



Florida Shore & Beach Preservation Association

61st Annual Conference



September 20, 2018



Jackie Keiser, PG, PMP
20 September 2018



US Army Corps
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Response, Recovery, and what the 2018 Supplemental Bill means for Florida's Coastlines

- The Bill, the list, the guidance
- The Program – FY18/Supplemental/Beyond
- Challenges
- Opportunities
- What does it mean for Florida's Coastlines?



HURRICANE IRMA IMPACTS NASSAU COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS DUVAL COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS ST. JOHNS COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS FLAGLER COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS VOLUSIA COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS BREVARD COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS INDIAN RIVER COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS ST. LUCIE COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS MARTIN COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS PALM BEACH COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS BROWARD COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS MIAMI-DADE COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS COLLIER COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS LEE COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS CHARLOTTE COUNTY

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HURRICANE IRMA IMPACTS SARASOTA COUNTY



HURRICANE IRMA IMPACTS MANATEE COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS PINELLAS COUNTY



Image courtesy of Florida Department of the Environment

HURRICANE IRMA IMPACTS GULF COUNTY

Image courtesy of Florida Department of the Environment



HURRICANE IRMA IMPACTS FRANKLIN COUNTY

Image courtesy of Florida Department of the Environment



The storms, the law, the list, the guidance

Timing: Irma & Maria	September 2017
PL115-123	2 February 2018
The Project Lists	5 July 2018
The guidance	11 May 2018, 9 Aug 2018, 5 Sept 2018

Highlights of the Law: \$17.4B

- Set funding levels per appropriation
- Defined areas that qualified for funding
- All studies 100% Federal
- Flood Control and Coastal Emergencies (FCCE) to full template at 100% Federal
- Ongoing construction 100% Federal
- All work in Puerto Rico and USVI 100% Federal
- Cost shared work can be cost shared over 30 years

The Lists

Over 6 months of coordination, prioritization, defense, repeat...

The Guidance....



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Implementation Guidance = Congress Intent

General

- The list of approved projects and funding can be updated over time
Requires ASA coordination and OMB clearance

Investigations:

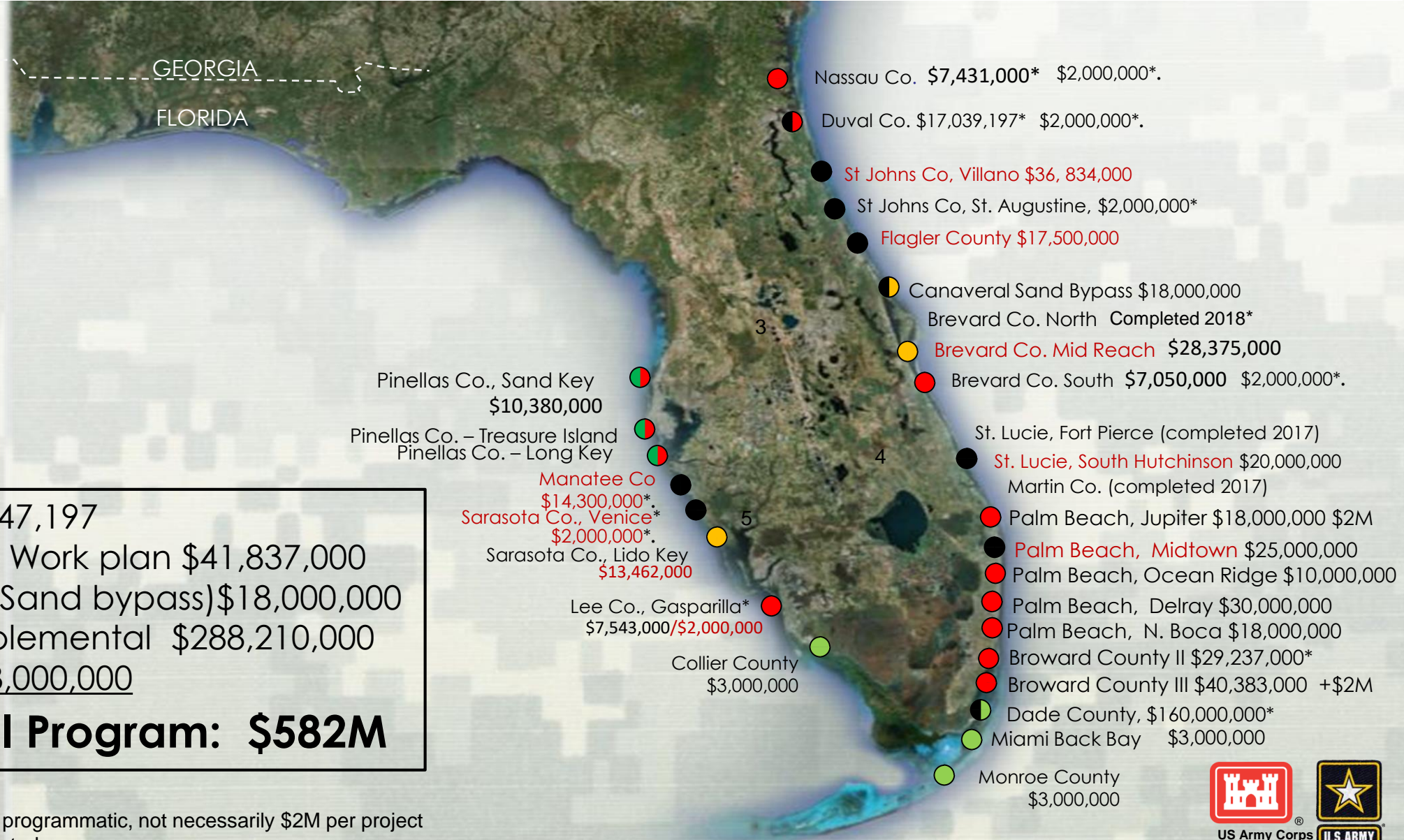
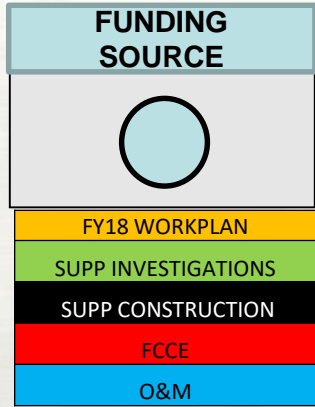
- No cost sharing for studies, but FCSA is required and delay could result in deselection
- South Atlantic Coastal Study at 100% Federal expense, no FCSA required
- Studies shall follow SMART planning principles and expedite where possible

Construction:

- Project that have not yet been authorized but with a Chiefs report are eligible for construction but must still be authorized for work subsequent to PL115-123 (St. Johns, Villano, St. Lucie)
- **Ongoing (100%) Federal projects include those projects that have received construction appropriations in FY 2015, 2016, or 2017 as noted on Enclosure 5 which will be revised as needed.**
- Cost share projects can be financed over 30 years
- Costs under the supplemental bill are not included in the projects 902 limit
- No design agreements needed
- PPAs must be executed before contract is advertised
- Pre-supplemental funds must be cost share balanced before Supplemental funds can be expended

GUIDANCE CONTINUES..... Completion timelines, cost share changes, financing,.....

FY18/BBA UNPRECEDENTED COASTAL PROGRAM



- Total FCCE \$196,547,197
 - Construction FY18 Work plan \$41,837,000
 - O&M (Canaveral Sand bypass)\$18,000,000
 - Construction Supplemental \$288,210,000
 - Investigations \$38,000,000
- Total FL Coastal Program: \$582M**

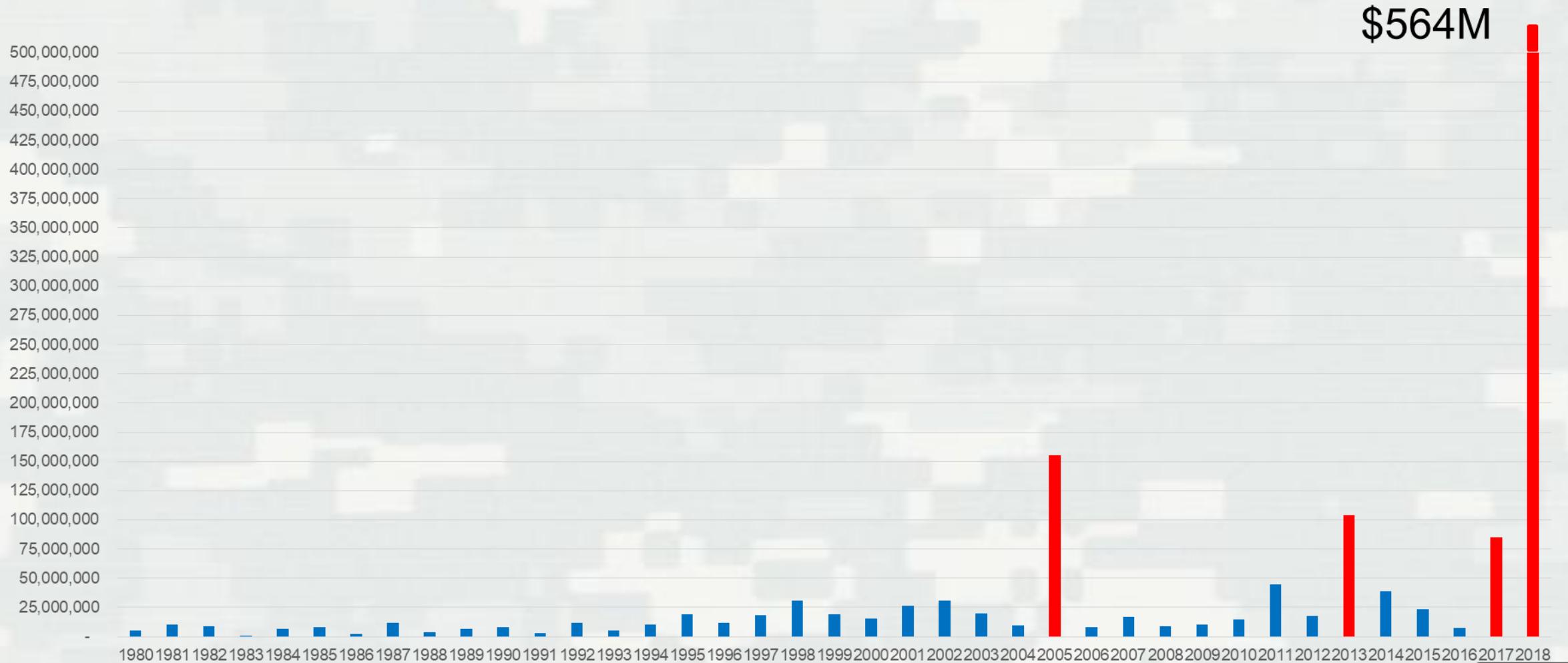
Cost shared

*Resiliency work is intended to programmatic, not necessarily \$2M per project

** Not including RSM value created



HISTORIC FEDERAL FUNDING IN FLORIDA COASTAL STORM RISK MANAGEMENT



TOTAL 20-YEAR FUNDING: \$1,755,650,000

TOTAL FY18/BBA FUNDING: \$564,000,000



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Jacksonville District Supplemental Coastal Program \$497,423,000*


Investigations		FCCE		O&M		Construction, Florida	
Study	\$	Project	\$	Project	\$	Project	\$
COLLIER COUNTY BEACH EROSION CONTROL	\$3,000,000	BREVARD COUNTY, South Reach	\$7,050,000	ANCLOTE RIVER	\$3,500,000	BREVARD COUNTY	\$2,000,000
DADE COUNTY	\$2,000,000	BROWARD COUNTY, Segment II	\$29,237,000	CANAVERAL HARBOR, FL	\$3,000,000	BROWARD COUNTY	\$2,000,000
MIAMI BACK BAY	\$3,000,000	BROWARD COUNTY, Segment III	\$40,383,000	CANAVERAL HARBOR, FL, Sand Bypass	\$3,500,000	DUVAL COUNTY	\$2,000,000
MONROE COUNTY	\$3,000,000	DUVAL COUNTY, FL	\$16,500,000	CENTRAL & SOUTHERN FLORIDA, FL	\$15,040,000	LEE COUNTY	\$2,000,000
PINELLAS COUNTY	\$2,000,000	LEE COUNTY, FL, Gasparilla	\$7,543,000	CHANNEL FROM NAPLES TO BIG MARCO PASS	\$3,400,000	NASSAU COUNTY	\$2,000,000
FL Subtotal	\$13,000,000	PALM BEACH COUNTY, Jupiter	\$18,000,000	FORT MYERS BEACH	\$4,000,000	PALM BEACH COUNTY	\$2,000,000
SOUTH ATLANTIC COASTAL STUDY, FL, PR & USVI	\$16,000,000	PALM BEACH COUNTY, Ocean Ridge	\$10,000,000	HORSESHOE COVE	\$3,000,000	SARASOTA COUNTY (VENICE)	\$2,000,000
<ul style="list-style-type: none"> 2 studies for renewed Federal participation SACS finally! Evolution of CSR 		PALM BEACH COUNTY, Delray	\$30,000,000	IWW, JACKSONVILLE TO MIAMI	\$7,000,000	ST. JOHN'S COUNTY	\$2,000,000
		PALM BEACH COUNTY, North Boca	\$18,000,000	MANATEE HARBOR, FL	\$3,000,000	DADE COUNTY	\$158,300,000
		<ul style="list-style-type: none"> Largest FCCE ever, Full Federal template 		MIAMI HARBOR, FL	\$550,000	FLAGLER COUNTY	\$17,500,000
				OKEECHOBEE	\$4,000,000	MANATEE COUNTY	\$14,300,000
				PALM BEACH HARBOR, FL	\$5,000,000	PALM BEACH COUNTY, MID-TOWN SEGMENT	\$25,000,000
				PONCE DE LEON INLET	\$8,000,000	ST. LUCIE COUNTY, SOUTH SEGMENT	\$20,276,000
				SUWANNEE RIVER	\$3,000,000	ST. JOHN'S COUNTY, VILLANO SEGMENT	\$36,834,000
				TAMPA HARBOR, FL	\$5,000,000		
				Over \$60M in RSM value		3 New starts! Resiliency!	
INV \$29,000,000		FCCE \$176,713,000		O&M \$51,400,000		FL Construction \$288,210,000	

- + 2 Workplan New starts!
- Sarasota, Lido
 - Brevard, Midreach

\$18M for Canaveral Sand Bypass

Likely more to come...

 FL Coastal

 FL RSM

*Only includes Sand bypass under O&M

Florida Supplemental Coastal C

Issue briefing
 No issue

Project Name	Approved Funding		Ongoing or Cost shared	Contract Type	Delivery Target Award	Draft Construction Complete	Compliant? Y/N
BREVARD COUNTY	\$2,000,000	Resiliency	Ongoing	AE/Cons. IFB	March 2020	Sept 2020	Y
BROWARD COUNTY	\$2,000,000	Resiliency	Ongoing	AE/Cons. IFB	March 2020	Sept 2020	Y
DUVAL COUNTY	\$2,000,000	Resiliency	Ongoing	AE/Cons. IFB	March 2020	Sept 2020	Y
LEE COUNTY	\$2,000,000	Resiliency	Cost shared	AE/Cons. IFB	March 2020	Sept 2020	Y
NASSAU COUNTY	\$2,000,000	Resiliency	Ongoing	AE/Cons. IFB	March 2020	Sept 2020	Y
PALM BEACH COUNTY	\$2,000,000	Resiliency	Cost shared	AE/Cons. IFB	March 2020	Sept 2020	Y
SARASOTA COUNTY (VENICE)	\$2,000,000	Resiliency	Cost shared	AE/Cons. IFB	March 2020	Sept 2020	Y
ST. JOHN'S COUNTY	\$2,000,000	Resiliency	ongoing	AE/Cons. IFB	March 2020	Nov 2020	Y
DADE COUNTY	\$158,300,000	Renourishment & Resiliency	Ongoing	IFB/MATOC	Jan 2020/Apr 2020/Mar 2019	Apr 2020/Apr 2021/Aug 2019	Y*
FLAGLER COUNTY	\$17,500,000	Initial Fill	Cost shared	MATOC	April 2020	Nov 2020	Y
MANATEE COUNTY	\$14,300,000	Renourishment & Resiliency	Cost shared	MATOC	March 2019	Dec 2019	Y
PALM BEACH COUNTY, MID-TOWN SEGMENT	\$25,000,000	Initial fill	Cost shared	MATOC	June 2019	Sept 2020	Y
ST. LUCIE COUNTY, SOUTH SEGMENT	\$20,276,000	Initial fill	Cost shared	MATOC	Oct 2019	April 2020	Y
ST. JOHN'S COUNTY, VILLANO SEGMENT	\$36,834,000	Initial fill	Cost shared	MATOC	Apr 2020	Nov 2020	Y
HERBERT HOOVER DIKE	\$514,208,000	Construction	Ongoing	MATOC	Feb 2019	Sep 2022	Y
HERBERT HOOVER DIKE	\$900,000	Construction	Ongoing	Const. REA/Mods	Jul 2019	Nov 2017	Y

Innovative acquisition 100%

% Compliant 100%

Programmatic Challenges



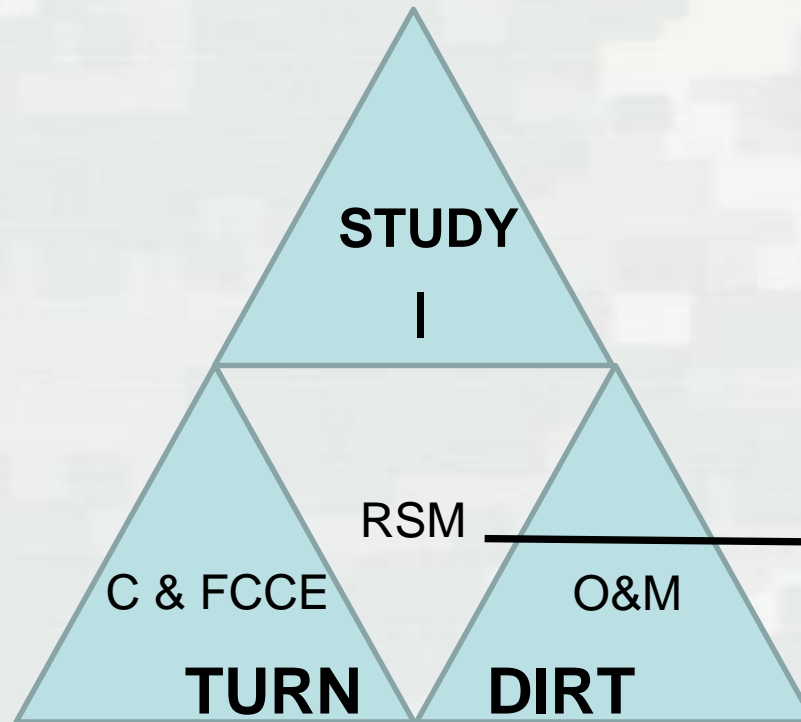
- Time
- People
- Process
- Borrow sources
- Permitting
- Real Estate
- Sponsor/agency resources
- PPAs
- Dredge Availability
- Environmental windows

“I’m right behind you.... until you slow down. Then I’m going to run you over.”
-Assistant Secretary of the Army, R.D. James

Coastal Storm Risk Management

FY18/BBA = \$564M

PRIORITY
Turn Dirt, reduce risk
GOAL
Evolve the program



DRIVING EVOLUTION

Regional Sediment Management

- Resiliency
- Sustainability
- Dunes
- Sand Inventory
- Project Performance Evaluations

Coastal Consequence Factory

Coastal Hazard System

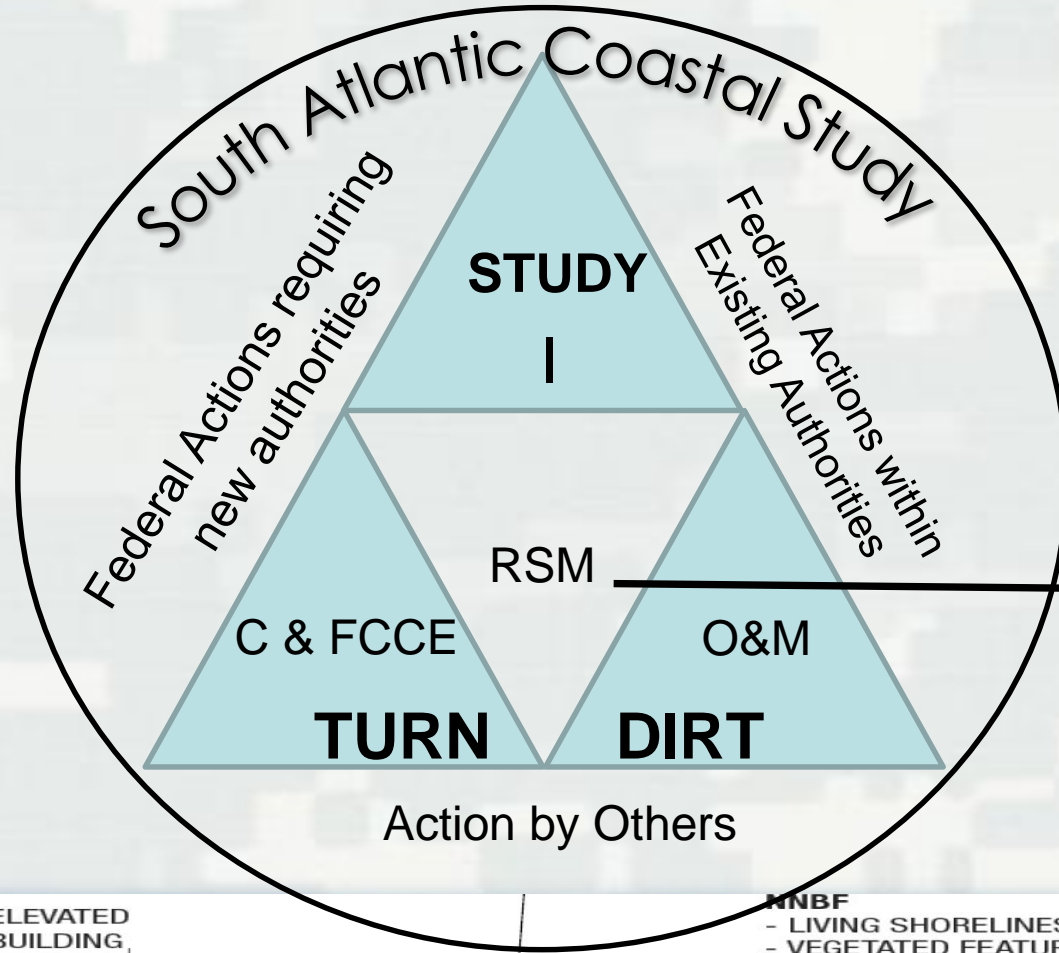
Beach Erosion Control (BEC)
Projects of the 1960s-70-s

Pinellas County, FCCE Completion October 2018

Coastal Storm Risk Management

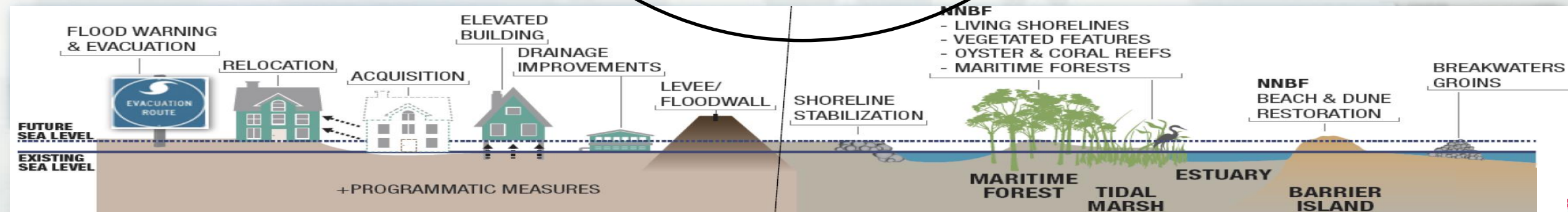
PRIORITY
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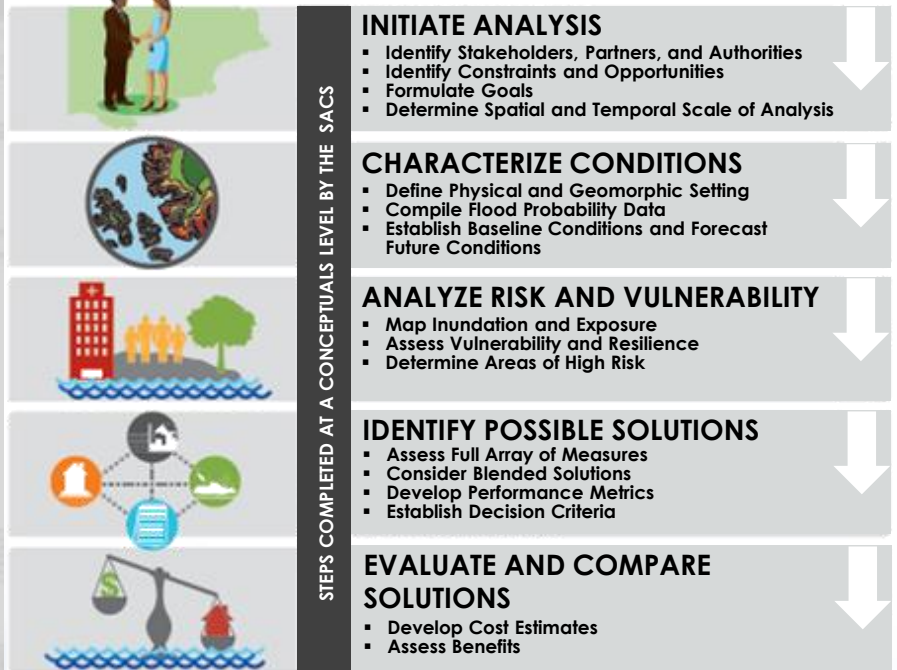


DRIVING EVOLUTION

- Regional Sediment Management
- Resiliency
 - Sustainability
 - Dunes
 - Sand Inventory
 - Project Performance Evaluations
- Coastal Consequence Factory
 Coastal Hazard System



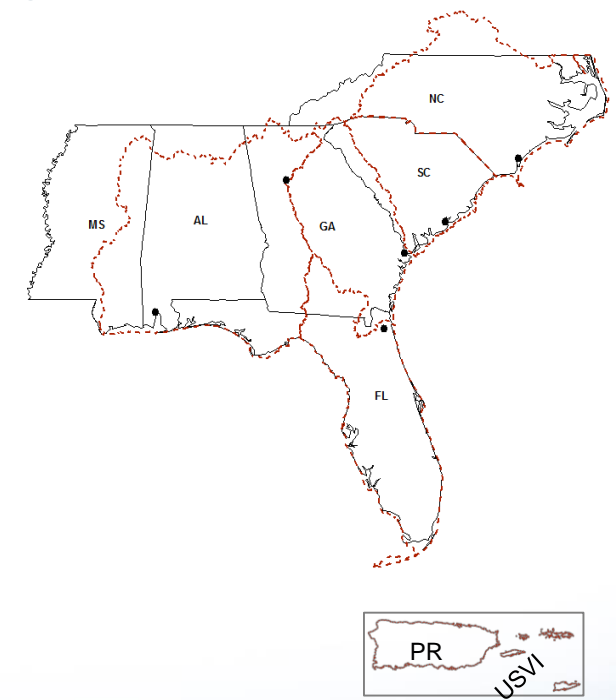
SOUTH ATLANTIC COASTAL STUDY: \$16M



Establish stakeholder relationships, coordinate up-front to leverage others' efforts.

Modify "NACCS-consistent" risk assessment for southeast applicability as needed (SCA). Analyze coastal vulnerability and identify Focus Areas based on data and stakeholder input.

Provide useable data & tools to stakeholders. Identify general measures applicable to broad regions and specific solutions for focus areas.



Post-Coastal Study

Implementation of strategies by Federal and non-Federal efforts at the project specific level.

South Atlantic Comprehensive Study
Actionable measures that can be taken by Federal and non-Federal partners to reduce risk and vulnerability in the South Atlantic Division.



Florida Supplemental Programmatic Actions

- RSM-RCX Programmatic Oversight
 - Regional Team of Subject Matter Experts
 - Incorporating NAD expertise and lessons learned from NACCS/Sandy
- Less Process, more action: Strategy Papers
 - Strategy papers to HQ to removing process
 - Delegated authorities - empowerment
- Design Innovation
 - ▶ Analysis and forecasting of sediment transport and pathways in order to develop models that support management decisions for southeast Florida inlets, beaches and nearshore coastal waters.
 - How do we keep sand out of our inlets? Where does the sand from a newly renourished beach go and how can we make it stay longer?
- Brokering CSRM design and studies
 - ▶ 13 Coastal/Navigation Supplemental project designs brokered to NAD
- Engaging Private Sector: Industry Coordination
 - National and Regional Industry days completed
 - Monthly District Industry days begin 3 October (Dredging, Truck haul, and AE contractors, agencies invited to call in)
 - Significant AE contracting anticipated
 - Consolidation of contracts – dredging and otherwise
 - Performance specs

We are open to your ideas!

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RESILIENCY PROGRAM

What: Evaluate each existing project in terms of design, borrow source, and construction strategy. For those projects to be constructed under the Supplemental bill, dune construction, as funding allows and where deemed appropriate may be included in the scope.

Where? Florida projects funded in I, C/FCCE

Why? 1. Policy Guidance Memorandum for Sandy Supplemental funding dated 9 December 2013: directs that projects shall incorporate current science and engineering standards in constructing previously authorized Corps projects designed to reduce flood and storm damage risks and modifying existing Corps projects that do not meet these standards with such modifications as the Secretary determines are necessary to incorporate these standards to meet the goal of providing sustainable reduction to flooding and storm risks.

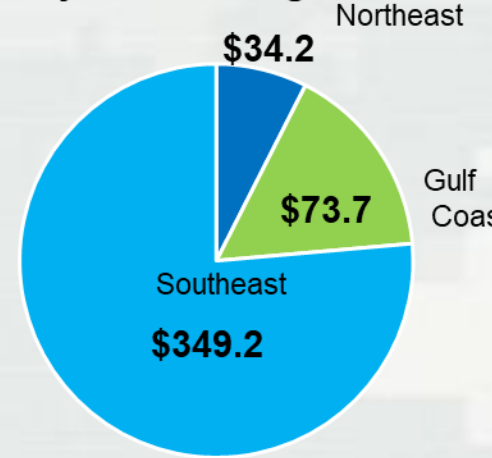
2. Lack of sand sources are driving up costs and reducing the # of projects/benefits we can provide. Florida's problem is a National issue because we are eating up the Nations CSRM annual funding.

How?

Investigations: Part of the study

Construction: Engineering Design Report for dunes with either Construction during the dredging contract or minimal truck haul and dozer work.

FY2018 Approved Supplemental By Coastal Region



PROGRAMMATIC EFFORT

5 September IG changes in red

Construction Supplemental 115-123, Resiliency Specific Line Items	Approved
Project Name	Approved
BREVARD COUNTY	\$2,000,000
BROWARD COUNTY	\$2,000,000
DUVAL COUNTY	\$2,000,000
LEE COUNTY	\$2,000,000 NO
NASSAU COUNTY	\$2,000,000
PALM BEACH COUNTY	\$2,000,000 NO
SARASOTA COUNTY (VENICE)	\$2,000,000 NO
ST. JOHN'S COUNTY	\$2,000,000
Incorporated into C	
Dade County	\$2,000,000
Manatee County	\$2,000,000 NO

*All I projects will incorporate resiliency

NO=not ongoing



Dade County \$158M

Issue: Controversial: Schedule Risk

Requirement: 2MCY

Available within Miami Dade: 250KCY

First contract(s): Truckhaul at surfside and hotspots

Next contract: Bal Harbour from inlet 250CY

Final contract: 1.5MCY from St. Lucie and Martin Counties (2016 LRR) or alternative that can meet the November 2020 completion date

Industry Day Scheduled in October:

Coming soon to Fedbizops

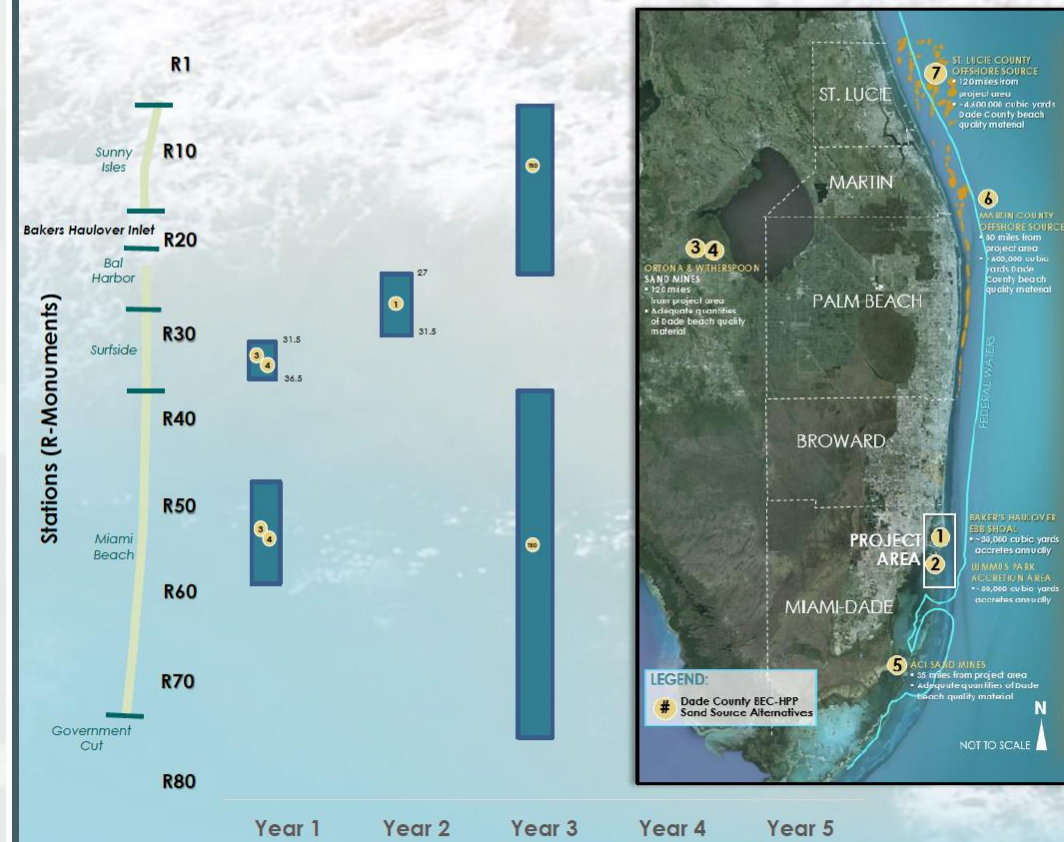
- What other options are available?
- Willing to move on dual track sources but if Florida wants that funding we have to move quickly
- What are the repercussions if Florida doesn't want that funding?



Construction Schedule

SUPPLEMENTAL TRACKS	VOLUME (cy)	ADVERTISE	AWARD	CONSTRUCTION COMPLETE
Truck Haul Surfside	300K	January 2019	February 2019	July 2019
Truck Haul Hotspots (27*, 44, 55, 63)	TBD	April 2019	May 2019	October 2019
Bal Harbour	250K	December 2019	January 2020	August 2020
Year 3 -5 Phasing TBD	~1.5M	TBD	TBD	TBD

Projections for Beach Placement



What the 2018 Supplemental Bill means for Florida's Coastlines

- The Federal Government is providing all funding up front in order to provide **EMERGENCY** storm damage benefits
- Program is growing by 5-6 new projects which increases future funding requirements
- 50 year extension of project life is back on the table via Feasibility
- We have flexibility and funding to modify existing projects
 - We have to move swiftly
 - We can choose to move smartly
- Reputation and future funding is at stake
- You need to deliver as much as we do



USACE Easement Requirements

Section 103(d) of the Water Resources Development Act (WRDA) of 1986 entitled Public Ownership and Use specifically prohibits Federal participation in costs assigned to benefits to privately-owned shores where the use of such shores is limited to private interests. Non-Federal interests must, therefore, assure continued conditions of public ownership and use of the shore upon which the amount of Federal participation is based during the economic life of the project. Non-Federal interests must also provide and maintain necessary access roads, parking areas and other public use facilities open and available to all on equal terms. Specific cases may also warrant assigning other additional local responsibilities, such as providing appurtenant facilities required for realization of recreational benefit



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Q&A

<http://www.saj.usace.army.mil/Missions/Civil-Works/Shore-Protection/Pinellas-County/>

Can you put an expiration date on easements?

No. The easement is specifically for the authorized federal project until the project is deauthorized by Congress.

Why are easements perpetual?

The required easement is a perpetual storm damage reduction easement. It is perpetual because it guarantees that the public will have long-term use of the beach after public funds are spent restoring it. It also ensures that the engineered beach provided for the community at federal expense forever remains open to the public for use and enjoyment.

What happens if I don't approve an easement over my property?

Current Federal policy states that in the case of those properties for which an easement is not provided, the Federal government will not share in the cost of sand placed on the beach fronting that property. The local sponsor could choose to (1) ask the Federal government to skip, not fill, that section of the beach; (2) condemn by eminent domain.... (3) absorb the additional local costs or (4) assess the applicable property owner for the amount not funded by the Federal government.



Does the easement grant the state or US Army Corps of Engineers permission to build structures on my property?

No, the perpetual easement is specific to the federal project only, which is limited to beach restoration, beach nourishment and beach disposal of high quality sand from navigation projects or adjacent seabeds.

Am I liable if someone is injured on my property?

No. A property owner is not liable by granting an easement to another person or entity. The Landowners Liability Act provides additional immunity for injuries resulting from recreational activities on the property.



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