The Conceptual Models and Science Strategy Presented by Lynne Trulio







The participants of the Project have established the following mandate as one of its Guiding Principles:

"The Long-Term Restoration Plan is based on the best available science, and independent scientific review is an integral part of its development and implementation."

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Charge of the Science Team

- Bring science into all phases of the restoration process and to all involved parties
- Develop a science strategy and conceptual models to guide the restoration of South Bay ecosystems
- Identify critical data needs
- Identify uncertainties
- Help guide consultant activities and review products



Science Strategy and Conceptual Model Process

- Drafted by the Science Strategy Team
- Reviewed by expanded Science Team, PMT, Consultant Team
- Currently in Draft form; available on the website
- To Be Presented to NSP on April 20-21
- **Will Finalize Science Strategy**
- Continual Conceptual Model Review









Three Linked Conceptual Models

- Landscape/Slough Model: bay, mudflats, sloughs
- <u>Tidal Marsh Model</u>: salt marsh, brackish, transitional uplands
- Managed Pond Model: varying salinities, seasonal wetlands

(Currently in Draft form)

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Conceptual Model Types

Control Model:

- illustrates ecological functioning
- processes, structures, feedback, interactions

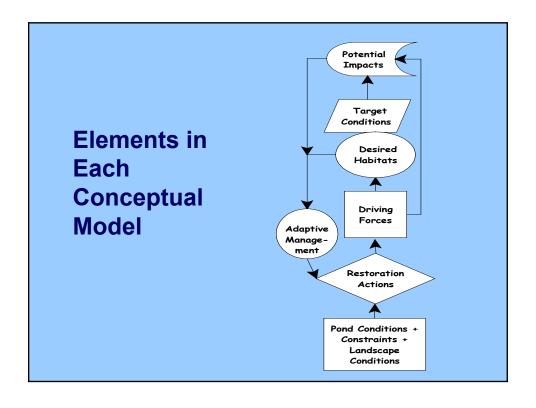
Stressor Model:

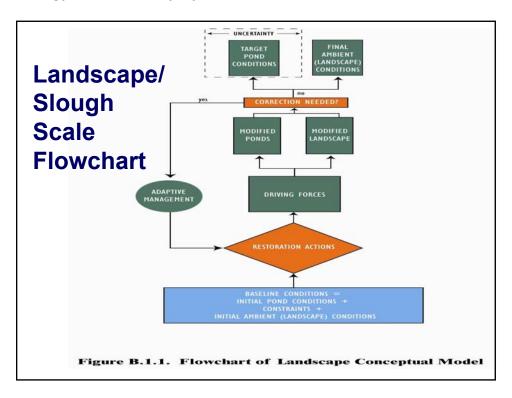
- illustrates human effects on ecological systems
- stressors/activities, ecosystem components, effects, indicators
- South Florida and Everglades Restoration Plan



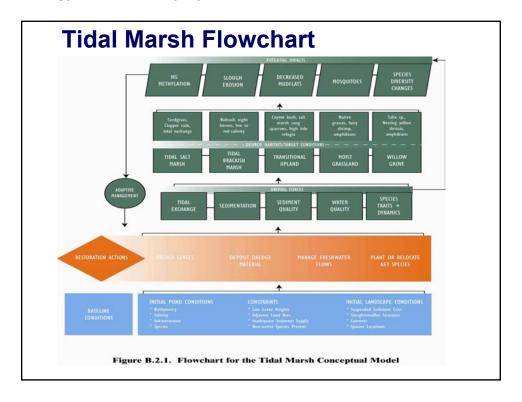
Conceptual Models Uses

- Identify targets of restoration and enhancement
- Clarify the trade-offs between different habitat mixes
- Identify uncertainties in cause and effect linkages
- Target processes requiring further modeling
- Provide the public with an understandable view of the restoration process
- Provide a template for recording our evolving knowledge of South Bay restoration and enhancement

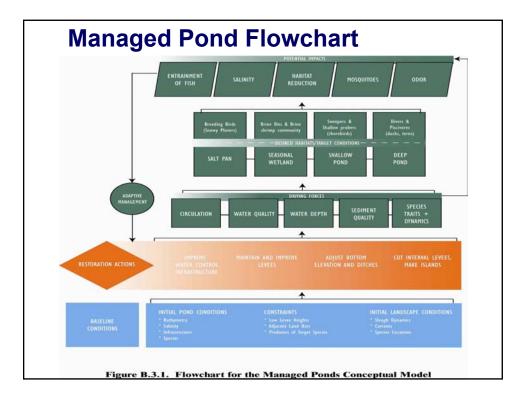




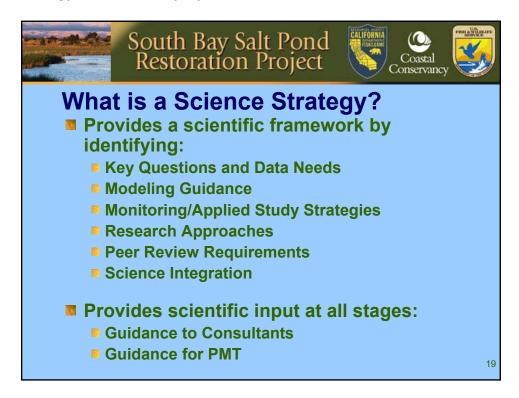


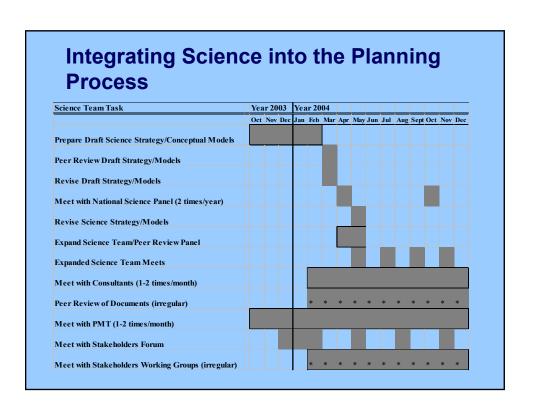












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