Peoria County Environmental Corridor Study



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Study Goals

- Identify environmentally significant sites within study area
- Develop land use recommendations for sustainable development at environmental corridors

Inventory Partners

Educational Institutions:

Bradley University
IL Central College
Peoria Academy of Science

Governmental Entities:

Peoria County P&Z
City of E. Peoria
Fondulac Park District
Peoria Park District
Pekin Park District
Peoria Farm Bureau
Peoria Co. Soil & Water

Consultants:

MacTec, Inc.
University of Illinois

State Agencies:

IL Natural History Survey
IL Nature Preserves
Commission
IL History Survey

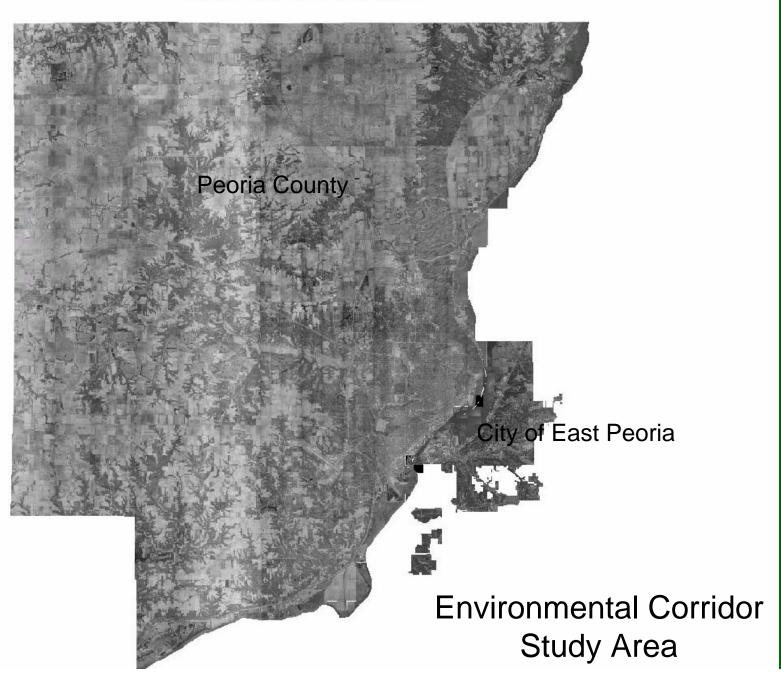
Federal Agencies:

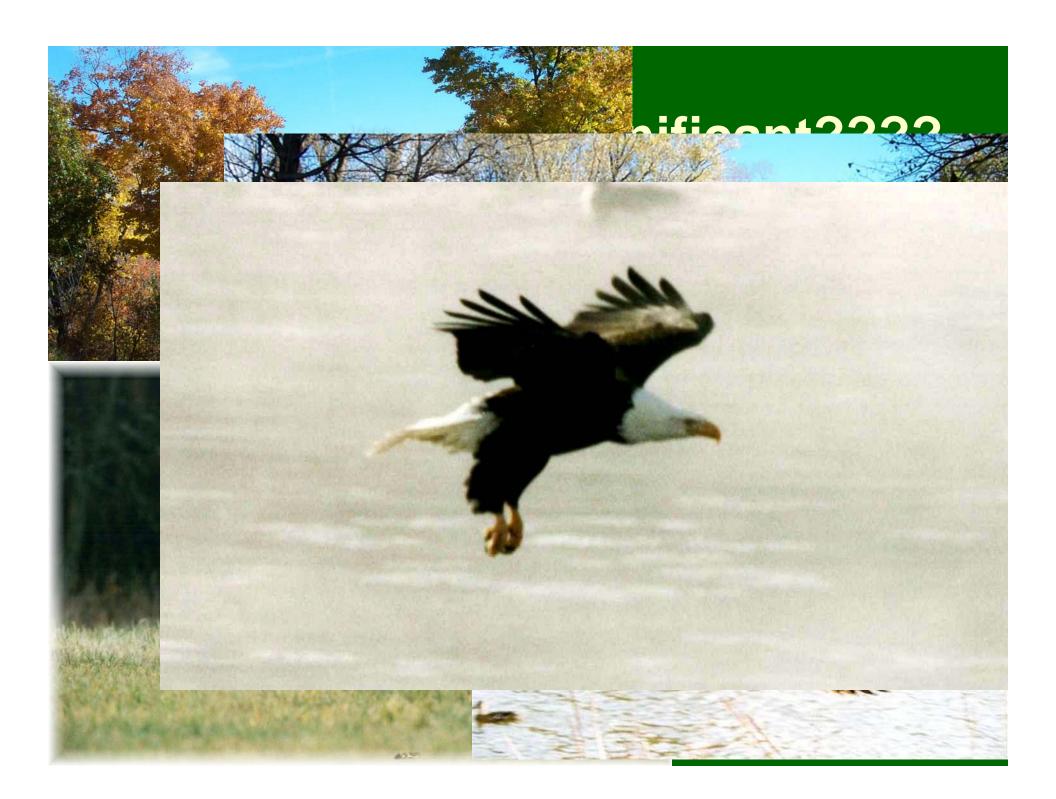
US Fish & Wildlife Service US Dept. of Agriculture

Environmental Groups:

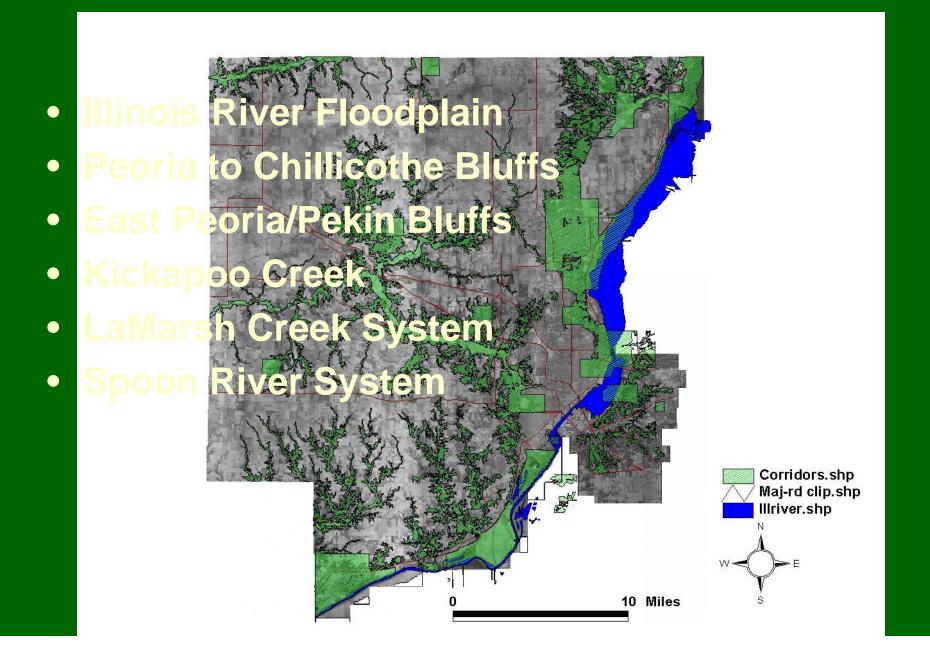
Peoria Audubon Society
Trees Forever
Tri-County Riverfront Action
Forum
HOI Sierra Club

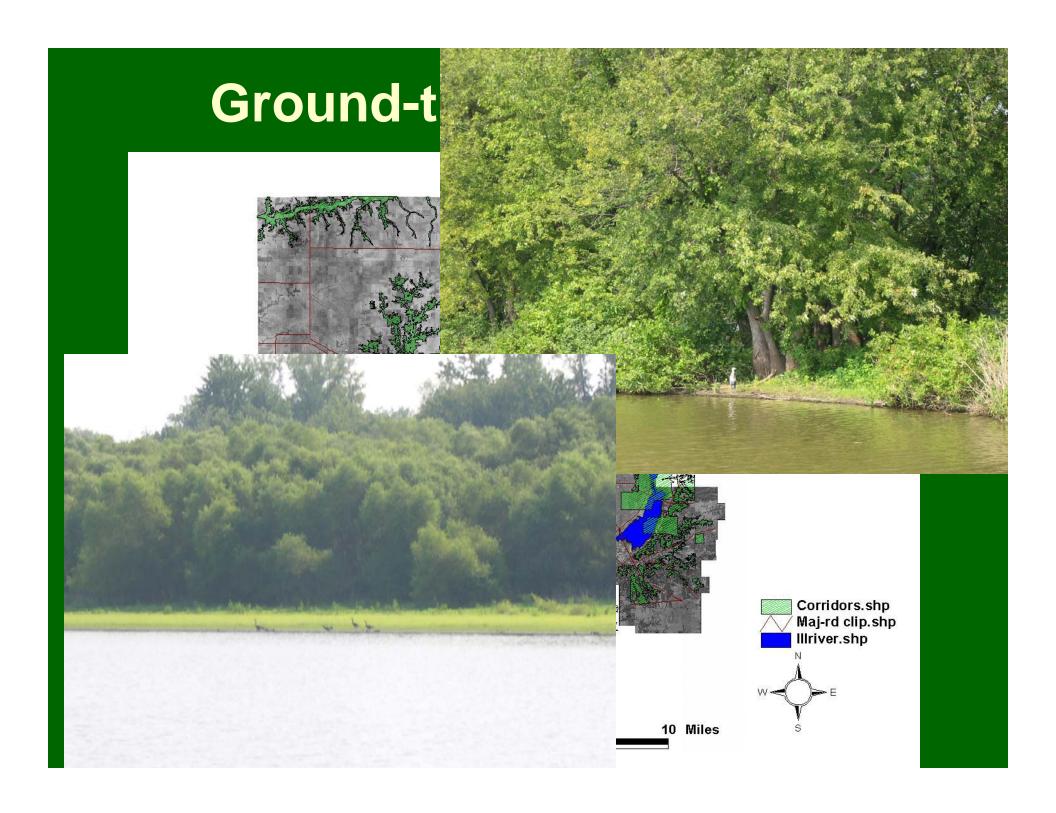
Environmental Indicators

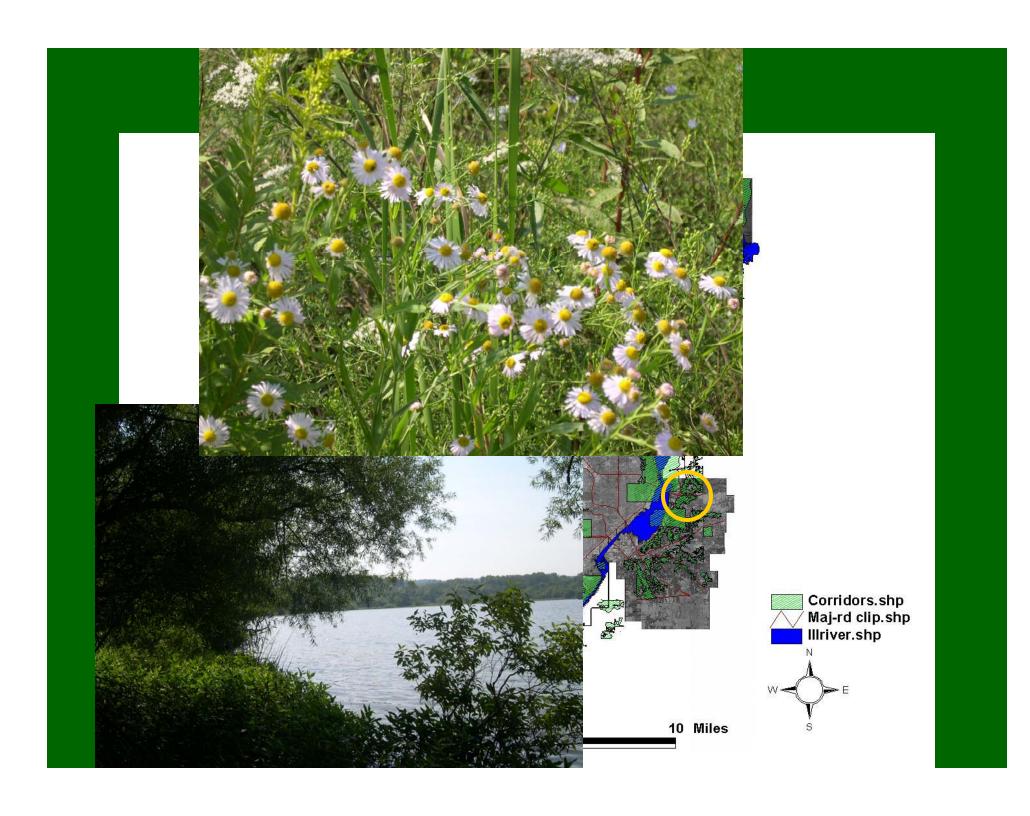




Environmental Corridors









UIUC- Habitat Fragmentation Model

Identifies habitat required for certain species

Provides habitat fragmentation analysis:

- Effect on habitat due to various economic trends
- Effect on habitat from land use change and public policy choices

Model Scenarios

- Business as usual (baseline economy/policies- no change)
- Economic Growth- 20% Gross Regional Product
- Economic Decline- loss of 15,000 jobs
- High Growth Contained- FPA (sewer service)
- High Growth Redirected- Ag. Preservation
- High Growth with Bluff Protection

Species for Model

- Bobcat (Canary in the Coal Mine)
- Wood Thrush



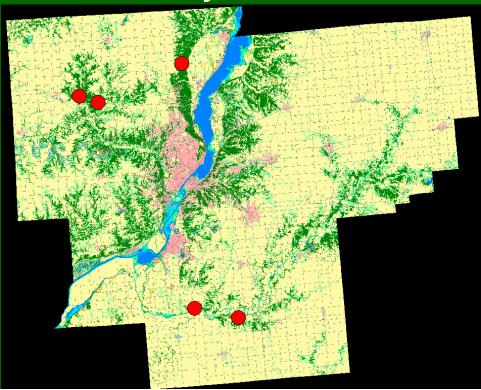
The Bobcat in Peoria

Bobcat is a habitat generalist, not critically affected by fragmentation

Bobcats are present in Peoria county

- 3 recorded sightings

- Medium abundance



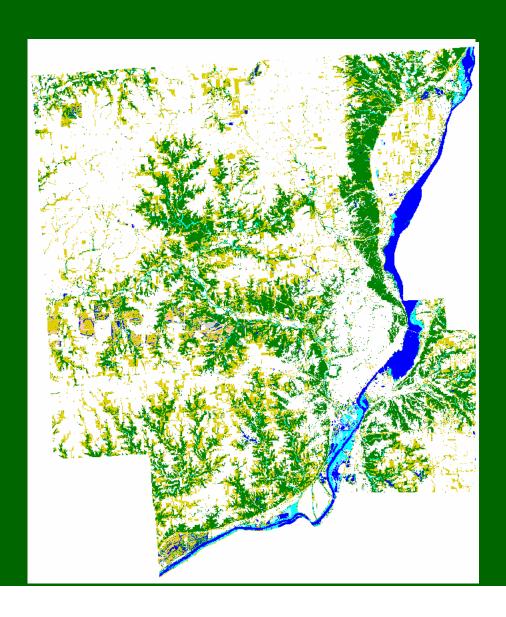
Bobcat Habitat

Essential habitat:

- Forest
- shrubland

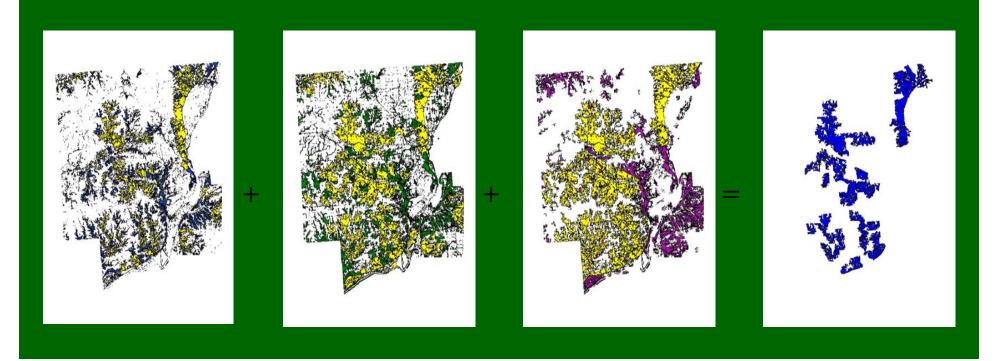
Hunting habitat:

- bare rock
- transitional
- orchards
- grassland
- pasture
- Wetlands

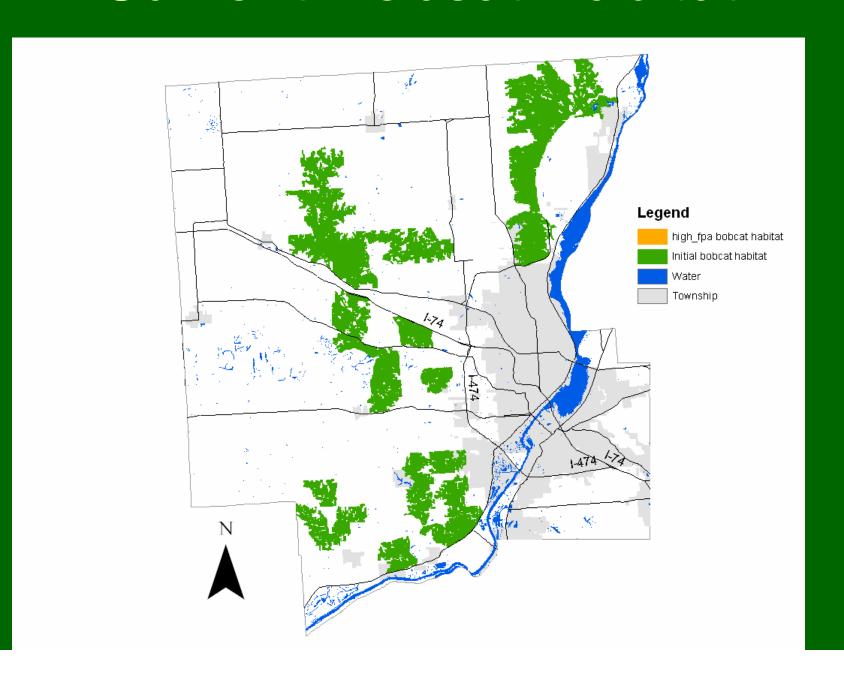


Approach

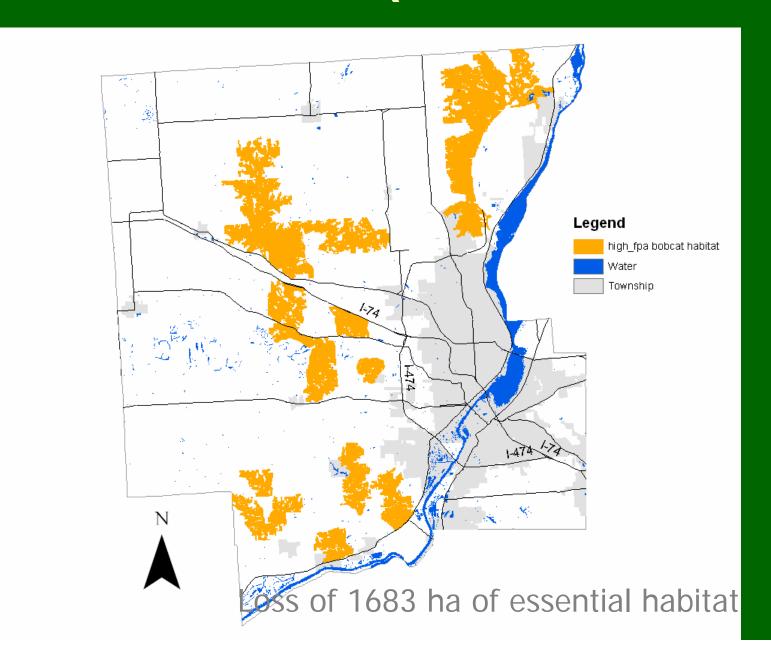
- Combining the 3 themes that define bobcat habitat:
 - Forest: > 1.89 km² (high 2.7, low 1.26)
 - Core habitat > 2.4 km² (high 3.2, low 1.8)
 - Home range > 16 km² (high 18.2 low 14.8)

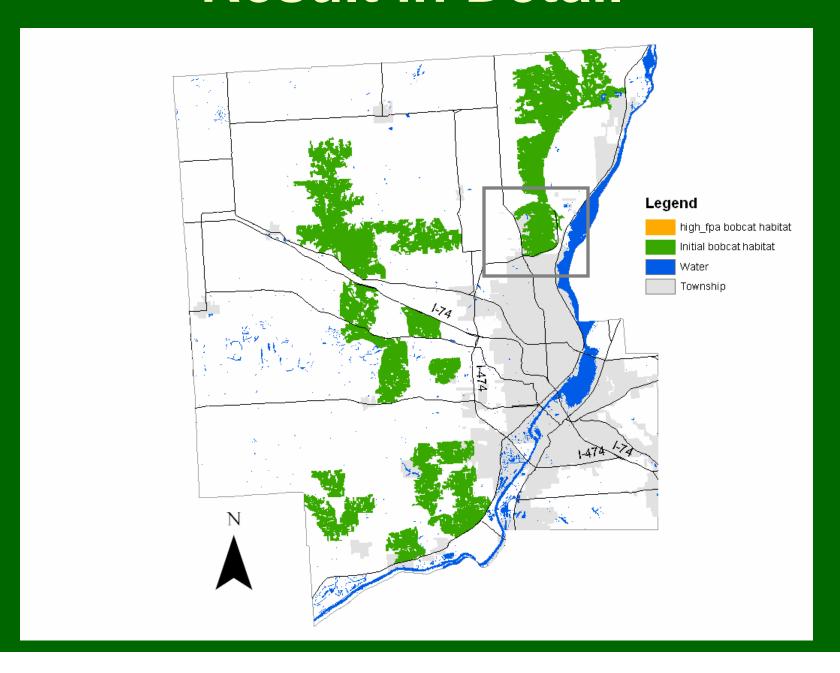


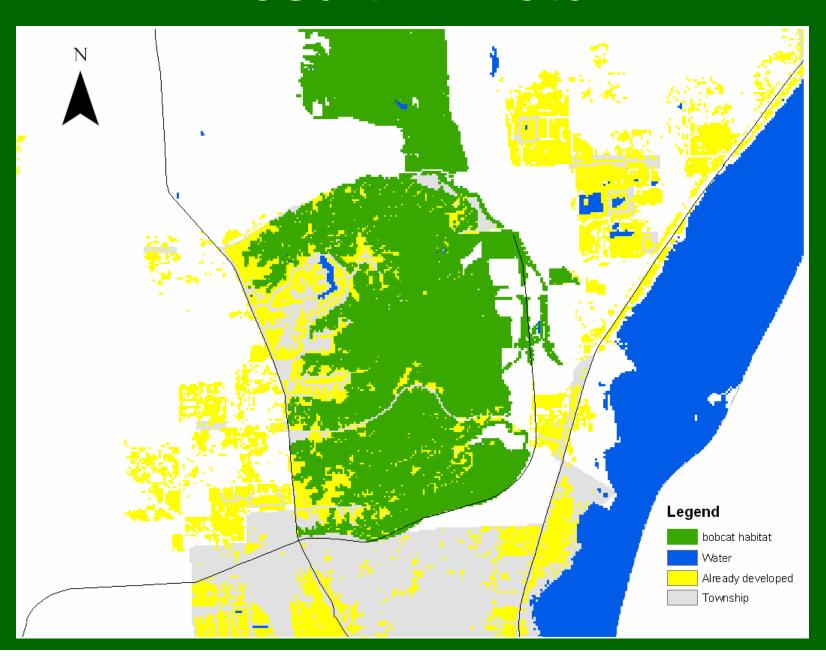
Current Bobcat Habitat

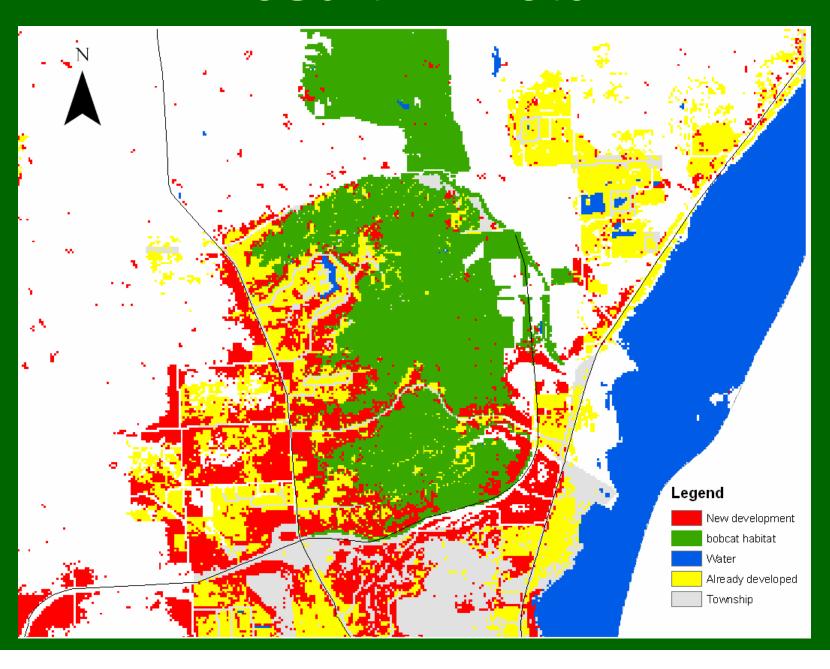


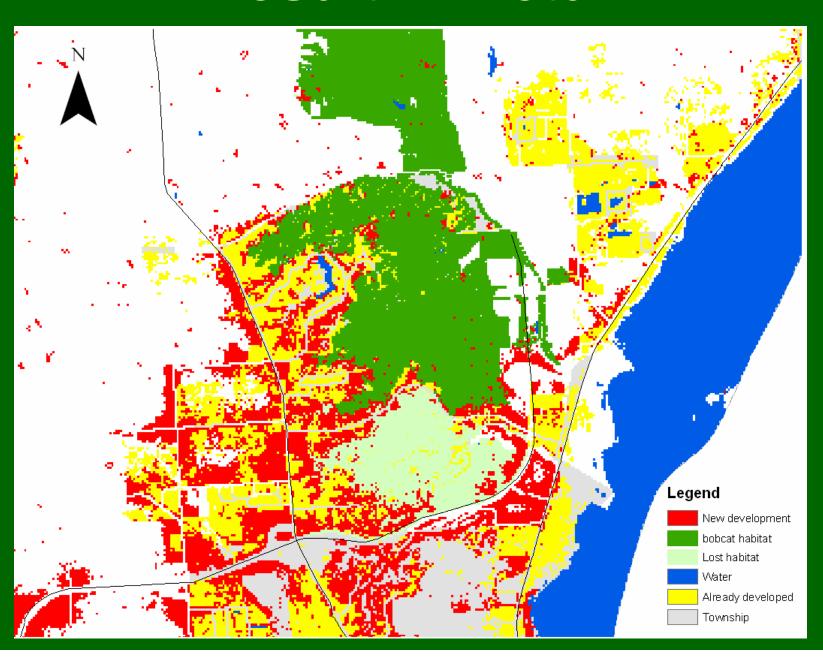
Future Habitat (FPA scenario)



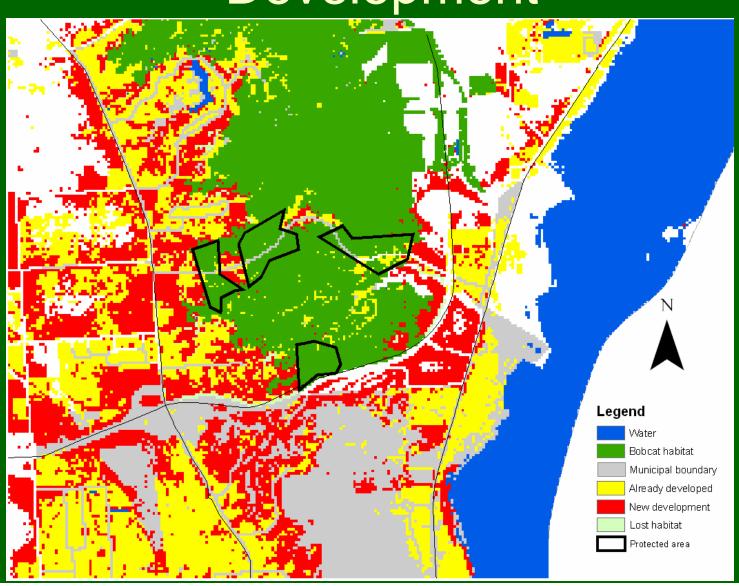




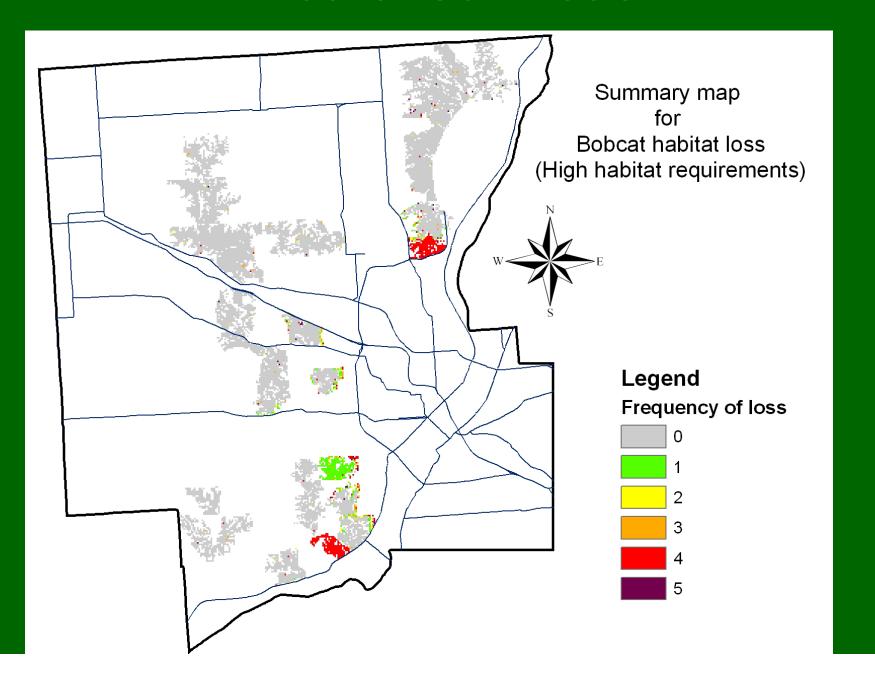


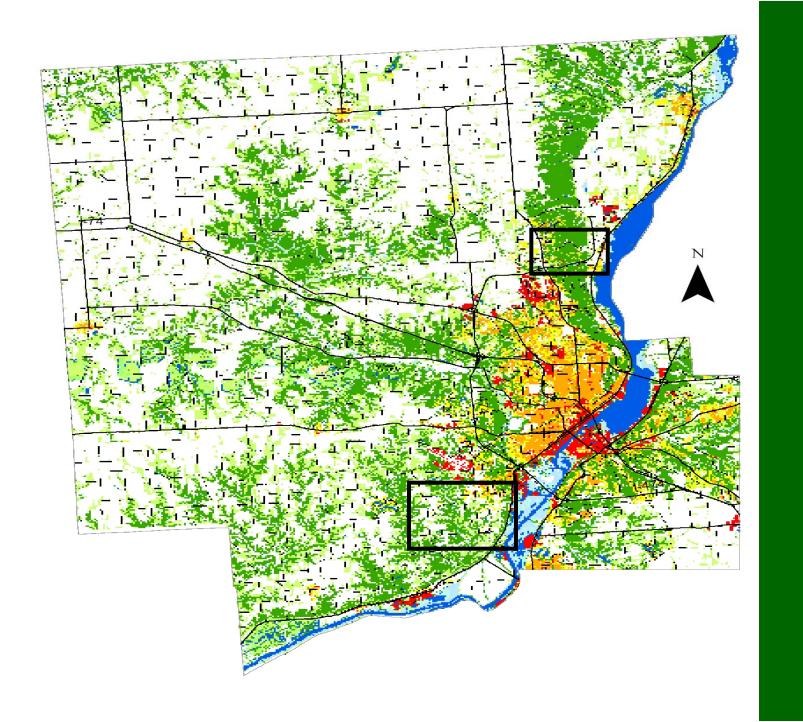


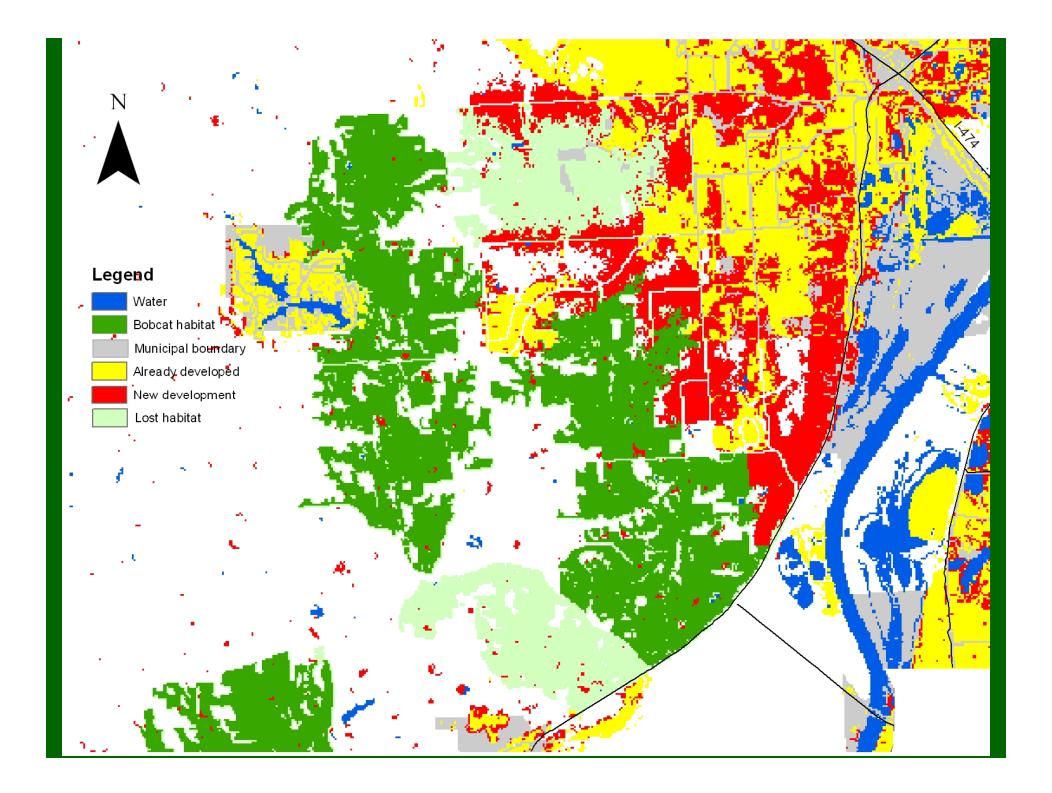
Habitat Protection-Sustainable Development



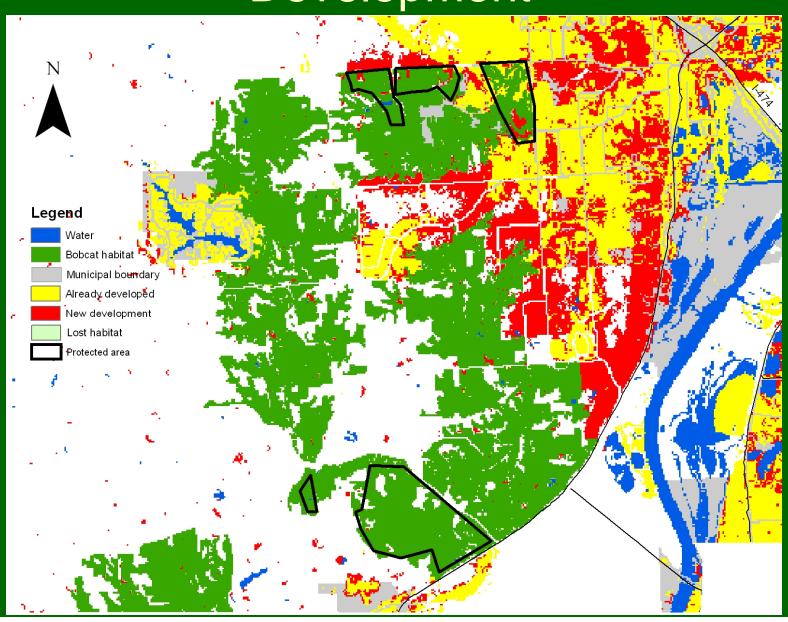
Threatened Areas







Habitat Protection/Sustainable Development



Tier Development & Stats

Tier 1:

- Area: 71,839.55 acres
- Parcels: 8,459
- Land Use: mostly R1, in addition: A1,A2, C1 & C2 (few parcels), I1, I2, R1 &RR
- Parcels with 50% of Tier 1 coverage or more:

Tiers Stats

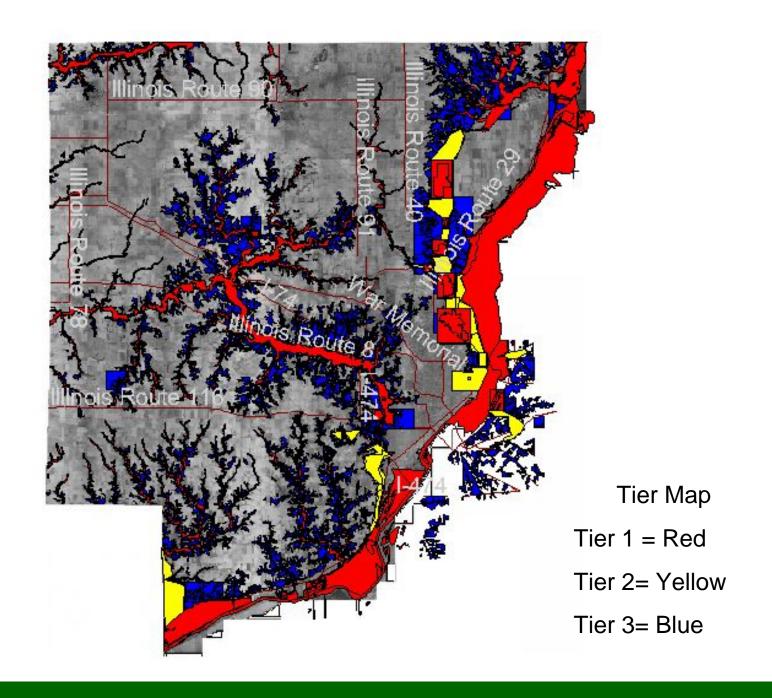
Tier 2:

- Area: 10,517.05 acres
- Parcels: 5,049
- Land Use: Mostly A2 & R2, in addition: A1, C2 (only 1 parcel), I2 (2 parcels), R1 & RR

Tiers Stats

Tier 3:

- Area: 63,413.09 acres
- Parcels: 21,566
- Land Use: the majority is A2 & R2;
 in addition to A1, R1, few parcels in C1, C2, I1, I2, RR & 17 parcels in R3



Land Categories & Initial Recommendations

• 1st Tier:

Open Space by INAI sites and on floodplain

 Remain in natural state: Conservation Easements, Land & Water Reserves, Open Space County Ordinances

• 2nd Tier:

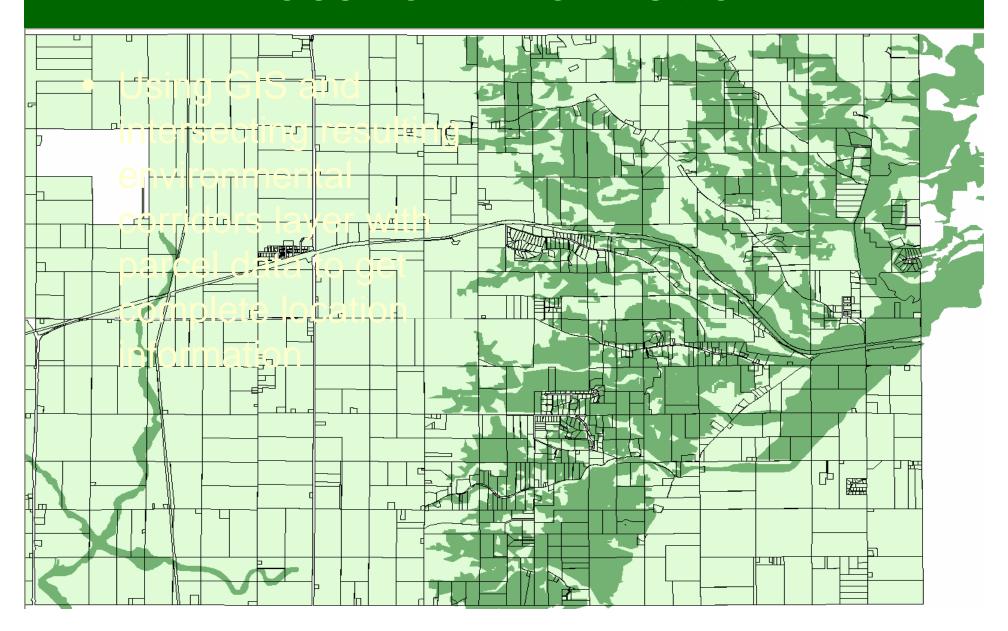
Areas linking above hubs, allowing connectivity

- Recommendations:
 - Large Lot Development
 - Conservation Development
 - Natural Drainage

Land Categories & Recommendations

- 3rd Tier:
 - Sites in environmental corridors zoned or planned for development
 - Recommendations:
 - Stormwater Detention
 - Natural Landscaping
 - Floodplain Protection
 - Topsoil Protection

Location Information



Deliverables & Next Phase

- Educational map of the Environmental Corridors + Website
 - www.tricountyrpc.org/environmental/corridor.htm
- Land Use Guidelines
- Local Legacy Plan- Corridor Expansion
- Peoria County Environmental Corridor Ordinance- Transforming Tier Recommendations into formalized ordinance