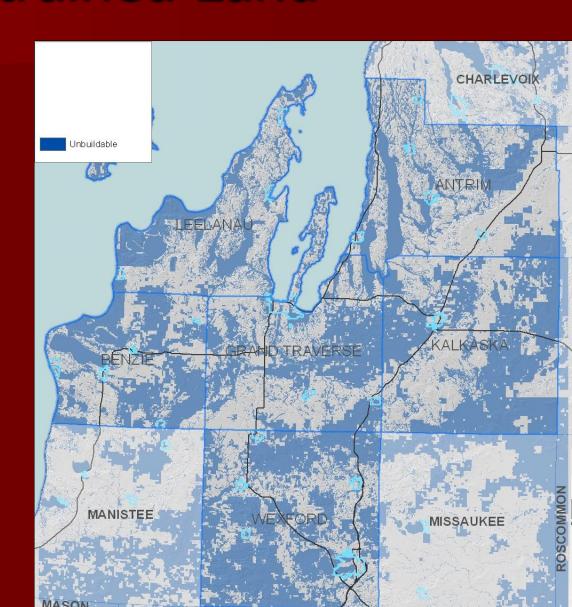
# Constraints, Vacant Land and Redevelopment Potential

#### **Constrained Land**

All constrained Lands



#### **Constrained Lands**

- Environmental Constraints
  - Over 500,000 Acres
  - Used in vacant land analysis
- Protected Land
  - Over 600,000 Acres
  - Used in vacant land analysis and land with redevelopment potential
- Over 50% of the region is made of constrained land

#### Vacant Land Analysis

Vacant Mask

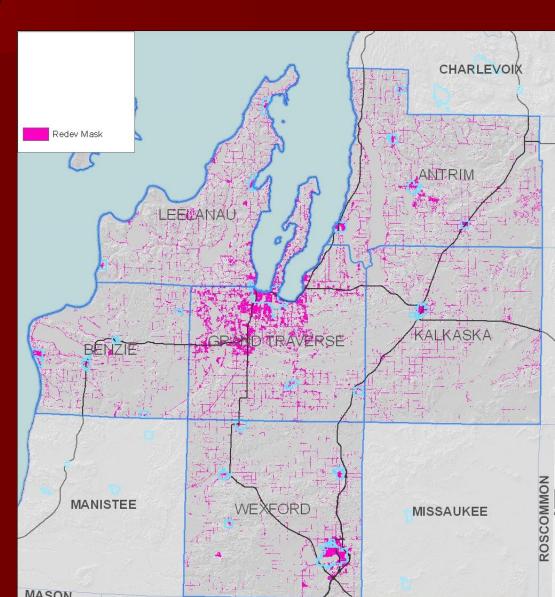


#### Vacant Land Analysis

- Land Use and Land Cover
  - Partially ground proofed for Grand Traverse
     County
  - 2001 land cover for other counties
- Excludes Protected Land
- Excludes Environmental Constrains
- Over 750,000 acres, 40% of region

#### Redevelopment Potential

Redev Mask



#### Redevelopment Potential

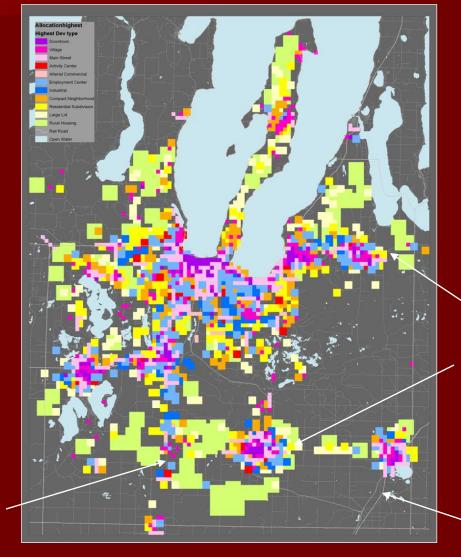
- Land Use and Land Cover
  - Partially ground proofed for Grand Traverse
     County
  - 2001 land cover for other counties
- Excludes Protected Land
- Over 130,000 acres, 7% of region

# Grand Traverse Workshop

# The Workshop Results All Chips

#### Development Types





**State Highway 72** 

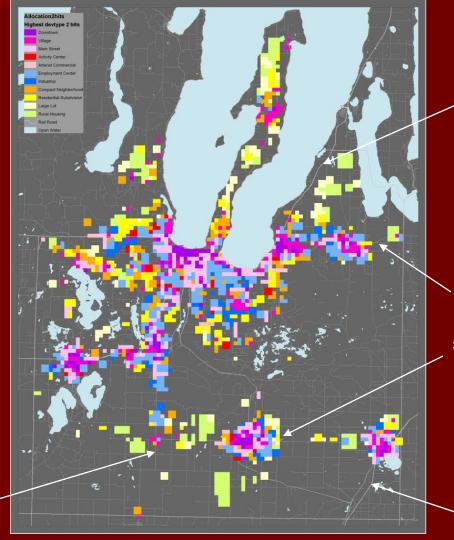
**State Highway 113** 

**State Highway 37** 

### The Workshop Results All Chips at least 2 Hits

#### Development Types





**US Highway 31** 

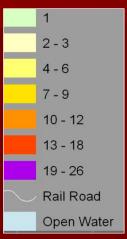
State Highway 72

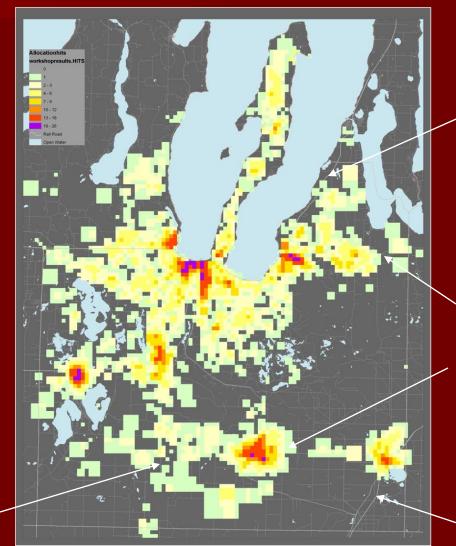
**State Highway 113** 

State Highway 37

## The Workshop Results Chip Placement (Any Chip)

#### Occurrence





**US Highway 31** 

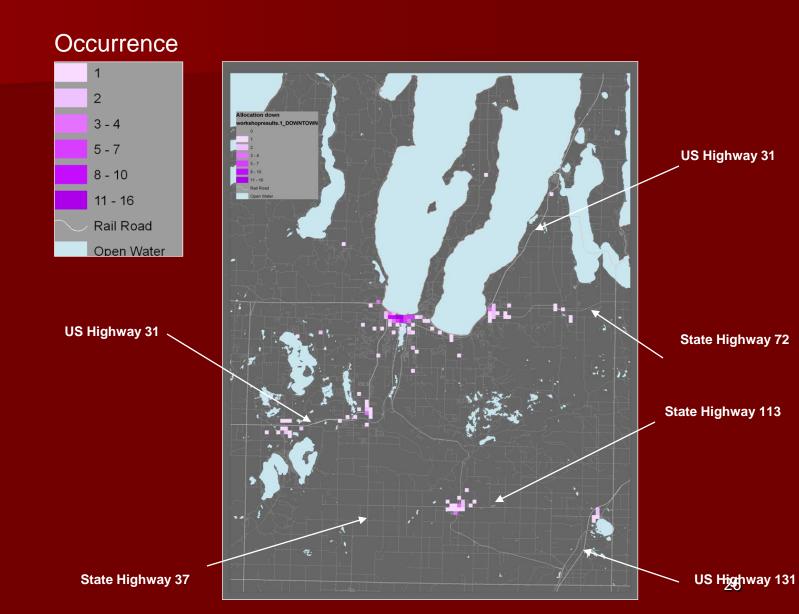
State Highway 72

State Highway 113

State Highway 37

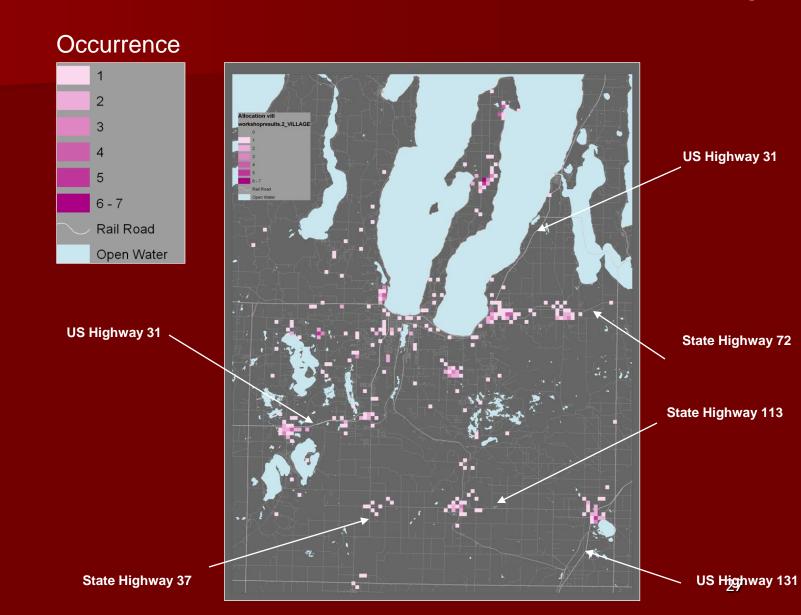


# The Workshop Results Downtown



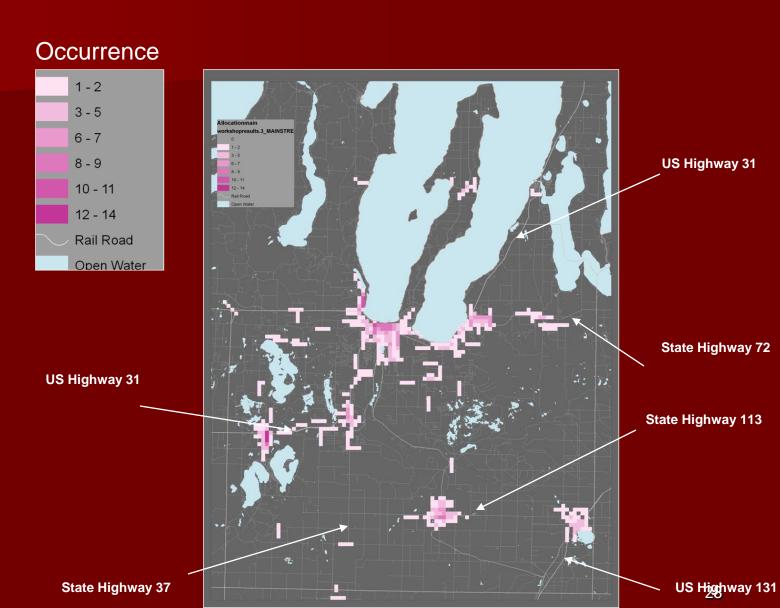


# The Workshop Results Village



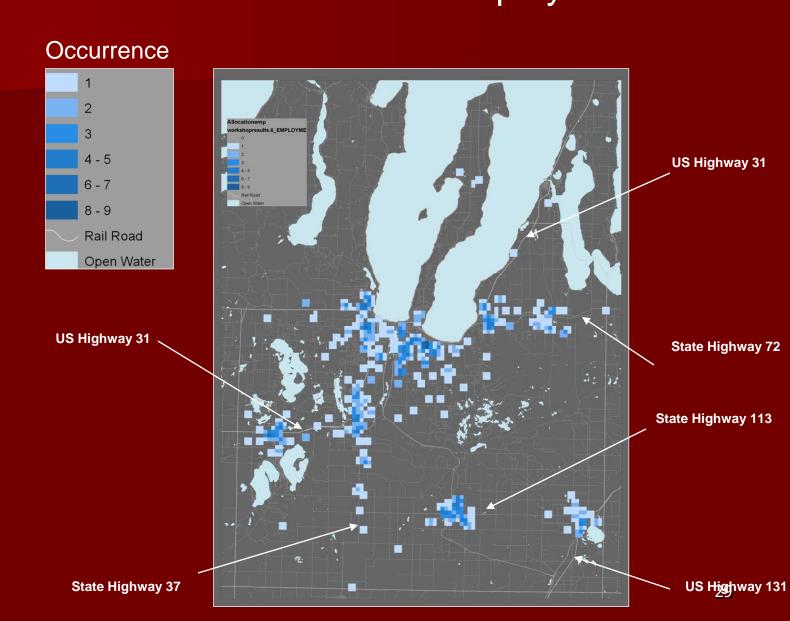


# The Workshop Results Main Street



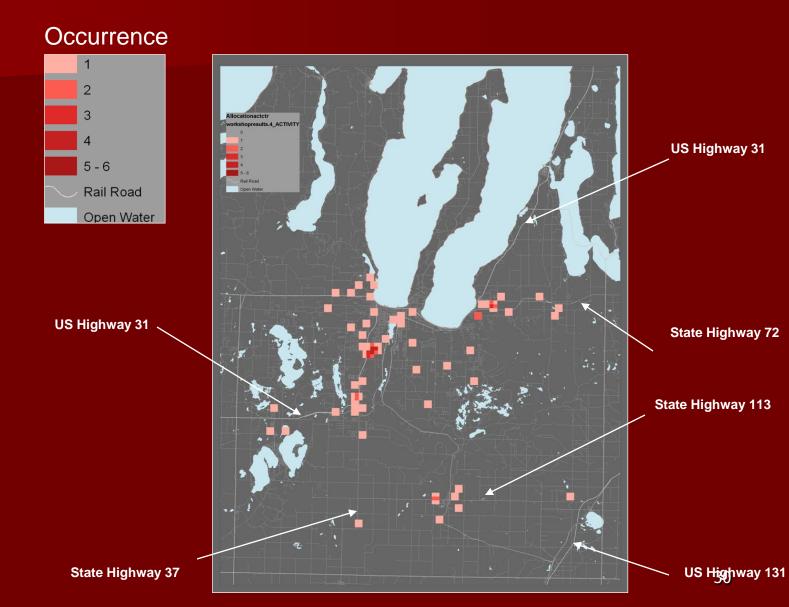


### The Workshop Results Employment District



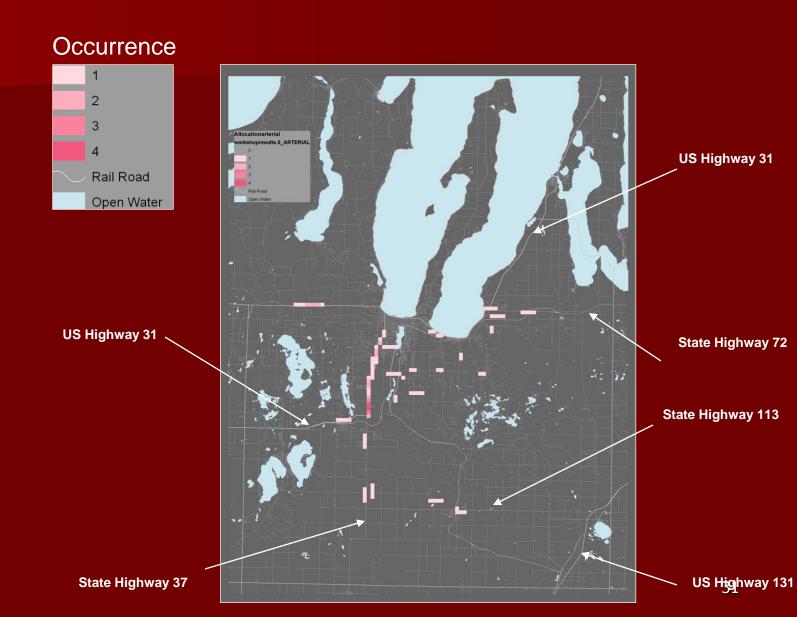


# The Workshop Results Activity Center





#### The Workshop Results Arterial Commercial



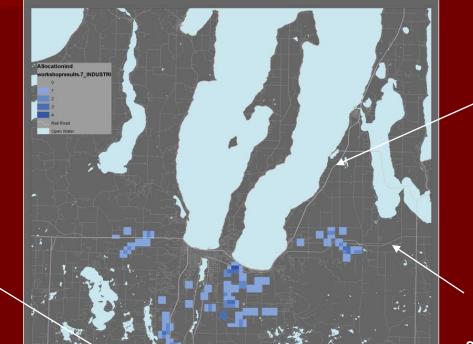


# The Workshop Results Industrial





**US Highway 31** 



**US Highway 31** 

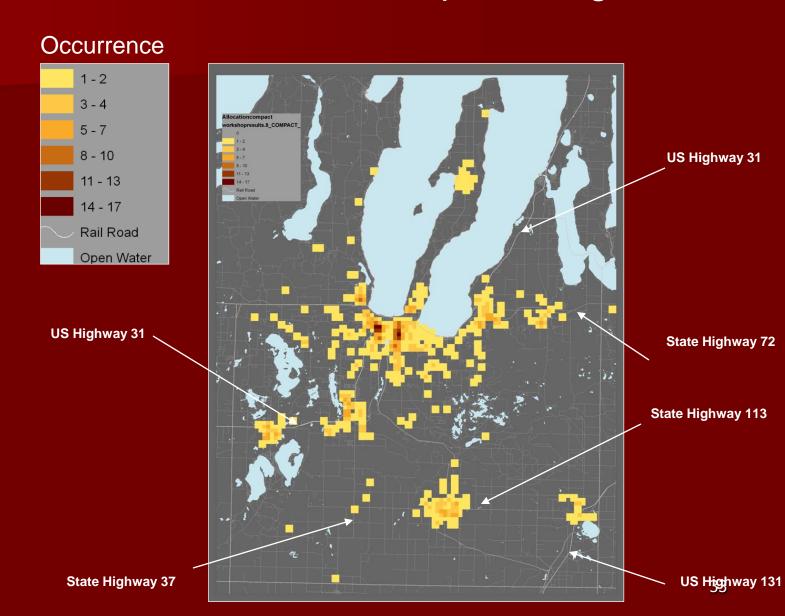
State Highway 72

State Highway 113

**State Highway 37** 

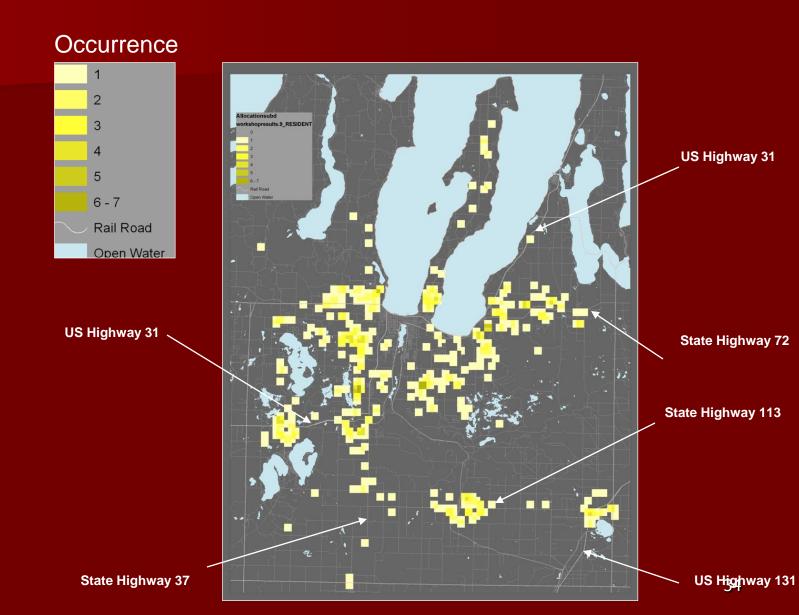


## The Workshop Results Compact Neighborhood



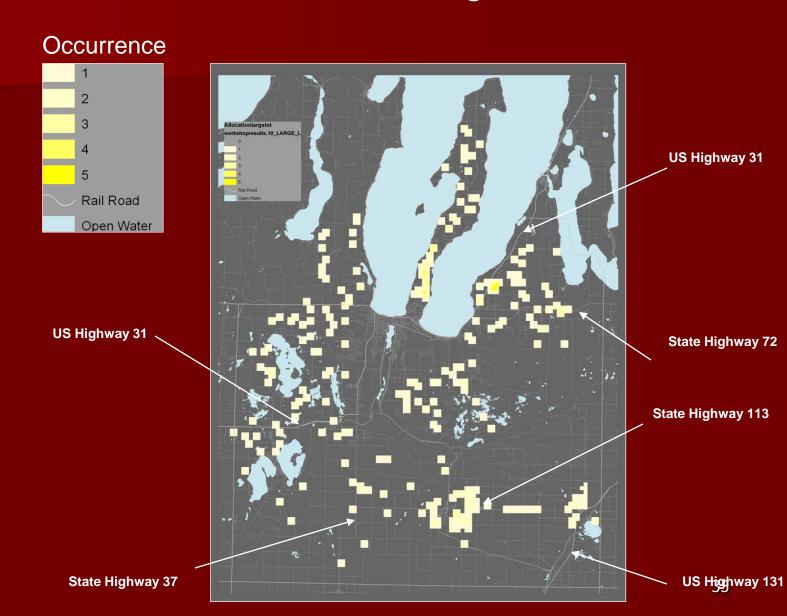


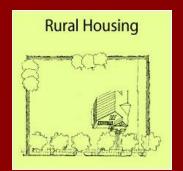
### The Workshop Results Subdivision Residential





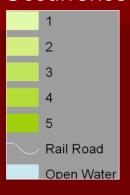
## The Workshop Results Large Lot Subdivision





# The Workshop Results Rural Housing

#### Occurrence





**US Highway 31** 

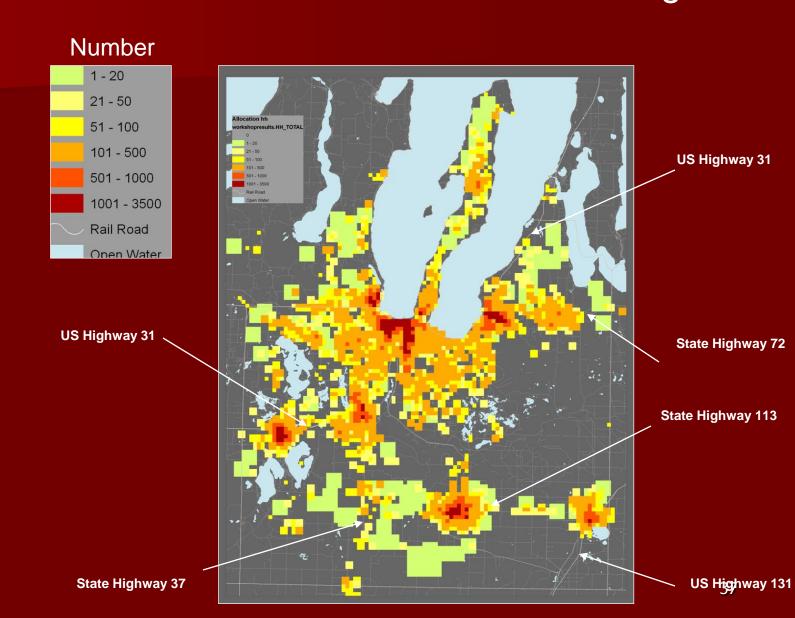
**US Highway 31** 

State Highway 72

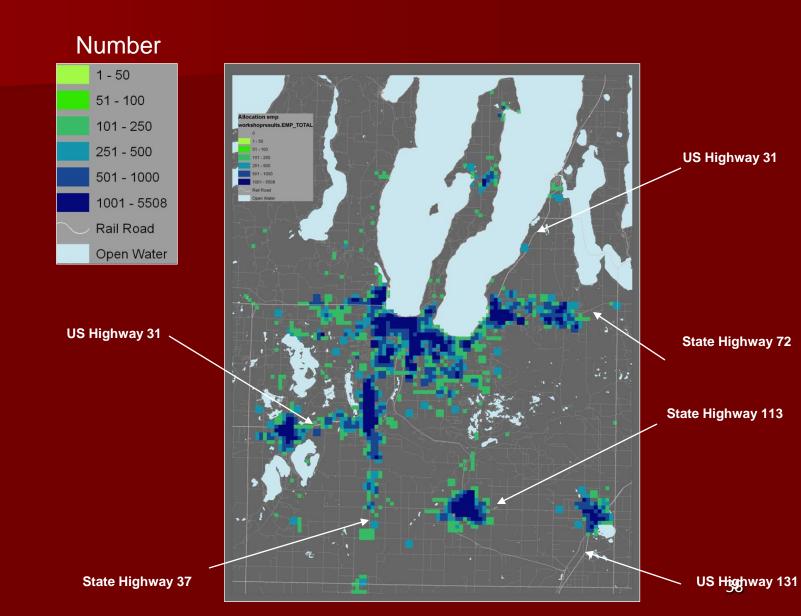
**State Highway 113** 

**State Highway 37** 

# The Workshop Results Total Housing Units



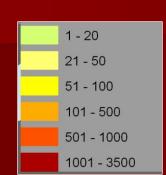
# The Workshop Results Total Jobs



### The Workshop Results Housing Units and Jobs Combined

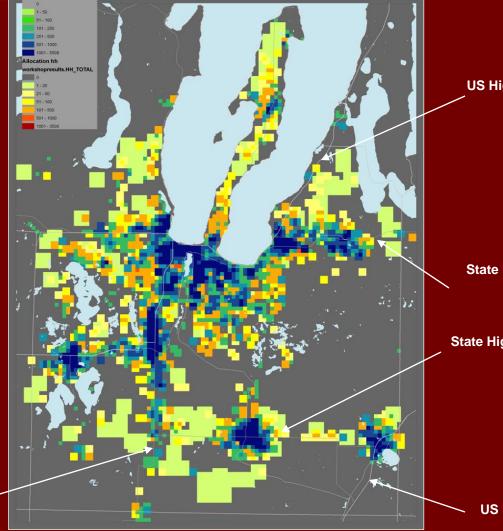
#### Job





Housing

Units



US Highway 31

State Highway 72

**State Highway 113** 

**State Highway 37** 

### The Workshop Results Roads by Occurrence

"Beautify roadways"

Occurrence

"Beltway – no consensus on exact route but consensus on concept"

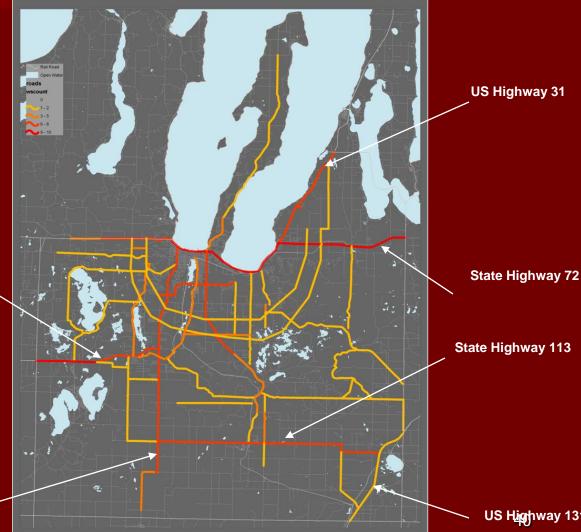
1-2 3 - 5 9 - 10

"Reduce downtown congestion through traffic"

"Needs to move traffic south of TC to N of TC without going through town along Bay"

"Better alternative for drivers US Highway 31 from Leelzawau County to the back side of TC"

"Bridge very controversial but starts a good dialogue"



State Highway 37

### The Workshop Results Public Transportation by Occurrence

"More mass transit Improve existing rail lines for transit"

"More BATA routes"

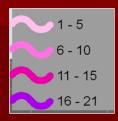
"Light rail system feeding from Lee, Benzia, Interlochen, Kingsley, and east from Antrim County"

#### **Regional Transit:**

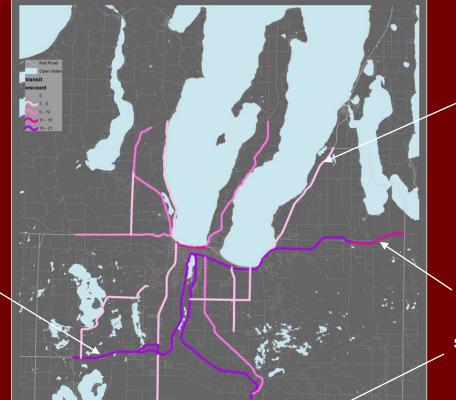
"Rail service for southern Michigan"

"High speed rail to Grand Rapids"

#### Occurrence



**US Highway 31** 



**US Highway 31** 

State Highway 72

State Highway 113

**State Highway 37** 

#### The Workshop Results

Trail Network by Occurrence

"Develop TC commuter, bike paths, plan for bikes in town"

Occurrence

"Public safety—pedestrian bridges over parkway"

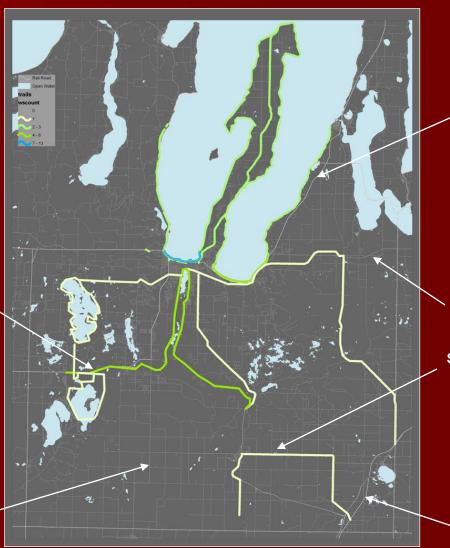
2 - 3 4 - 6 7 - 13

"More bike trails"

"Build \$50 million Santiago Calotrova design pedestrian bridge linking the bay to downtown TC"

"Interlochen – TC Bike Route"

**US Highway 31** 



**US Highway 31** 

State Highway 72

**State Highway 113** 

**State Highway 37** 

### The Workshop Results Open Space by Occurrence

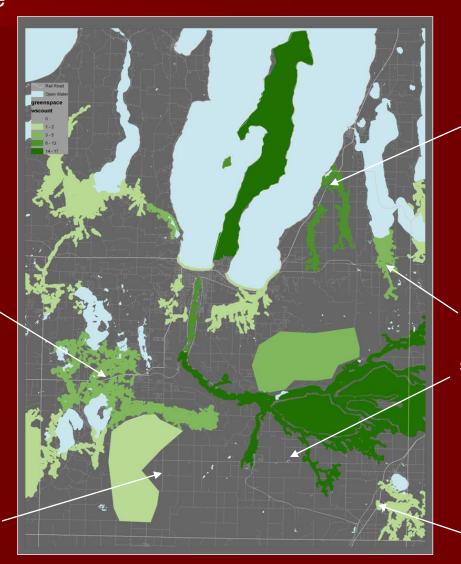
"Preservation of agriculture,
public lands, and urban park
space"
Occurrence

"Protect natural resources, water quality, natural features and open space" 1 - 2 3 - 5 6 - 13 14 - 17

"Emphasize purchase of development rights in key approach areas to preserve open space and the rural look"

"Protect our watershed for US Highway 31 clean water"

"High density for the sake of preserving open space"



**US Highway 31** 

State Highway 72

**State Highway 113** 

**State Highway 37** 

# Grand Traverse Initial Draft Scenarios

#### **Scenarios**

The following slides show

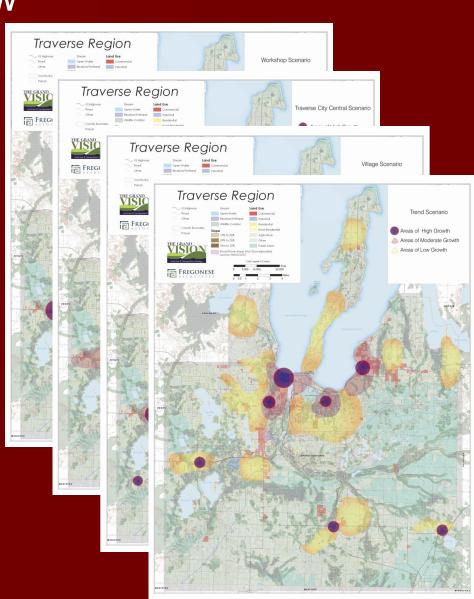
four possible *scenarios* for Grand Traverse County we've identified using all of the maps:

**Trend** 

**Central City** 

Villages

Workshop Consensus



#### Trend (Note some

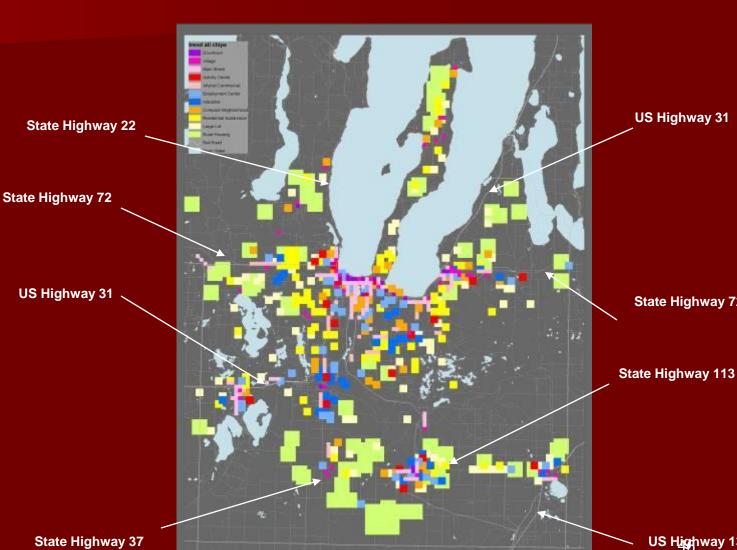
areas shown developed are in conservation protection)

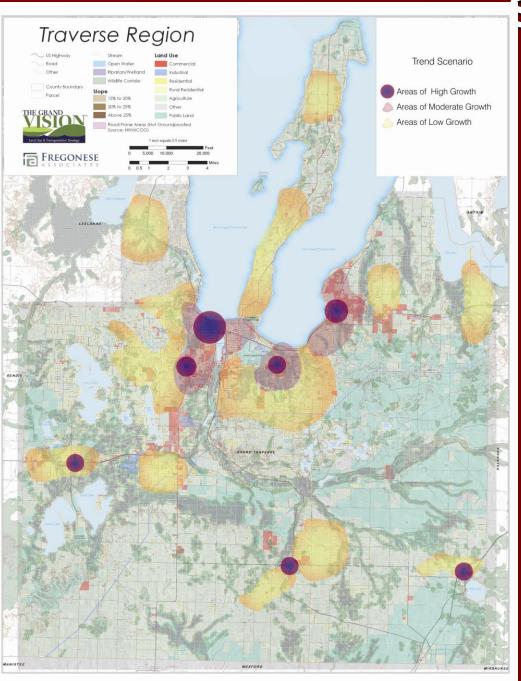
# The Workshop Map Composite

**US Highway 31** 

State Highway 72







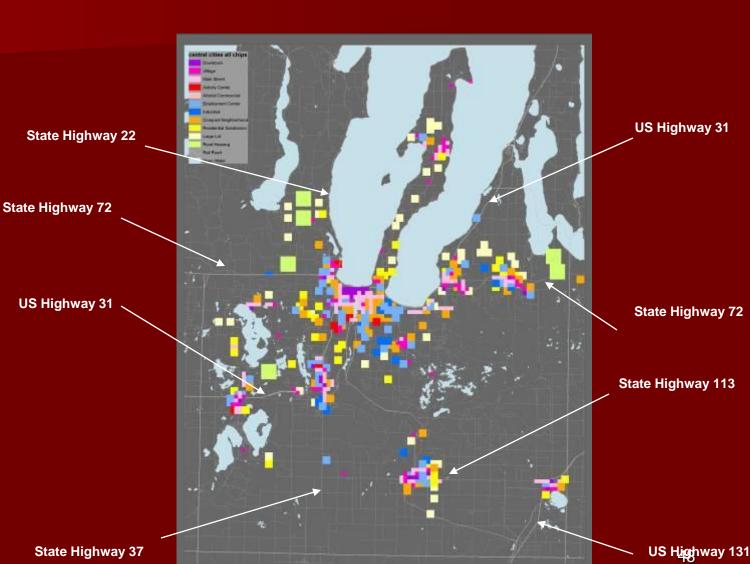
#### **Scenarios**

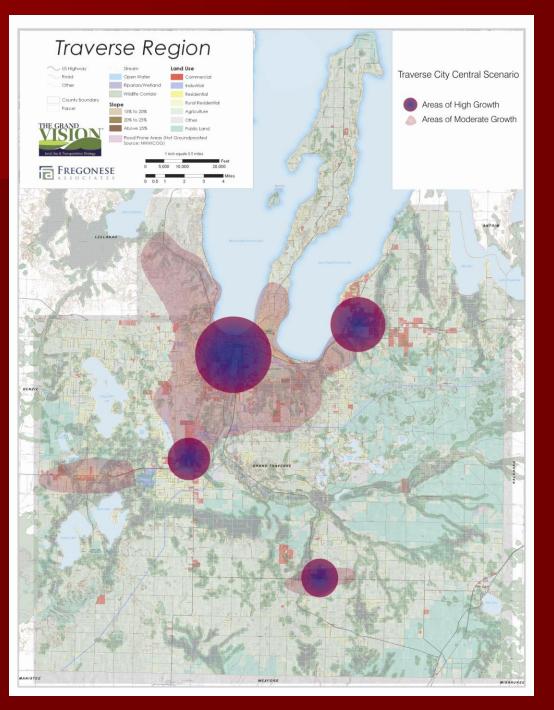
#### **Trend**

#### Central City

### The Workshop Map Composite







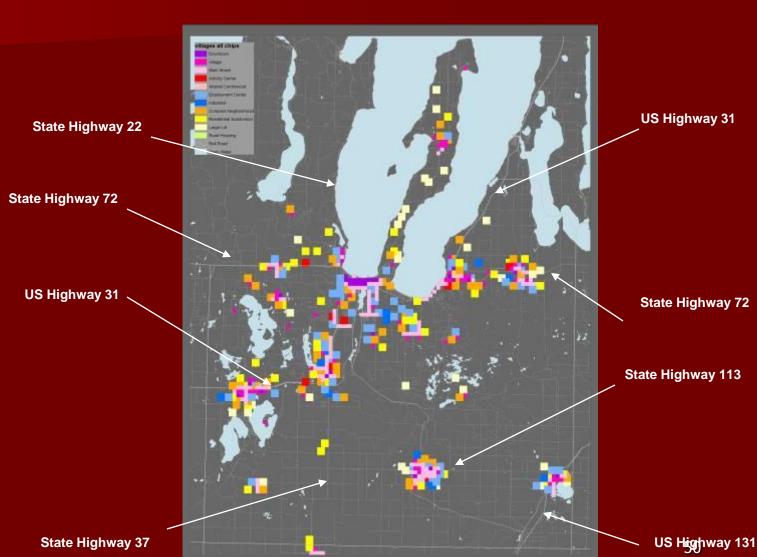
#### **Scenarios**

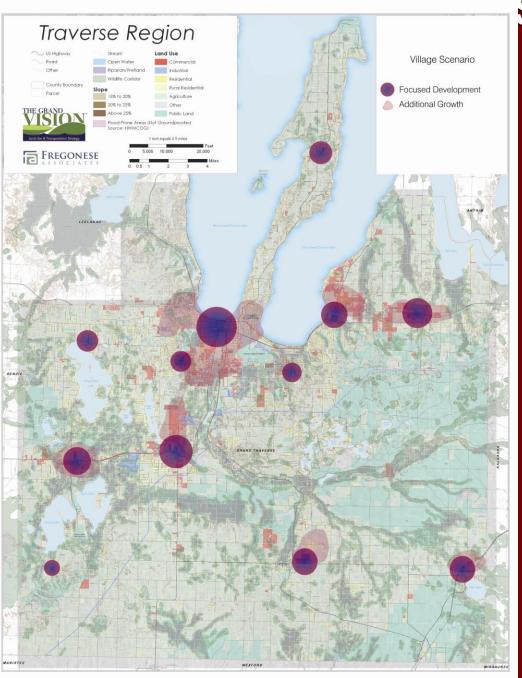
#### Central City

#### Villages

## The Workshop Map Composite







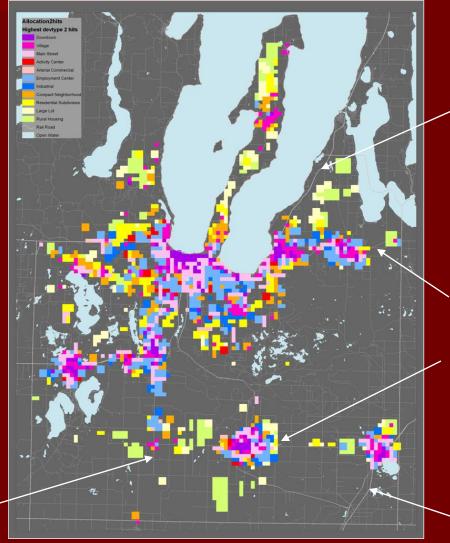
### Scenarios

### Villages

### The Workshop Results All Chips at least 2 Hits

#### Development Types





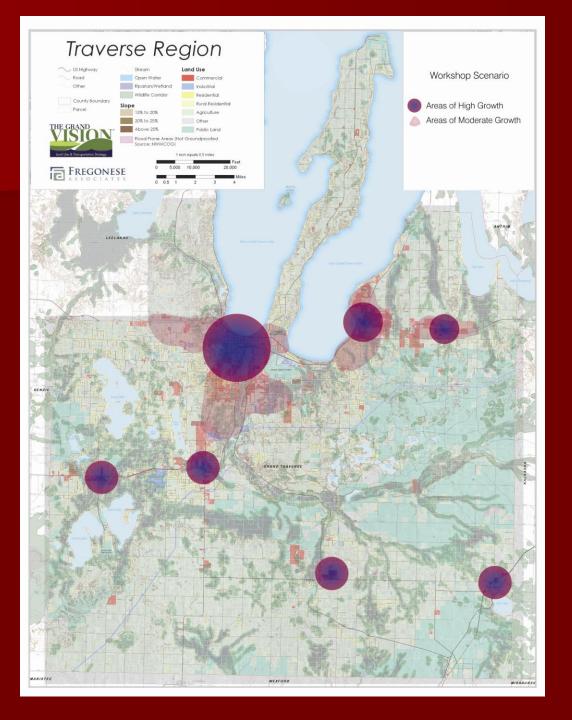
**US Highway 31** 

State Highway 72

**State Highway 113** 

State Highway 37

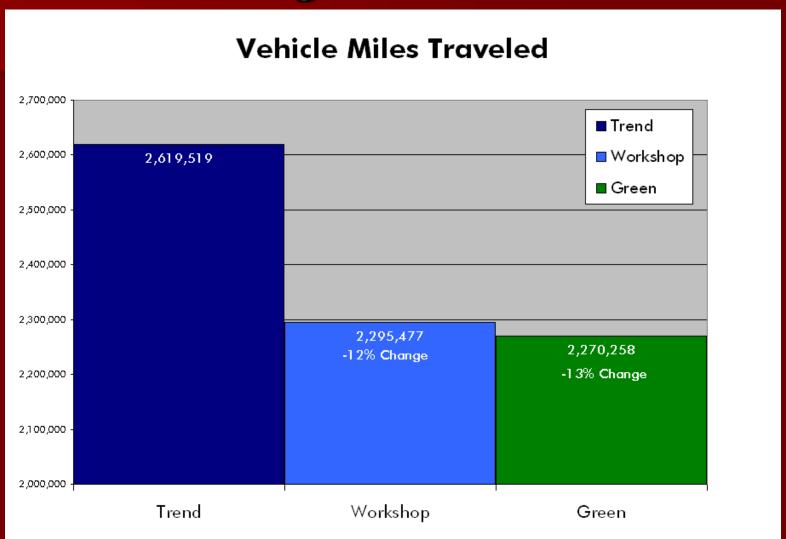
US Highway 131



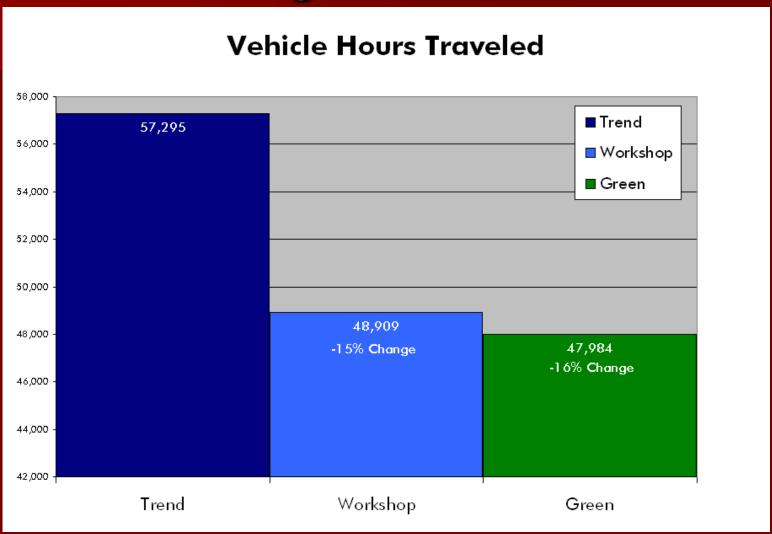
#### Scenarios

#### Workshop Consensus

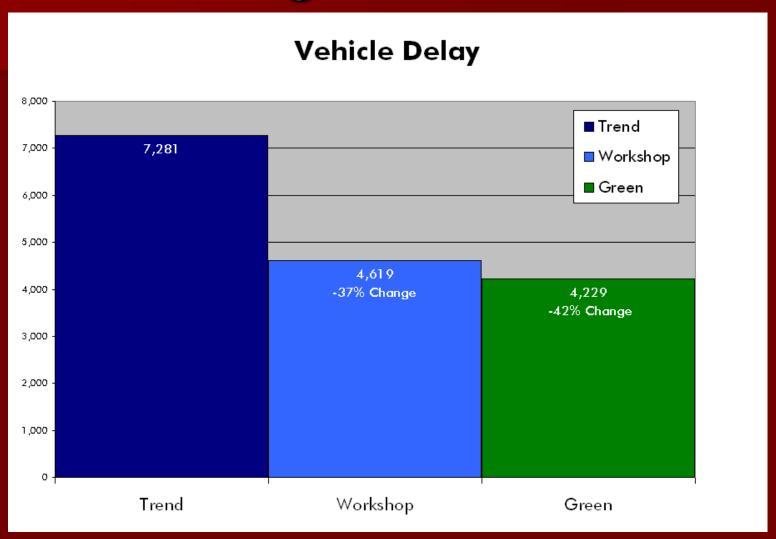
#### Modeling the Scenarios



#### Modeling the Scenarios



#### Modeling the Scenarios

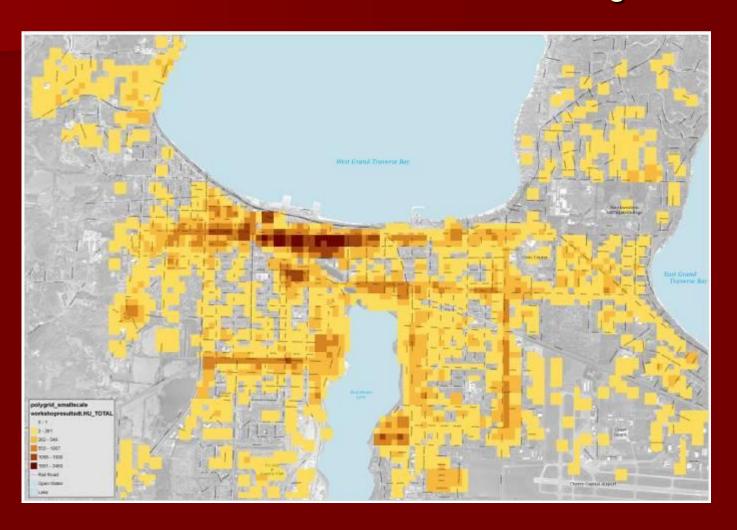


# Small Area Workshops

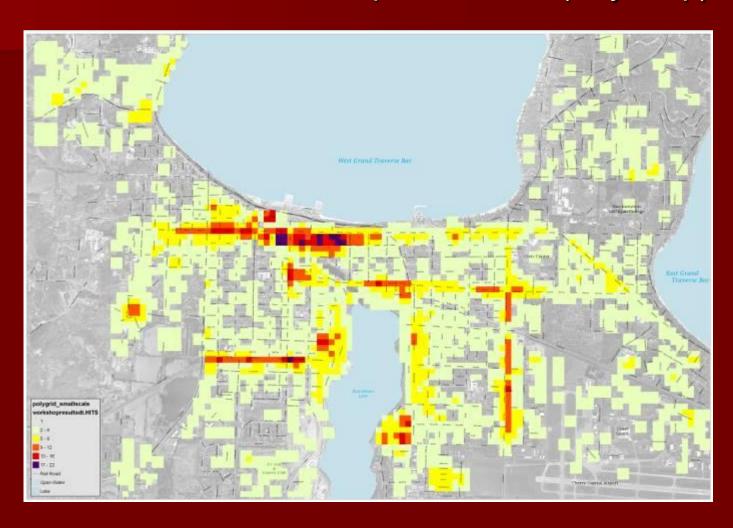
**Downtown Total Jobs** 



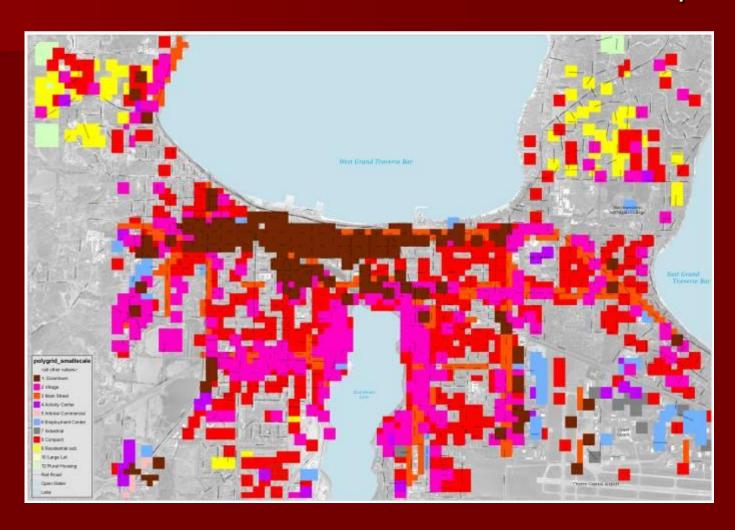
**Downtown Total Housing Units** 



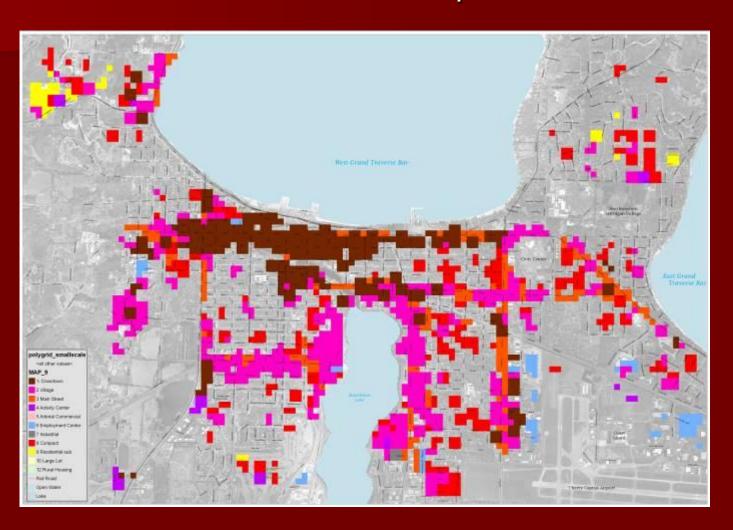
Downtown Chip Placement (Any Chip)



Downtown All Chips



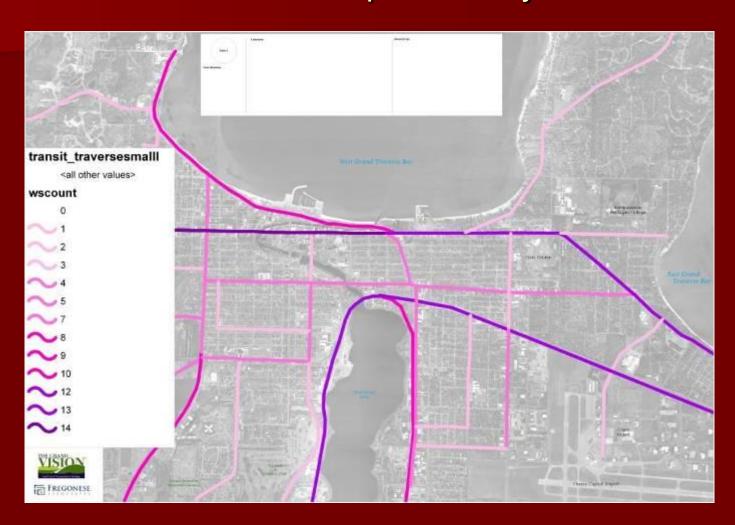
Downtown All Chips At Least 2 Hits



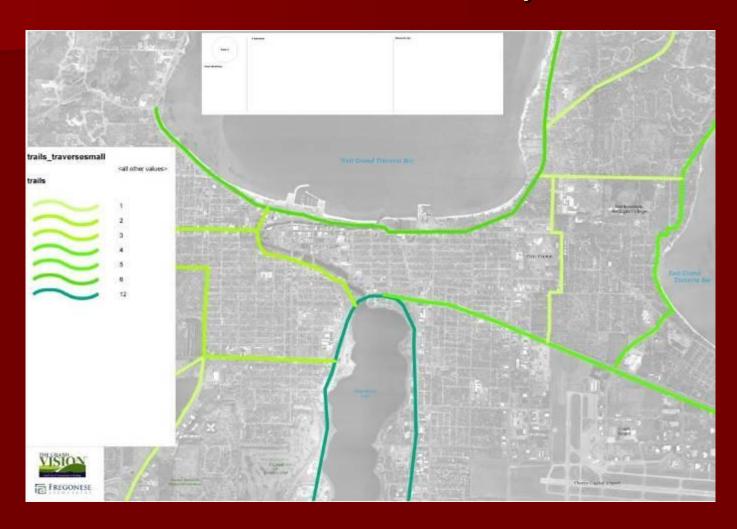
Downtown Roads By Occurrence



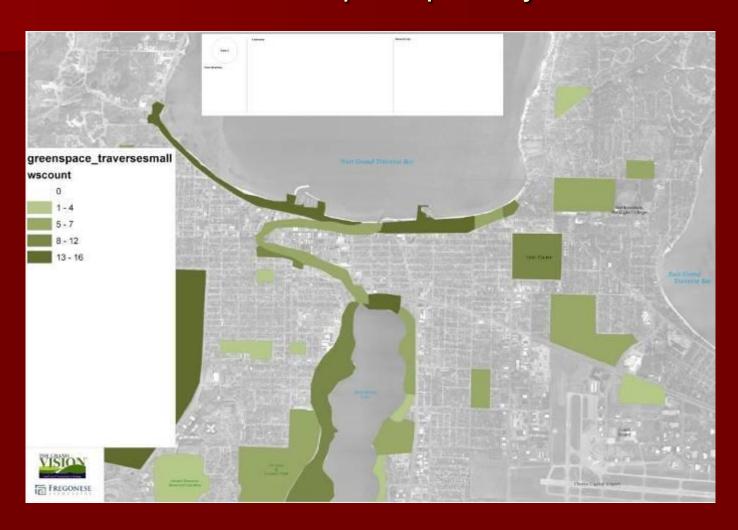
Downtown Public Transportation By Occurrence



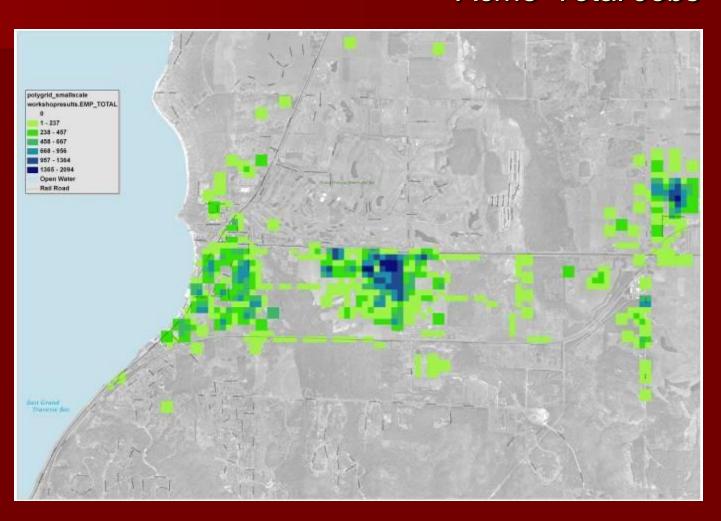
Downtown Trails by Occurrence



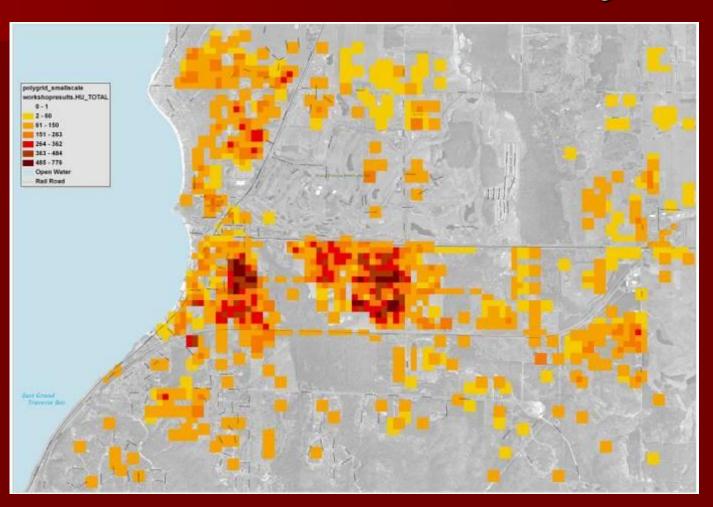
Downtown Open Space by Occurrence



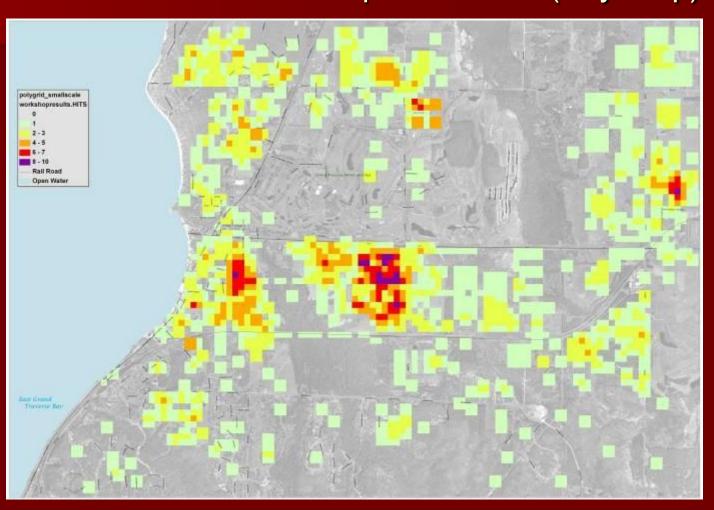
Acme Total Jobs



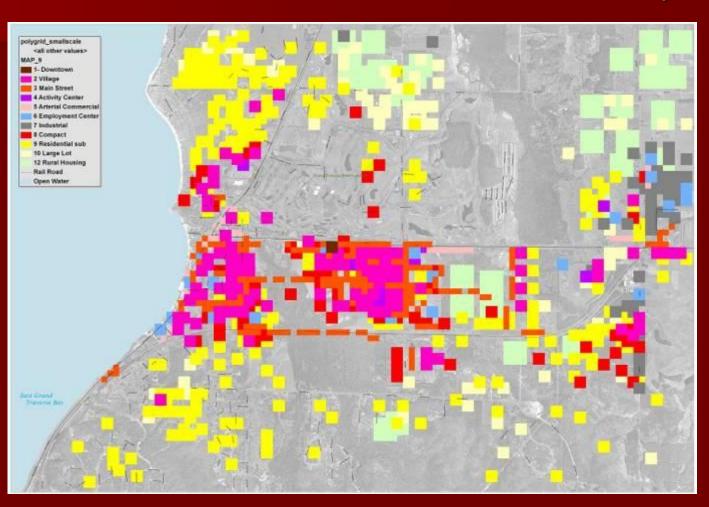
Acme Total Housing Units



Acme Chip Placement (Any Chip)



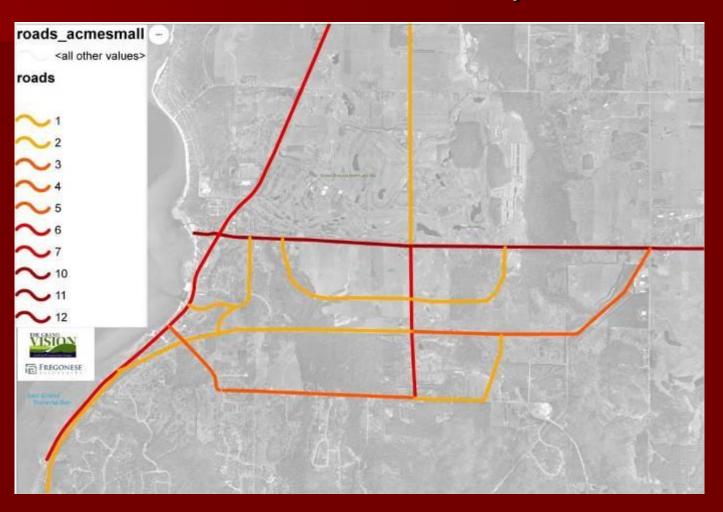
Acme All Chips



Acme All Chips At Least 2 Hits



Acme Roads by Occurrence



Acme Public Transportation by Occurrence



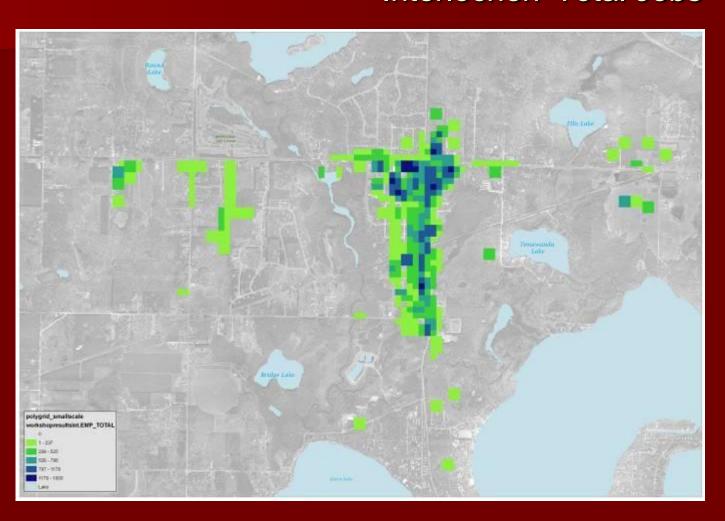
Acme Trails by Occurrence



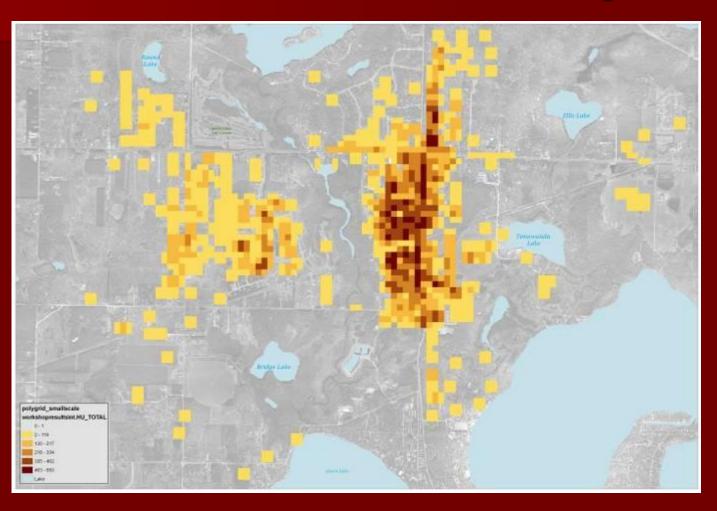
Acme Open Space by Occurrence



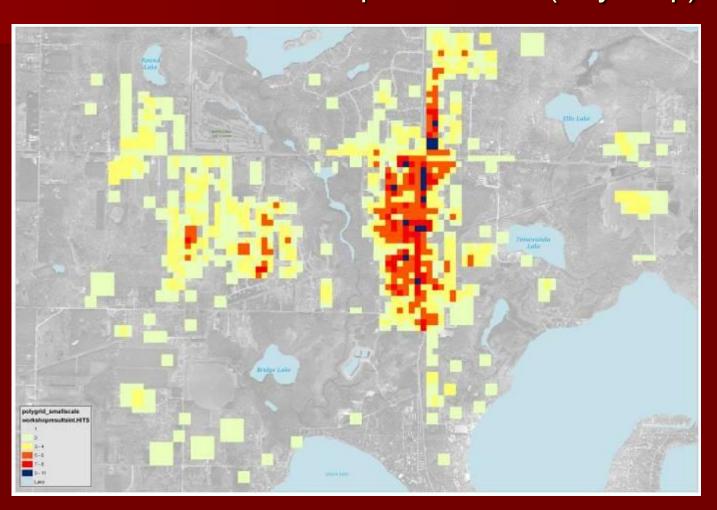
Interlochen Total Jobs



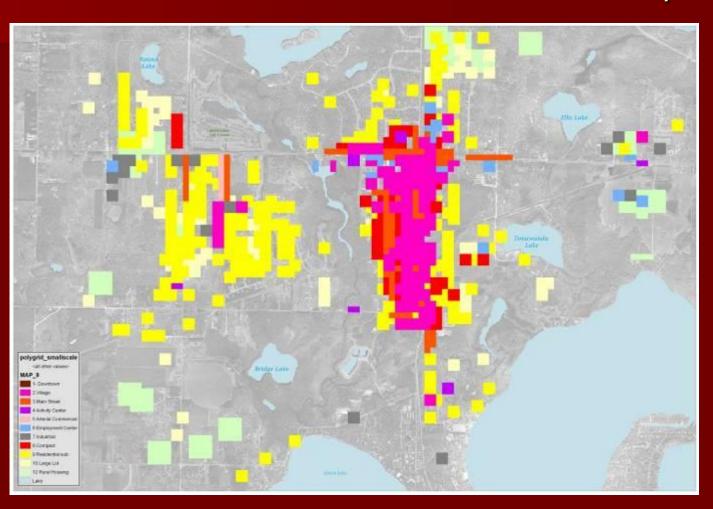
Interlochen Total Housing Units



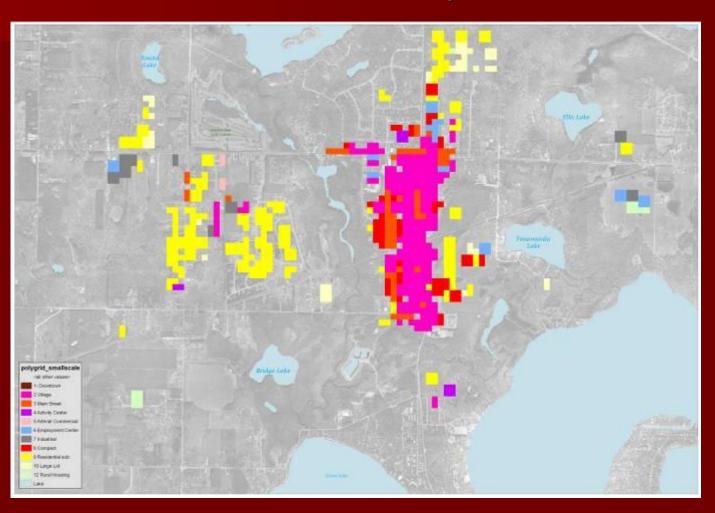
Interlochen Chip Placement (Any Chip)



Interlochen All Chips

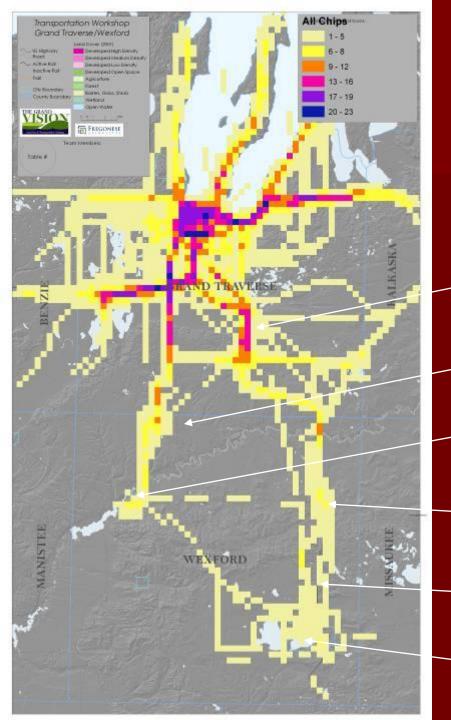


Interlochen All Chips At Least 2 Hits



# Transportation Workshops

### Grand Traverse/Wexford



# Transportation Workshop Results -All Chips

**Existing Rail** 

Buckley

Mesick

Manton

US 131



## Transportation Workshop Results -Regional Bus

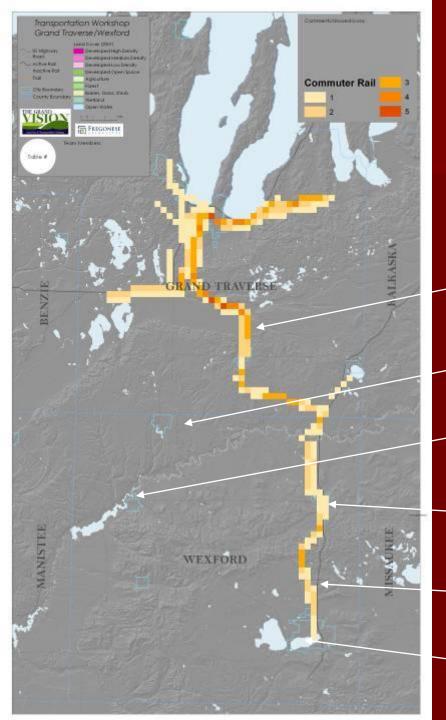
**Existing Rail** 

Buckley

Mesick

Manton

US 131



### Transportation Workshop Results -Commuter Rail

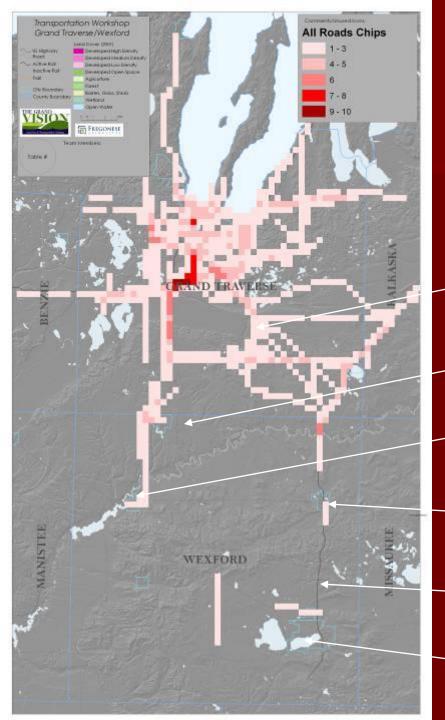
**Existing Rail** 

Buckley

Mesick

Manton

US 131



Transportation
Workshop
Results
-Road Widening and
New Roadways

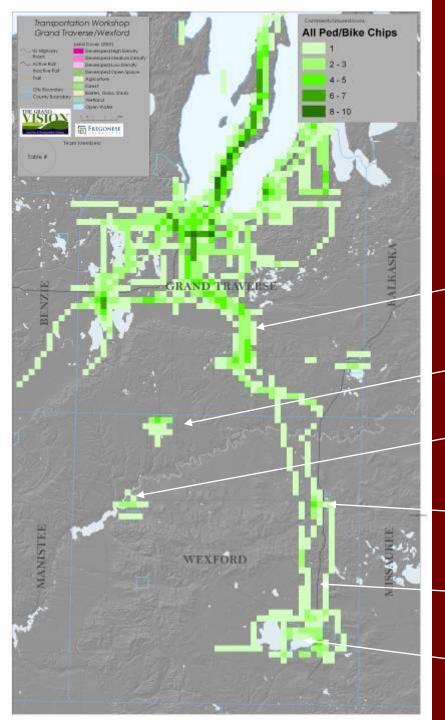
Existing Rail

Buckley

Mesick

Manton

US 131



# Transportation Workshop Results -All Pedestrian/Bicycle Chips

**Existing Rail** 

Buckley

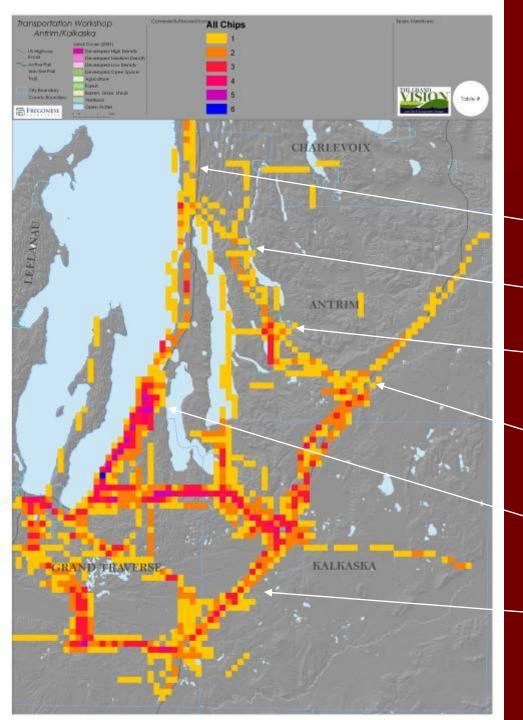
Mesick

Manton

US 131

Cadillac

### Antrim/Kalkaska



## Transportation Workshop Results -All Chips

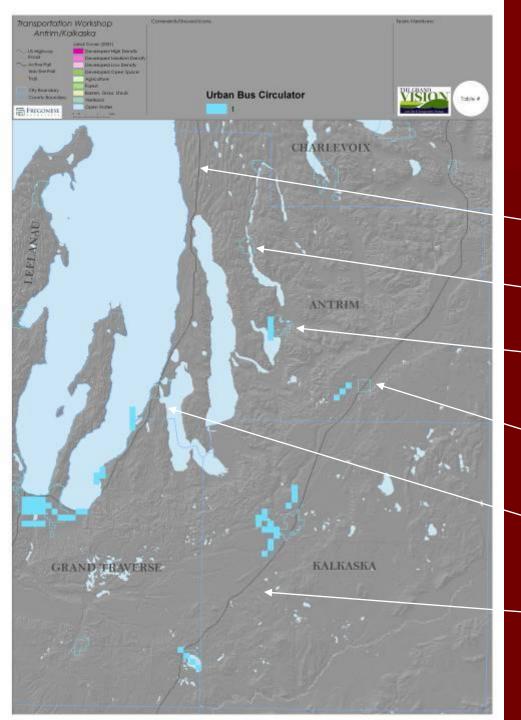
**US 31** 

Central Lake

Bellaire

Mancelona

Elk Rapids



## Transportation Workshop Results -Urban Bus Circulator

**US 31** 

Central Lake

Bellaire

Mancelona

Elk Rapids



## Transportation Workshop Results -Regional Bus

**US 31** 

Central Lake

Bellaire

Mancelona

Elk Rapids



## Transportation Workshop Results -All Transit Chips

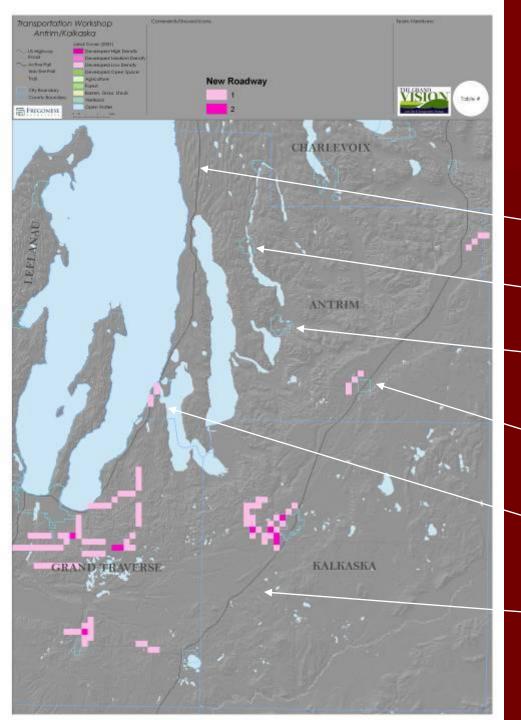
**US 31** 

Central Lake

Bellaire

Mancelona

Elk Rapids



## Transportation Workshop Results -New Roadway

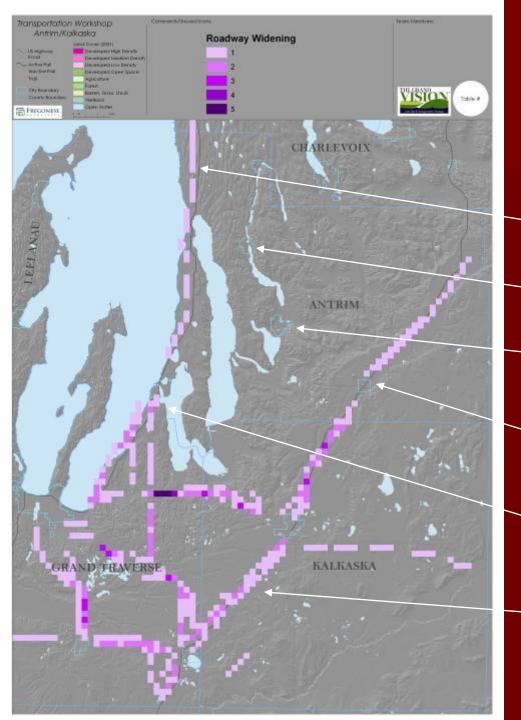
**US 31** 

Central Lake

Bellaire

Mancelona

Elk Rapids



## Transportation Workshop Results -Roadway Widening

US 31

Central Lake

Bellaire

Mancelona

Elk Rapids



## Transportation Workshop Results -All Road Chips

US 31

US 131

City of Kalkaska

**Hwy 72** 

**Existing Rail** 

Hwy 113



# Transportation Workshop Results -All Pedestrian/Bicycle US 31 Chips

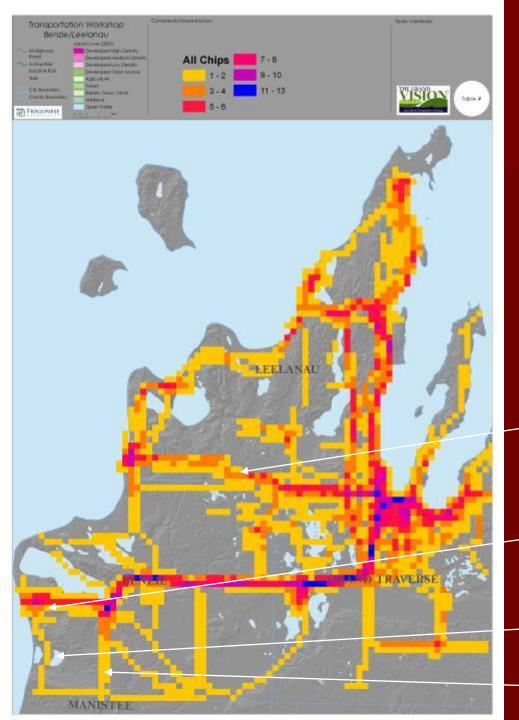
Central Lake

Bellaire

Mancelona

Elk Rapids

### Benzie/Leelanau

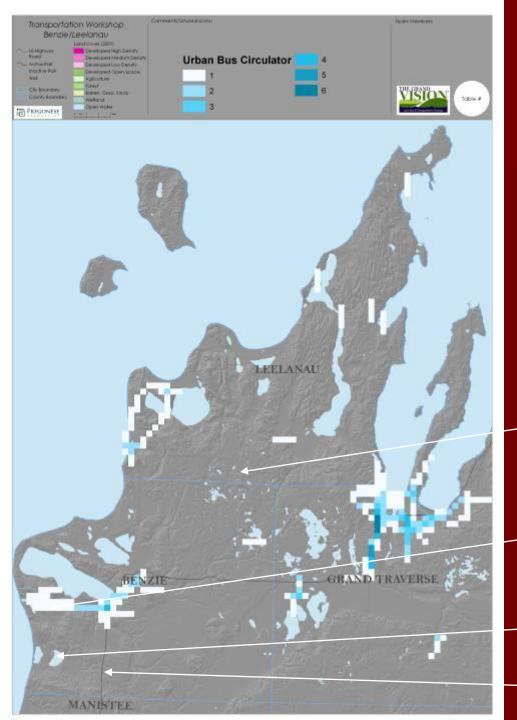


# Transportation Workshop Results -All Chips

Hwy 72

Frankfort

\_\_\_\_ Hwy 22



## Transportation Workshop Results -Urban Bus Circulator

Hwy 72

Frankfort

\_\_\_\_\_ Hwy 22



## Transportation Workshop Results -Regional Bus

Hwy 72

Frankfort

\_\_\_\_ Hwy 22

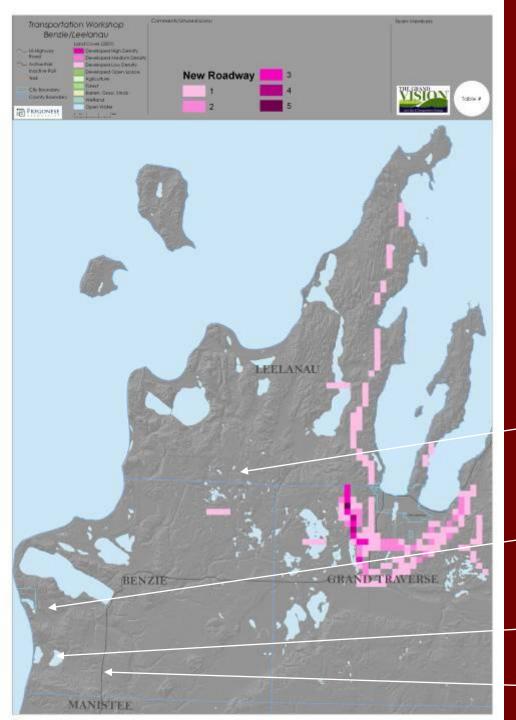


# Transportation Workshop Results -All Transit Chips

Hwy 72

Frankfort

\_\_\_\_ Hwy 22



# Transportation Workshop Results -New Roadway

Hwy 72

Frankfort

— Hwy 22



#### Transportation Workshop Results -Roadway Widening

Hwy 72

Frankfort

\_\_\_\_ Hwy 22



# Transportation Workshop Results -All Road Chips

Hwy 72

Frankfort

\_\_\_\_\_ Hwy 22



# Transportation Workshop Results -All Pedestrian/Bicycle Chips

Hwy 72

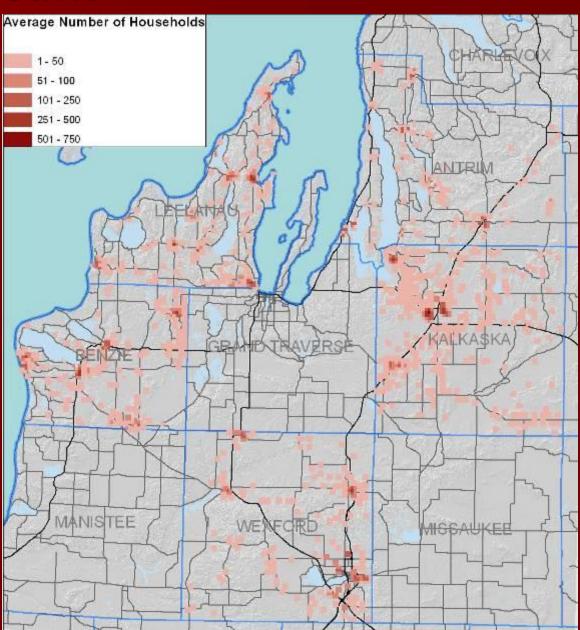
\_\_\_\_ Frankfort

\_\_\_\_\_ Hwy 22

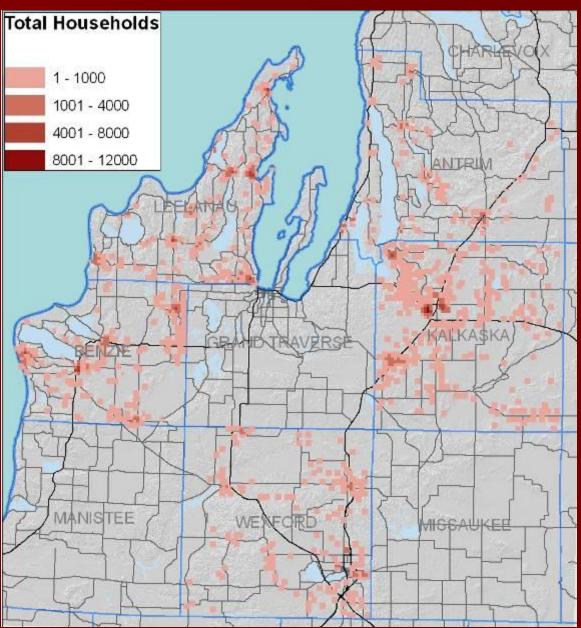
## County Workshops

## Region-wide

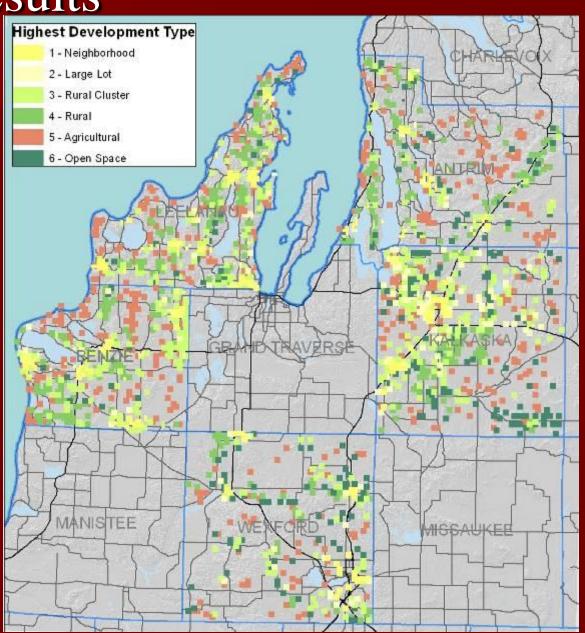
Average Number of Households



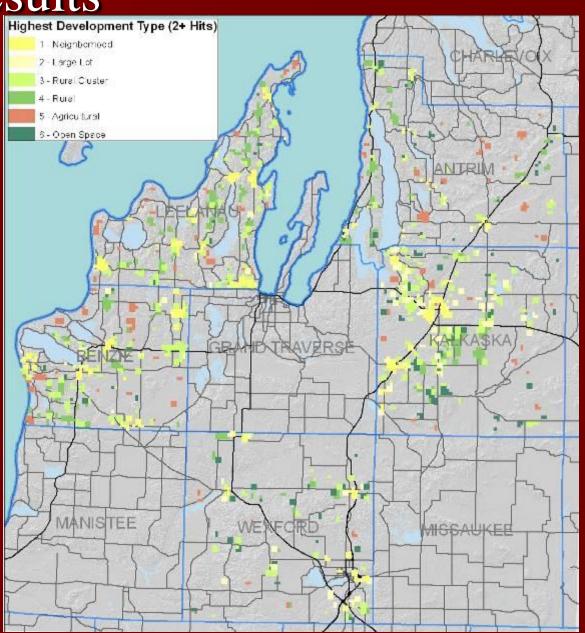
Total Number of Households



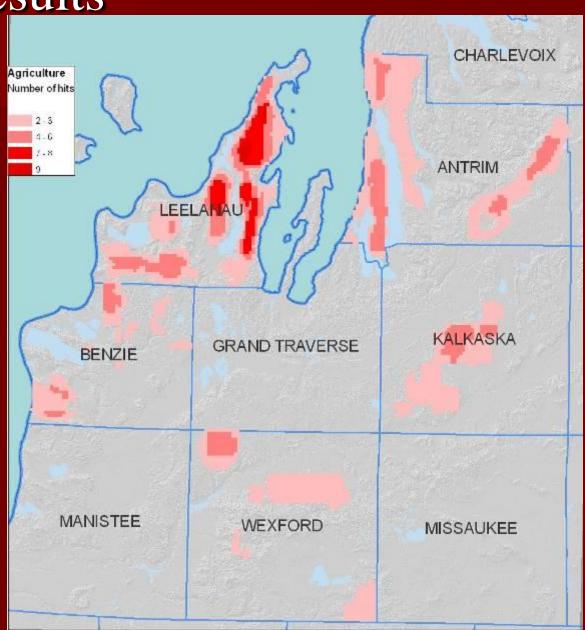
Highest Development Type



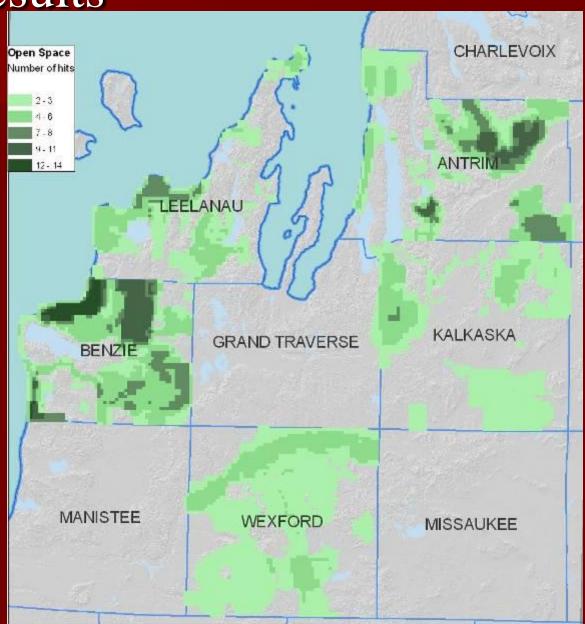
Highest
Development Type:
at least 2 Hits



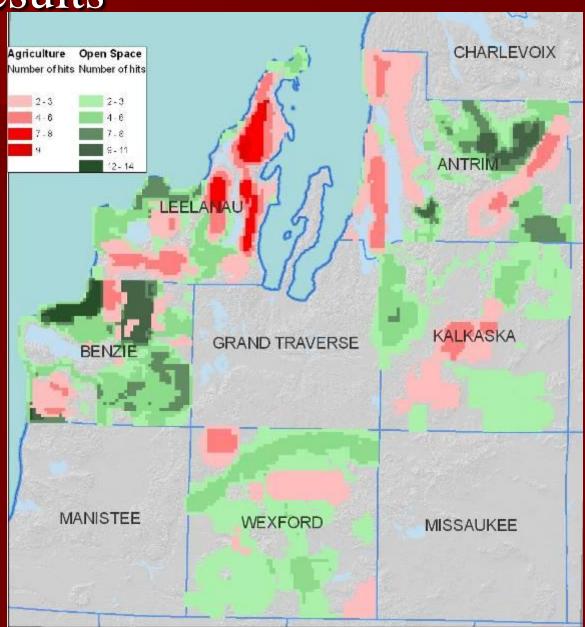
Agricultural Conservation Areas



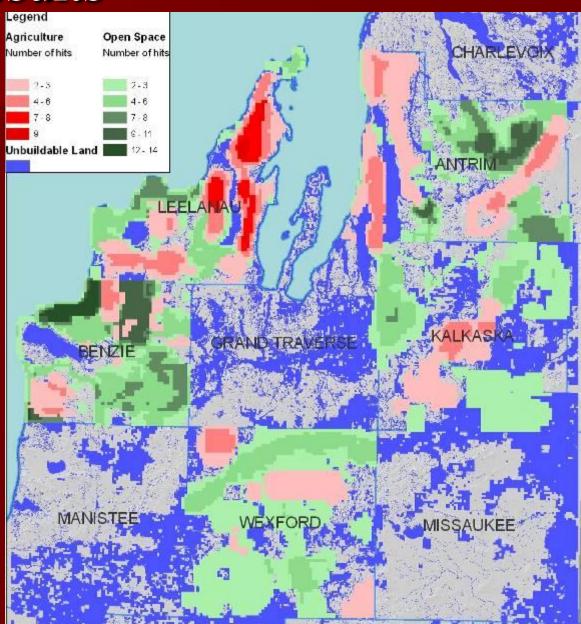
Open Space Conservation Areas



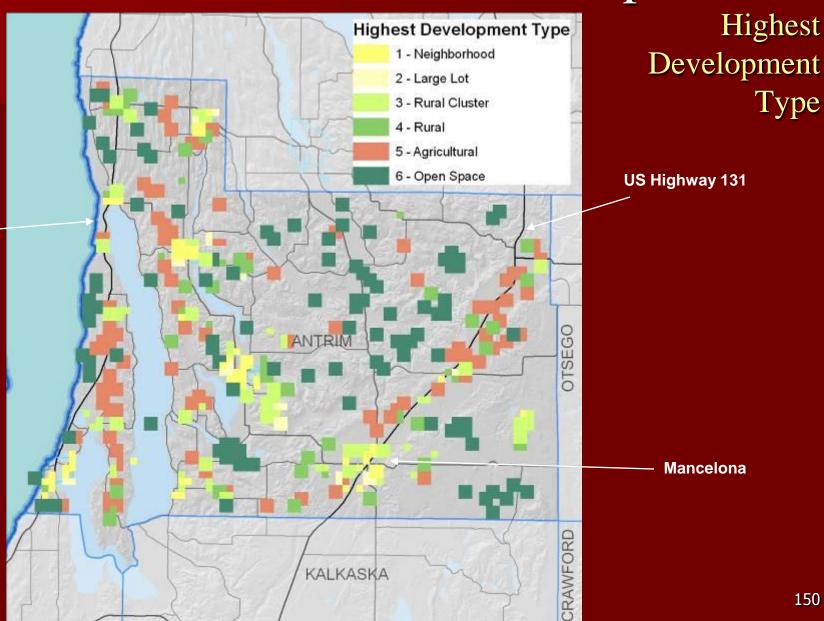
Agriculture + Open Space Areas



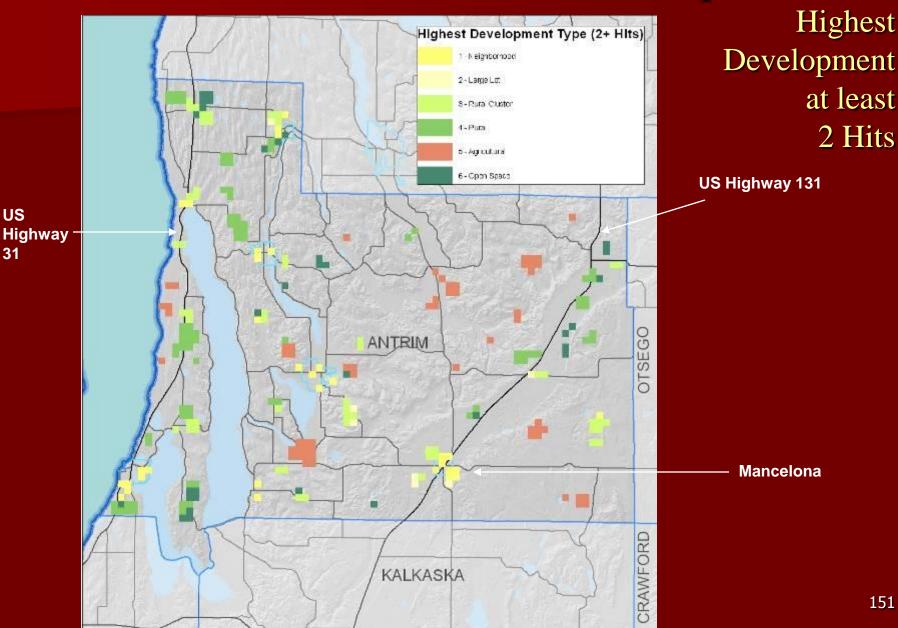
Agricultural+
Open Space
Areas &
Constrained
Land



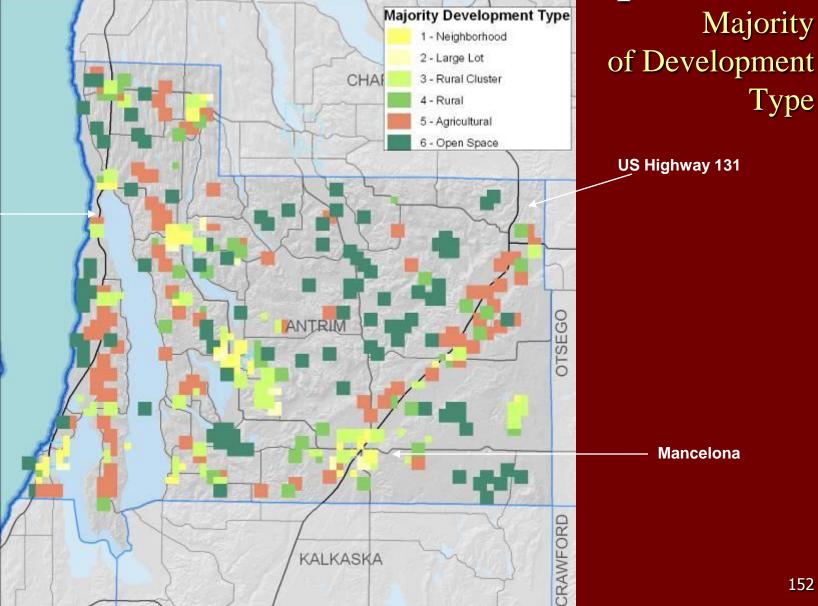
### Antrim County



US Highway ' 31



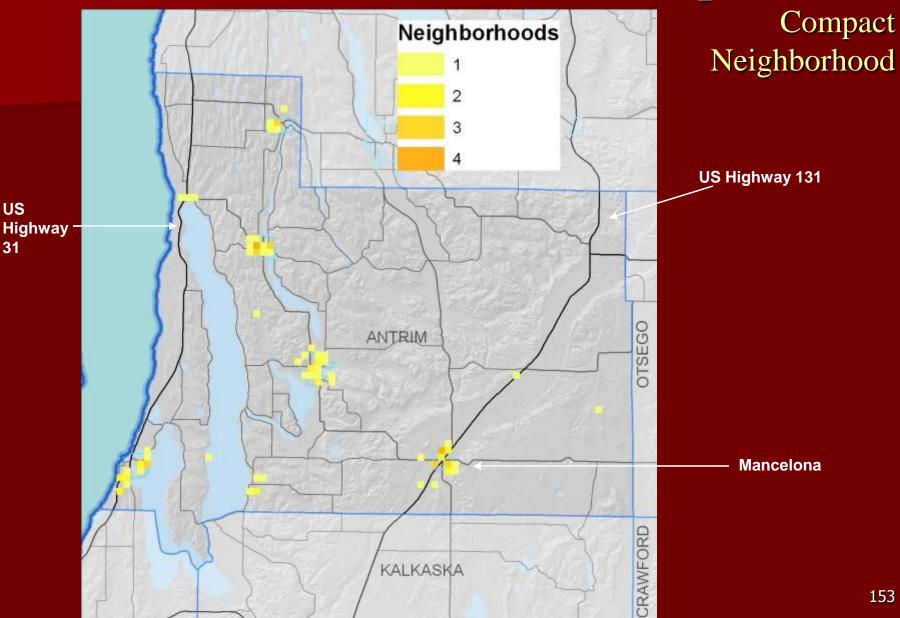
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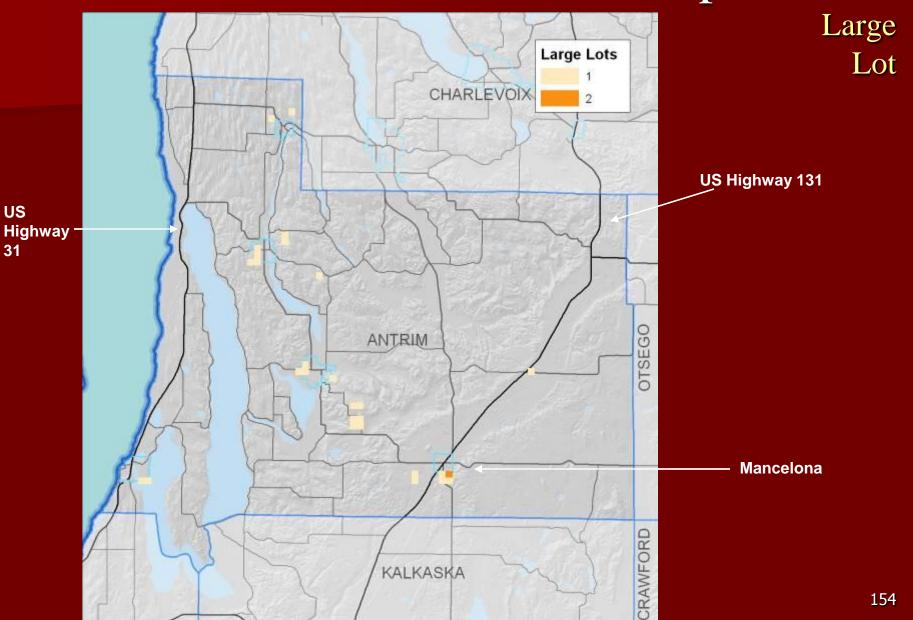
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31

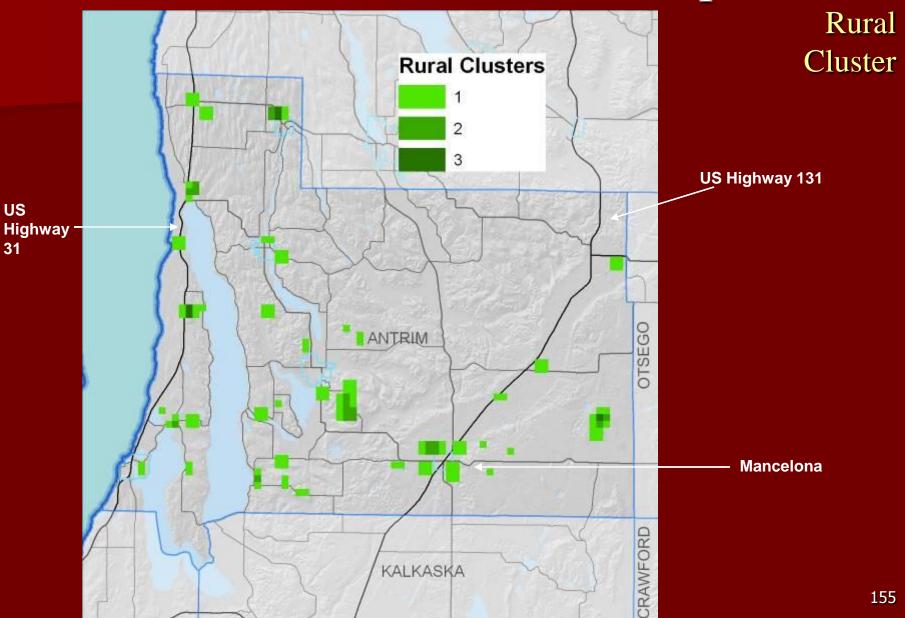
Highway '



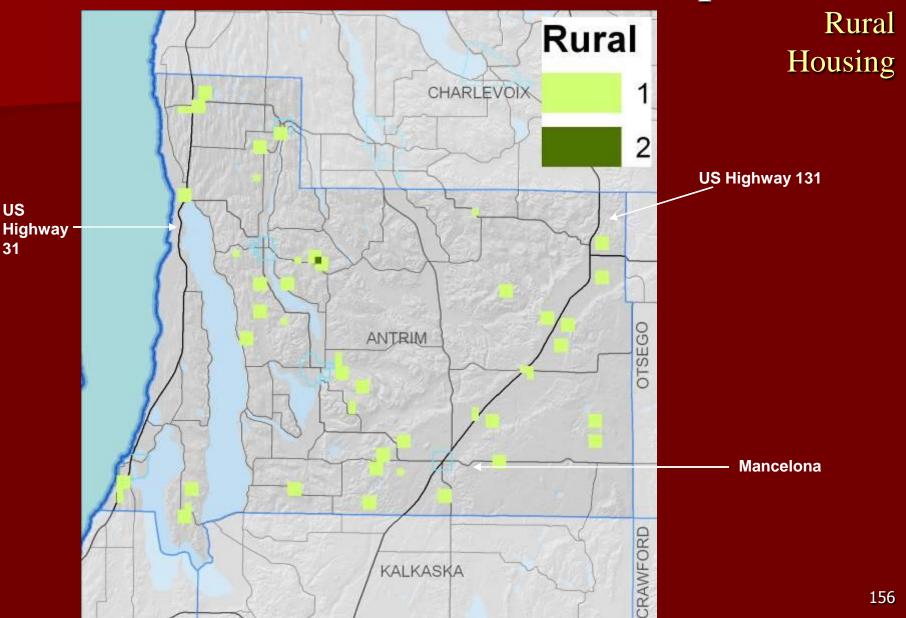
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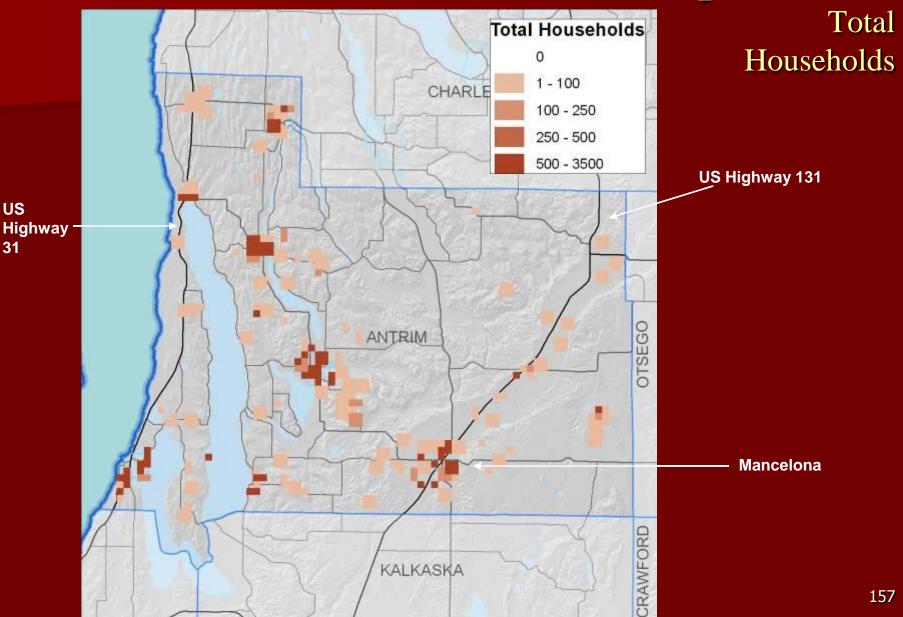
US



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US



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