

Transportation in RPI Region 8

Regional Conditions & Projected
Initiatives

Tasks & Timeline: 2017 Highlighted Goal

Task	January	February	March	April	May	June	July	August	September	October	November	December
Build the partnership cross section that is essential to understanding the existing and projected work being done throughout the region on the identified 2017 highlighted goal				■	■	■						
Revisit the asset inventory that RPI has performed to initially establish the goal				■								
Discuss and inventory the existing and projected work				■								
Define the best ways for RPI to assist its partners					■							
Formally endorse or deputize the work performed by the partners involved in the work that aligns with the goal and the RPI process					■	■						

Tasks & Timeline: 2017 Highlighted Goal

Task	January	February	March	April	May	June	July	August	September	October	November	December
Map out the route to accomplish the 2017 highlighted goal(s)							■	■	■			
Identify the gaps in the existing and projected work being done by partners in the region							■					
Fund the closure of the identified gaps							■	■	■			
Develop project scope(s) in collaboration with regional partners that respond to the gap(s)							■	■				
Produce RFP(s) to solicit proposals to fill gap(s)								■	■			
Receive proposals, analyze/assess proposals									■	■		

Tasks & Timeline: Communication Platform

Task	January	February	March	April	May	June	July	August	September	October	November	December
Communication Plan					■	■			■			
Assign designated manager (possibly an intern)									■			
Develop RPI brand (based on Strategy Statement, Mission, and Vision)									■			
Assist in the creation of the RPI identity									■			

Transportation Modes Covered

- ▶ Freight
- ▶ Ride Hailing
- ▶ Public/Private Partnerships
- ▶ Industry
- ▶ Public Transportation
- ▶ Autonomous Vehicles
- ▶ Rail

Freight - MDOT's Michigan Freight Plan

Truck Traffic

▶ Projected to:

- increase by 8% by 2020 (from 2015)
- Increase by a total of over 20% by 2030 (from 2015)

Waterborne Marine

▶ Projected to:

- increase by 4% by 2020 (from 2015)

Freight - MDOT's Michigan Freight Plan

Rail Traffic

- ▶ Projected to:
 - increase by 8% by 2020 (from 2015)
 - Increase by a total of over 20% by 2030 (from 2015)

General Trends

- ▶ Highway congestion will intensify
- ▶ More efficient truck configurations = Productivity gains
- ▶ Greater truck weights, more axles

Freight - MDOT's Michigan Freight Plan

General Trends

- ▶ Rail intermodal traffic will grow in major corridors
- ▶ Mergers of Eastern & Western roads = more Michigan intermodal traffic shifts to rail
- ▶ High fuel costs + driver shortages = larger deliveries, more emergency stock on hand

Ride Hailing Business Model - Uber/Lyft

Uber

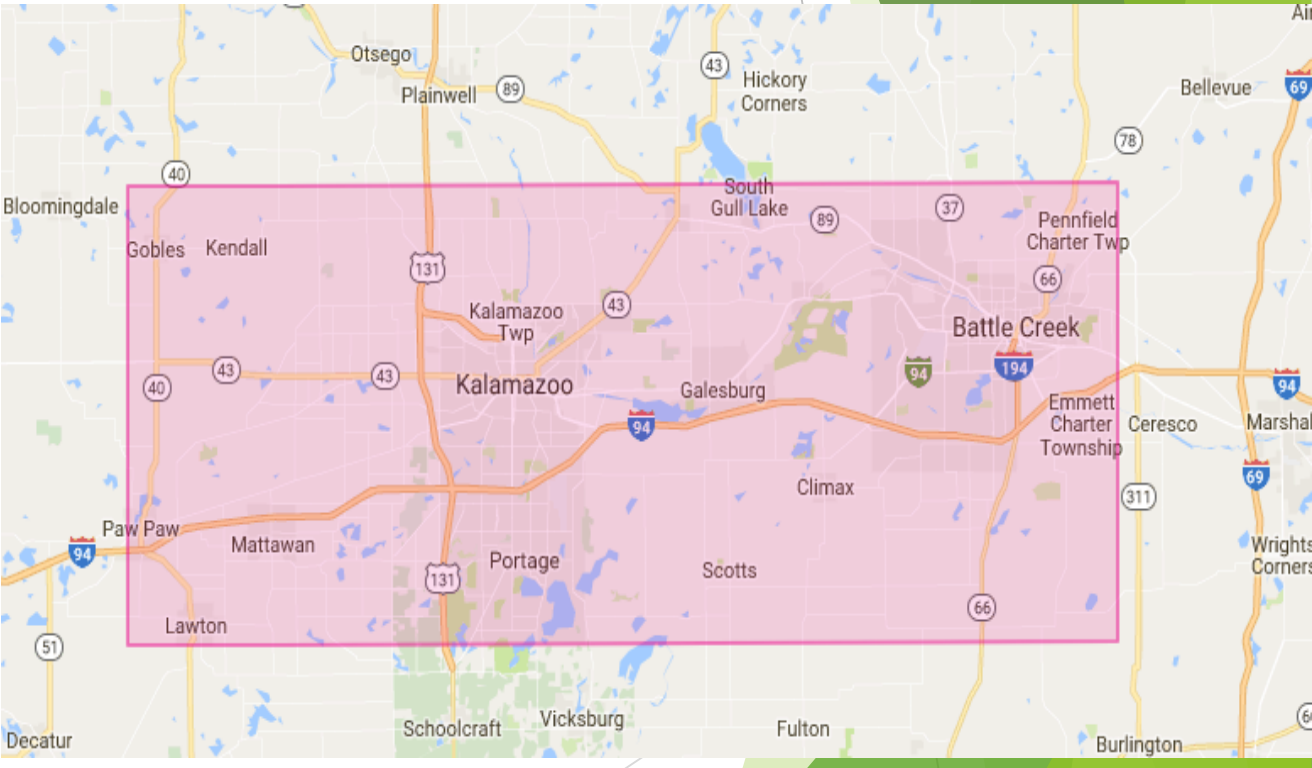
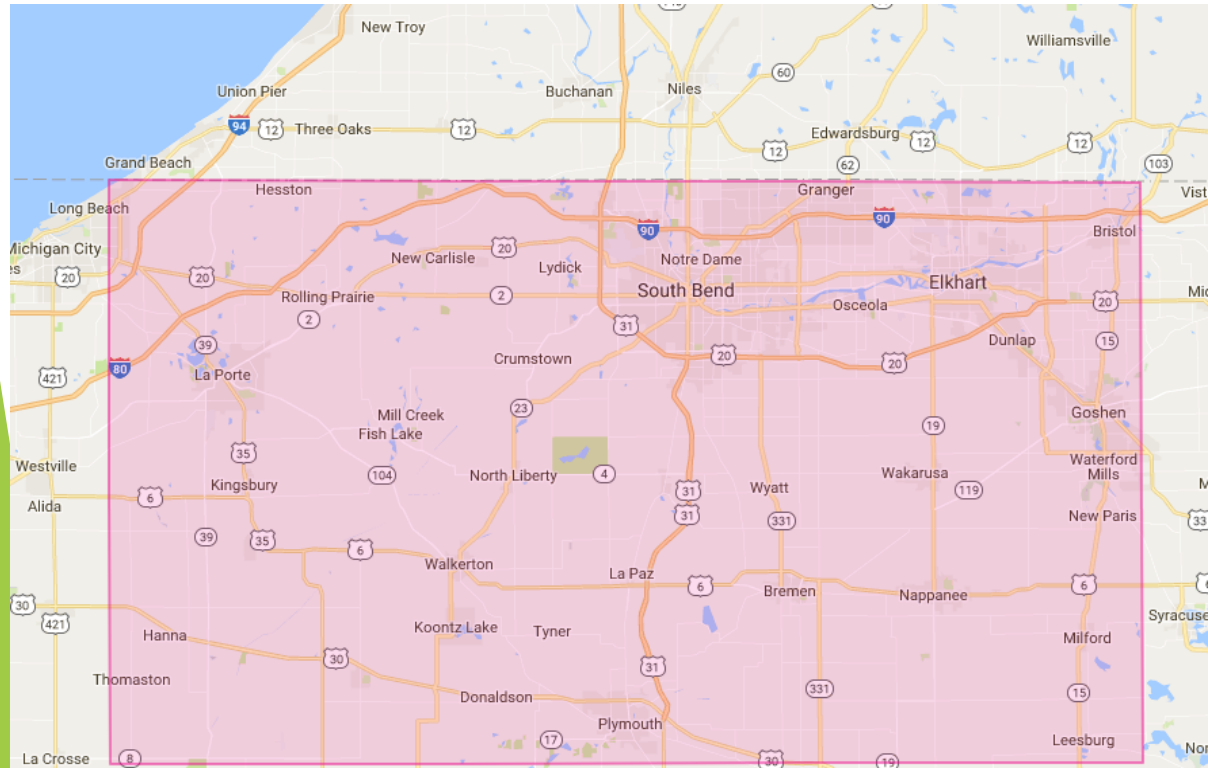
- ▶ Just entering the market in Region 8
- ▶ Model focused primarily on urban areas
- ▶ Service area in southern, southwest MI restricted to drivers
 - Riders cannot originate a trip

Lyft

- ▶ Model targets urban areas
- ▶ Also includes less dense rural areas

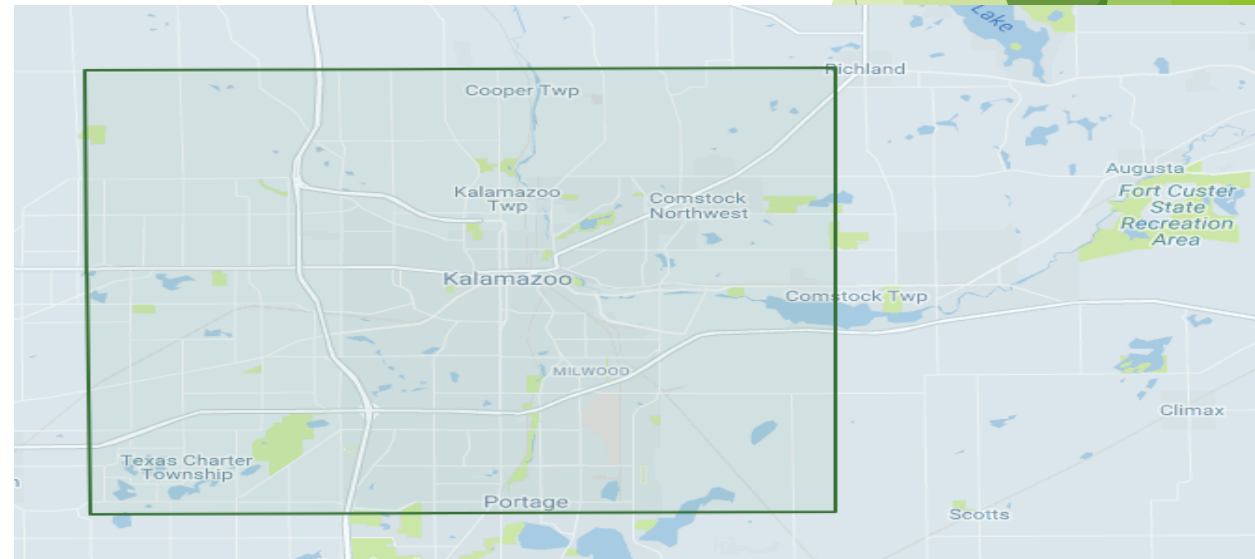
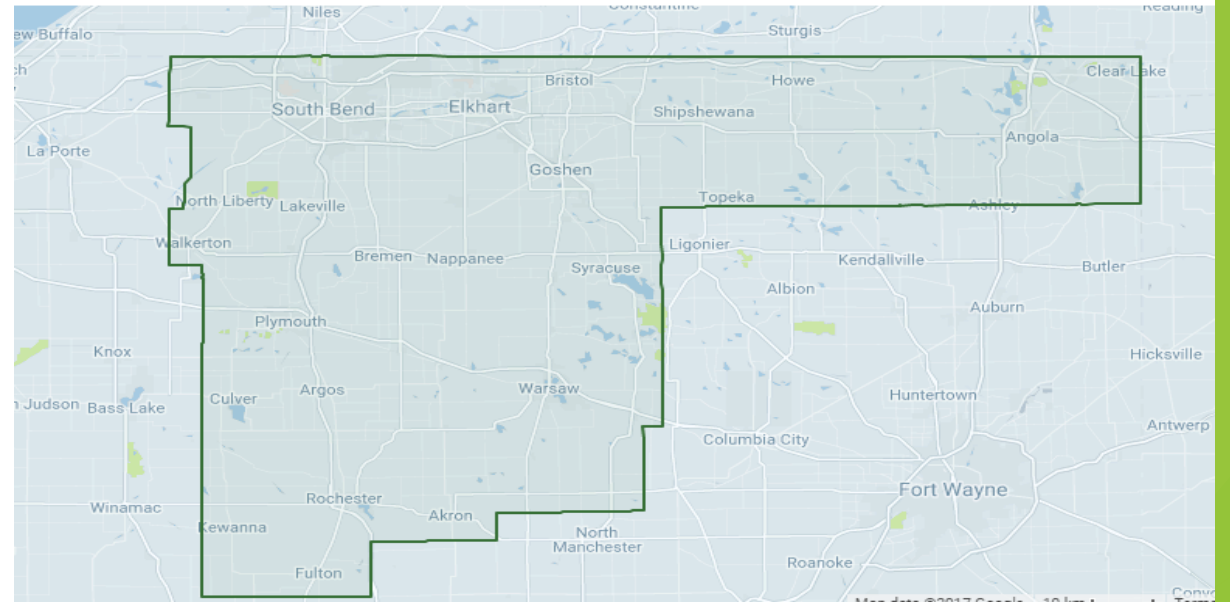
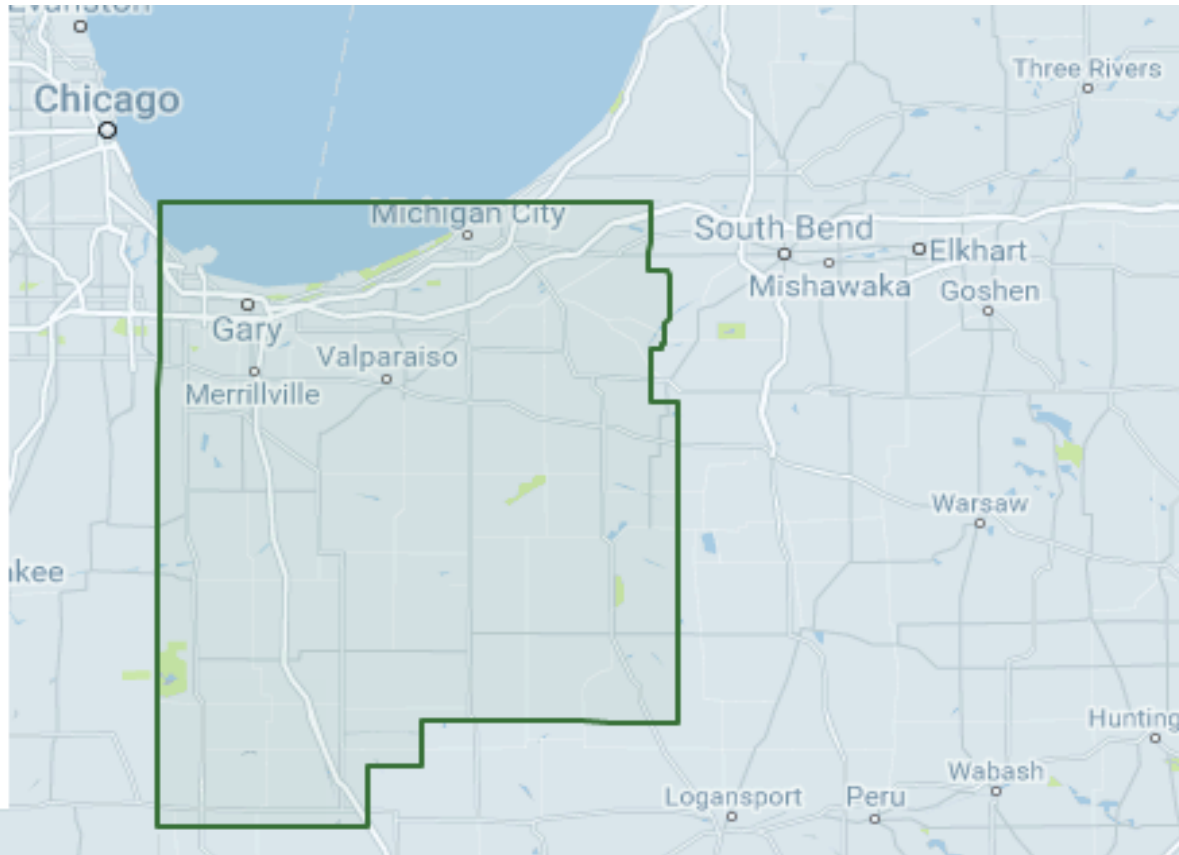
Ride Hailing Business Model - Uber/Lyft

Lyft



Ride Hailing Business Model - Uber/Lyft

Uber



Public Transportation

MDOT Office of Passenger Transportation

- ▶ Studying the ability of providers to cross jurisdictional boundaries
- ▶ Statewide study to identify gaps in service areas
- ▶ Two counties studying provision of transit relative to need & assets available
 - Calhoun County
 - Berrien County

Public Transportation

Calhoun County

- ▶ Understand best option for a county-wide system
- ▶ What would be the cost?
- ▶ How would it be governed and managed?
- ▶ How would Battle Creek Transit fold into the county-wide system?
- ▶ Currently services are provided by:
 - City of Marshall
 - City of Battle Creek

Public Transportation

Berrien County

- ▶ Studying consolidation of four systems into a single county-wide authority
- ▶ How exactly would services be provided in the new model?
- ▶ How can transit more seamlessly blend with other modes
 - Non-motorized, rail, ride hailing services, senior transport, etc...

Public Transportation

Kalamazoo

- ▶ Kalamazoo Area Transportation Study (KATS) KATS Moves Plan
- ▶ Find locations for new pedestrian, bicycle, & greenway facilities
- ▶ Identify connections between new & existing non-motorized facilities and the Kalamazoo Metro Transit (Kmetro) network

Public/Private Partnerships

Hope Network, Wheels to Work

- ▶ Focused on connecting workers to jobs
- ▶ Nominal fee for transportation to & from employers
- ▶ Employer & employee share cost
- ▶ Employee portion deducted from paycheck
 - Some employers will pay entire fee until the first paycheck received
- ▶ Hope bills employers for their total usage

Public/Private Partnerships

Hope Network, Wheels to Work

- ▶ Began in Grand Rapids
- ▶ Looking to expand geographic reach & modify the model
- ▶ Want to explore a sustainable service in less dense areas

Model essentials:

- Use existing assets
- Hope handles vehicles, dispatch, coordination
- A single contact number for all participants

Industrial Collaborative

- ▶ Lake Michigan College (Ken Flowers, Dean - Career & Workforce Ed)
- ▶ Transportation is THE major obstacle
 - For students to complete their programs of study
 - For successful job placement and retention
- ▶ No singular solution (they understand this)
- ▶ Higher functioning public transit is vital but other modes and options are critical

Autonomous Vehicles

University of Michigan Expert Forecast

- ▶ Critical areas of improvement required
- ▶ Digital mapping for navigation & localization
- ▶ Developments in the insurance industry for addressing automation

Between 2017 and 2022

- ▶ Advances in freight platooning
- ▶ More vehicles with adaptive cruise control

Autonomous Vehicles

University of Michigan Expert Forecast

Between 2017 and 2022

- ▶ Advances in freight platooning
- ▶ More vehicles with adaptive cruise control
- ▶ Intro of automated ped zone shuttle vehicles
 - Safely manage through ped zones at low speeds
 - Projected to be 2X safer than human drivers
 - Shuttles will pioneer testing of maneuvers at low speeds in urban settings

Autonomous Vehicles

University of Michigan Expert Forecast

By 2025

- ▶ Urban self-driving systems
- ▶ New OEM will begin
- ▶ OEMs will take on responsibility for insurance of vehicles
- ▶ Dedicated lanes in a city center
- ▶ Automobiles will transition to electric, automated, connected
- ▶ Enable more sustainable & economically efficient use of existing road infrastructure

Passenger Rail

Amtrak

- ▶ Positive Train Control (PTC) likely implemented before 12/2018
- ▶ Train speeds up to 110 mph
- ▶ Overall time savings of approx. 30 minutes

Passenger Rail

Amtrak

- ▶ 2017 TIGER application
- ▶ \$56.5M (plus 20% match from State)
- ▶ Connect Pere Marquette to Blue Water & Wolverine
- ▶ All three routes could stop in New Buffalo
- ▶ Double-track between Niles and Dowagiac
- ▶ Trains then able to pass at up to 110 mph
- ▶ Trip times reduced by an average of 12 minutes

Higher Education

▶ **Berrien**

- ▶ Lake Michigan College

▶ **Branch**

- ▶ Kellogg Community College
- ▶ Baker College of Coldwater

▶ **Calhoun**

- ▶ Kellogg Community College

▶ **Cass**

- ▶ Southwestern Michigan College

▶ **Kalamazoo**

- ▶ Kalamazoo Valley Community College

▶ **St. Joseph**

- ▶ Glen Oaks Community College

Early/Middle College Programs

- ▶ **Kalamazoo**
 - ▶ KRESA/KVCC
- ▶ **St. Joseph**
 - ▶ St. Joseph County CTE
- ▶ **Van Buren**
 - ▶ Van Buren Technology Center

Disability Work Programs

- ▶ **Berrien**
 - ▶ Lighthouse Education Center
- ▶ **Kalamazoo**
 - ▶ Transition Services
- ▶ **Van Buren**
 - ▶ Community-Based Transition Center
- ▶ **Regional/Statewide**
 - ▶ Michigan Career Technical Institute

Career and Technical Education

▶ **Berrien**

- ▶ Berrien RESA

▶ **Branch**

- ▶ Branch Area Careers Center (Branch ISD)
- ▶ Also uses their resources for adult learners

▶ **Calhoun**

- ▶ Calhoun Area Career Center (Calhoun ISD)

▶ **Cass**

- ▶ Lewis Cass ISD

▶ **Kalamazoo**

- ▶ Education for Employment (KRESA)
- ▶ Other local programs

▶ **St. Joseph**

- ▶ St. Joseph County CTE

▶ **Van Buren**

- ▶ Van Buren Technology Center

Apprenticeships

▶ Calhoun

- ▶ Sheet Metal Local 7 (Marshall Training Center)

▶ Regional/Statewide

- ▶ American Line Builders Apprenticeship Training (ALBAT)
- ▶ Roofers Local 70
- ▶ Elevator Constructors Local 36
- ▶ Plumbers UA Local 98
- ▶ Detroit Electrical Industry Training Center
- ▶ International Union of Painters & Allied Trades- Local 1052

- ▶ Heat & Frost Insulators Local 47
- ▶ Elevator Constructors Local 85
- ▶ Pipefitters Industry Training Center Local 636
- ▶ Michigan Laborers' Training and Apprenticeship Institute
- ▶ Detroit Carpenters Apprenticeship School
- ▶ Boilermakers Local 169-Boilermakers Training Center
- ▶ Local #2, Trowel Trades Apprenticeship
- ▶ OPCMIA Apprenticeships

Apprenticeships

▶ Regional/Statewide

- ▶ Millwrights 1102 Institute of Technology
- ▶ Michigan Bricklayers & Allied Craftworkers - Local 2
- ▶ Operating Engineers Local 324
- ▶ Cement Masons (Local 514)- Greater Detroit Cement Masons Joint Apprentices Committee Training Center
- ▶ Glass and Architectural Metal Workers Local 826
- ▶ The Flint Electrical J.A.T.C. IBEW, Local 948- NECA Flint Division
- ▶ Glaziers Apprenticeship School (located at Painters Apprenticeship School)
- ▶ Ironworkers Local 25 Training Center
- ▶ Operating Engineers Local 324 - Journeymen & Apprentice Training Fund
- ▶ Painters Apprenticeship School
- ▶ Sheet Metal Workers Local 292 (Apprenticeship School)
- ▶ Sprinkler Fitters Local 704- Training Center
- ▶ UA Local 370 Plumbers and Pipefitters

Adult Education Programs

▶ Berrien

- ▶ Berrien Springs Adult Education
- ▶ Niles Comm. Schools Adult Education

▶ Branch

- ▶ Branch County Literacy Council
- ▶ Coldwater Adult Education

▶ Calhoun

- ▶ Albion Public Library
- ▶ Altrusa Club
- ▶ Battle Creek Community Literacy Collaborative
- ▶ Battle Creek YMCA

▶ Cass

- ▶ Cassopolis Adult Education
- ▶ Pathfinders Alternative Ed

Adult Education Programs

▶ Kalamazoo

- ▶ Climax-Scotts Adult/Alternative Ed
- ▶ Goodwill Industries of Southwest Michigan
- ▶ Kalamazoo Adult Education
- ▶ Kalamazoo Literacy Council
- ▶ SLD Learning Center

▶ St. Joseph

- ▶ Barrows Adult Education
- ▶ Centreville Adult Education (Covered Bridge School)
- ▶ Sturgis Schools Adult Education Center

▶ Van Buren

- ▶ Michigan Avenue Academy

Prosperity Committee Membership

Bylaws Section 3 Term of Office

- ▶ Committee members are appointed by a majority of the Committee for one year terms. Committee membership for the following year is established at the last meeting of the fiscal year.

2016 RPI Region 8 Meeting Attendance

