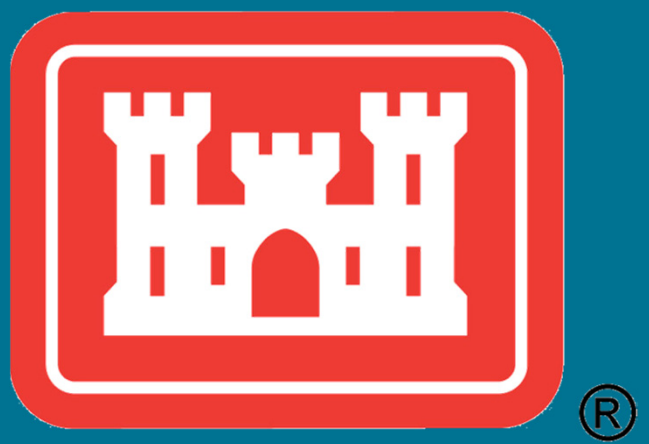




U.S. ARMY CORPS OF ENGINEERS (USACE) PROJECT INTEGRATION IN SOUTHEAST FLORIDA

Tim Gysan¹, Gustavo A. Suarez-Narvaez¹
¹U.S. Army Corps of Engineers, Jacksonville, Florida



USACE CIVIL WORKS MISSIONS



USACE Civil Works Missions
Source: U.S. Army Corps of Engineers,
U.S. Army Corps of Engineers Headquarters Website

PRIORITY CIVIL WORKS MISSIONS

- Flood Risk Management (FRM)
- Coastal Storm Risk Management (CSR)
- Aquatic Ecosystem Restoration (AER)
- Commercial Navigation (NAV)
- Watershed Studies

ADDITIONAL CIVIL WORKS MISSION AREAS

- Recreation
- Water Supply
- Hydropower
- Environmental Stewardship
- Regulatory
- Continuing Authority Program (CAP)

CIVIL WORKS MISSIONS IN SOUTHEAST FLORIDA



Flooding in South Florida
Photo Source: SFWMD

FLOOD RISK MANAGEMENT (FRM)

INLAND FLOODING

Manages risk concerning human health and safety
Evaluates economic damages to public and private properties due to inland flooding



Hurricane Irma Striking Miami, Florida
Photo Source: AP

COASTAL STORM RISK MANAGEMENT (CSR)

IMPACTS FROM TIDAL AND COASTAL FORCES

Manages risk concerning human health and safety
Evaluates economic damages to public and private properties due to coastal storms



Stormwater Treatment Area

AQUATIC ECOSYSTEM RESTORATION (AER)

Restores ecosystems to more natural, functional and self-sustainable state



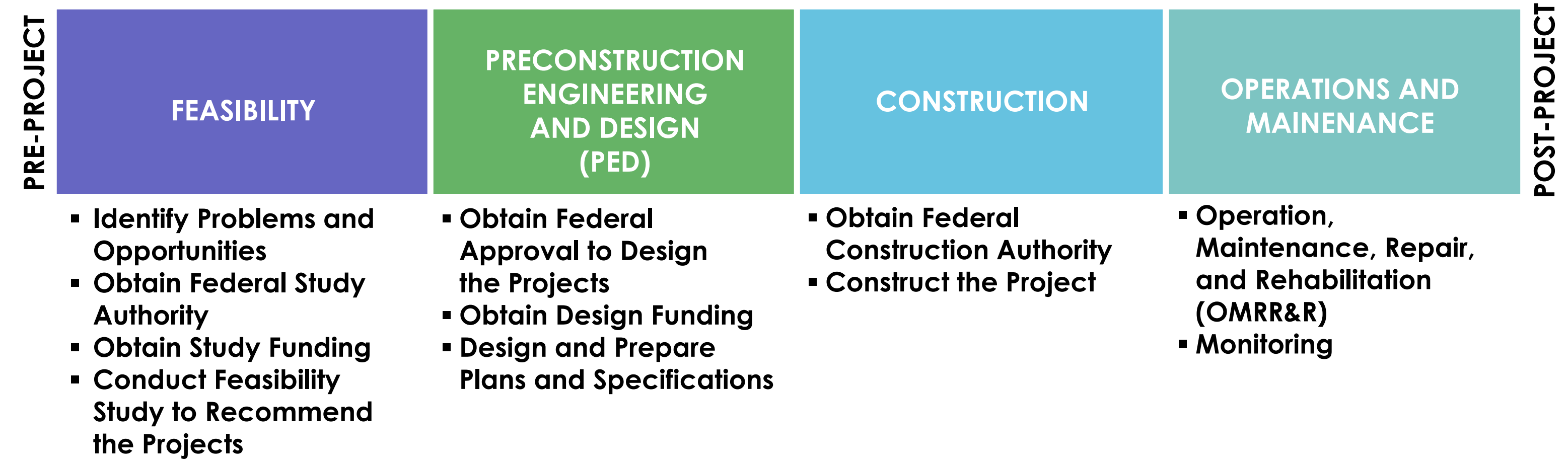
Miami Harbor, Florida
Photo Source: PortMiami

NAVIGATION (NAV)

COASTAL AND INLAND WATERWAYS

Manages problems relate to safety and economic concerns

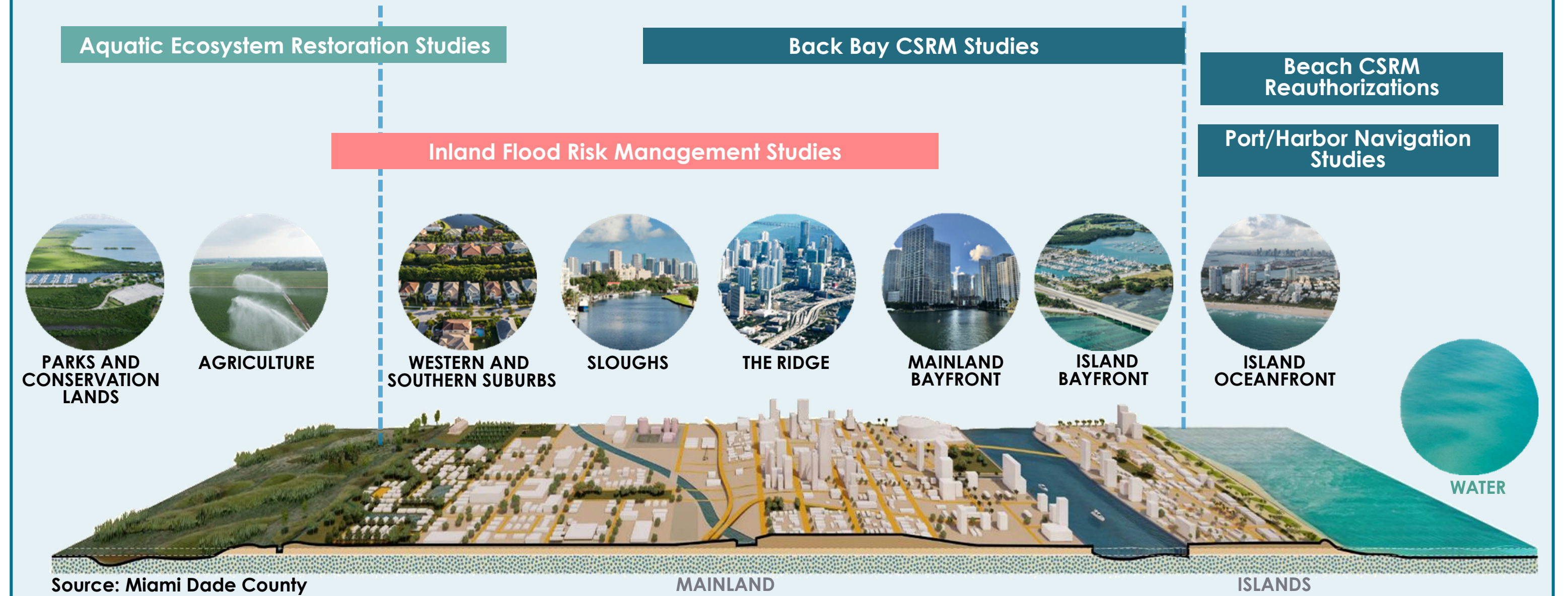
USACE CIVIL WORKS PROJECT DEVELOPMENT PHASES



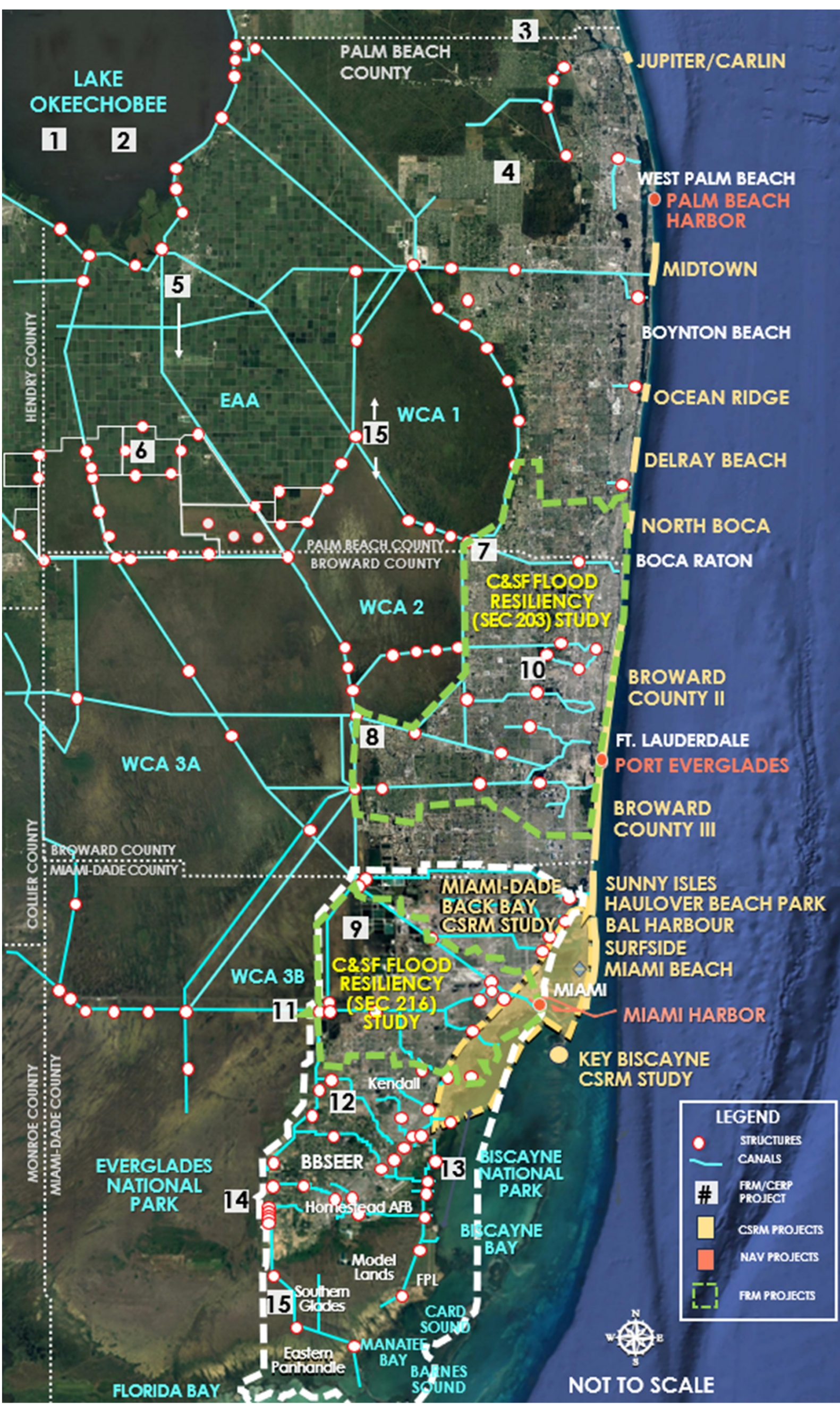
USACE project benefits focus on quantifiable economic gains to the National Economic Development (NED), and the National Ecosystem Restoration (NER) benefits prioritizing ecosystem restoration and non-monetary outcomes

USACE MISSIONS AND PROJECTS ACROSS THE LANDSCAPE

Contributing to a Collection of Measures that Can Help Communities Adapt to Changing Conditions and Become More Resilient



USACE SOUTHEAST FLORIDA PROJECTS



SURVEY OF USACE INITIATIVES

MIAMI-DADE | BROWARD | PALM BEACH COUNTIES
(Not All Inclusive)

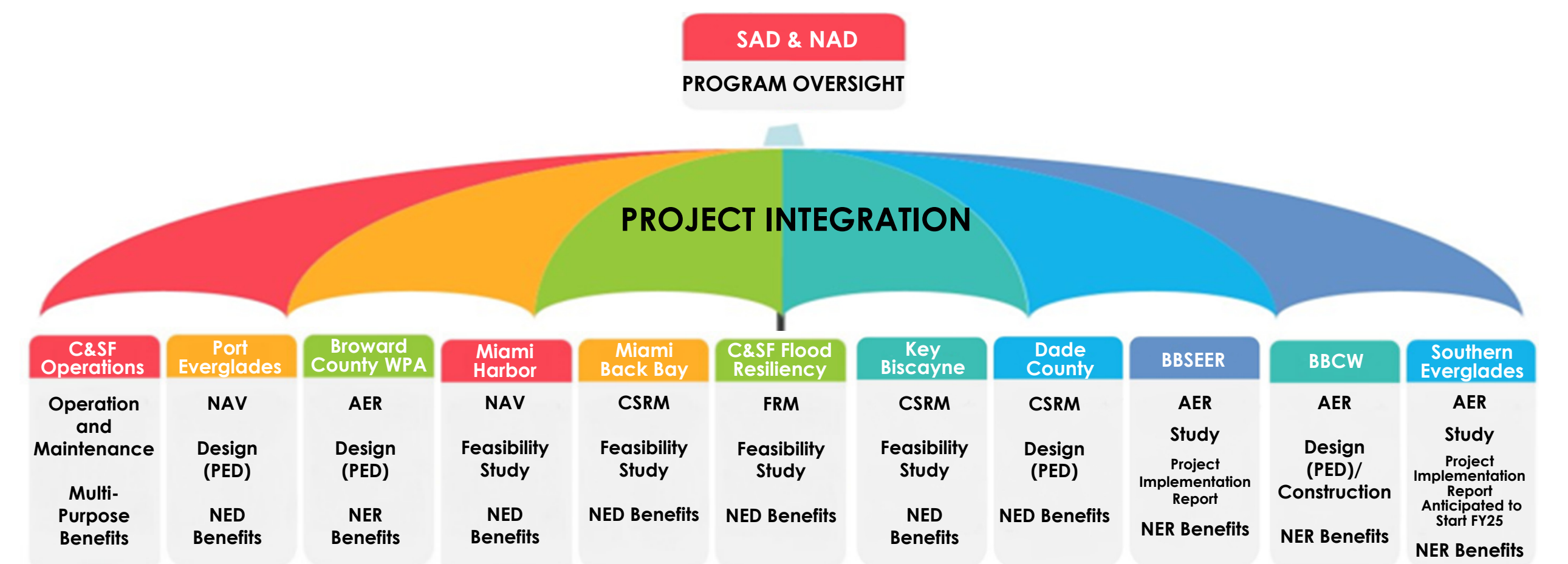
SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) AND FLOOD RISK MANAGEMENT PROJECTS AND STUDIES

- 1) Herbert Hoover Dike Rehabilitation
- 2) Lake Okeechobee System Operating Manual (LOSOM)
- 3) Loxahatchee River Watershed Restoration Project (LRWRP)
- 4) Indian River Lagoon, South (IRL-S)
- 5) Central Everglades Planning Project (CEPP)
- 6) Everglades Agricultural Storage Reservoir (EAA)
- 7) Site 1 Impoundment
- 8) Broward County Water Preserve Areas (BCWPA)
- 9) C&SF Flood Resiliency (Section 216) Study (FRM)
- 10) C&SF Flood Resiliency (Section 203) Study (FRM)
- 11) Tamiami Trail Next Steps – Phase 2
- 12) Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)
- 13) Biscayne Bay Coastal Wetlands (BBCW)
- 14) S-332 Pump Replacements
- 15) C-111 Spreader Canal Western Project
- 16) Melaleuca Eradication

Upcoming Projects

- 1) Southern Everglades
- 2) C&SF Comprehensive Study (multi purpose: FRM, CSR, AER, Recreation, water supply)

INTEGRATION FOCUS FOR PROJECTS AND STUDIES



BUILDING COMMUNITY RESILIENCE | A COMPREHENSIVE AND COLLABORATIVE APPROACH

