

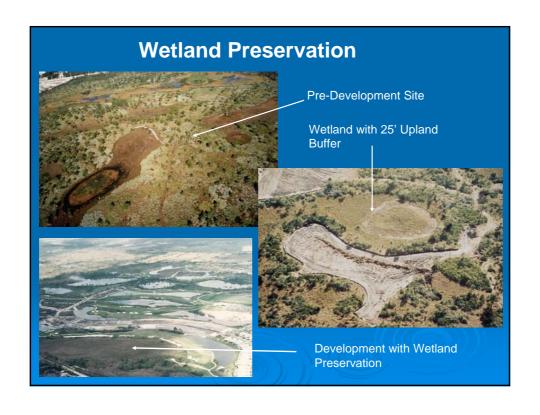


# Wetland Preservation vs. Mitigation Florida, USA

- > Rules say:
  - Avoid and minimize wetland impacts to the degree practicable
  - If mitigation is allowed, there can be no net loss of wetland function
  - Agencies can deny permit issuance if either of these do not occur

## **Types of Wetland Mitigation**

- <u>Preservation</u> To Protect/Preserve existing on-site wetlands/uplands during the development process
- Restoration To restore wetland functions, to a previous condition as a result of impacts (i.e. hydrologic)
- <u>Enhancement</u> To improve the overall condition of a wetland system (i.e. exotic plant removal)
- <u>Creation</u> To create or construct new wetlands as a result of on-site wetland impacts



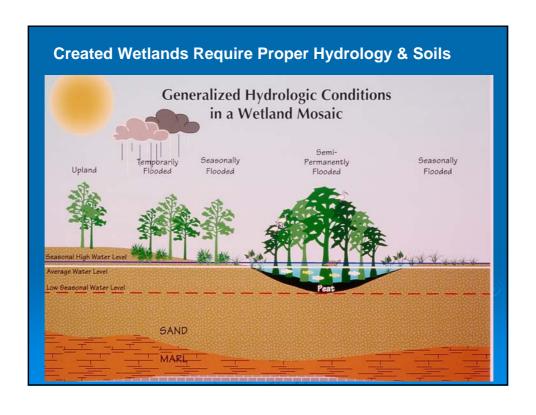




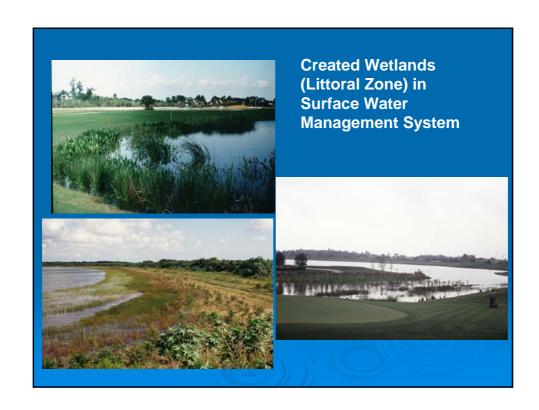


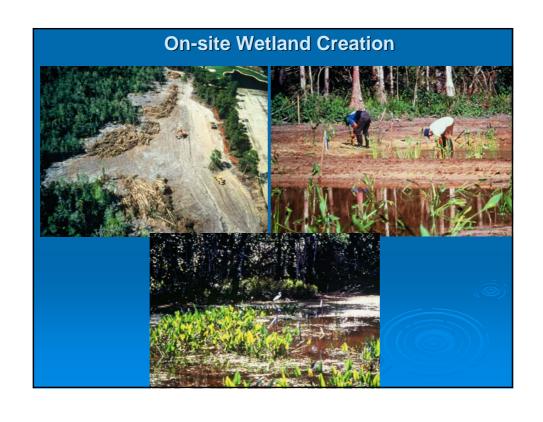
# **Wetland Mitigation Options**

- On-site Wetland impacts as a result of the project are mitigated "on-site" within project boundaries
- Off-site Wetland impacts are mitigated outside of the project boundaries (public/private lands, mitigation bank etc.)
- In-kind Impacted wetland are mitigated with "like" systems (i.e. impacted freshwater marsh is mitigated with another freshwater marsh)
- Out-of-kind Impacted wetland are not mitigated with "like" systems (i.e. Impacted freshwater marsh is mitigated with a hardwood swamp)





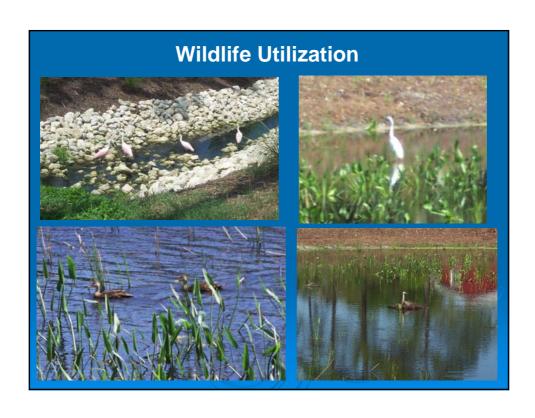












#### **Point of No Return?**

>If hydrology restoration is too risky or is not possible

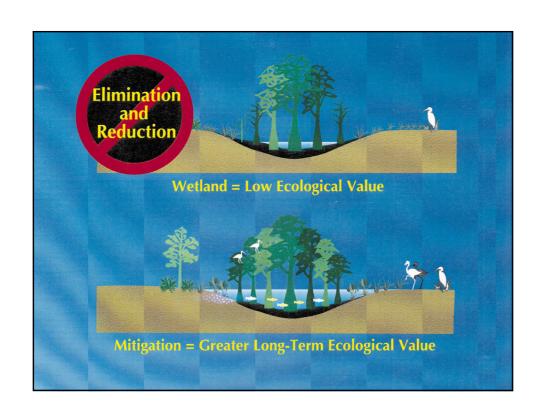
➤ If surrounding development can no longer support the intended function

≻then....

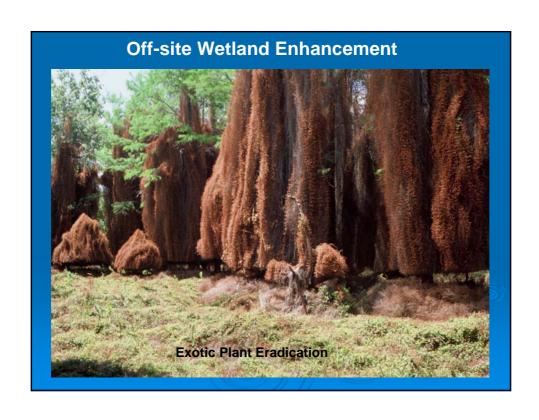
➤ It may make better ecological sense to look at off-site mitigation

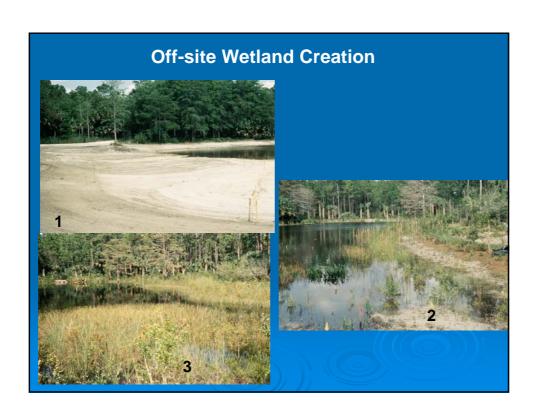




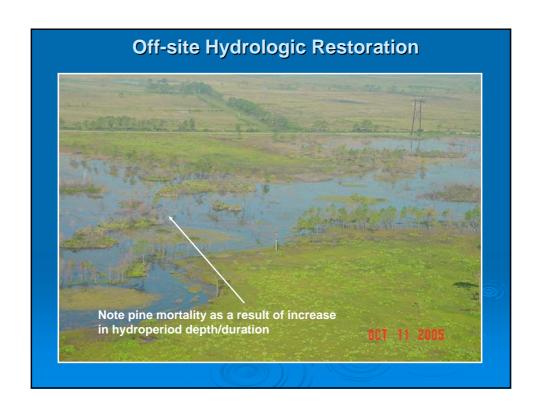












#### **Additional Considerations**

- Wetland/Upland Conservation Easements for protection in perpetuity
- Monitoring and Maintenance to ensure overall health and long-term viability of the wetland areas
- Performance Bonds tied to the overall success of the mitigation areas

### Conclusion

- > Determine functionality of existing on-site wetlands
- Each project site will be unique and wetland mitigation types should be considered on a site by site basis
- > Assurances should be provided that no net lose of function shall occur as a result of the project development
- Post-development functional assessment to verify no net lost of function
- Incorporate wetland monitoring and regular maintenance to promote overall success



