

INTEGRATED DELIVERY SCHEDULE (IDS)

Kim Taplin

Senior Program Manager

Jacksonville District

19 November 2015



*Trusted Partners Delivering Value,
Today and Tomorrow*



U.S. ARMY



**US Army Corps of Engineers
BUILDING STRONG®**





Presentation Outline



BUILDING STRONG

- Purpose of IDS
- Background and Process to Update IDS
- Stakeholder Input
- Current Version of IDS
- Next Steps



Purpose of IDS



BUILDING STRONG

- To develop a realistic schedule and sequencing plan for achieving restoration benefits as soon as possible consistent with state and federal authorizations and funding
 - ▶ Not an agency action or decision document, does not reflect budgetary development dollars, capability or commitment by administration to budget amounts
 - ▶ Tool used to provide guidance to decision-makers for scheduling, staffing, and planning estimates
 - ▶ Living document that is updated as needed to reflect progress and/or program changes



Background & Process



BUILDING STRONG

- Background
 - ▶ The IDS is required as part of the CERP Programmatic Regulations
 - ▶ Regular updates to the IDS are required
 - ▶ The process is done in consultation with the South Florida Ecosystem Restoration Task Force
- Process
 - ▶ South Florida Ecosystem Restoration Task Force directed Working Group to sponsor public workshops to engage stakeholders in developing the IDS in December 2014



Process to Update IDS



BUILDING STRONG

Jan 2015

**Background, Assumptions &
Current Program Status Overview**

← Public Involvement

Feb 2015

Sequencing Plan Workshop

← Public Involvement

Mar-Sep
2015

**Develop Draft Integrated Schedule
& Funding Scenarios**

← Public Involvement

Nov 2015

Final Integrated Schedule



Assumptions & Constraints



BUILDING STRONG

■ Assumptions

- ▶ Will complete construction on project components where construction has begun
- ▶ Planning process will take 3 years (Project Implementation Reports)
- ▶ Once project authorized, assume 3 years to protect water for the natural system, acquire real estate, execute Project Partnership Agreement, design and prepare plans and specifications for initial construction
- ▶ Assume \$200Mil Federal/\$200 Mil Non-Federal funding per year

■ Constraints

- ▶ Consistent with statutory requirements to complete Modified Water Deliveries project and State's Restoration Strategies
- ▶ Project dependencies – certain projects must be in-place before others can be constructed



Starting Point Worksheet (Jan 2014)



Project	Yellow Book Code	Fiscal Year																
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
Planning Estimates Federal Construction Cost (SFER)**			105	102	70	59	4	1	20	10	6	0	0	0	0	0	0	
Planning Estimates Non-Federal Construction Cost (SFER)**			66	90	45	2	2	1	1	1	1	0	0	0	0	0	0	
Planning Estimates Total Construction Cost (SFER)**			171	192	115	61	6	2	21	11	7	0	0	0	0	0	0	
Modified Water Deliveries to Everglades National Park*	●																
Herbert Hoover Dike*		————●																
Seminole Big Cypress*	OPE	●————																
Restoration Strategies*		————●																
Tamiami Trail Next Steps Phase 1*		————●																
Kissimmee River Restoration		————●																
West Palm Beach Canal/STA-1E		————●																
C-111 South Dade		————●																
Picayune Strand Restoration	OPE	●————																
Merritt Pump Station	●																
Faka Union Pump Station	●																
Manatee Mitigation and Flood Protection Features		●————																
Miller Pump Station	●																
Remaining Features - Road removal and canal backfill		————●																
Site 1 Impoundment - Phase 1	M_P1	●————																
Indian River Lagoon-South	●																
C-44 Intake Canal	B●																
C-44 Reservoir	B	————●																
C-44 STA & Pump Station	B	●————																
Decomp Physical Model	QQ_P1●																
Caloosahatchee River (C-43) West Basin Storage Reservoir - Phase 1	D_P1	●————																
Broward County Water Preserve Areas: C-11 Impoundment	Q	●————																
Loxahatchee River Watershed Restoration Project	X, Y, K, GGG, OPE	———●																

.....● Operational Testing and Monitoring Period ** Does not reflect budgetary development dollars or capability Non-CERP and Foundation Projects
 - - - - ● Design Blue = Non-Federal CERP - Authorized, appropriated, PPA executed
 — . — ● Planning Black = Federal CERP - Authorized, requires PPA
 ———● Construction * Funded through other program authorities or by other entities. CERP Planning Phase - Requires authorization



Public Workshops



BUILDING STRONG



Integrated Delivery Schedule Sequencing Plan Summary Sheet		Integrated Delivery Schedule Sequencing Plan Summary Sheet	
<p>Sequencing Plan Name: Establish a Unique and Descriptive Name of the Proposed Sequencing Plan.</p> <p><i>Maximizing Ecological Benefits</i></p>	<p>Sequencing Plan Name: Establish a Unique and Descriptive Name of the Proposed Sequencing Plan.</p> <p><i>Central Flow</i></p>	<p>Author of the Sequencing Plan: Identify the name of the Author(s) that developed the Sequencing Plan during the exercise and identify spokesperson if applicable.</p>	<p>Author of the Sequencing Plan: Identify the name of the Author(s) that developed the Sequencing Plan during the exercise and identify spokesperson if applicable.</p>
<p>Author of the Sequencing Plan: Identify the name of the Author(s) that developed the Sequencing Plan during the exercise and identify spokesperson if applicable.</p> <p><i>NA</i></p>	<p>Author of the Sequencing Plan: Identify the name of the Author(s) that developed the Sequencing Plan during the exercise and identify spokesperson if applicable.</p>	<p>Anticipated Benefits: Identify geographic, ecological, hydrological, and/or economic benefits of your sequencing plan.</p> <p><i>TH</i> <i>the</i> <i>fr</i> <i>E</i></p>	<p>Anticipated Benefits: Identify geographic, ecological, hydrological, and/or economic benefits of your sequencing plan.</p> <p><i>Focus on implementing CEPP as quickly as possible with</i> <i>Additional storage to relieve N. Estuaries + benefit Central Est. + Southern Estuaries + gain flexibility to adapt to climate change</i> <i>Control sewage E of WATS EUP + WATS to enable higher stages in the Ecosystem</i> <i>Continue progress on BRCW, C11 Spreader, Decomp</i></p>
<p>Anticipated Benefits: Identify geographic, ecological, hydrological, and/or economic benefits of your sequencing plan.</p> <p><i>Priorit</i> <i>Sequenci</i> <i>what proje</i></p> <p>1. <i>Plo</i> 2. 3. 4. 5. <i>con</i> 6.</p>	<p>Anticipated Benefits: Identify geographic, ecological, hydrological, and/or economic benefits of your sequencing plan.</p> <p>Geographic: reaching an overarching goal for sustainable wading bird population, provide water supply for the Lake O service area users, and support the ENP.</p> <p>The following is an excerpt from the IRL-S PIR geographic benefits of our sequencing plan. All write up we have relied heavily on our familiarity with the area. It should be noted that this type of information is not to be listed in our sequencing plan.</p> <p>"Further, scientists have identified the large space as one of the defining physical characteristics of the south Florida wetlands, in combination with multiple populations of plants and animals to the pre-drainage area in south Florida made it support genetically viable numbers and sub-populations and/or narrow habitat requirements; • provide large numbers of higher vertebrate animals in a refuge; • sustain habitat diversity despite natural disturbances; • recover from disturbances decreases as the habitat diversity, the amount of seasonal refugia also decrease (USACE, 1999). In south Florida roughly 50 percent of the pre-drainage</p>	<p>Sequencing Plan: Identify projects in your recommended order of sequencing, (i.e. what projects show go below the black line on the Draft IDS Worksheet)</p> <ol style="list-style-type: none"> 1. CEPP: (a) South, (b) North, (c) New Water 2. Storage: (a) HH benefits per each reach (Interim LADS change) 3. (b) Lake O to check Whitehead 4. (c) → De Rudnik only: FAA Storage 5. Sewage Mgmt: (a) ENP Sewage management 6. (b) 3A/3B Sewage management, C11 <p>To maximize wetland benefits: (a) Complete C11/SCW (b) Complete BRCW Ph I (c) After CEPP, complete remaining Decomp (d) PIRs for C11/SC Eastern + BRCW Phase 2</p> <p><i>Addendum from D Rudnik: This White L-28 interceptor project to address wetland water quality</i></p> <p>Page 1 of 3</p>	<p>Sequencing Plan: Identify projects in your recommended order of sequencing, (i.e. what projects show go below the black line on the Draft IDS Worksheet)</p> <ol style="list-style-type: none"> 1. CEPP: (a) South, (b) North, (c) New Water 2. Storage: (a) HH benefits per each reach (Interim LADS change) 3. (b) Lake O to check Whitehead 4. (c) → De Rudnik only: FAA Storage 5. Sewage Mgmt: (a) ENP Sewage management 6. (b) 3A/3B Sewage management, C11 <p>To maximize wetland benefits: (a) Complete C11/SCW (b) Complete BRCW Ph I (c) After CEPP, complete remaining Decomp (d) PIRs for C11/SC Eastern + BRCW Phase 2</p> <p><i>Addendum from D Rudnik: This White L-28 interceptor project to address wetland water quality</i></p> <p>Page 1 of 3</p>



Theme 1 – Complete Existing Projects & Plan Ahead



Project	Yellow Book Code	Funding Schedule (2015-2035)																						
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035		
Planning Estimates Federal Construction Cost (SFER)++		39	135	132	170	188	85	130	77	93	133	134	133	146	148	148	171	183	183	162	94	94		
Planning Estimates Non-Federal Construction Cost (SFER)++		43	139	193	193	43	52	19	1	1	0	1	54	59	59	161	161	123	123	123	0	0		
Planning Estimates Total Construction Cost (SFER)++		82	274	325	363	231	136	148	78	94	133	135	187	205	207	310	333	306	285	217	94	94		
Modified Water Deliveries to Everglades National Park*		●○○○○	○○○○	○○○○	○○○○																			
Herbert Hoover Dike*		●								●														
Seminole Big Cypress*	OPE		●																					
Restoration Strategies*																								
Tamiami Trail Next Steps Phase 1*		●●●●●	●●●●●	●				●																
Kissimmee River Restoration		●						●																
West Palm Beach Canal/STA-1E		●	●																					
C-111 South Dade		●●●●●	●					●																
Picayune Strand Restoration	OPE																							
Merritt Pump Station		●	●																					
Faka Union Pump Station			●○○○																					
Manatee Mitigation and Flood Protection Features		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Miller Pump Station		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Remaining Features - Road removal & canal backfill		●●●●●	●●●●●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Site 1 Impoundment	M																							
Phase 1																								
Indian River Lagoon-South																								
C-44 Intake Canal	B	●○○○																						
C-44 Reservoir	B		●					●																
C-44 STA & Pump Station	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
C-23/24 Reservoir North	B						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
C-23/24 Reservoir South	B						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
C-23/24 STA	B					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
C-25 Reservoir	B																							
C-25 STA	B																							
Natural Lands	B																							
Decomp Physical Model	Q	●○○○	○○○																					
Caloosahatchee River (C-43) West Basin Storage																								
Pump Station & Cell 1	D	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●		
Cell 2	D			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Broward County Water Preserve Areas																								
C-11 Impoundment	Q		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
WCA 3A&3B Seepage Management	O																							
C-9 Impoundment	R																							
Biscayne Bay Coastal Wetlands Phase 1	FFF, OPE																							
L-31 East Flowway																								
Cutler Wetlands																								
C-111 Spreader Canal Western Project	WW																							
Central Everglades Planning Project																								
PPA South	AA, FF, H, QQ																							
PPA North	QQ, II, G																							
PPA New Water	V																							
Loxahatchee River Watershed Restoration Project	X, Y, K	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●		
C-111 Spreader Canal Eastern Project	WW																							
EAA Storage Phase 1 & 2, ASR	G, GG																							
Biscayne Bay Coastal Wetlands Phase 2	FFF,OPE																							
Lake Okeechobee Watershed, ASR	A, W, GG, OPE																							

THE FUNDING SHOWN FOR FY17 AND BEYOND IS ONLY NOTIONAL, REPRESENTING APPROXIMATE FUNDING LEVELS THAT WOULD BE NEEDED TO SUSTAIN THE WORK DISPLAYED IN THE IDS FOR ANY PARTICULAR FY. THE FUNDING DOES NOT REPRESENT A COMMITMENT BY THE ADMINISTRATION TO BUDGET THE AMOUNTS SHOWN.



Theme 4 – Spatial Extent, Estuaries, Restore Flow South



Project	Yellow Book Code	Funding Schedule (2015-2035)																						
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035		
Planning Estimates Federal Construction Cost (SFER)++		39	135	132	169	189	106	151	98	114	196	199	197	210	212	212	171	183	183	162	94	94		
Planning Estimates Non-Federal Construction Cost (SFER)++		43	37	208	206	161	120	120	102	85	84	85	87	59	59	161	161	123	123	123	123	0		
Planning Estimates Total Construction Cost (SFER)++		82	172	340	376	350	226	270	200	199	281	283	284	269	271	373	333	306	306	285	217	94		
Modified Water Deliveries to Everglades National Park*		●	○○○○	○○○○	○○○○	○○○○																		
Herbert Hoover Dike*		●																						
Seminole Big Cypress*	OPE		●																					
Restoration Strategies*																								
Tamiami Trail Next Steps Phase 1*		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Kissimmee River Restoration		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
West Palm Beach Canal/STA-1E		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
C-111 South Dade		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Picayune Strand Restoration	OPE																							
Merritt Pump Station		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Faka Union Pump Station			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Manatee Mitigation and Flood Protection Features		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Miller Pump Station		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Remaining Features - Road removal & canal backfill		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Site 1 Impoundment	M																							
Phase 1																								
Indian River Lagoon-South																								
C-44 Intake Canal	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
C-44 Reservoir	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
C-44 STA & Pump Station	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
C-23/24 Reservoir North	B																							
C-23/24 Reservoir South	B																							
C-23/24 STA	B																							
C-25 Reservoir	B																							
C-25 STA	B																							
Natural Lands	B																							
Decomp Physical Model	Q	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Caloosahatchee River (C-43) West Basin Storage																								
Pump Station & Cell 1	D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Cell 2	D																							
Broward County Water Preserve Areas																								
C-11 Impoundment	Q																							
WCA 3A&3B Seepage Management	O																							
C-9 Impoundment	R																							
Biscayne Bay Coastal Wetlands Phase 1																								
L-31 East Flowway	FFF, OPE																							
Cutler Wetlands	FFF, OPE																							
C-111 Spreader Canal Western Project	WW_P1																							
Central Everglades Planning Project																								
PPA South	AA, FF, H, QQ																							
PPA North	QQ, II, H																							
PPA New Water	G, H, V																							
Loxahatchee River Watershed Restoration Project	X, Y, K																							
Biscayne Bay Coastal Wetlands Phase 2	FFF_P2																							
EAA Storage Phase 1 & 2, ASR	G, GG																							
C-111 Spreader Canal Eastern Project	WW_P2																							
Lake Okechobee Watershed, ASR	A, W, GG, OPE																							

THE FUNDING SHOWN FOR FY17 AND BEYOND IS ONLY NOTIONAL, REPRESENTING APPROXIMATE FUNDING LEVELS THAT WOULD BE NEEDED TO SUSTAIN THE WORK DISPLAYED IN THE IDS FOR ANY PARTICULAR FY. THE FUNDING DOES NOT REPRESENT A COMMITMENT BY THE ADMINISTRATION TO BUDGET THE AMOUNTS SHOWN.



Theme 5 (Current Draft IDS)



Project	Yellow Book Code	FISCAL YEAR																				
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Planning Estimates Federal Construction Cost (SFER)++		41	138	141	190	203	141	213	191	193	221	213	186	200	144	151	100	0	0	0	0	0
Planning Estimates Non-Federal Construction Cost (SFER)++		78	139	160	161	111	119	96	123	142	141	210	210	192	192	123	123	0	0	0	0	0
Planning Estimates Total Construction Cost (SFER)++		119	277	302	351	313	260	269	316	338	362	423	396	392	315	223	123	0	0	0	0	0
Modified Water Deliveries to Everglades National Park*		●○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○																
Herbert Hoover Dike*		●																				
Seminole Big Cypress*	OPE	●																				
Restoration Strategies*		●																				
Tamiami Trail Next Steps Phase 1*		●																				
Kissimmee River Restoration		●																				
West Palm Beach Canal/STA-1E		●																				
C-111 South Dade Contract B & 9		●																				
C-111 South Dade PACR		●○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○	○○○○○○
Picayune Strand Restoration	OPE	●																				
Merritt Pump Station		●																				
Faka Union Pump Station		●																				
Manatee Mitigation and Flood Protection Features		●																				
Miller Pump Station		●																				
Remaining Features - Road removal & canal backfill		●																				
Site 1 Impoundment	M	●																				
Phase 1		●																				
Indian River Lagoon-South		●																				
C-44 Intake Canal	B	●																				
C-44 Reservoir	B	●																				
C-44 STA & Pump Station	B	●																				
C-23/24 Reservoir North	B	●																				
C-23/24 Reservoir South	B	●																				
C-23/24 STA	B	●																				
C-25 Reservoir	B	●																				
C-25 STA	B	●																				
Natural Lands	B	●																				
Decomp Physical Model	Q	●○○○○○	○○○○○○																			
Caloosahatchee River (C-43) West Basin Storage		●																				
Pump Station & Cell 1	D	●																				
Cell 2	D	●																				
Broward County Water Preserve Areas		●																				
C-11 Impoundment	Q	●																				
WCA 3A&3B Seepage Management	O	●																				
C-9 Impoundment	R	●																				
Biscayne Bay Coastal Wetlands Phase 1	FFF, OPE	●																				
L-31 East Flowway		●																				
Cutler Wetlands		●																				
C-111 Spreader Canal Western Project	WW	●																				
Central Everglades Planning Project (Authorization WRDA 2016)		●																				
PPA South: LRR & PPA Execution	AA, FF, H, QQ	●																				
Remove Old Tamiami Trail (CNTX)		●																				
L-67A Structure 1 & Gap in L-67C Levee (CNT 3)		●																				
Increase S-356 (CNT 4)		●																				
L-29 Gated Spillway (CNT 4b)		●																				
Increase S-333 (CNT 4a)		●																				
L-67A Structures 2 & 3 (CNT 5)		●																				
Removal L-67C & L-67 Ext, Constr L-67D Levee (CNT 6)		●																				
Removal L-29 Levee & Backfill L-67 Ext (CNT 7)		●																				
PPA North	QQ, II, G	●																				
PPA New Water	V	●																				
Loxahatchee River Watershed Restoration Project	X, Y, K	●																				
Lake Okeechobee Watershed, ASR	A, GG	●																				
Big Cypress/L-28 Interceptor (Western Everglades)	CCC	●																				
EAA Storage & ASR/Decomp Ph2	G, GG	●																				
C-111 Spreader Canal Eastern & BBCW Ph2	WW, FFF	●																				
Lake Okeechobee Regulation Schedule Revision**		●																				

xxxx • SMART Planning Compliance Approval

○○○○ • Planning

●●●● • Design, PPA Execution, Real Estate Acquisition

● • Construction

○○○○ • Operational Testing and Monitoring Period

Non-CERP and Foundation Projects

CERP Generation 1 Projects - Authorized, Project Partnership Executed (PPA)

CERP Generation 2 Projects - Authorized, requires PPA

Planning Phase - Requires Authorization

Planning Phase - Proposed

Blue = Non-Federal

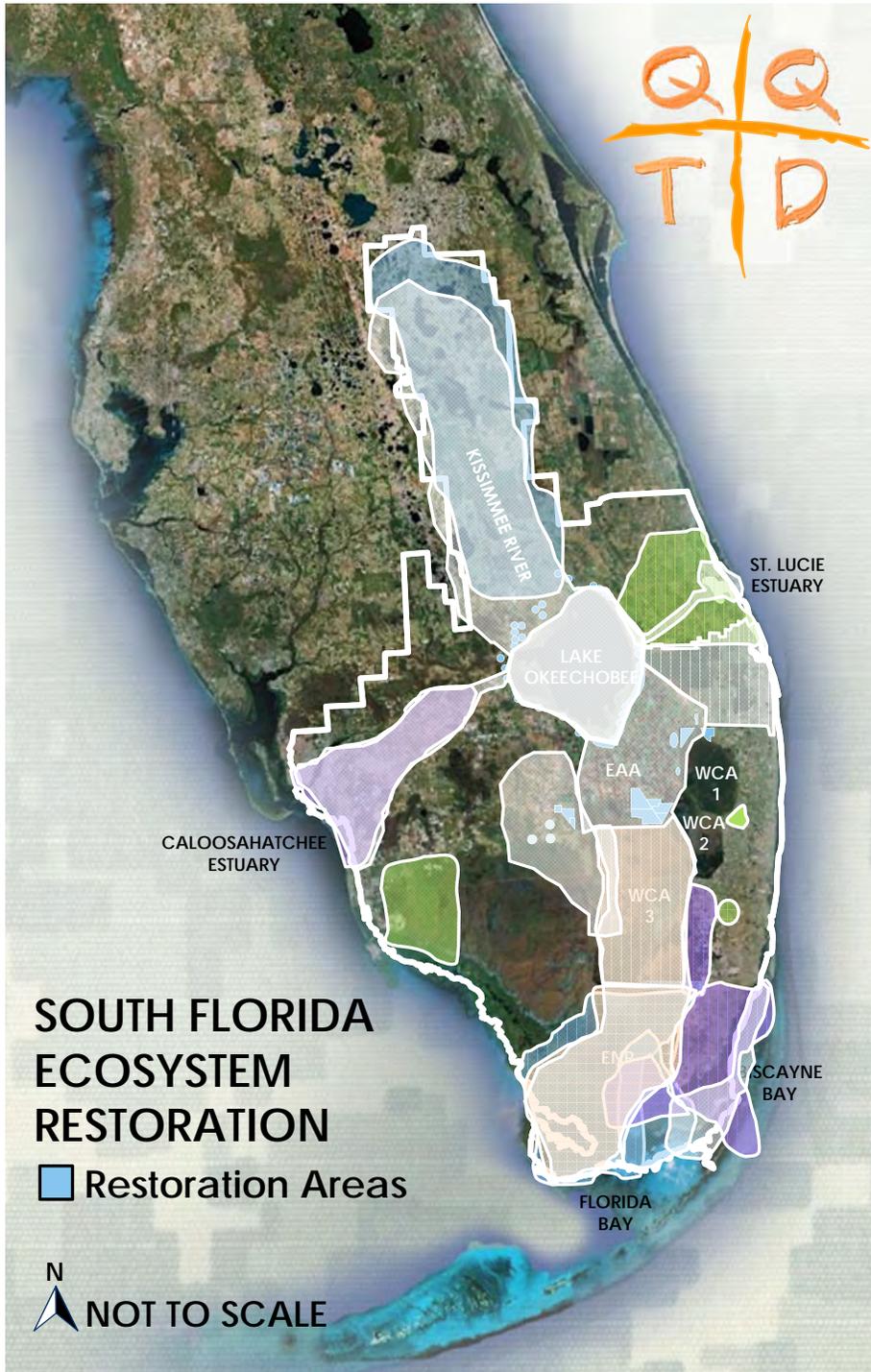
Black = Federal

++ Does not reflect budgetary development dollars or capability

* Funded through other program authorities or by other entities

+ Schedule subject to Dam Safety Modification Study

THE FUNDING SHOWN FOR FY17 AND BEYOND IS ONLY NOTIONAL, REPRESENTING APPROXIMATE FUNDING LEVELS THAT WOULD BE NEEDED TO SUSTAIN THE WORK DISPLAYED IN THE IDS FOR ANY PARTICULAR FY. THE FUNDING DOES NOT REPRESENT A COMMITMENT BY THE ADMINISTRATION TO BUDGET THE AMOUNTS SHOWN.



INTEGRATED DELIVERY SCHEDULE NON-CERP & FOUNDATION PROJECTS

- Modified Water Deliveries to ENP
- Kissimmee River Restoration
- C-111 South Dade
- C-51/Storm Water Treatment Area (STA)1E
- Restoration Strategies
- Tamiami Trail Bridging & Roadway Modifications
- Herbert Hoover Dike (HHD) Rehabilitation
- Seminole Big Cypress Critical Project

CERP GENERATION 1 PROJECTS

- Indian River Lagoon (IRL) – South
- Picayune Strand
- Site 1
- Melaleuca Annex Facility

CERP GENERATION 2 PROJECT

- C - 43 Reservoir
- Broward County Water Preserve Areas (WPA)
- C-111 Spreader Canal Western Project
- Biscayne Bay Coastal Wetlands Phase 1

AWAITING AUTHORIZATION

- Central Everglades Planning Project (CEPP)

PLANNING EFFORTS

- Loxahatchee River Watershed Restoration
- Western Everglades Restoration
- Lake Okeechobee Watershed & Aquifer, Storage & Recovery (ASR)
- Everglades Agricultural Area Storage, ASR & Decompartmentalization Phase 2
- C-111 Spreader Canal Eastern & Biscayne Bay Coastal Wetlands Phase 2
- Lake Okeechobee Regulation Schedule (LORS) Revision



Theme 5 (Current Draft IDS)



BUILDING STRONG

- **Maximizes holistic benefits to regional system as early as possible**
 - ▶ Ensures continued stream of construction which provides for steady increase in regional ecosystem benefits (given assumptions and constraints)
 - ▶ Provides benefits to Caloosahatchee & St Lucie estuaries from storage while infrastructure necessary to open up system for additional flow south is being implemented (CEPP south)
 - ▶ Stable funding
- **Ensures additional projects will be ready to continue progress on restoration**
 - ▶ Includes most of the planning efforts for projects identified by stakeholders as priorities
 - ▶ Prioritizes planning studies for Lake Okeechobee Watershed and the Western Everglades
- **Consistency with project dependencies and constraints**
 - ▶ Commitment to complete construction on projects where construction has begun
 - ▶ Consistent with project dependencies for moving water south
 - Modifications to downstream infrastructure, Restoration Strategies, Modwaters, etc.



Feedback Received



BUILDING STRONG

- General Reactions to Theme 5:
 - ▶ Shows good synergy of projects
 - ▶ Shows steady increase of benefits to the system
 - ▶ Engage the public to generate support for continued implementation of restoration projects
- Projects:
 - ▶ Consider looking at storage regionally/holistically
 - ▶ Lake Okeechobee Watershed and Western Everglades planning efforts sequence well received
 - ▶ Look at moving components of Biscayne Bay Coastal Wetlands forward, specifically Cutler Wetlands piece and planning for Phase II
 - ▶ Consider the ability to move up projects that are deemed critical
- Funding:
 - ▶ Maintain stable funding source for project implementation
 - ▶ If additional funding becomes available, move projects forward



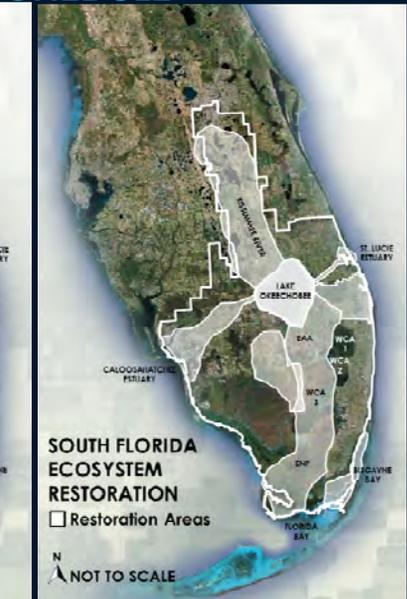
Next Steps



BUILDING STRONG

Use IDS to guide planning, design, construction sequencing and budget planning

SOUTH FLORIDA ECOSYSTEM RESTORATION INTEGRATED DELIVERY SCHEDULE



NON-CERP & FOUNDATION PROJECTS

Modified Water Deliveries to Everglades National Park
 Kissimmee River Restoration
 C-111 South Dade
 C-51/Storm Water Treatment Area (STA) 1E
 Restoration Strategies
 Tamiami Trail Bridging & Roadway Modifications
 Herbert Hoover Dike (HHD) Rehabilitation
 Seminole Big Cypress Critical Project

CERP GENERATION 1 PROJECTS

Indian River Lagoon (IRL) – South
 Picayune Strand
 Site 1
 Melaleuca Annex Facility

CERP GENERATION 2 PROJECT

C - 43 Reservoir
 Broward County Water Preserve Areas (WPA)
 C-111 Spreader Canal Western Project
 Biscayne Bay Coastal Wetlands Phase 1

AWAITING AUTHORIZATION

Central Everglades Planning Project (CEPP)

PLANNING EFFORTS

Loxahatchee River Watershed Restoration
 Western Everglades Restoration
 Lake Okeechobee Watershed & Aquifer, Storage & Recovery (ASR)
 Everglades Agricultural Area Storage, ASR & Decentralization Phase 2
 C-111 Spreader Canal Eastern & Biscayne Bay Coastal Wetlands Phase 2
 Lake Okeechobee Regulation Schedule (LORS) Revision

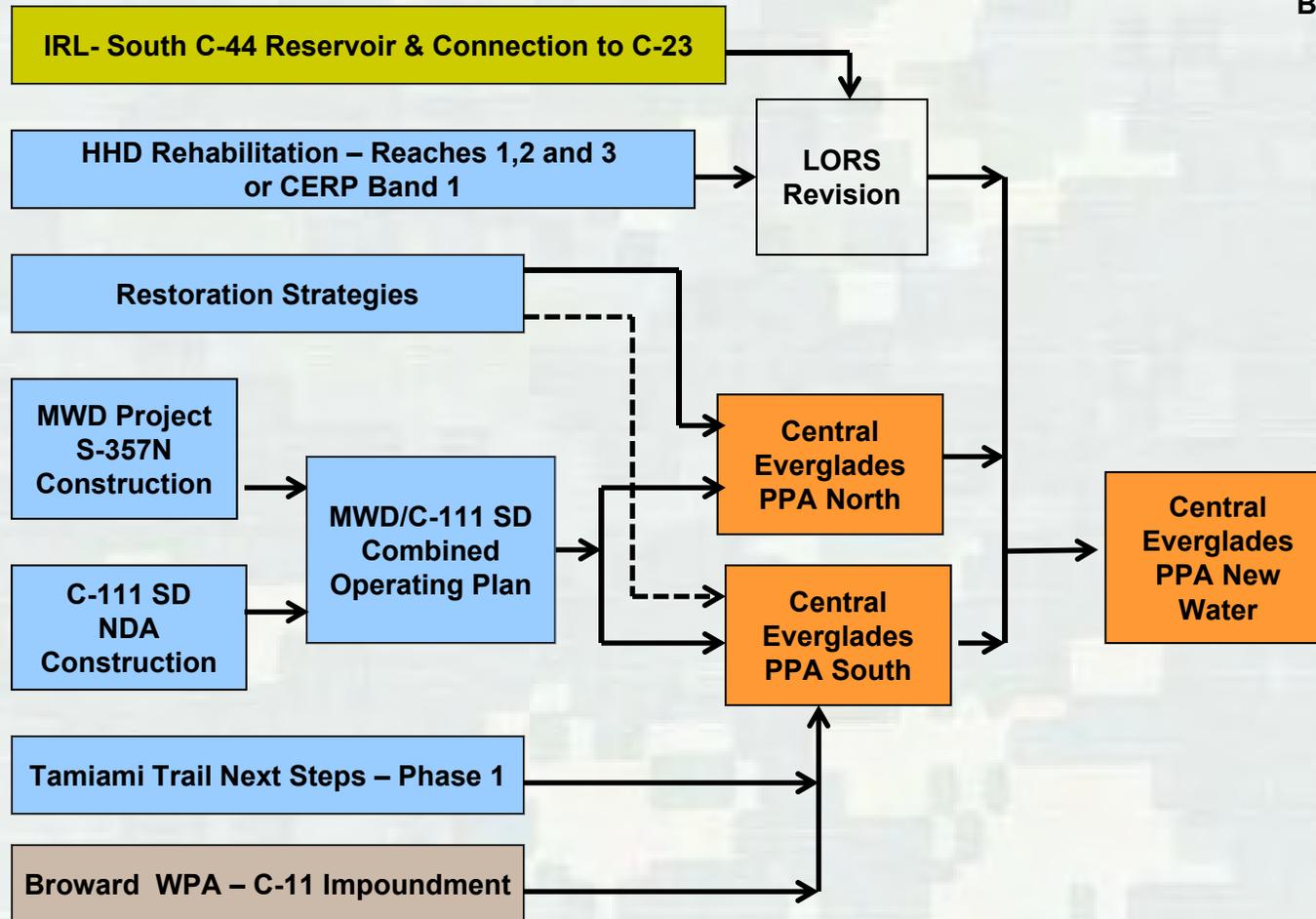
Questions/Discussion



Project Dependencies



BUILDING STRONG





U.S. ARMY

Federal Process Assumptions



BUILDING STRONG

SMART Planning Compliance Approval (6 mo – 1 YR)	3 Years PIR/Chief's Report \$3M	Assume WRDA Bill every 2 years	3 Years from Authorization for Appropriation, Real Estate Acquisition & Execution of PPA	Reservoirs 4 Years STAs 3 Years Other 2 Years
--	--	---	--	---

