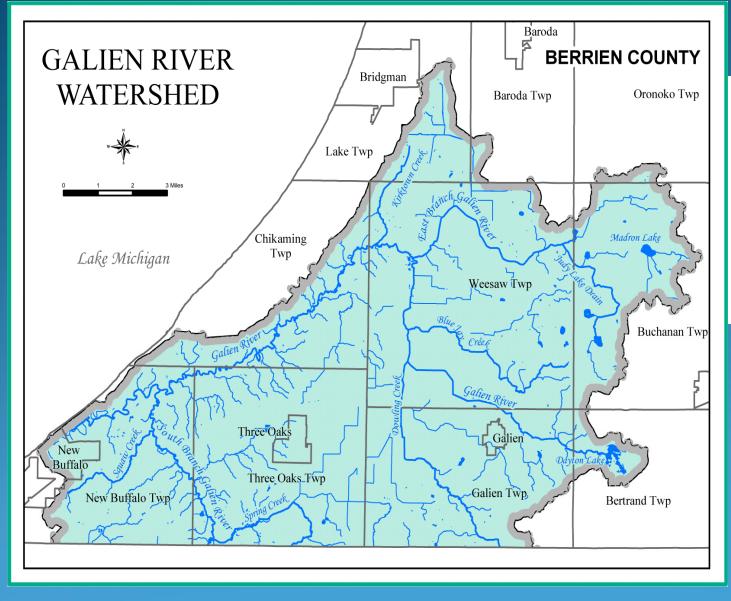
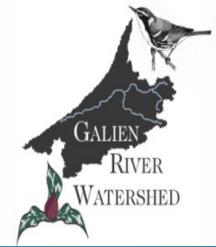
Welcome!







Workshop Overview

- 6:00 Welcome/Introductions Marcy Colclough, Southwest Michigan Planning Commission
- 6:15 **The Glorious Galien** Peg Kohring, *The Conservation Fund*
- 6:30 Overview of Mapping Exercise and Concepts Marcy Colclough
- 6:45 Mapping Exercise All
- 7:15 Report/Discuss All
- 7:30 Prioritize Areas- All
- 7:45 Land Protection/Management Options Peg Kohring
- 8:00 Rain Garden Tour Kris Martin, Southwest Michigan Planning Commission

Infrastructure?

"the substructure or underlying foundation on which the <u>continuance and growth</u> of a community depends"

Connectivity required

Management and Funding needed

Infrastructure is a necessity not an amenity

Key to Healthy People,

Watershed and Economy ECOSYSTEM SERVICES

Water Related

- Flood control
- Water cleansing
- Groundwater recharge (Drinking water)
- Èrosion control

Air Related

- Temperature moderation
- Air cleansing

Other

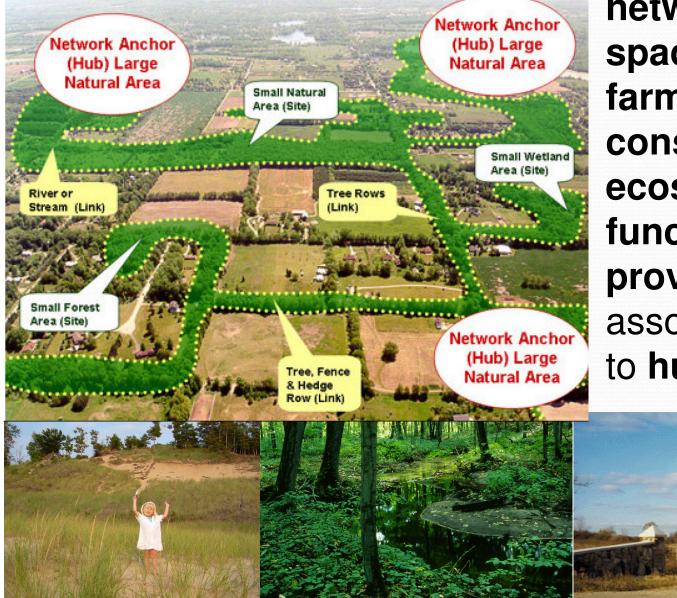
- Nutrient cycling
- Wildlife habitat
- Pollination
- Food Production







Green Infrastructure An interconnected



network of green space and farmland that conserves natural ecosystems and functions and provides associated **benefits** to humans.

Elements of Green Infrastructure

Water related features - rivers, lakes, wetlands, riparian areas, floodplains, groundwater recharge areas

Land features - forests, prairies, sand dunes, prime farmland

Recreation & Protected lands –

parks, beaches, trails



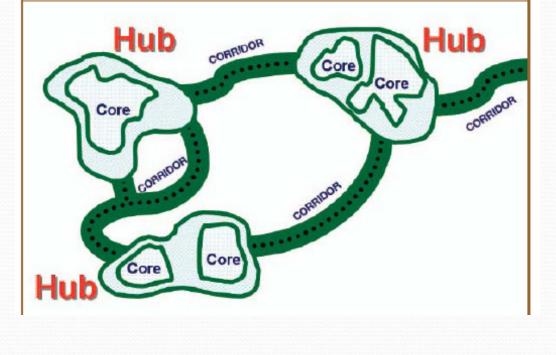


Green Infrastructure

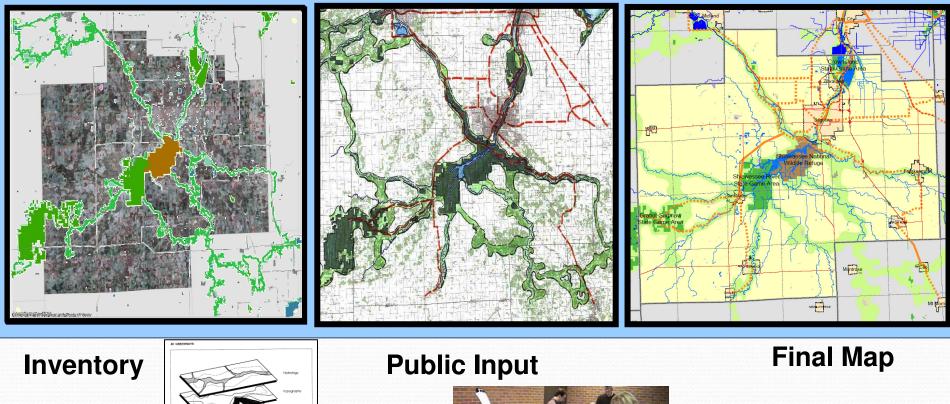
Connectivity required

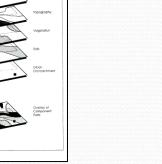
Management and
Funding needed

 Infrastructure is a necessity not an amenity Figure 3: Hubs, cores, and corridors together form the green infrastructure network of ecologically important lands.



Critical Area Map





You and Green Infrastructure

Voluntary Actions of Landowners

- Protect or restore forested or grassed **buffers** along rivers, creeks, drains
- Develop and implement management plans for forestry and agricultural activities
- Plant native species and rain gardens
- Maintain or restore wetland areas
- Implement **Agricultural Best Management Practices** (no till, cover crops, nutrient management, etc)
- Consider land protection options (conservation easements, purchase of development rights, etc.)





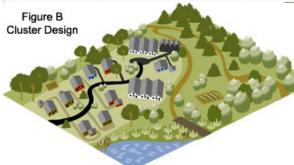
Your Community and Green Infrastructure

Where & How Land Is Developed

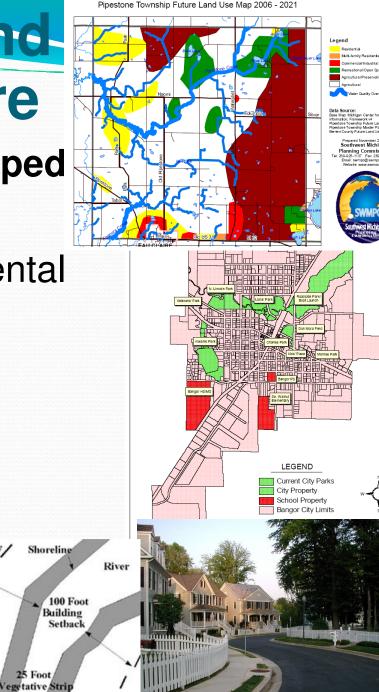
 ✓ Preserve open space, farmland and critical environmental areas

 ✓ Strengthen and direct development towards existing

 ✓ Take advantage of compact building design







Review Maps

 Base map - Major roads, municipal boundaries, streams, watershed boundary, recreation and protected areas (may not be complete), parcels

- 2.Aerial photo with Potential Conservation Areas
- **3.2000 Land Use/Cover** and **Lost Wetlands** (forested areas, built up areas, orchards/vineyards)

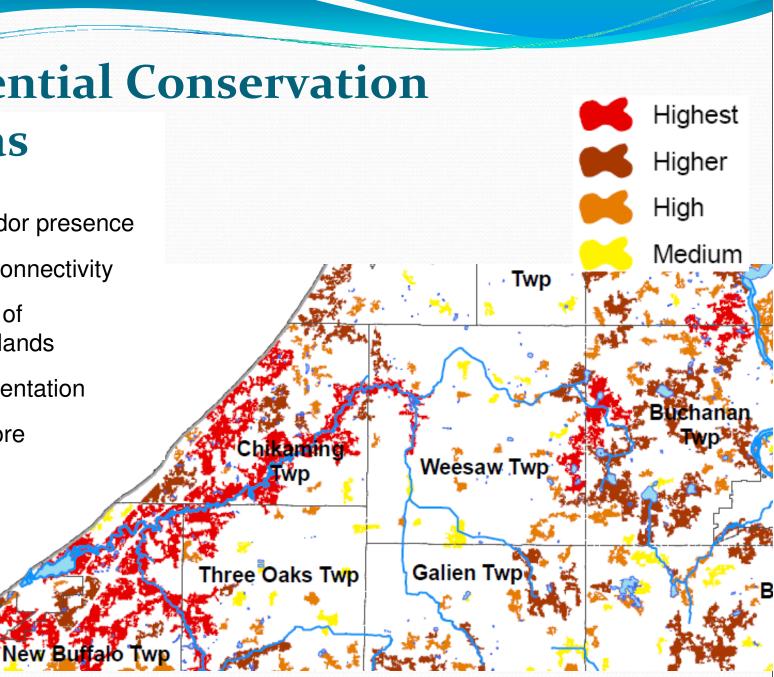
4.Prime Farmland

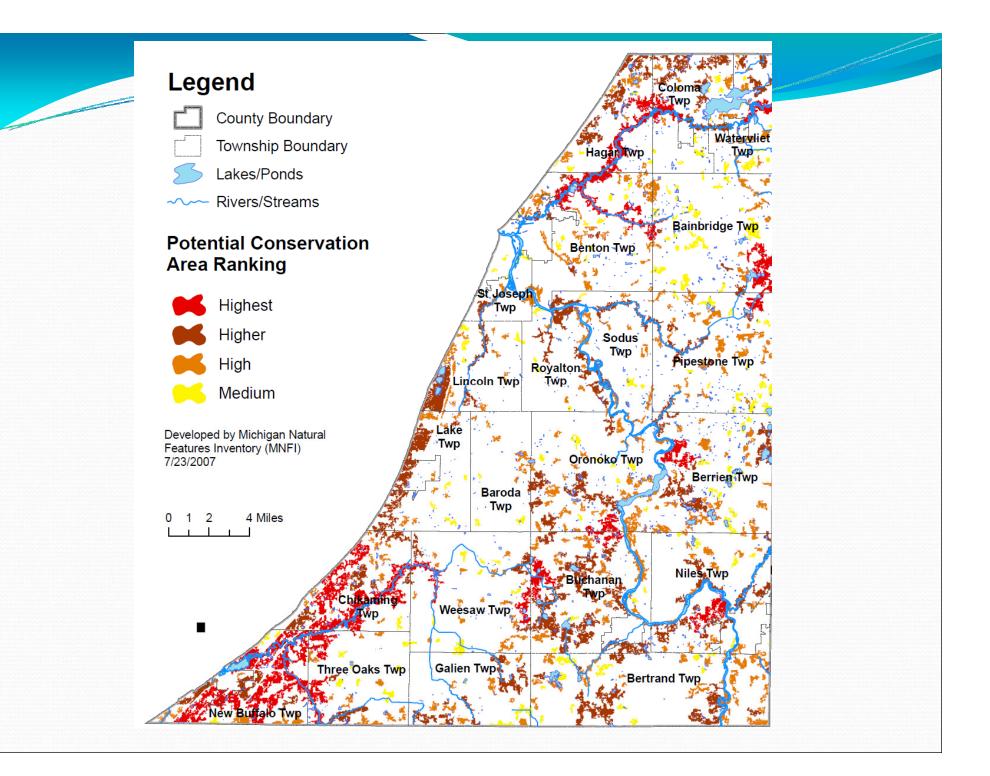
5. 6. 7. - Wetland Functions (surface water detention, sediment retention, nutrient transformation)

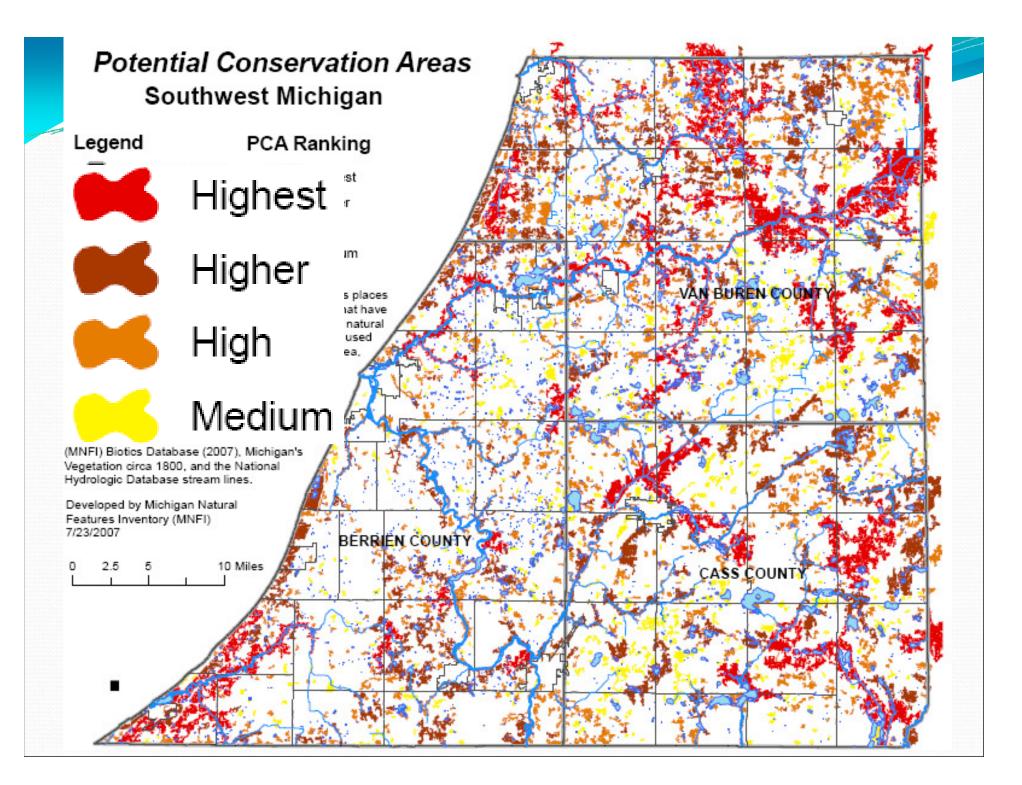
Potential Conservation

TotaAsizeas

- Core area
- Stream corridor presence
- Landscape connectivity
- Restorability of surrounding lands
- Parcel fragmentation
- Bio-rarity score







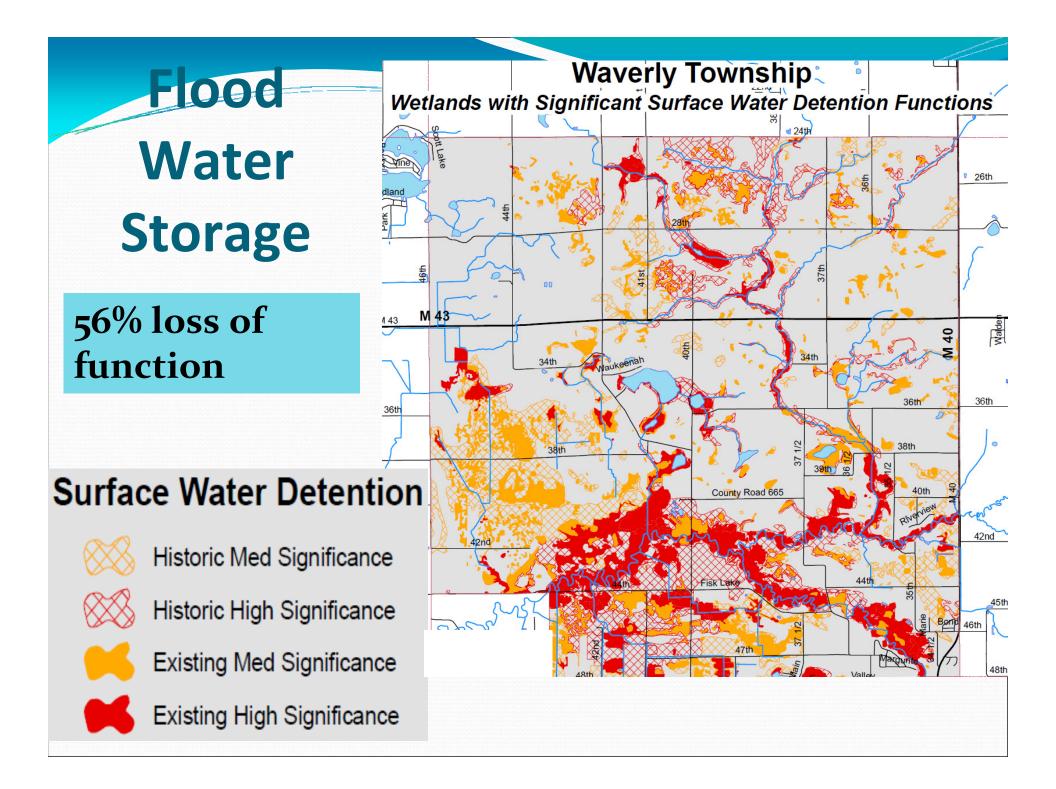
Wetlands...

 Reduce soil erosion on lake and stream banks • Filter water (sediment, nutrients, etc) Absorb water (reduce flooding) Recharge groundwater (provide drinking) water Provide habitat (fish, birds, amphibians, etc) Provide recreation opportunities (hunting, fishing, bird watching, etc)

Wetland Functions Evaluated

- Flood water storage Reduce Flooding
- Streamflow maintenance Stable Flows
- Nutrient transformation Less Vegetation
- Sediment retention Cleaner Water
- Shoreline stabilization Less Erosion
- Groundwater recharge Drinking Water
- Fish and Wildlife Habitat Fishing, Hunting





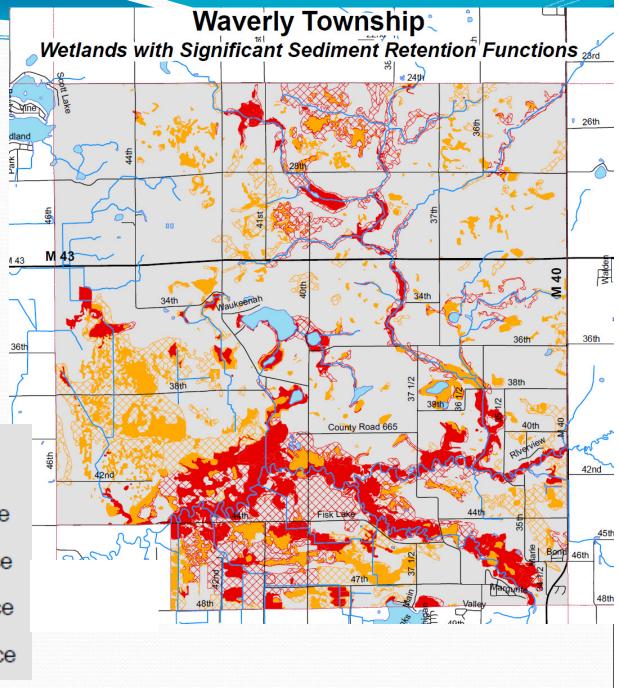
Sediment Retention

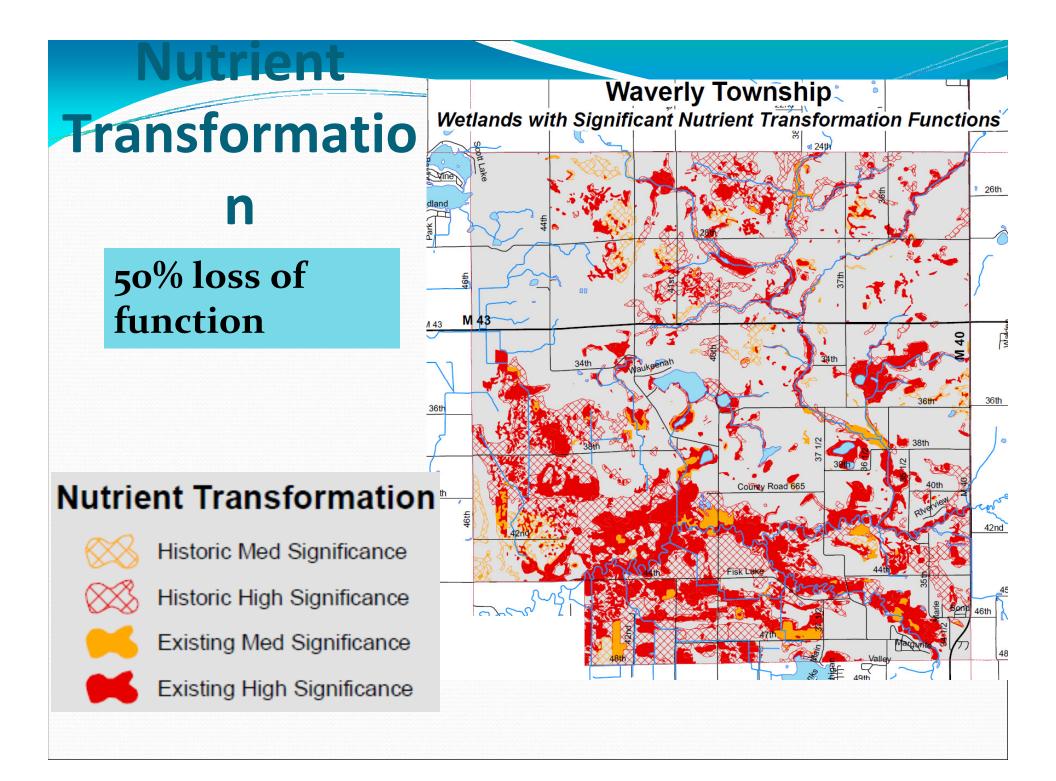
55% loss of function

Sediment Retention

- Historic Med Significance
- Historic High Significance
 - Existing Med Significance

Existing High Significance





MAPPING

• **REVIEW**

• COLOR ON THE CLEAR BASE MAP

- **GREEN** existing park/protected area
- **BLUE** important natural areas
- **PURPLE** important farmland
- **REPORT Results to Group**

• PRIORITIZE