

Critical Ecosystem Studies Initiative:

Freshwater Everglades Synthesis

March 19, 2010



Our objectives

- Synthesize existing freshwater Everglades science relevant to management questions
- Perform options analysis on a range of restoration scenarios
- Products that are understandable and inform decision making



A Key Tenet of Sustainability Science: Co-Production of Knowledge

or

The “Loading Dock” approach does not work

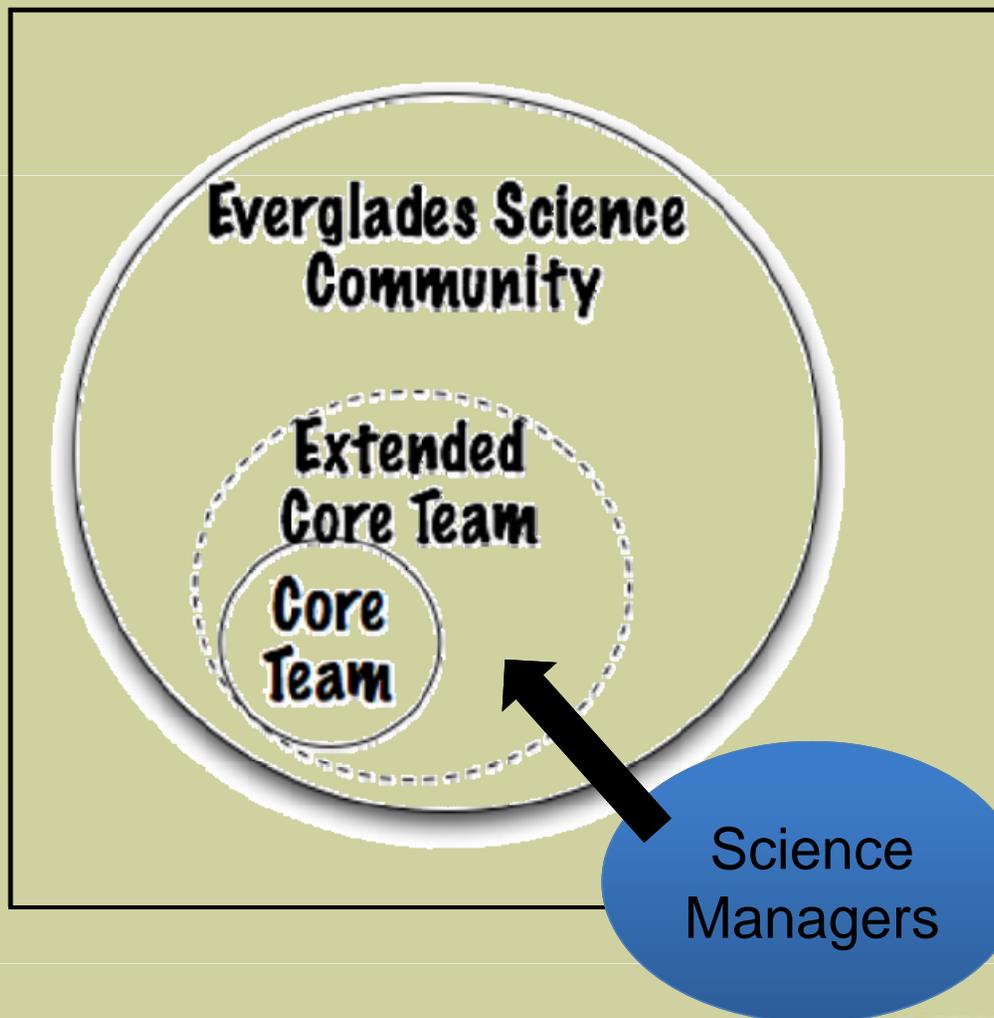
Critical Components:

1. *Credibility* - through quality control of the research process.
2. *Legitimacy* - through inclusiveness and fairness.
3. *Saliency* - through common ownership of products and solutions.

(from work by W. Clark and others)



How will we achieve co-production?



Co-development of key science management questions

Regular peer input and review of progress

Co-development of options

Document review

Our Core Team

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Stephen Davis

Everglades Foundation

Victor Engel

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Everglades Foundation

Paul Wetzel

Smith College



Why did we ask you here?

We seek:

- Key science management questions from your agency to guide our synthesis effort
- Input on process and review of products
- Suggestions for external advisor of this project



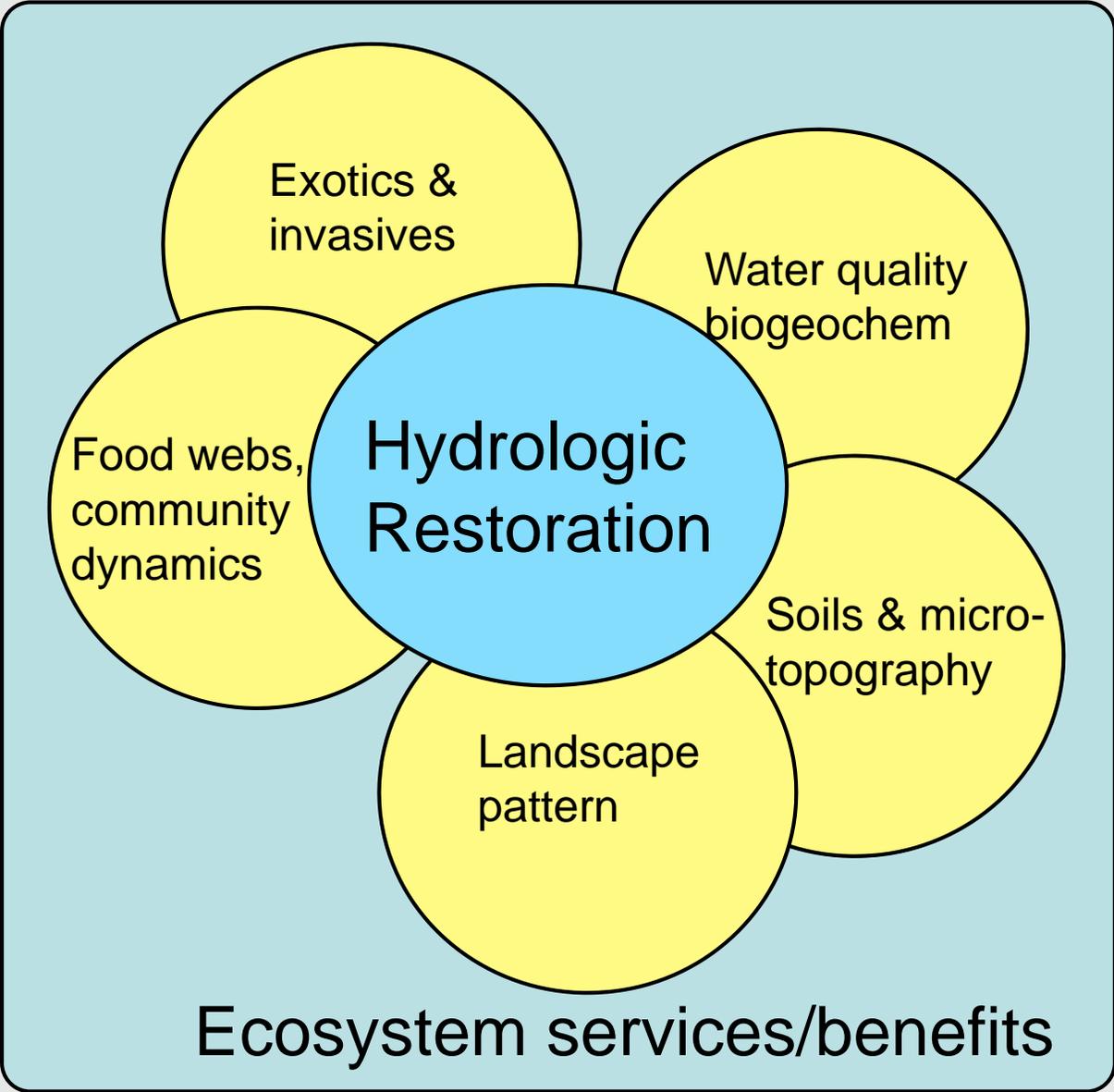
Science Managers invited to first meeting

Held March 19

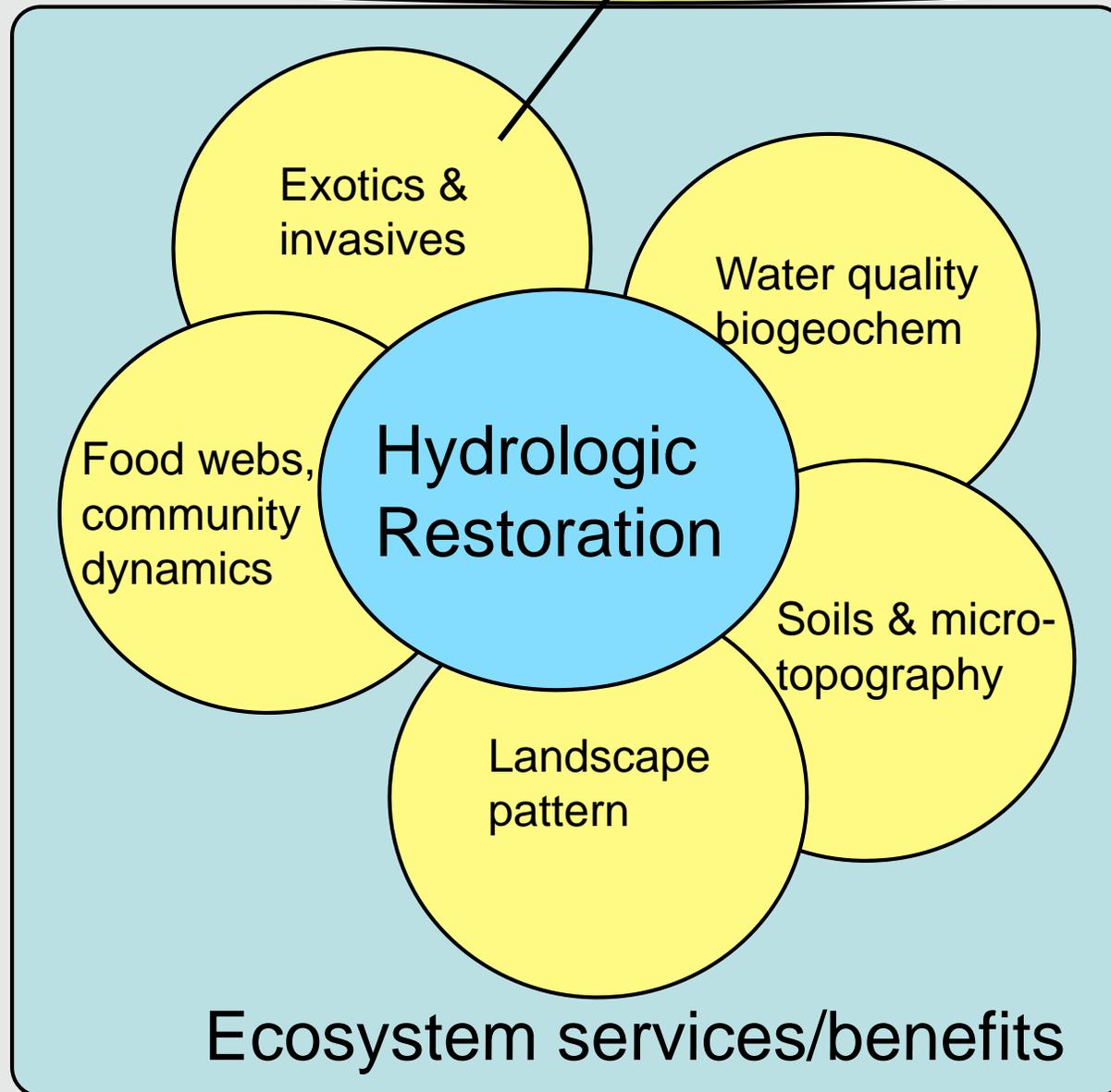
Invited 22
Attended 15

Last	First	Agency	confirm	mode
Best	Ronnie	USGS	yes	in person
Collins	Chuck	FWC	no	
Drum	Deborah	SFWMD	yes	in person
Elliott	Rebecca	SFWMD	yes	in person
Fox	Donald	FWC	yes	phone
Gray	Susan	SFWMD	yes	in person
Heisler	Lorraine	USFWS	no	
Hopkins	Todd	USFWS	yes	in person
Huges	Eric	Corps	no	
Johnson	Bob	ENP/DOI	yes	in person
Keefe	Kelly	Corps	no	
Knecht	Greg	DEP	yes	phone
Lindstrom	Linda	SFWMD	yes	in person
Lorenz	Jerry	Audubon	yes	in person
Maples	Cherise	Sem Tribe	no	
Mitchell	Carol	ENP/DOI	yes	in person
Ortner	Peter	NOAA	yes	phone
Redfield	Garth	SFWMD	yes	in person
Repp	Pam	USFWS	yes	in person
Rice	Terry	Mic Tribe	no	
Sklar	Fred	SFWMD	yes	in person
Tipple	Dave	Corps	no	

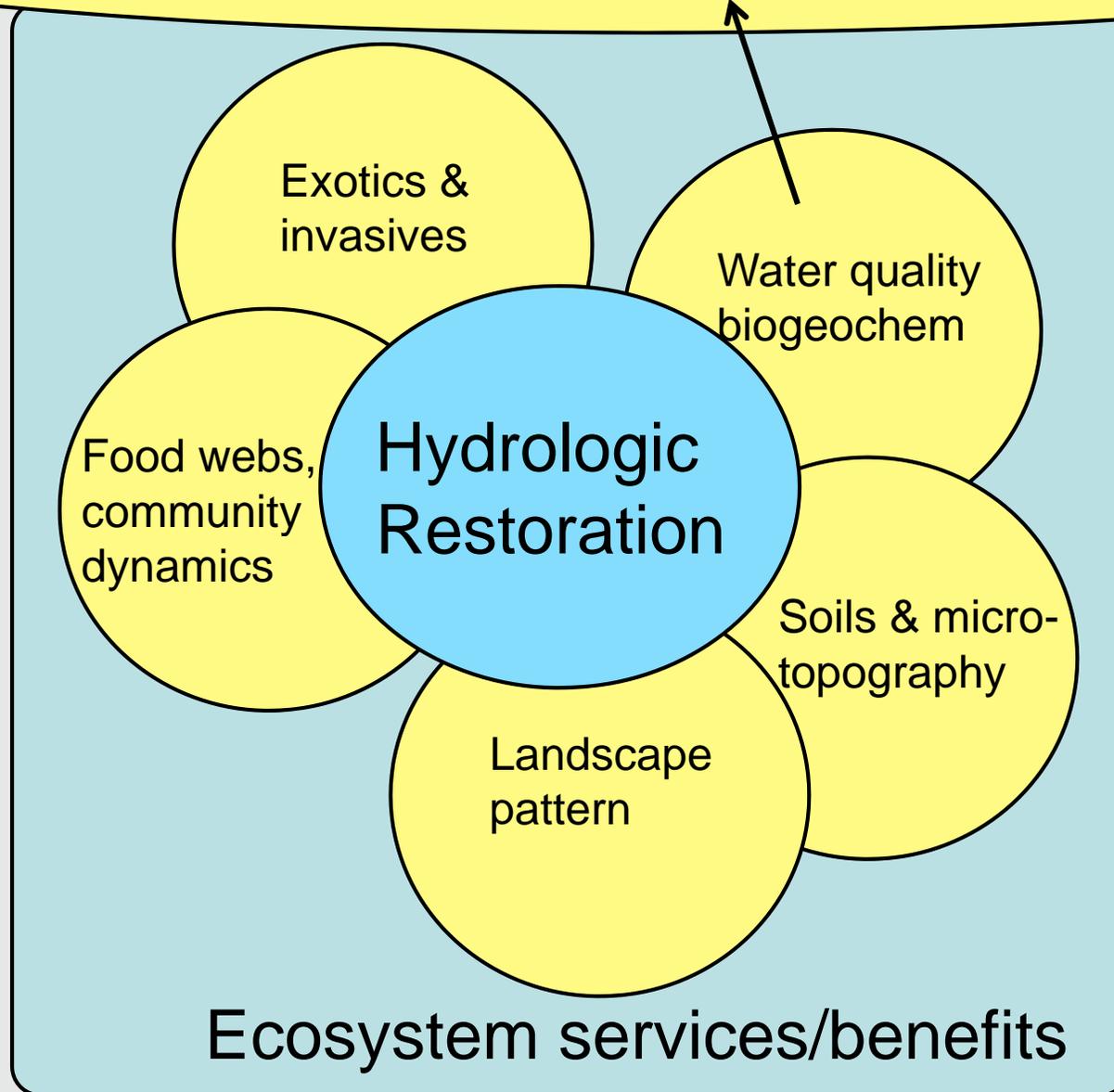


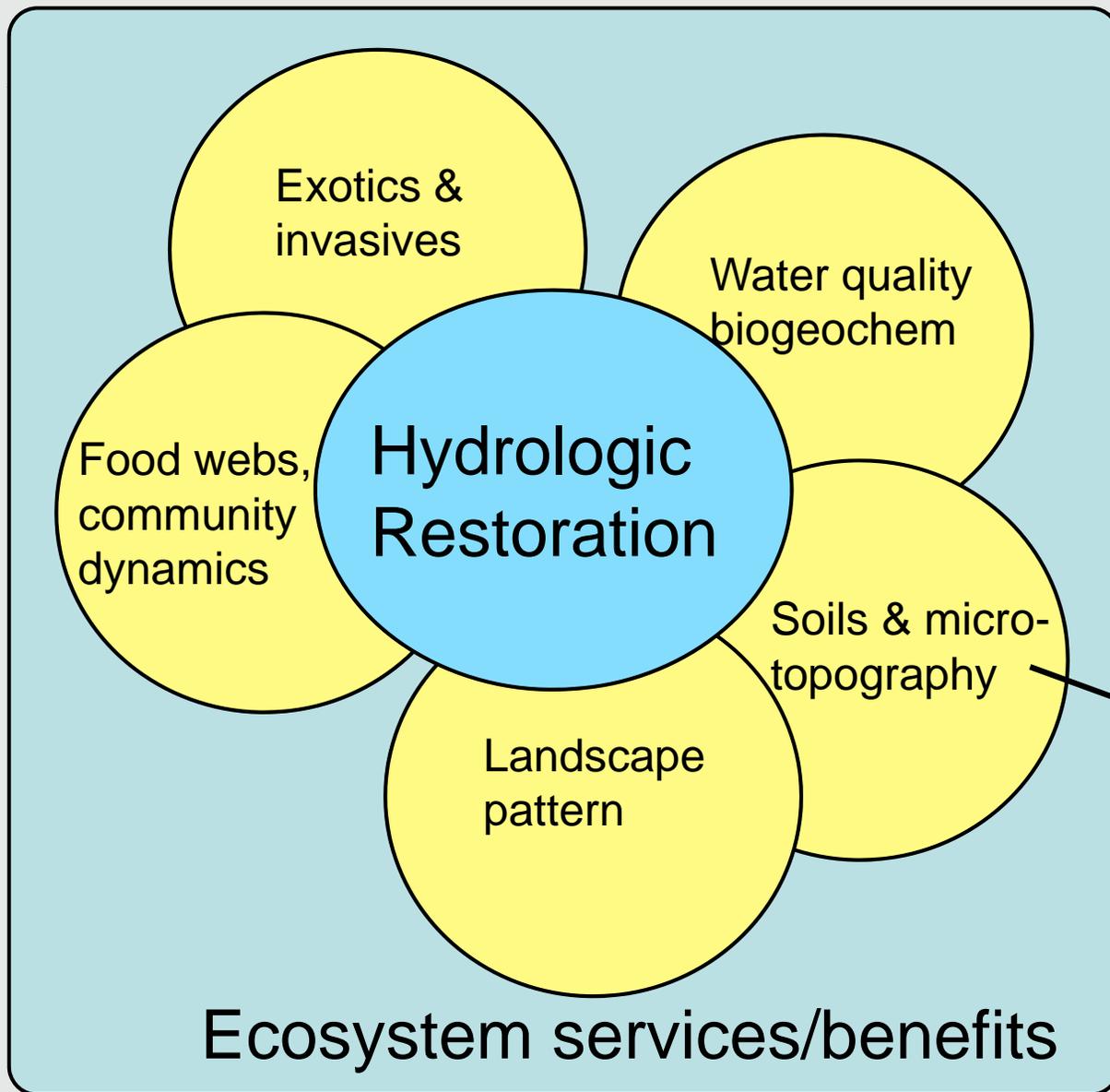


Will hydrologic restoration make the problem of exotic species better and worse ?

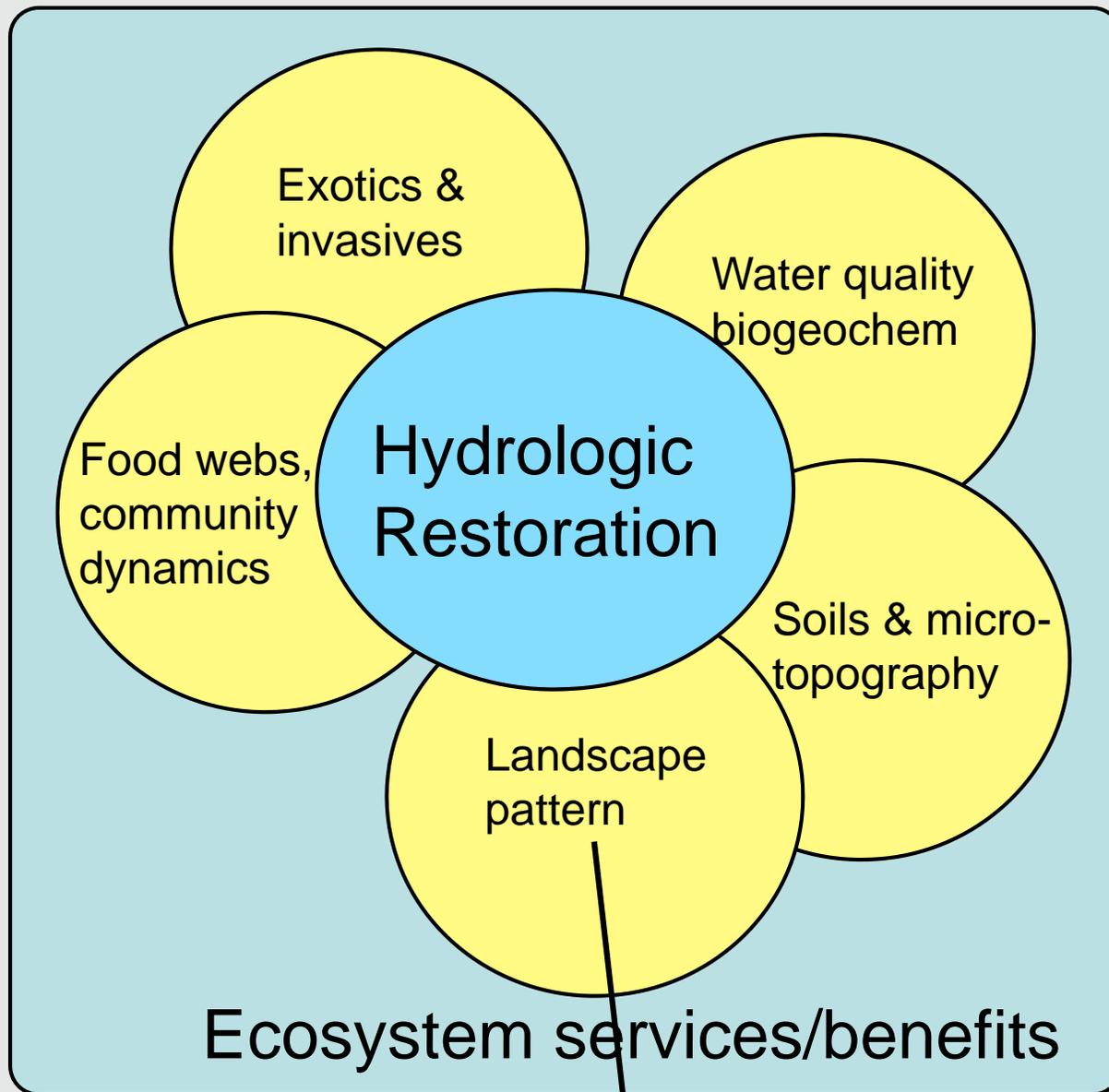


Will it be better to have more, but dirty, water or less, but cleaner, water flowing into the Everglades?

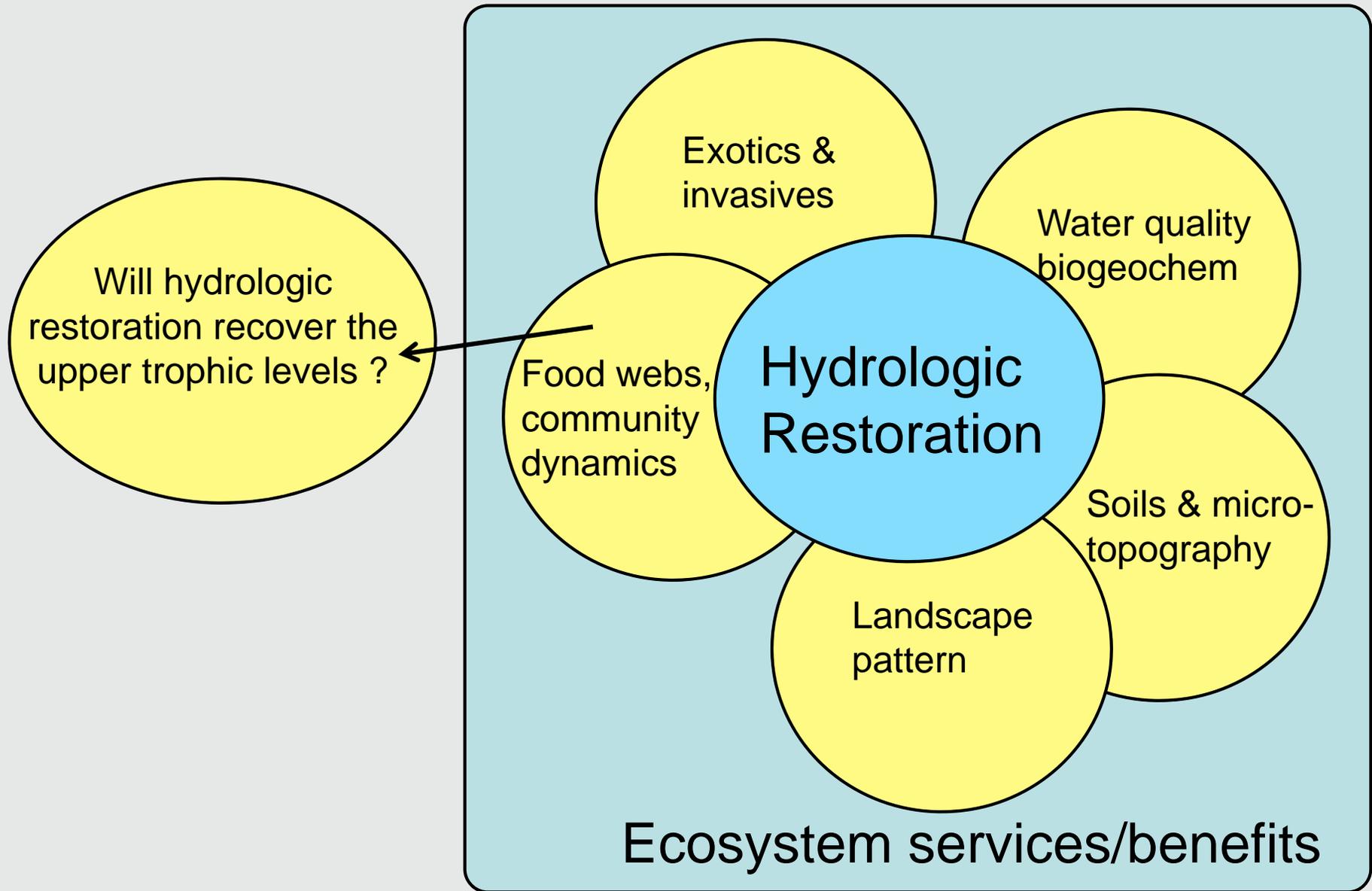




What is the effect of hydrology and water flow on the carbon balance, peat accretion and/or subsidence ?



Can marl prairie and hydrologic restoration coexist? What will happen to tree islands, ridges, and sloughs if the hydrology is restored?



Task and Timeline Review

- Project split into two parts: Task 1 & Task 2
- Task 1
 - External effort: define “key questions”, engaging science managers and decision makers, science community
 - Internal effort: review literature, assemble tools
 - Result: “Proof of concept”
 - Due: End Year 1
- Stop-Go Decision
- Task 2
 - External effort: engage science community, science managers
 - Internal effort: analyses and synthesis
 - Result: final report
 - Due: End of Year 2



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