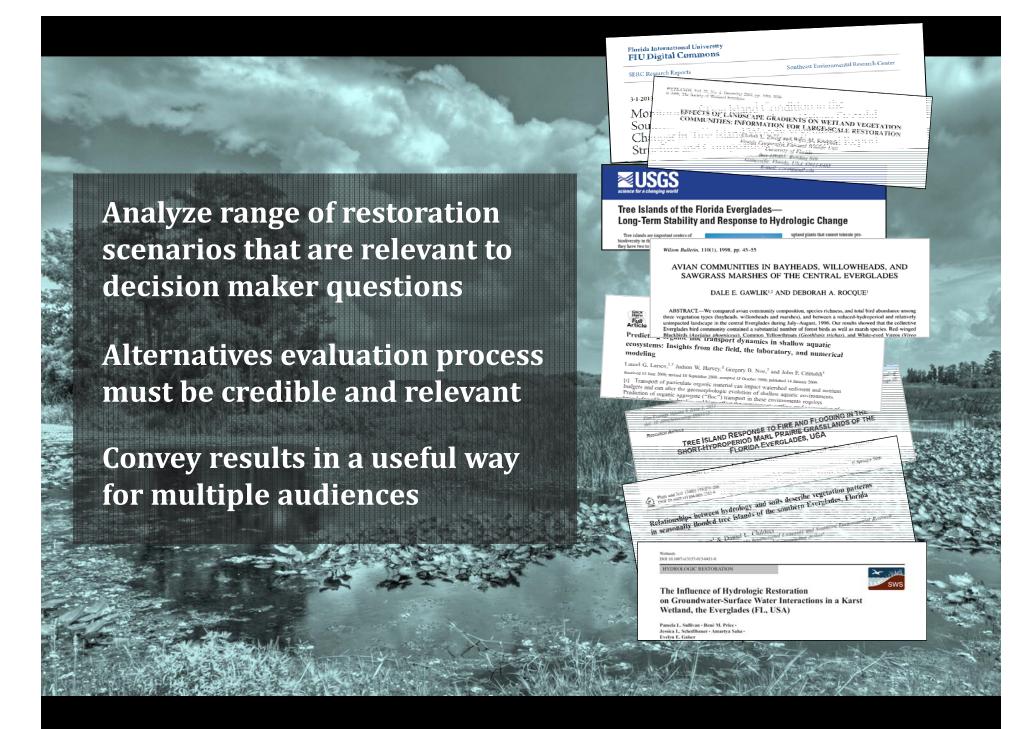
Synthesis of **Everglades** Restoration and Ecosystem Services (SERES)

Critical Ecosystem
Studies Initiative

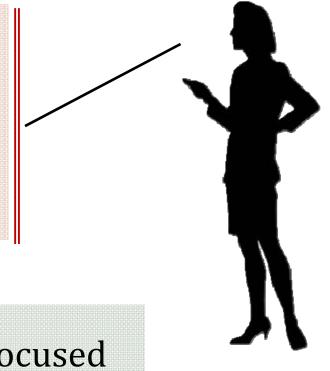
Aida Arik **James Beerens** Rena Borkhataria Daniel Childers Stephen E. Davis III Steven M. Davis Carl Fitz **Evelyn Gaiser Judson Harvey** Hiram Henriquez Thomas Lodge Frank Marshall **Bobby McCormick** Melodie Naja Todd Osborne Michael Ross Jay Sah Joel Trexler Thomas van Lent Paul Wetzel

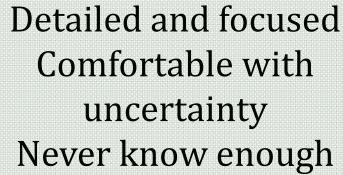
Everglades Foundation U.S. Geological Survey University of Florida **Arizona State University Everglades Foundation** Stephen M. Davis, Consulting EcoLandMod, Inc. Florida International University U.S. Geological Survey **H2h Graphics** T.E.L. Ecological Advisors, Inc. Cetacean Logic Foundation, Inc. Clemson University **Everglades Foundation** University of Florida Florida International University Florida International University Florida International University **Everglades Foundation** Smith College





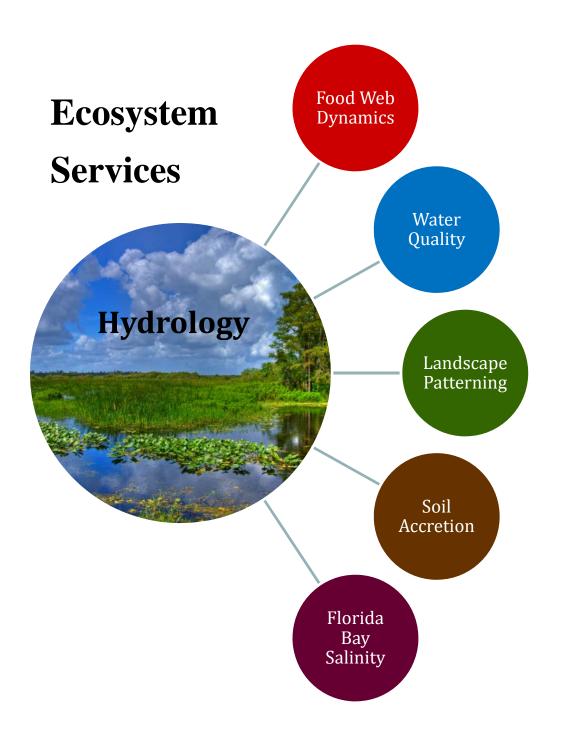






Developed Key Restoration Questions

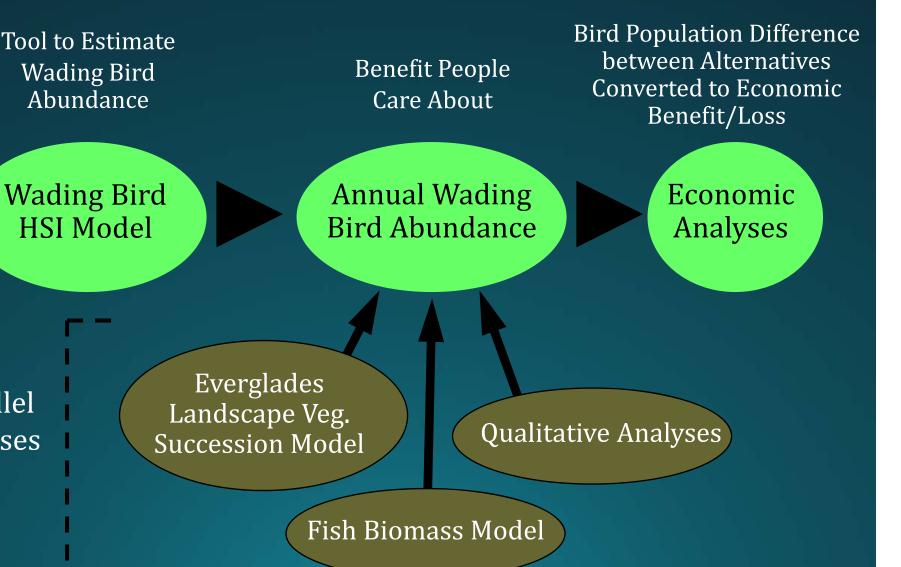
Decision maker questions focused on hydrology, economics, questions that help prioritize decisions



What do people care about?

- Water supply
- Real estate
- Park visitation
- Open space
- Fishing (commercial & recreational)
- Wildlife habitat & hunting

Example Alternatives Analyses



Ridge and Slough Fish Concentration and Bird Food

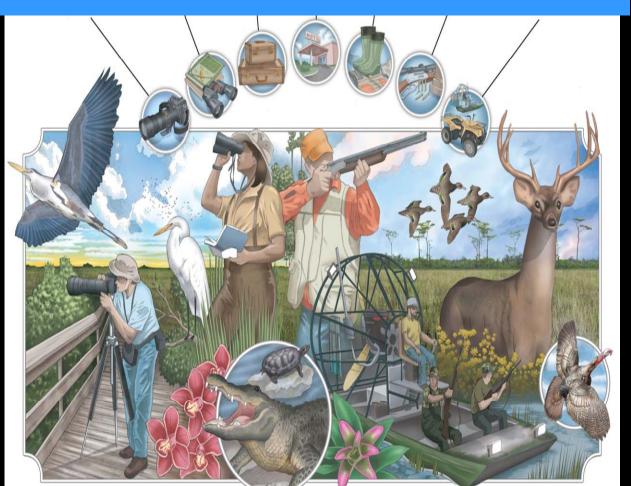
BIRD PRESENCE



Hunting & Bird Watching \$1.04 Billion over 40 years

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o claim that ERES is an nalyses of the cosystem



Storage

Lake EAA **ASR** Belt (kacre-(kacre-feet/yr) (MGD) feet/yr) 1000 360 144 250 360 0 0 1300 0 0 2500 144

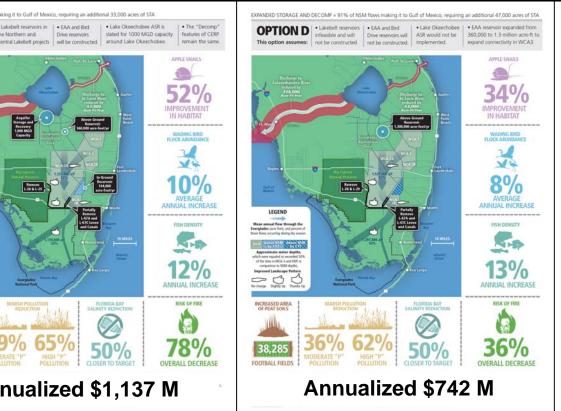
Decomp

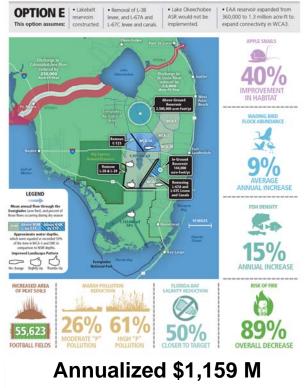
L-67 Levees Removed	L-67A Canal Filled	L-38 (WCA- 2A/3A)
Partially	Lower 4 miles	Existing
Partially	Lower 4 miles	Existing
Removed	14 miles	Existing
Removed	14 miles	Removed

Cost

New STAs (kacres)	Annualized Cost (\$ millions; 3.25% discount over 50 yrs)	
33	1,137	
28.5	699	
47	742	
30.5	1,159	

Restoration Alternatives Analyses





- Hydrologic improvement in all scenarios
- Sheet flow & annual hydroperiods restored



