decision-makers understand the connections between goals, strategies, and tactics;
- Maximize the extent to which the current capacity for partnership is leveraged to meet common goals;
- Help decision-makers make wise and timely investment decisions in the battle against invasive exotics; and
- Define success and provide for accountability.



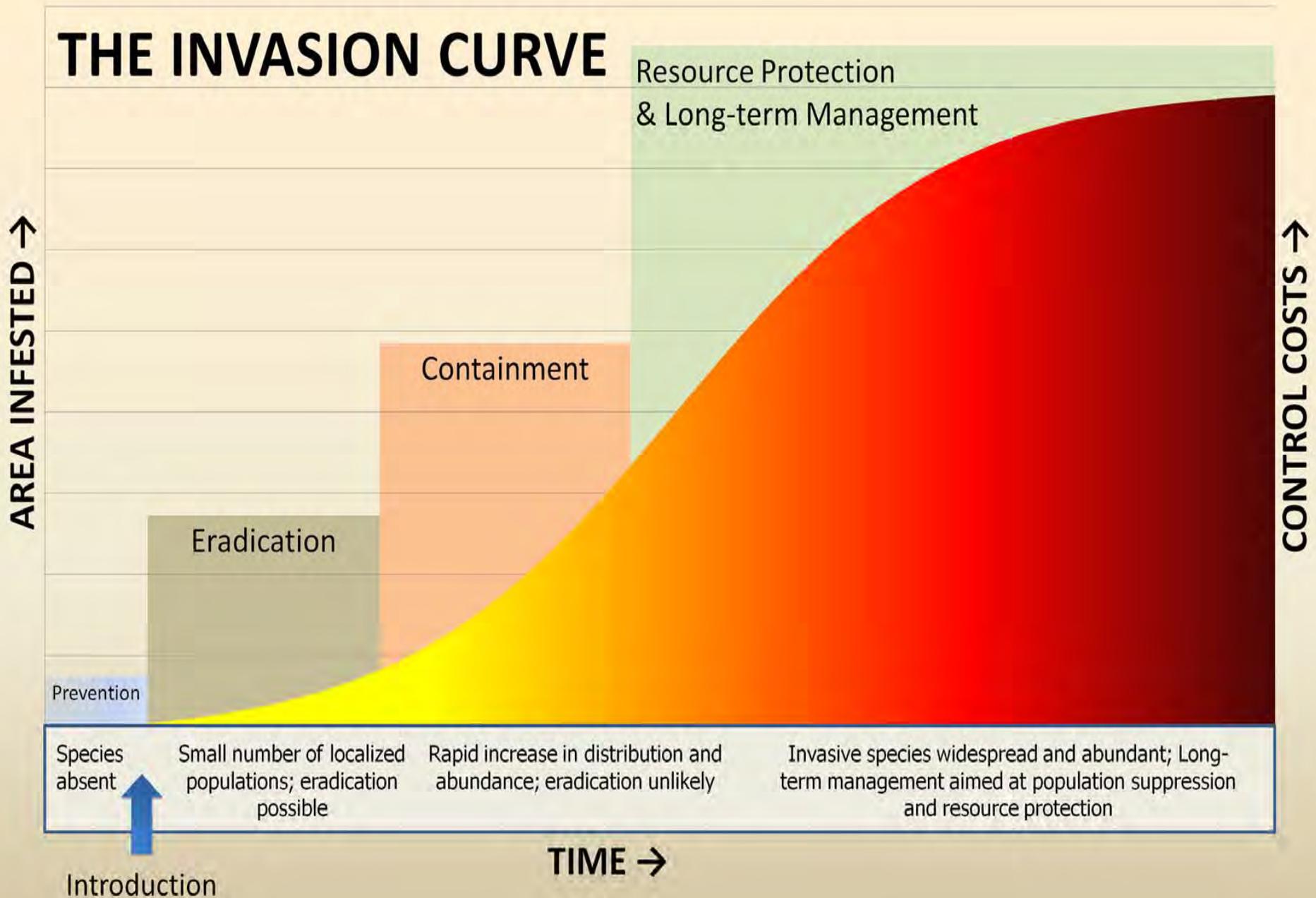
The Stakes Are High

- The South Florida Ecosystem, ecologically unique and imperiled by numerous threats, is the subject of the largest ecosystem scale restoration program in the world.
- The South Florida Ecosystem is also home to:
 - a culturally diverse population of almost 8 million residents, including two Indian tribes,
 - world renowned recreational opportunities, and
 - strong agricultural and tourism-based economic engines.
- Invasive exotic species threaten our environment, economy, culture, and human health.
- Combating invasive exotic species is integral to successful ecosystem restoration and the sustainability of south Florida.

Science, Outreach, Coordination, and Funding are Vital

- Science forms the foundation for the strategies within every goal area.
- Invasive exotic species issues are inherently multi-disciplinary.
- Success will require interagency cooperation, innovative partnerships, and an informed, involved public.
- A successful invasive exotic species program requires long-term commitment of resources.

THE INVASION CURVE



THE INVASION CURVE

Resource Protection
& Long-term Management

Goal 1: Prevent the introduction of invasive exotic species.

AREA INFESTED →

CONTROL COSTS →



Prevention

Eradication

Containment

Species absent

Small number of localized populations; eradication possible

Rapid increase in distribution and abundance; eradication unlikely

Invasive species widespread and abundant; Long-term management aimed at population suppression and resource protection

Introduction

TIME →

Goal 1: Prevent introduction of invasive exotic species

Preventing introductions of new invasive exotic species is the most cost effective strategy and can yield benefits if invested in upfront and if current barriers are addressed.

- Objectives:
 - **Prioritize**: Prioritize prevention efforts.
 - **Prevent**: Prevent high priority invasive exotic species from entering
- Case Studies:
 - Heartwater Diseases
 - Yellow Anaconda
 - Don't Pack a Pest



THE INVASION CURVE

Resource Protection
& Long-term Management

Goal 2: Eradicate invasive exotic species by implementing Early Detection and Rapid Response (EDRR).

AREA INFESTED →

CONTROL COSTS →



Species absent	Small number of localized populations; eradication possible	Rapid increase in distribution and abundance; eradication unlikely	Invasive species widespread and abundant; Long-term management aimed at population suppression and resource protection
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Introduction

TIME →

Goal 2: Eradicate invasive exotic species by implementing EDRR

Successful eradication of newly established invaders through EDRR requires formal collaboration and dedicated staff and funding.

- Objectives:
 - **Prepare & Monitor**: Prepare and monitor to enhance early detection.
 - **Assess**: Ensure rapid assessment of newly detected species.
 - **Respond**: Rapidly respond to identified threats.
- Case Studies:
 - Gambian Pouched Rats
 - Sacred Ibis
 - Tephritid fruit flies



By: Poskan Komentar

THE INVASION CURVE

Resource Protection
& Long-term Management

Goal 3: Contain the spread of invasive exotic species.

AREA INFESTED →

CONTROL COSTS →



Species absent Small number of localized populations; eradication possible Rapid increase in distribution and abundance; eradication unlikely Invasive species widespread and abundant; Long-term management aimed at population suppression and resource protection

Introduction

TIME →

Goal 3: Contain the spread of invasive exotic species

Consistent resources to address containment, resource protection, and long-term management are needed.

- Objectives:
 - **Coordinate**: Standardize containment efforts through enhanced coordination.
 - **Contain**: Utilize existing control tools to contain invasive exotic species.
 - **Invest**: Invest in monitoring, research, science, and tool development.
 - **Assess & Adapt**: Determine effectiveness of containment efforts on populations of invasive exotic species.

Goal 3: Contain the spread of invasive exotic species

Argentine Black and White Tegu



Photo: Dennis Giardina, FWC

- Case Studies:
 - Argentine black and white tegu

THE INVASION CURVE

Resource Protection
& Long-term Management



Goal 4: Reduce the populations of widely established invasive exotic species and maintain at lowest feasible levels.

AREA INFESTED →

CONTROL COSTS →



Species absent Small number of localized populations; eradication possible Rapid increase in distribution and abundance; eradication unlikely Invasive species widespread and abundant; Long-term management aimed at population suppression and resource protection

Introduction

TIME →

Goal 4: Reduce the populations of widely established invasive exotic species and maintain at lowest feasible levels.

Consistent resources to address population reduction, resource protection, and long-term management are needed.

- Objectives:
 - **Combat**: Reduce the population of established invasive exotic species through new controls or increased utilization of existing control tools.
 - **Restore**: Reduce impacts of invasive exotic species through restoration of native habitats and species.
 - **Invest**: Invest in monitoring, research, science, and tool development.
 - **Assess & Adapt**: Determine effectiveness of long-term management efforts on populations of invasive exotic species.

Goal 4: Reduce the populations of widely established invasive exotic species and maintain at lowest feasible levels.

- Case Studies:
 - Shoebutton Ardisia
 - Ambrosia beetle/laurel wilt disease
 - Lionfish
 - Burmese python
 - Melaleuca



Next Steps





Next Steps

- Looking for Working Group/Science Coordination Group feedback on the Framework's structure, goals, and objectives.
- Refining the draft with IES partners.
- Continuing to enhance web-based framework.



IES Framework Schedule

- April 2 – Progress update presented to the Working Group/Science Coordination Group
- April 9 – IES Framework working meeting
- May 5/6 – Progress update presented to the Task Force