

Invasive Exotic Species Strategic Action Framework

June 19, 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)



Current Status

- Simultaneously developing:
 - Printable Framework
 - Web-based Framework
 - Suite of case studies
- Updating the Task Force's overarching ecosystem restoration Strategy and Biennial Report to better address invasive exotic species



Goals for Today

- Finalize strategies & action steps
- Identify priority actions
- Discuss cross-cut budget tool
- Discuss next steps
- Schedule next meeting

Draft Framework

Goals, Objectives, and Strategies



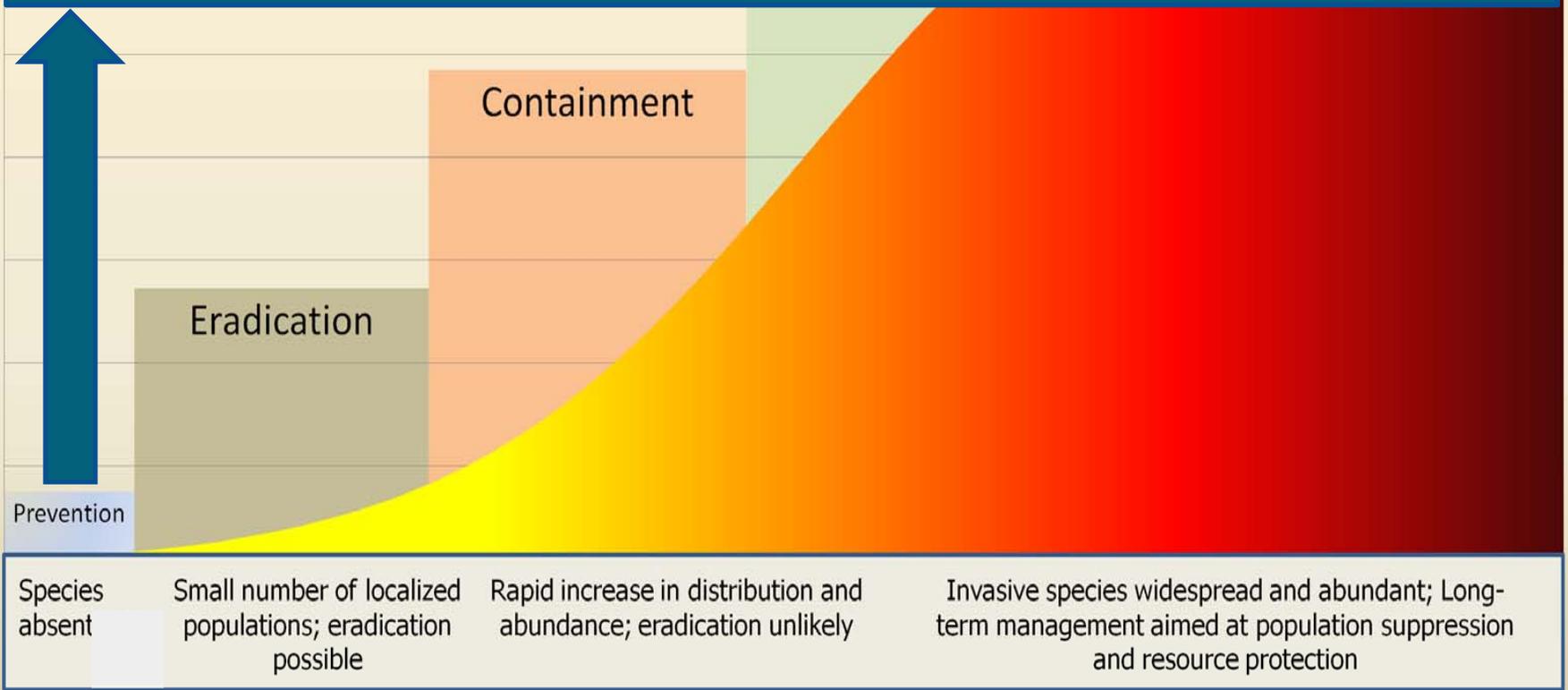
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Resource Protection
& Long-term Management

Goal 1: Prevent the introduction of invasive exotic species.

AREA INFESTED →

CONTROL COSTS →



TIME →

Goal 1: Prevent introduction of invasive exotic species

Objectives:

- Prepare & Prioritize
- Prevent

Objective 1A: Prepare for and prioritize prevention efforts

Strategy 1A1:	Identify pathways and prioritize potential threats.
Strategy 1A2:	Conduct outreach to support prevention efforts.

Objective 1B: Prevent entry of invasive exotic species

Strategy 1B1:	Implement prevention procedures at points of origin.
Strategy 1B2:	Enhance and improve the pathway inspection/screening process by: <ul style="list-style-type: none">• Increasing first detector training,• Increasing capacity for regulatory inspections, and• Increasing success of public declarations.
Strategy 1B3:	Develop new/utilize existing voluntary and regulatory tools.
Strategy 1B4:	Improve pathway awareness and engage the public in prevention efforts.
Strategy 1B5:	Restore habitats and recover ecological functions to help prevent pest invasions.

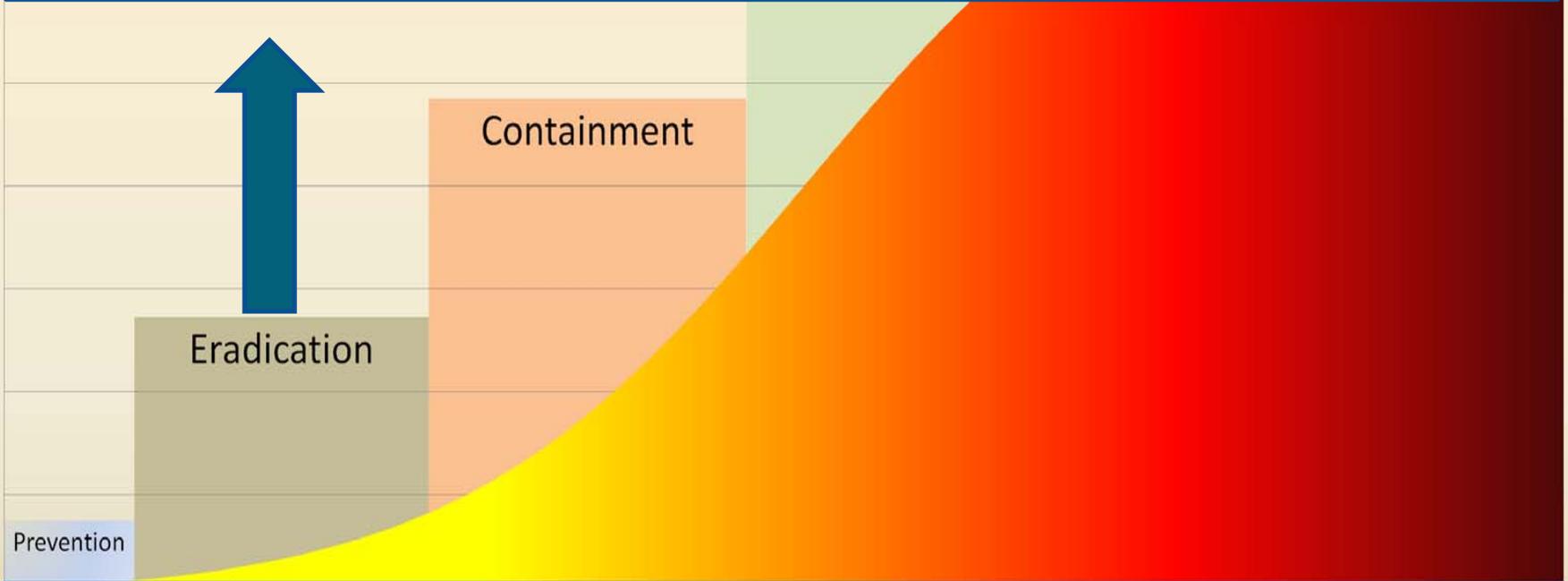
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Goal 2: Eradicate invasive exotic species by implementing Early Detection and Rapid Response (EDRR).

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

Introduction

TIME →

Goal 2: Eradicate invasive exotic species by implementing EDRR

- Objectives:
 - **Prepare & Monitor**
 - **Assess**
 - **Respond**

Objective 2A: Prepare and monitor to enhance early detection

Strategy 2A1:	Expand and implement a systematic, prioritized, all-taxa monitoring and inventory plan.
Strategy 2A2:	Utilize existing and develop needed regional monitoring/reporting network to increase likelihood of detection.
Strategy 2A3:	Employ science and technology for development of early detection tools, e.g., surveys, traps, inspections.
Strategy 2A4:	Engage the public and provide exotic species reporting mechanisms.
Strategy 2A5:	Establish rapid assessment and response programs/processes/cooperatives that allow for nimble attempts at eradication.

Objective 2B: Ensure rapid **assessment** of newly detected species.

Strategy 2B1:	Rapidly assess the status of newly detected incipient invasive species populations.
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Objective 2C: Rapidly **respond** to identified threats.

Strategy 2C1:

Initiate rapid response based upon the plan of action developed during the assessment phase.

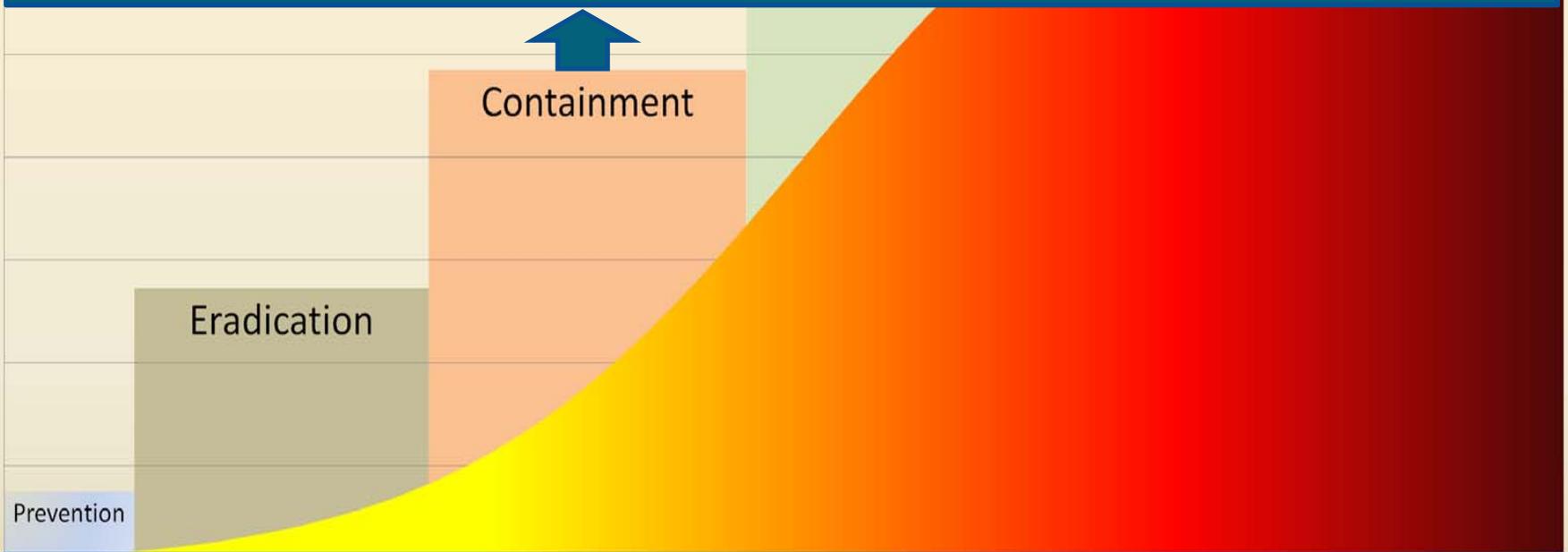
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Goal 3: Contain the spread of invasive exotic species.

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

- Objectives:
 - **Control**
 - **Improve**

Objective 3A: Utilize existing control tools to contain invasive exotic species.

Strategy 3A1:	Implement best management practices to prevent the inadvertent spread of invasive exotic species.
Strategy 3A2:	Implement control efforts at containment boundaries and known pathways.
Strategy 3A3:	Retreat or reassess areas to ensure containment of invasive exotic plants and animals.
Strategy 3A4:	Eliminate incipient populations.
Strategy 3A5:	Enforce existing laws regarding transporting and releasing exotic species to prevent spread.

Objective 3B: Improve effectiveness of containment efforts on invasive exotic species populations.

Strategy 3B1:	Invest in science-based containment methods.
Strategy 3B2:	Assess effectiveness of containment efforts.
Strategy 3B3:	Adapt containment efforts to improve success.
Strategy 3B4:	Standardize containment efforts through enhanced coordination.
Strategy 3B5:	Improve public awareness of the need for ongoing containment efforts.

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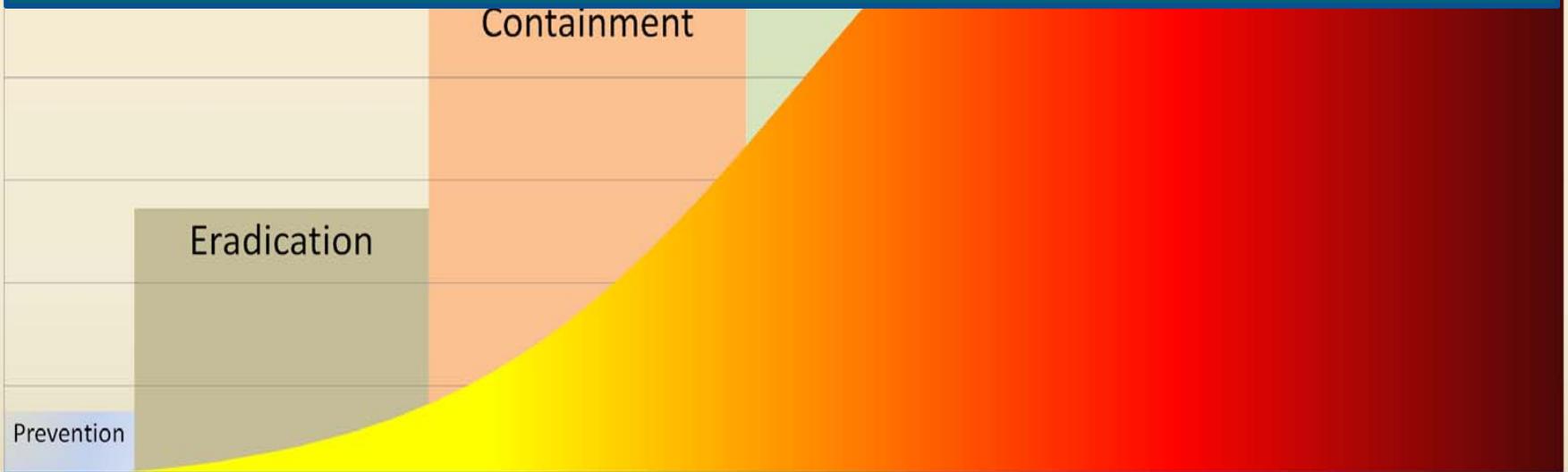
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Goal 4: Reduce the populations of widely established invasive exotic species and maintain at lowest feasible levels.

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.

- Objectives:
 - **Combat**
 - **Restore & Recover**
 - **Improve**

Objective 4A: Reduce population and extent of established invasive exotic species through control tools.

Strategy 4A1:	Eliminate, to the extent possible, invasive exotic plants and animals from natural areas by: <ul style="list-style-type: none">• Reducing invasive exotic species densities,• Reducing reproductive capacities of invasive exotic species, and• Employing a variety of control measures
Strategy 4A2:	Conduct routine surveys to detect new infestations and new species.
Strategy 4A3:	Prevent the spread of established invasive exotics into unimpacted areas.

Objective 4B: Reduce impacts of invasive exotic species through restoration of native habitats and species.

Strategy 4B1:	Support efforts to increase total spatial extents of natural areas and restore natural hydrology.
Strategy 4B2:	Ensure invasive species management activities support other restoration efforts.
Strategy 4B3:	Reintroduce populations of extirpated and rare species, and augment existing populations where appropriate to improve native plant and animal species abundance and diversity.
Strategy 4B4:	To the extent possible, recover ecological services and natural functions in native habitats.

Objective 4C: Improve effectiveness of long-term management efforts on invasive exotic species populations.

Strategy 4C1:	Assess effectiveness of long-term management efforts.
Strategy 4C2:	Adapt management efforts to improve success.
Strategy 4C3:	Conduct inventory and monitoring to improve understanding of population growth of invasive exotic species in order to develop better control methods.
Strategy 4C4:	Develop and improve tools to assist in the long-term control of invasive exotic species.
Strategy 4C5:	To the extent practical, integrate federal, state, and local agency invasive exotic plant and animal control programs.

Action Step Matrix



Cross-Cut Budget



Funding for Invasive Species Activities (In Thousands)

Category	FY2011 Actual								
	DHS	DOC(NOAA)	DOD(USACE)	DOI	DOS	DOT	USAID	USDA	Total
Prevention	646,631	436	22,055	7,581	0	896	2,651	155,794	836,044
Early Detection & Rapid Response	0	754	9,018	8,124	0	0	1,089	242,573	261,558
Control and Management	0	507	74,661	41,989	15,196	0	0	519,817	652,170
Research	0	5,324	5,115	9,749	4,067	0	782	229,483	254,520
Restoration	0	1,225	29,826	11,930	0	0	100	35,086	78,167
Education and Public Awareness	0	519	2,795	806	0	0	0	89,580	93,700
Leadership/ Int'l Cooperation	0	332	1,476	812	200	95	680	59,029	62,624
Total	646,631	9,097	144,946	80,991	19,463	991	5,302	1,331,362	\$2,238,783

Category	FY2012 Enacted								
	DHS	DOC(NOAA)	DOD(USACE)	DOI	DOS	DOT	USAID	USDA	Total
Prevention	679,336	0	16,749	11,255	2,214	261	2,724	149,523	862,062
Early Detection & Rapid Response	0	18	7,855	8,618	2,831	0	1,677	253,302	274,301
Control and Management	2,100	763	87,101	40,189	10,380	0	0	479,426	619,959
Research	0	2,449	3,676	9,485	2,564	0	336	228,383	246,893
Restoration	0	3,126	15,364	14,442	0	0	0	37,900	70,832
Education and Public Awareness	0	98	2,880	965	317	0	0	89,223	93,483
Leadership/ Int'l Cooperation	0	278	1,261	733	66	118	711	50,066	53,233
Total	681,436	6,732	134,886	85,687	18,372	379	5,448	1,287,823	\$2,220,763

Category	FY2013 President's Proposed Budget								
	DHS	DOC(NOAA)	DOD(USACE)	DOI	DOS	DOT	USAID	USDA	Total
Prevention	TBD	0	22,511	9,392	1,742	263	TBD	144,648	178,556
Early Detection & Rapid Response	TBD	18	8,397	10,367	2,731	0	TBD	239,615	261,128
Control and Management	TBD	0	66,786	38,259	10,144	0	TBD	467,420	582,609
Research	TBD	6,284	690	9,254	2,450	0	TBD	222,651	241,329
Restoration	TBD	0	26,829	19,152	0	0	TBD	37,366	83,347
Education and Public Awareness	TBD	98	2,611	802	331	0	TBD	88,786	92,628
Leadership/ Int'l Cooperation	TBD	172	1,356	658	68	100	TBD	49,585	51,939
Total	TBD	6,572	129,180	87,884	17,466	363	TBD	1,250,071	\$1,491,536

Next Steps





Next Steps

- Refine the draft Framework with IES partners.
- Develop:
 - Cross-cut budget tool
 - Authorities matrix
- Continue to enhance IES portal and web-based Framework.



Schedule

- June 26th - Comments due on Biennial Report/
Strategy Goal 2B and 3D language
- June 30th - Revised/Additional Project Sheets due
- Aug. 27th – IES Team meeting
- Sept. 16th - Working Group/SCG
- Oct. TBD - Working Group/SCG
- Nov. TBD – Task Force

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