



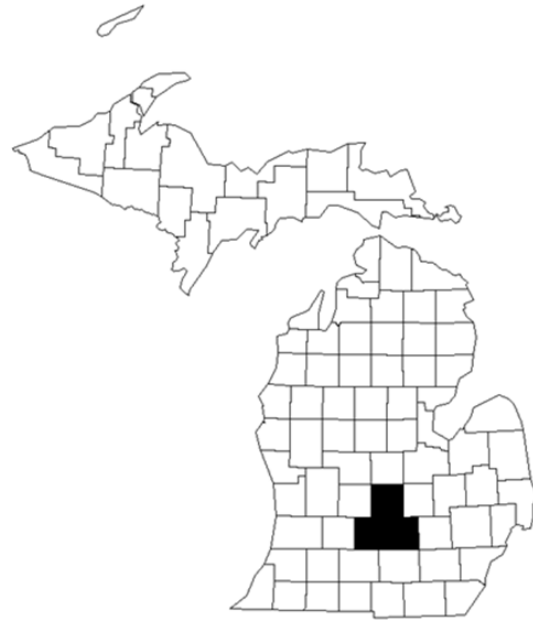
# Michigan ByProduct Synergy

Christine V. Spitzley, AICP  
Tri-County Regional  
Planning Commission

---

# Tri-County Regional Planning Commission –Est. 1956

- Lansing
- Clinton, Eaton, and Ingham Counties
- Pop. 450,000
- Programming
  - Transportation
  - Economic Development
  - Data
  - Environment
  - Land Use



# Christine V. Spitzley, AICP

- B.S. Urban and Regional Planning
- 25 years
  - Economic Development
  - Transportation
  - Land Use
  - Air Quality
  - Fair Housing
  - Water

# ByProduct Synergy

- Take what is traditionally considered “waste” and repurpose it as an input.
- Reduce disposal costs
- Reduce raw material costs
- Protect the environment
- Save natural resources
- Save money, increase financial viability

# EHarmony

- Market to entities with wants/needs
- Provide a forum for exchange of information  
(Create a profile. Change at will.)
- Allow for private development of relationships  
(Go on as many dates as you wish)
- Legal concerns are between involved entities  
(Marriage)
- Dissolution of relationships also private  
(Divorce)

[BPS Chart](#)

# Our Vision of a Successful BPS

- Participants will represent diverse entities
- Will be accessible to businesses, nonprofits and communities
- Will be sustainable

So.....

How is ByProduct Synergy  
different from the traditional  
“Waste Exchange Program” ?

# ByProduct Synergy

- “Old School” Waste Exchange
- *Transformation* of waste to new input or product
- Social Applications
- Environmental Metrics
- Sustainability



# “Old School” Waste Exchange

- Still has value
  - Experienced participants
  - Wisdom from successes and challenges
  - Case studies

# Transformation of Waste

- Thinking about waste in new ways
- Expert “think tanks” to consider alternatives
- Redefine “reuse”
  - Ex. Tires

# Social Applications

- Goodwill/Peckham:
  - Jobs
  - Training
  - Goods
- Environmental Justice
  - Landfill space
  - Raw materials
  - Pollution

# Environmental Metrics to Quantify Benefits Realized

- Landfill Diversion
- CO2 Reduction
- Energy Savings
- Hazardous Waste Reduction
- Water Use Reduction
- Reduction in Virgin Material Use

# Sustainability

- Low cost
- Diverse
- Evolving
- Open forum
- Dissemination

# Statewide Interest/Support

- Flint Area Reinvestment Office
- Suppliers Partnership for the Environment
- MDEQ—Lansing, Grand Rapids, Detroit

# Sample of Those Interested in “Next Steps”

- GMB Communities
- Working Bugs
- Demmer
- LBWL
- Ford
- Chrysler
- Proctor and Gamble
- Dow
- Goodwill
- GM
- Goodyear
- The Polar Companies
- CMS Energy
- Gage Products
- Aevitas
- Mott Foundation
- Detroit Dirt



● Houghton

● Marquette

● Sault Ste Marie

● Ironwood

● Mackinac Island

● Escanaba

● Alpena

● Traverse City

● Ludington

● Muskegon

● Bay City

● Grand Rapids

● Lansing

● Port Huron

● Holland

● Flint

● Kalamazoo

● Ann Arbor

● Detroit

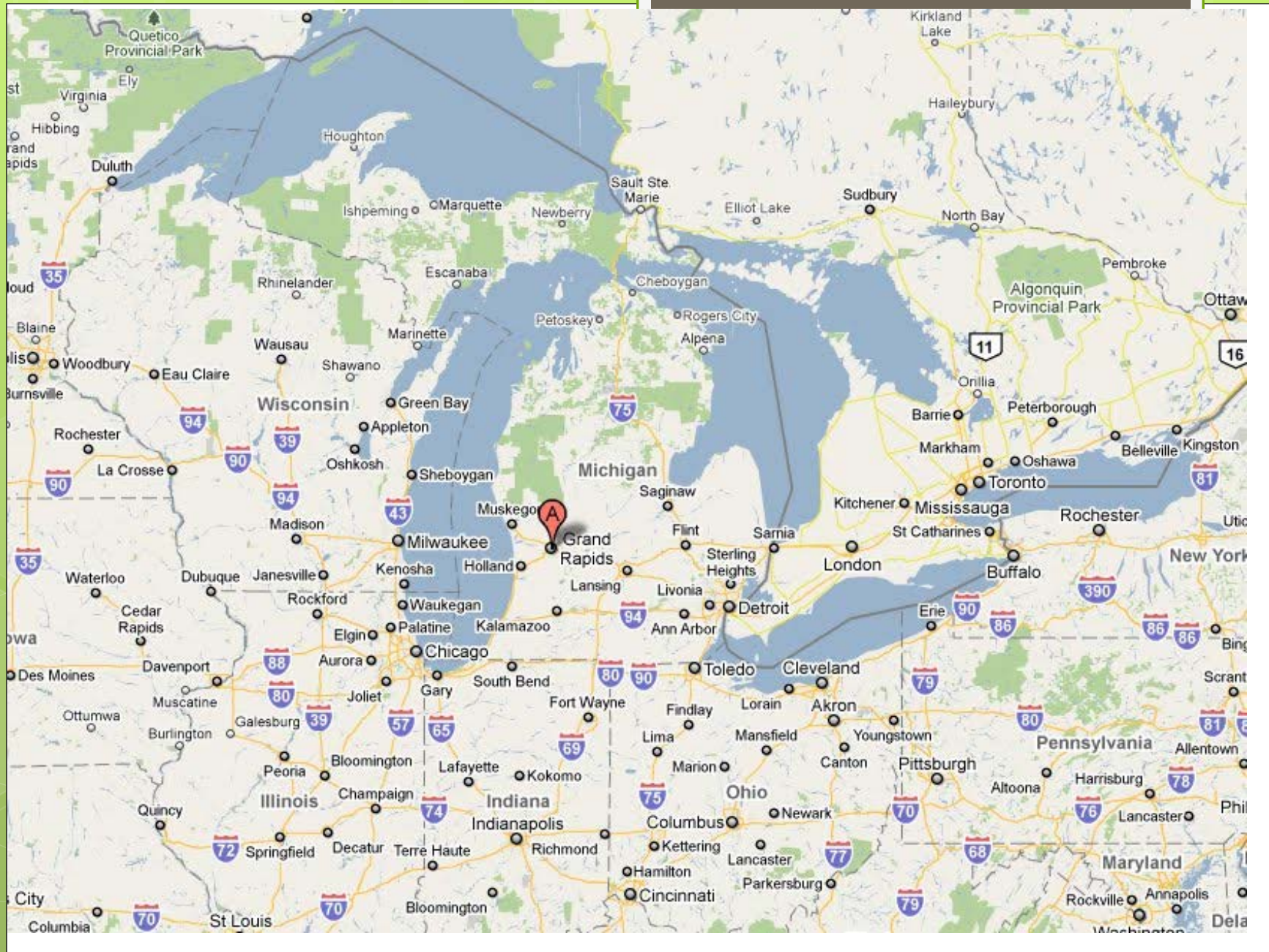


# Transportation Network



# Mid-West BPS Projects





# Impetus for TCRPC's Involvement

- Graciously defined as an:  
*"Unexpected Opportunity"*
- TCRPC seen as logical entity.
- Creating networks of sustainable programs is what we do.

# Impetus for TCRPC's Involvement

- TCRPC's Groundwater Management Board's (GMB) goal is to protect water.
- Identified support of businesses and other local entities in becoming more "green" as a means to achieve this goal
- Recognized:
  - It needed to be financially viable
  - Driven by users
  - Sustainable

# Michigan ByProduct Synergy

- February 2012
- 3 year grant \$60,000 from EPA via MDEQ
- 50% match GMB
- Goal to create a Michigan BPS Network

# New BPS Funding for 2013

- \$20K Wellhead Protection Grant –  
Delta Charter Township
- \$35K Wellhead Protection Grant –  
Lansing Board Water and Light
- Both will focus on working with businesses to provide them resources to improve their practices and reduce their risk to water resources.

# MDEQ Please Meet MDEQ

- Two completely different programs
- Supporting same end goal
- Leveraging program dollars and resources

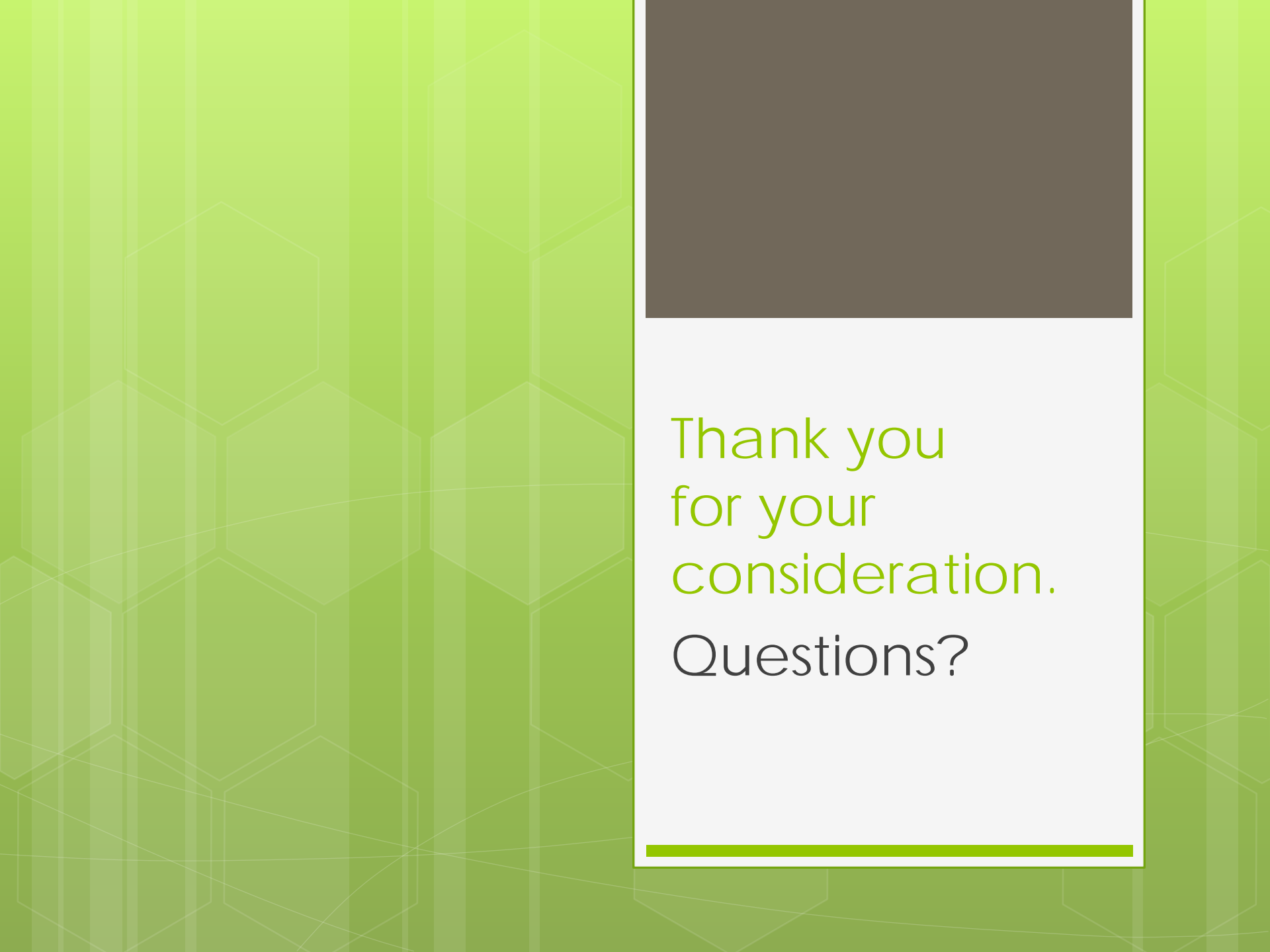


# Ultimate BPS Goals

- Create Michigan BPS database
- Continually review potential synergies between participants in Michigan
- Continue to grow and shape BPS
- Disseminate process and outcomes

# Challenges

- Shaping the framework without starting from scratch
- Legal
- Promotions and Marketing
- Dissemination



Thank you  
for your  
consideration.  
Questions?