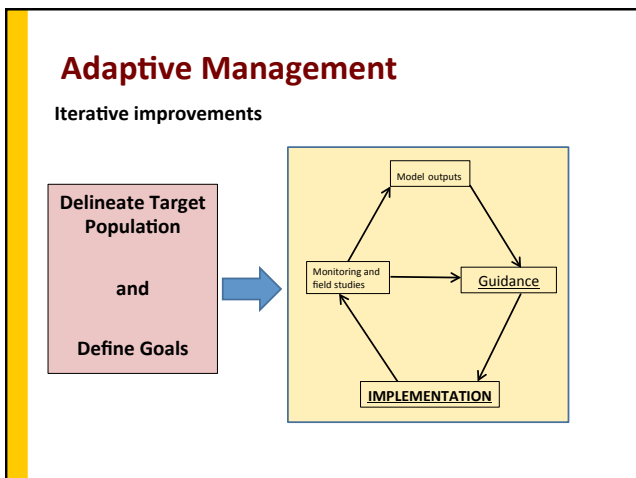


From Data to Implementation: Using Modeling Results and Field Studies to Generate Management Guidelines for Free-Roaming Cats

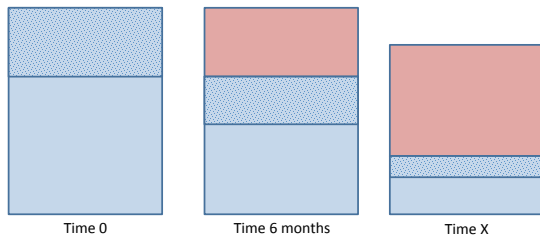
John Boone, Ph.D.
June 21st, 2013



- | Guidance | Primary Material |
|--|---|
| <ul style="list-style-type: none"> • Easy to access • Relevant information only • Simple to understand • Achievable • Minimizes nuanced, qualified statements | <ul style="list-style-type: none"> • Technical language • Fully referenced and rationalized • Discussion of relevant nuances and qualifications • Background information and theory |

Guidance Document Highlights

- 70 % sterilization => 30% of unsterilized cats semi-annually

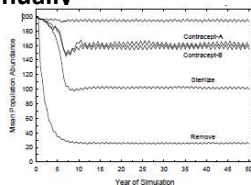


Guidance Document Highlights

- 70 % sterilization => 30% of unsterilized cats semi-annually
- Three-year sterilant requires ~ 40% of unsterilized cats semi-annually

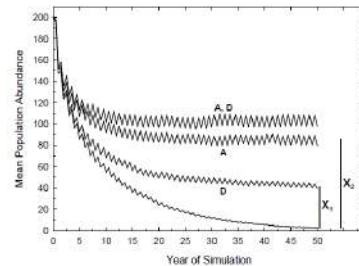
Guidance Document Highlights

- 70 % sterilization => 30% of unsterilized cats semi-annually
- Three-year sterilant requires ~ 40% of unsterilized cats semi-annually
- Lag times: 5 – 10 years



Guidance Document Highlights

- Dispersal and Abandonment are critical



Guidance Document Highlights

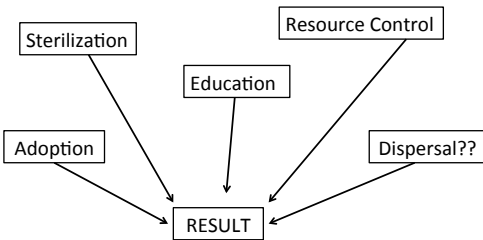
- Dispersal and Abandonment are critical
- Removal versus Sterilization

Guidance Document Highlights

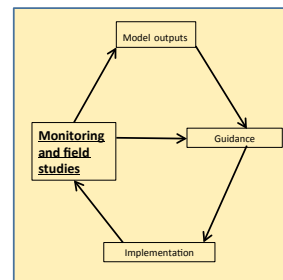
- Dispersal and Abandonment are critical
- Removal versus Sterilization
- Kittens versus Adults
- Females versus Males

Guidance Document Highlights

- Holistic approach



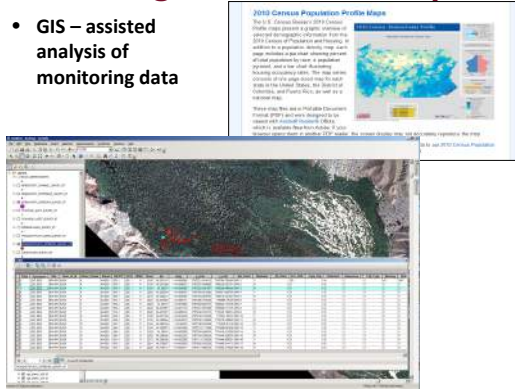
Continuing Around the Loop



- Study dispersal rates at different densities in different settings
- Behavioral and demographic function of sterilized cats

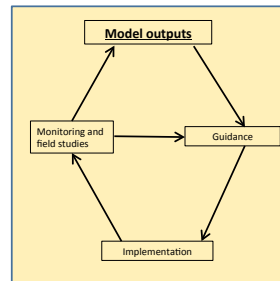
Continuing Around the Loop

- GIS – assisted analysis of monitoring data



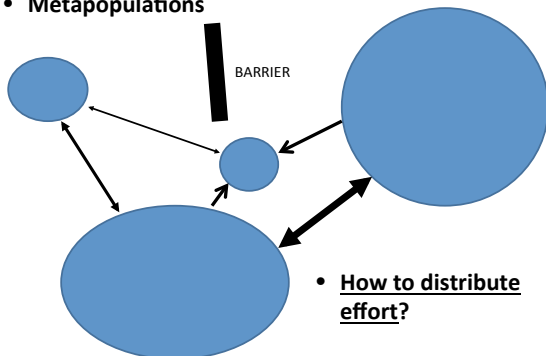
Continuing Around the Loop

- Habitat / density scenarios
- Different treatment intervals and intensity
- More refined density-dependence
- Behavioral parameters



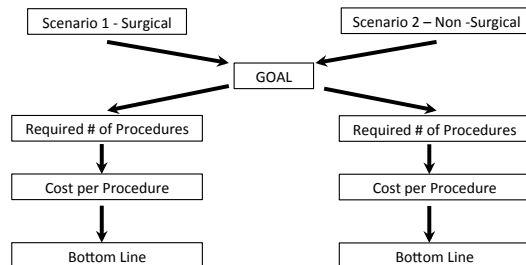
Continuing Around the Loop

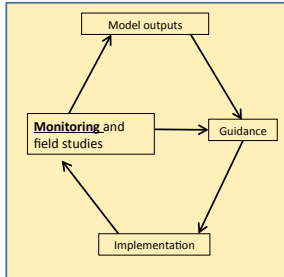
- Metapopulations



Continuing Around the Loop

- Cost-benefit analysis





Thanks to the ACC&D FRC Model Development Team:

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