

# Breakout Session Summaries



## Nonnative Fish Breakout Session



# ECISMA Nonnative Fish Projects, July 2016 – June 2017

- **Fish Slam**
  - November (1-3) Pinecrest Gardens, Fuchs Pond, other sites
  - March (Big Cypress?, ENP border canals?)
- **8<sup>th</sup> Annual Nonnative Fish Roundup (April 8<sup>th</sup>)**
- **3<sup>rd</sup> Annual Nonnative Fish Catch, Click and Report Contest (Month of April)**

# Future Efforts

- ENP Bioblitz
- L-28 Canal – Army Corps project input by ECISMA
  - pre-construction sampling
- Fish Chat in 2018

# Nile Monitor Freakout

- Good updates on what has happened since April workshop
  - C51 clearing and what was learned
  - FWC hired a person for Nile monitors
  - FWC funding research contract for trapping
  - Village of Wellington training
  - Outreach in Palm Beach- media interest
  - Outreach for STA contractors
  - Protocols standardized
  - Defined geographic focus areas for efforts
    - West of 441 and south of C51
    - North of C51- Grassy Waters etc
- FWC received good input from partners for future survey efforts



# Next Steps



- Ellen will follow up on potential clearing of C51 by contractor to continue learning about the potential for using habitat manipulation as control method
- Todd will be contacted again for reports/information from Cape Coral
- UF will initiate trapping study
- FWC will restructure surveys to coordinate with trapping and address other areas
- EIRAMP surveys will continue (UF and Refuge)
- We will continue to think about performance measures for evaluating progress/success/return on investment



# Biocontrol Release Strategies Using UAV's

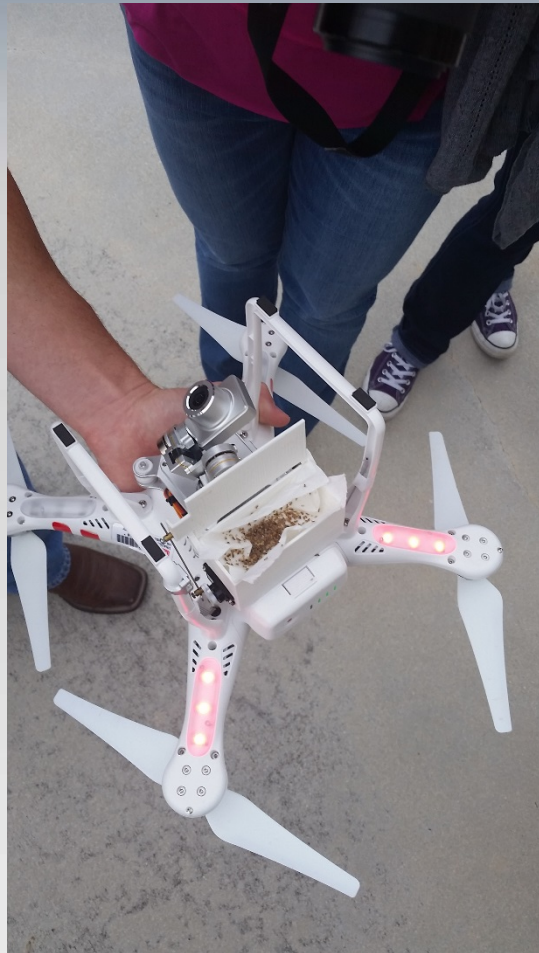


**EVERGLADES CISMA**

# Biocontrol Release Strategies Using UAV's

- **Phantom Drone (USACE)**
  - Video, Still Image, Mapping purposes
  - Plastic box mounted to drone stand
    - Has remote operated drop door
    - Use camera to confirm drop site
    - 5' above target
    - 86% of insects hit target; 1 meter target
    - 500 Meter distance to target
    - >1000 insects per drop

# Biocontrol Release Strategies Using UAV's



# Biocontrol Release Strategies Using UAV's

- **Species being tested**
  - **Water Hyacinth**
    - *Megamelus scutellaris*
  - **Lygodium**
    - *Floracarus perrepae*

# Biocontrol Release Strategies Using UAV's

- **Cannot currently use this for private lands because of FAA restrictions**
- **Endangered Species buffers?**
  - **Eagles**
  - **Snail Kite**

# Biocontrol Release Strategies Using UAV's

- **What other biocontrols could be compatible with this platform?**
  - **Thrips (Brazilian pepper)**
  - **Gall Midge (Melaleuca)**
  - **Oxyops (Melaleuca canopy)**

# Biocontrol Release Strategies Using UAV's

- **Areas to use this Platform**
  - High areas (tree canopies)
  - Hard to reach areas (thick vegetation)
  - Kissimmee River (Floating islands that cannot be traversed)
  - Small pockets of invasives in remote areas (more time efficient)

# Biocontrol Release Strategies Using UAV's

- **What are other uses for UAV's?**
  - **Drop Net system for sensitive biocontrols**
  - **Dip system for sampling small floating plants (Azolla)**
  - **Visual sampling for assessing biocontrol efficacy**
  - **Cost effective Smaller-scale detailed mapping (fixed wing or quad-copter platforms) 100-800ac/day**
  - **Dispersing native seeds for restoration purposes**

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## FDOT/ECISMA Breakout Session



# Breakout Session Summaries



## Enhanced Outreach ESL Breakout Session

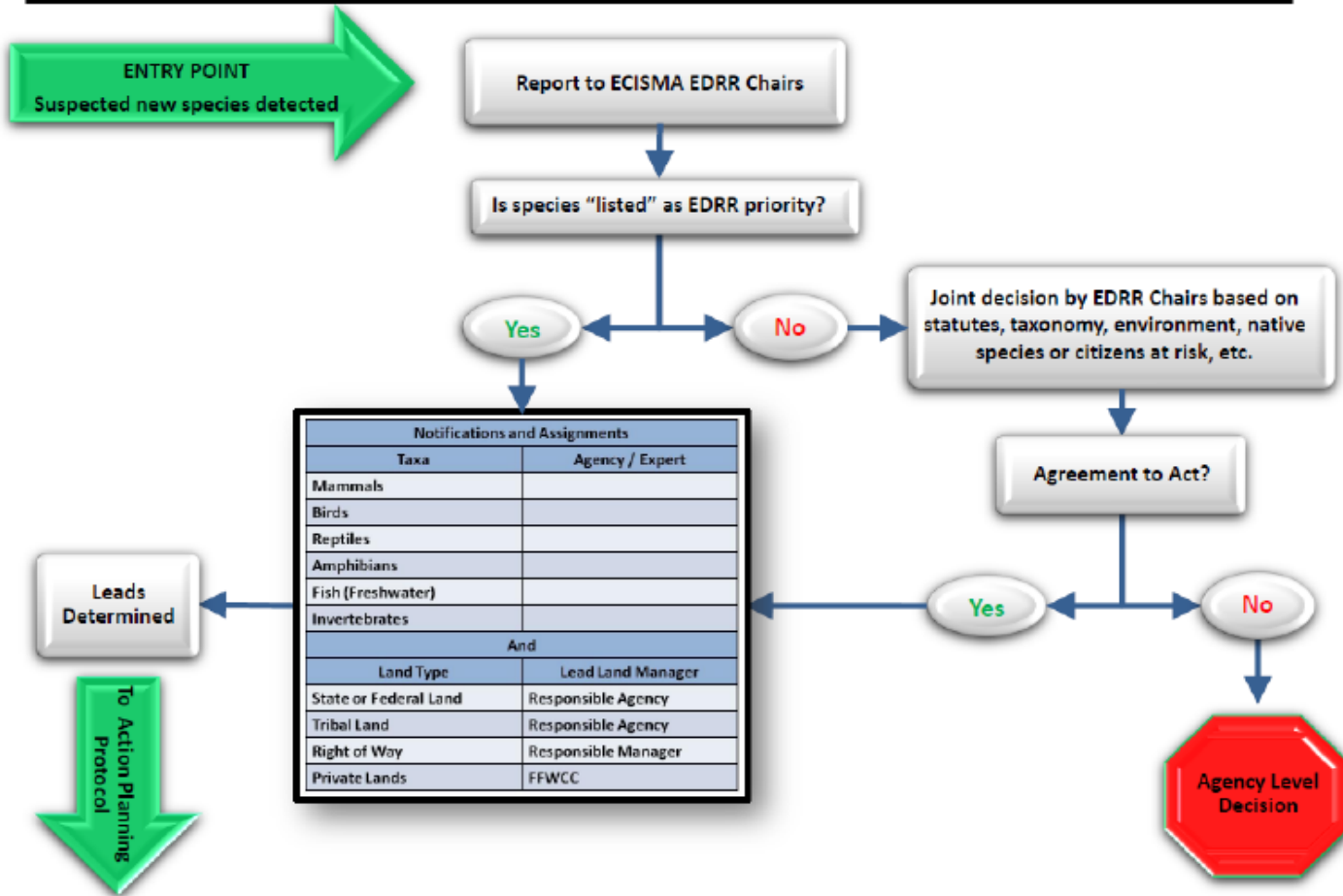


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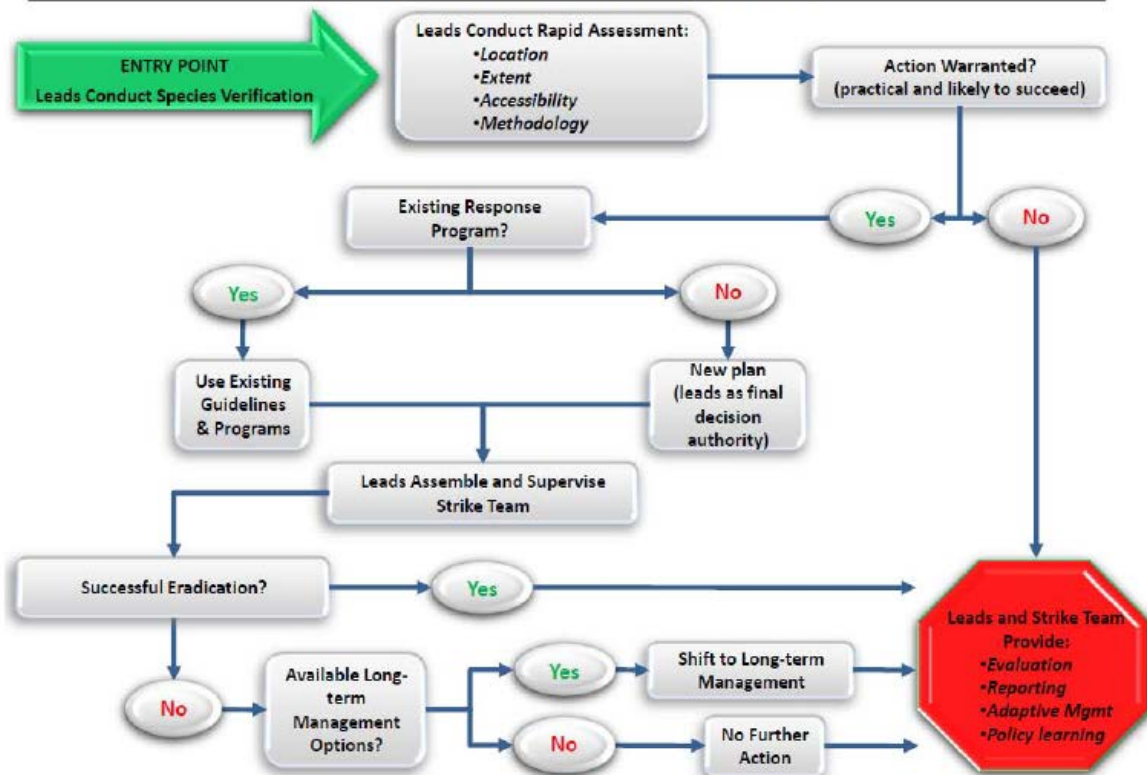
## EDRR Plan Breakout Session



# Everglades CISMA Rapid Response Action LEAD SELECTION



## Everglades CISMA Rapid Response ACTION PLANNING PROTOCOL



# Take Away

- Combine flow charts to simplify
- Incorporate EDRR go/no go screening tool
- EDRR Plant /Animal subcommittee chairs will be incorporated into the chart
- Maintain Agency's level decision if ECISMA does not want to act.

## Next Steps

- Web Ex
- Version comparison

# Federal obstacles and streamlining

- We focused on obstacles to implementation and what we can do in/with the EDRR plan to allow us to work FAST
- Each agency has specific constraints (e.g., wilderness in ENP)
- Many common administrative obstacles (End. Species, NEPA, etc.)

# Federal obstacles and streamlining

- Endangered Species
  - Existing Exemption for dangerous sp,
  - Should seek programmatic approval to remove listed species
    - Review list first to ID which species
- NEPA
  - Each agency has existing cat ex's
  - Should seek overarching NEPA review that we could all adopt
    - EA on the EDRR Plan, or:
    - Seek program cat ex for EDRR

# Federal obstacles and streamlining

- Migratory Birds
  - Need to review MBTA list and review new authority to “take”
  - Should seek programmatic approval to take migratory birds
- Access, liability, permissions off our properties
  - A MOU would be helpful to address this issue
  - Maybe other agreement

# Federal obstacles and streamlining

- Funding mechanism
- Training
- Safety procedures
  
- Should explore working with/through LLCs

# EDRR Checklist

## (Go!)

- Jurisdiction
  - Landowner/mgr responsible
- Administration
  - Permits
- Methods/Tools/Resources
  - By-catch considerations
- Safety
  - Environmental hazards
- Coordination
  - FOE funding?
- Cultural considerations
  - Social acceptance statement
- Outreach
  - To publicize or not