MICHIGAN STATE UNIVERSITY

Tri-County Regional Planning: Greening Mid-Michigan Online Toolkit

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Client:
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Greening MID-MICHIGAN

MSU Urban & Regional Planning

- Role of MSU Practicum Students
  - Conduct necessary research and data collection.
  - Create an easy to use toolkit that can be used by local government officials, planners, and individuals interested in Greening Mid-Michigan.

SCHOOL OF
PLANNING, DESIGN & CONSTRUCTION

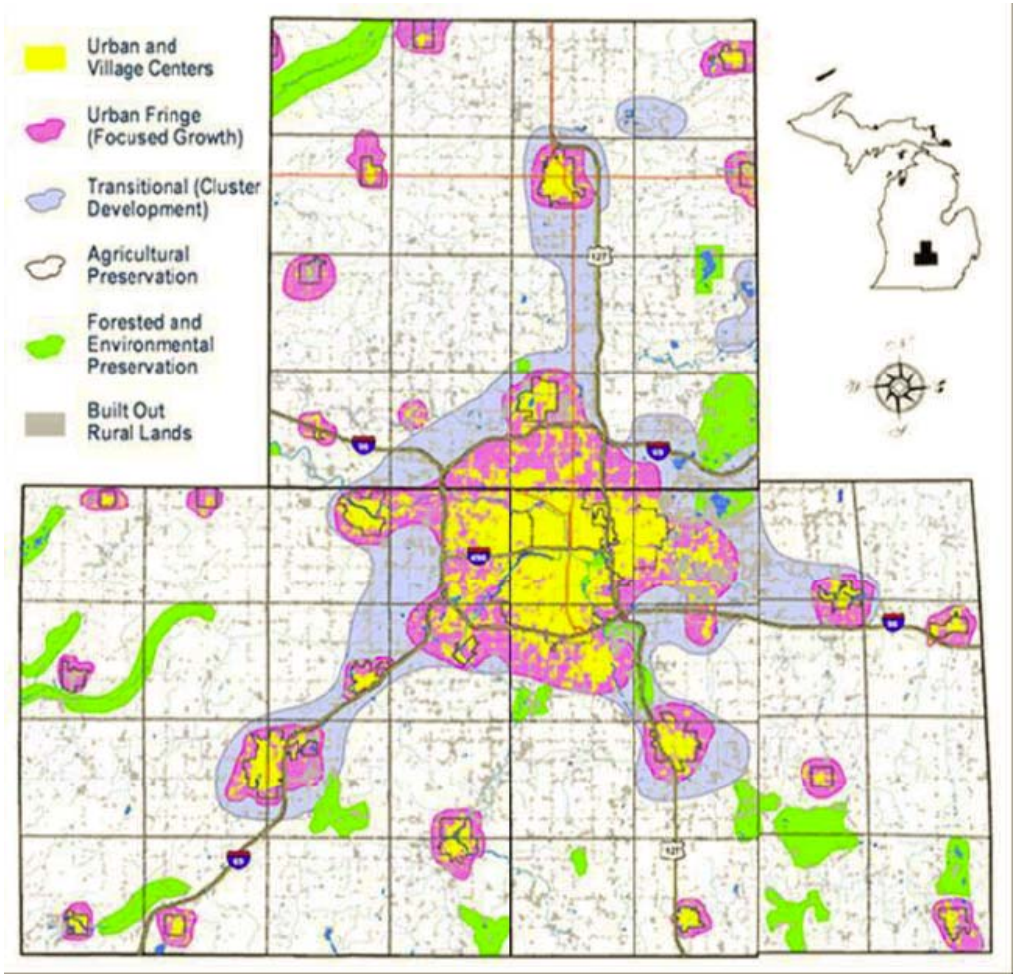
Client Information

- The Tri-County Regional Planning Commission
  - Advises Clinton, Eaton, Ingham Counties on land use policy, etc.
    - Includes 78 units of government; 50 of which have planning and zoning power
  - Coordinate plans between local units of governments by guiding growth of Tri-County into one common direction

(Tri-County Regional Planning Commission Logo)

Client Information (cont'd)

- Lead partner in Greening Mid-Michigan Vision
  - Promote green infrastructure within the Tri-County area.
  - Contracted MSU Urban & Regional Planning Practicum Students to help implement through an online toolkit.



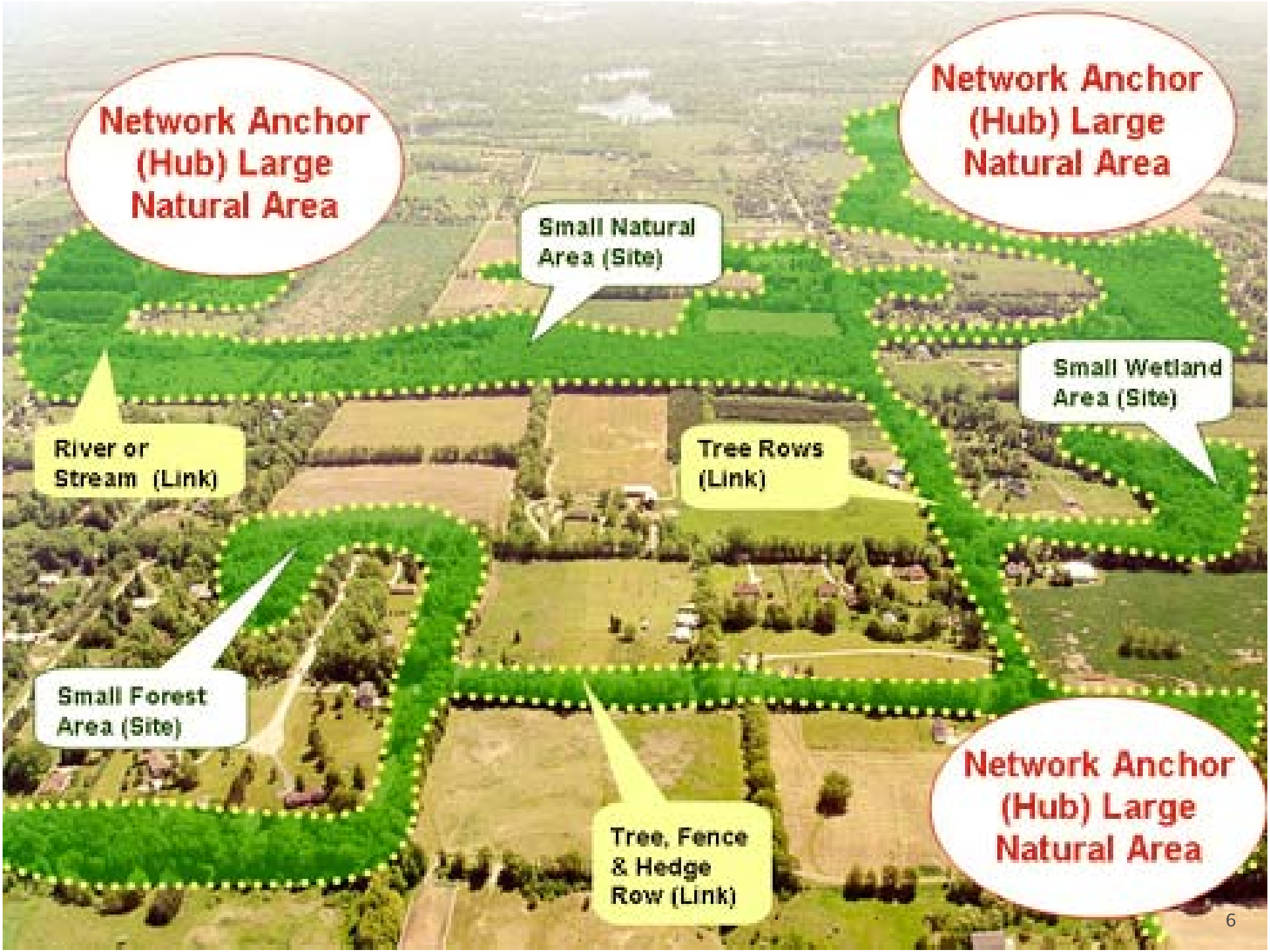
(Greening Mid-Michigan)

What is Green Infrastructure

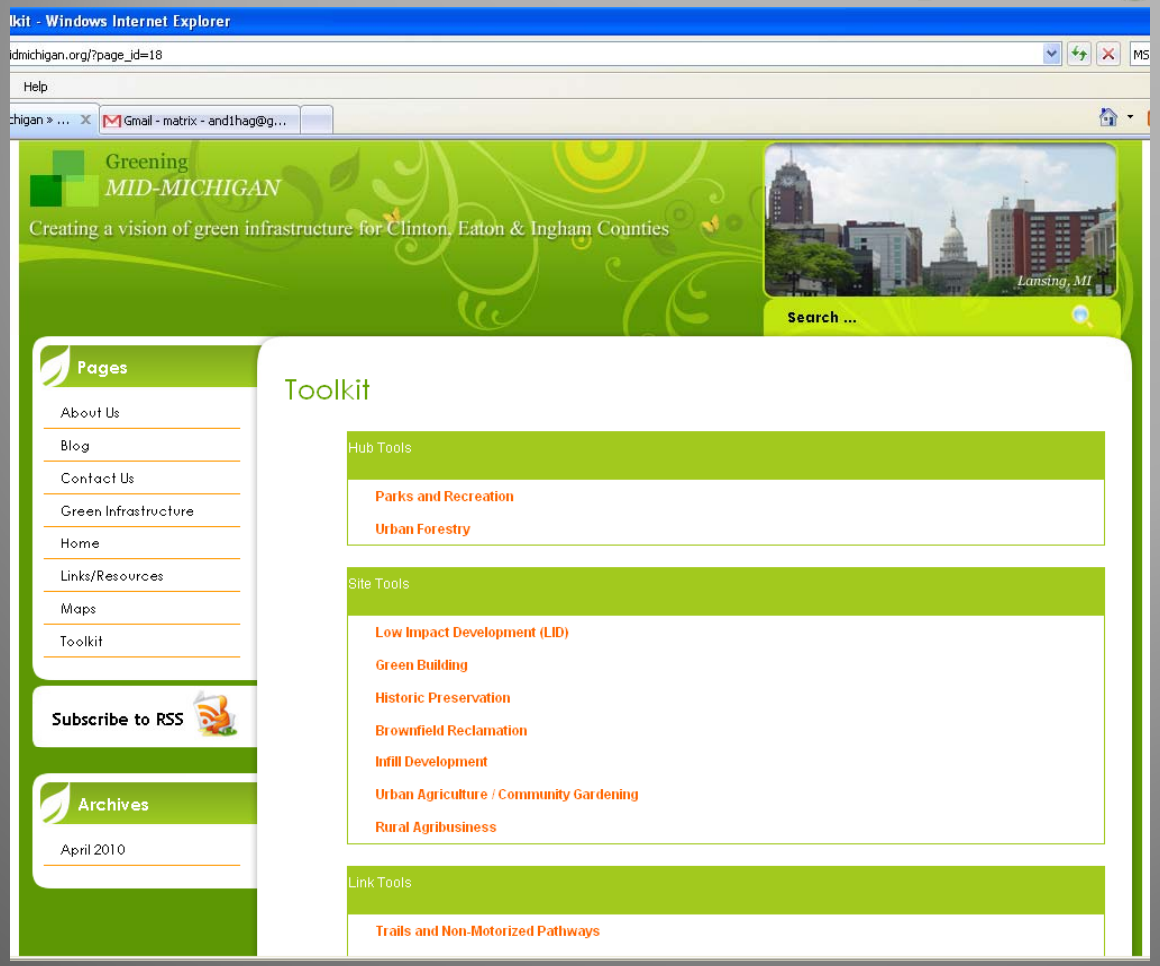
- Green Infrastructure is an interconnected network of green space and other environmental assets that conserves the functions of the natural ecosystem and provides associated benefits to people.

- Based on a system of:
  - Hubs
  - Links
  - Sites

(Greening Mid-Michigan)


Network Anchor (Hub) Large Natural Area
Network Anchor (Hub) Large Natural Area
Small Natural Area (Site)
Small Wetland Area (Site)
River or Stream (Link)
Tree Rows (Link)
Small Forest Area (Site)
Tree, Fence & Hedge Row (Link)
Network Anchor (Hub) Large Natural Area

A New Online Green Infrastructure Toolkit for the Tri-County Region



www.greenmidmichigan.org

List of Tools

- Hub Tools
  - Parks and Recreation
  - Urban Forestry
- Site Tools
  - Low Impact Development (LID)
  - Green Building
  - Historic Preservation
  - Brownfield Reclamation
  - Infill Development
  - Urban Agriculture/Community Gardening
  - Rural Agribusiness
- Link Tools
  - **Trails and Non-Motorized Pathways**
  - Wildlife Corridors
- Management Tools
  - Purchase of Development Rights (PDR)
  - Transfer of Development Rights (TDR)
  - Watershed Planning
  - Conservation Easements
  - Health Impact Assessment Plan
- Public Input Tool
  - Volunteer Stewardship

Tool Matrix

	TOOLS	SETTING			PLANNING			INCENTIVES				IMPLEMENTATION COST			MAINTENANCE		
		RURAL	SUBURBAN	URBAN	MASTER PLAN	ZONING	PUBLIC PARTICIPATION	FEDERAL	STATE	LOCAL	PRIVATE / NON-PROFIT	HIGH	MEDIUM	LOW	HIGH	MEDIUM	LOW
HUBS	PARKS & RECREATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	URBAN FORESTRY			X	X	X	X	X	X	X	X	X	X	X	X	X	X
SITES	LOW IMPACT DEVELOPMENT (LID)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	GREEN BUILDING	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
	HISTORIC DISTRICTS	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
LINKS	TRAILS AND NON-MOTORIZED PATHWAYS	X	X	X	X	X	X	X	X	X	X		X	X		X	X
	WILDLIFE CORRIDORS	X	X		X		X	X	X	X	X		X	X			X
MANAGEMENT	PURCHASE OF DEVELOPMENT RIGHTS (PDR)	X	X		X	X			X	X				X			X
	TRANSFER OF DEVELOPMENT RIGHTS (TDR)	X	X	X	X	X			X	X	X			X			X
	WATERSHED PLANNING	X	X	X	X		X	X	X	X	X		X	X		X	X
	CONSERVATION EASEMENTS	X	X	X	X	X	X		X	X	X	X	X	X			X
	BROWNFIELD RECLAMATION	X	X	X	X		X	X	X	X	X	X	X	X			X
	INFILL DEVELOPMENT		X	X	X	X	X		X	X				X			X
	URBAN AGRICULTURE / COMMUNITY GARDENING		X	X	X		X		X	X	X		X	X		X	X
	RURAL AGRIBUSINESS	X			X		X	X	X	X	X			X			X
	HEALTH IMPACT ASSESSMENT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PUBLIC INPUT	VOLUNTARY STEWARDSHIP	X	X	X			X	X	X	X	X			X			X

Tool Matrix

	TOOLS	SETTING			PLANNING		
		RURAL	SUBURBAN	URBAN	MASTER PLAN	ZONING	PUBLIC PARTICIPATION
HUBS	PARKS & RECREATION	X	X	X	X	X	X
	URBAN FORESTRY			X	X	X	X
SITES	LOW IMPACT DEVELOPMENT (LID)	X	X	X	X	X	X
	GREEN BUILDING	X	X	X	X		X
	HISTORIC DISTRICTS	X	X	X	X	X	X
LINKS	TRAILS AND NON-MOTORIZED PATHWAYS	X	X	X	X	X	X
	WILDLIFE CORRIDORS	X	X		X		X

Format of Tools

- Background
- Methods of Implementation
- Funding
- Sample Ordinance Language/ Regulatory Considerations
- Case Studies
- Discussion

Link Tools

- Trails and Non-Motorized Pathways

(Northern Tier Trail – City of East Lansing, MI)

Trails and Non-Motorized Pathways

Background:

- Major links connecting hubs and sites
- Various Types

Rails-to-Trails

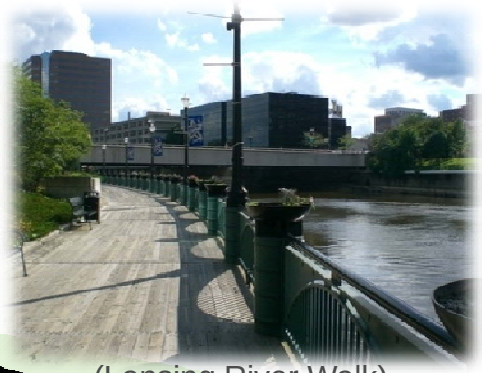
(Abandoned Railroad Tracks)

(Clinton-Ionia-Shiawassee Trail, MTGA)

Bike Lanes / Paved Shoulders

MSU Campus Bike Lane

Boardwalk



(Lansing River Walk)

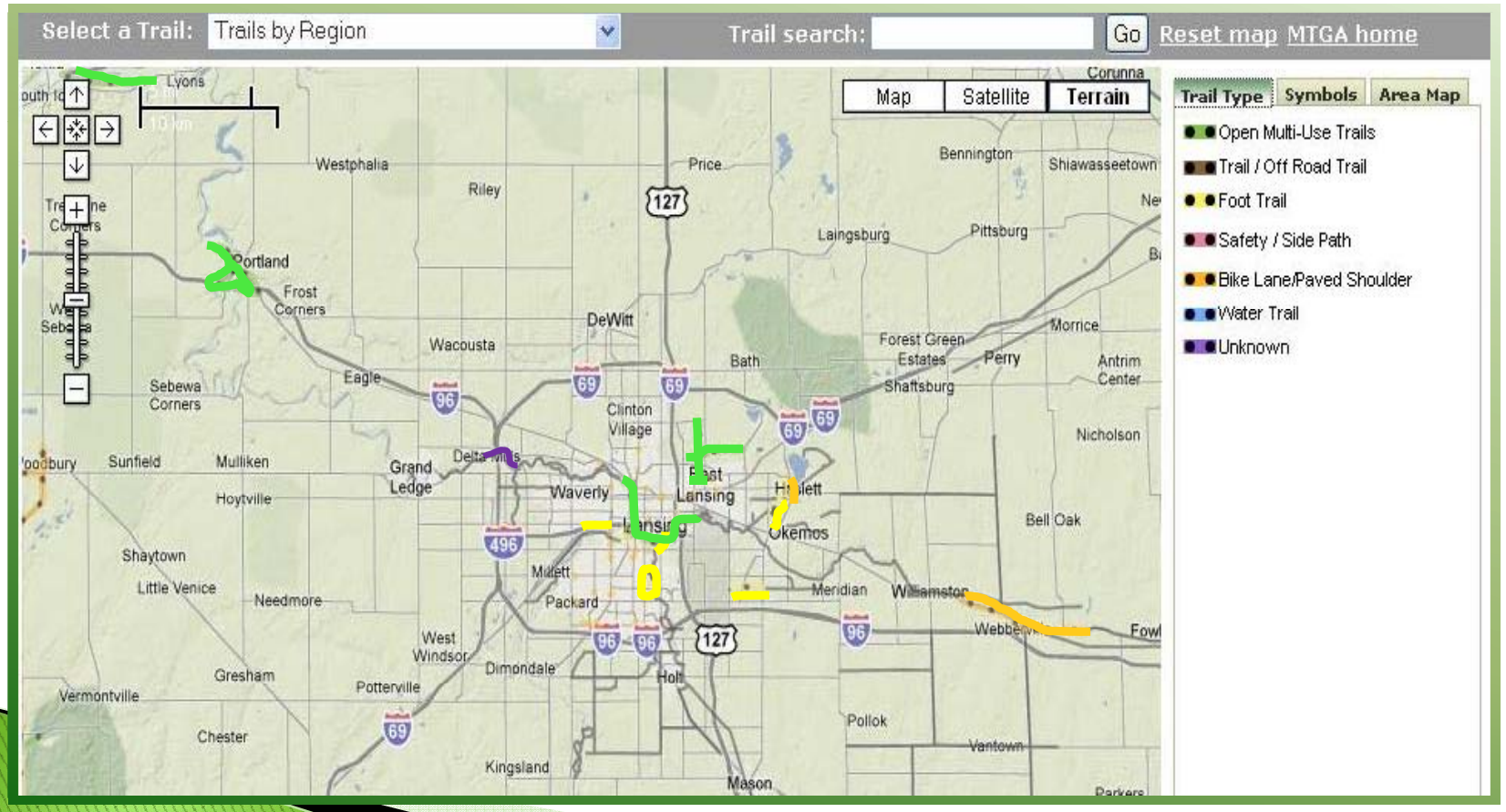
Others:

- *River Trails*
- *Water Routes*
- *Safe-Route-to-School Program*

Trails and Non-motorized pathways

Background:

Local Trail "Scene"



Trails and Non-motorized pathways

Methods of Implementation:

- Identify Resources
  - Green Mid-Michigan
  - Michigan Trails and Greenway Alliance
- Master Plan
  - Community
  - Individual
    - Multiple Jurisdictions