

ON TO 2050

Alternative Futures for Committee Consideration

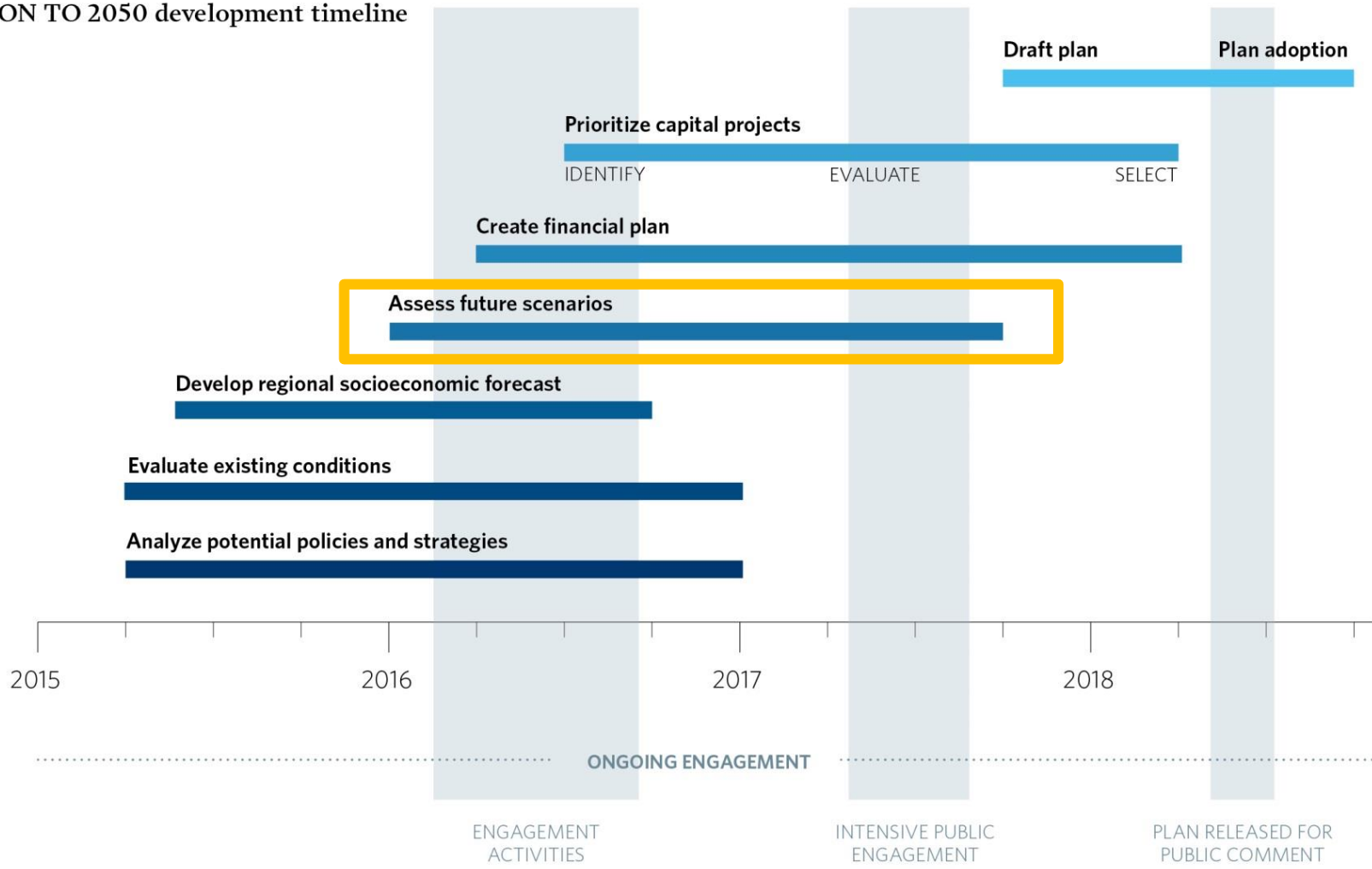
October 19, 2016

Agenda

- I. What is Alternative Futures?
- II. Development of futures
- III. Introduction to futures
- IV. Background trends
- V. Next steps

ON TO 2050 Development Process

ON TO 2050 development timeline



What is Alternative Futures?

- Tool that provides a framework to
 - Understand trends
 - Assess policies and strategies
- Vehicle for education and discussion
- Macro level focus
 - Prepare
 - Mitigate
 - Capitalize
- Prioritize strategies benefitting multiple futures
- Qualitative research

What is Alternative Futures?

1. In-house working sessions with CMAP staff
 - Goals: Develop initial list of trends representing possible futures
 - Criteria: plausibility, impact, policy links
2. Working session with experts from partner organizations
 - Goals:
 - Prioritize and combine 20 initial trends
 - Assess impacts, likelihood, and connections to broader issues
 - Identify missing trends

Initial list of futures

Environment

1. Intensified climate change impacts
2. Constrained water supply
3. Efficient and resilient energy system

Land Use

4. Transitioning agricultural and natural lands
5. Continued preference for suburban lifestyle
6. Investment in mixed-use centers
7. Smarter, more responsive infrastructure and land use planning

Governance

8. Diminished public resources
9. Politically gridlocked region
10. Tech-enhanced active citizenship
11. More regional planning

Demographics

12. Aging region
13. Diversified region

Regional Economy

14. Economically stratified region
15. Economic restructuring
16. Stagnant regional growth

Transportation

17. Increased freight intermodalism
18. Increase transit use, bicycling, and walking
19. Smarter auto-oriented mobility
20. Driverless vehicles

Alternative Futures for consideration

- Focus research, analysis, and public engagement on 5 futures
- Each future represents...
 - One or more priority trends
 - One or more CMAP policy areas
 - Corresponding CMAP work
 - A possible stand-alone future for the region

Alternative Futures for consideration

- Focus on 5 futures addressing...
 - Land use
 - Mobility
 - Climate change
 - Public resources
 - Regional economy
- In each future, consider...
 - Demographic shifts
 - Proliferation of data and advanced technology

YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

**More people chose
urban living?**

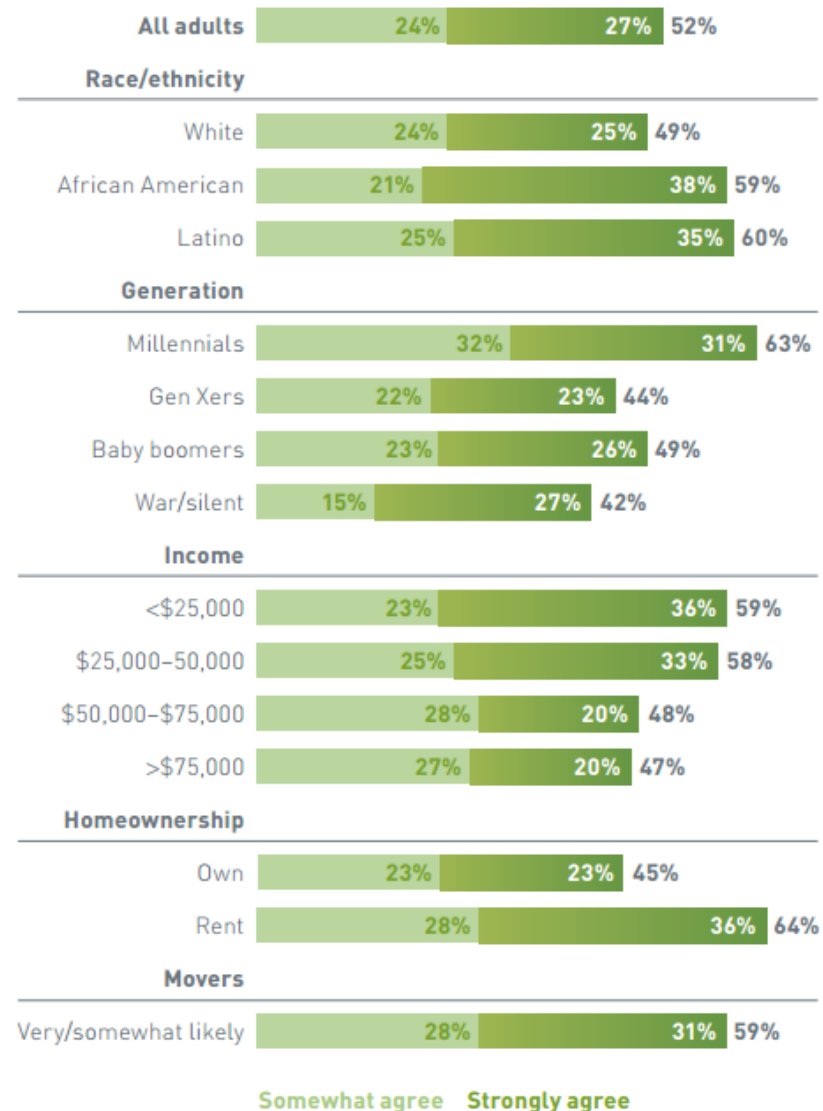
If more people chose urban living...

Greater preference for dense, mixed use areas

Source: America in 2015 by the Urban Land Institute, available at <http://uli.org/wp-content/uploads/ULI-Documents/America-in-2015.pdf>

Preference for Car-Optional Places

Percentage of respondents indicating "somewhat" or "strongly" agree, analyzed by major group



Please tell me if you agree or disagree with each of these statements: [I would like to live in a place where I did not need to use a car very often.] Do you [agree/disagree] strongly or somewhat?

If more people chose urban living...

... what happens to the region?

- Denser **suburban downtowns** and commercial cores grow
- Suburban **office parks** and strip malls decline
- More areas in region with **transit supportive densities**
- Decrease in demand for **driving and parking**
- **Affordable housing** becomes scarcer

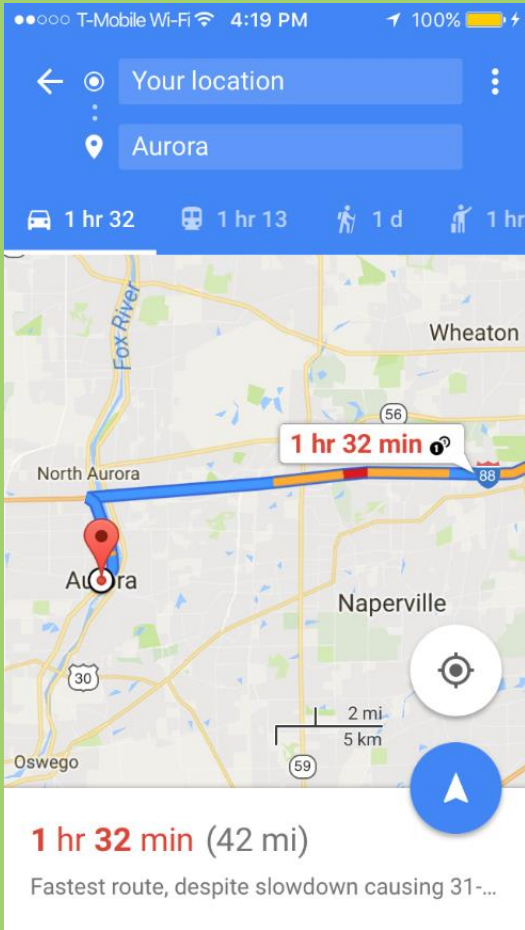
YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

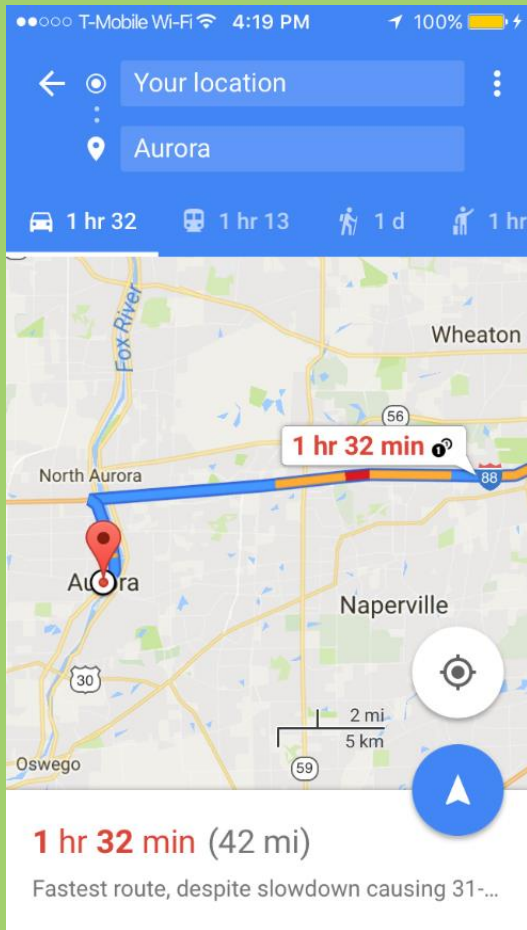
**Technology enabled
greater mobility?**

If technology enabled greater mobility...



Accurate, real-time
information

If technology enabled greater mobility...



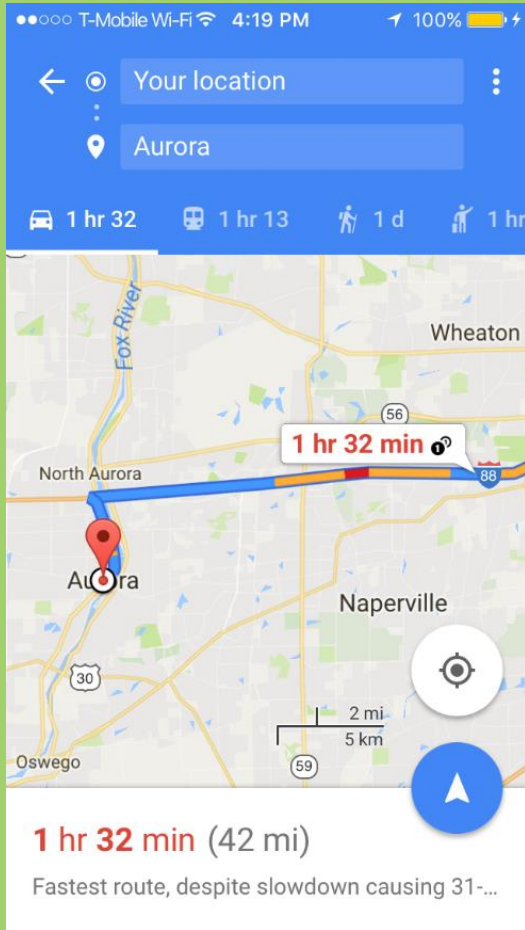
Accurate, real-time
information

A screenshot of a mobile application displaying 'Next Delivery Times'. The title is 'Next Delivery Times' in bold black text. Below the title, a note states 'Prices listed are for orders above \$35 per store. [Learn more about pricing.](#)'. The table is divided into two sections: 'Today' and 'Tomorrow'. Each section lists delivery time slots and their corresponding prices. The background of the slide is green.

Today	
Within 1 hour	\$7.99
Within 2 hours	\$5.99
7pm - 8pm	\$5.99
8pm - 9pm	\$5.99
9pm - 10pm	\$5.99
Tomorrow	
9am - 10am	\$5.99
10am - 11am	\$5.99
11am - Noon	\$5.99

On-demand products
and services

If technology enabled greater mobility...



Accurate, real-time
information

A screenshot of a 'Next Delivery Times' table. The table lists delivery options for 'Today' and 'Tomorrow' with associated prices. The prices are listed for orders above \$35 per store.

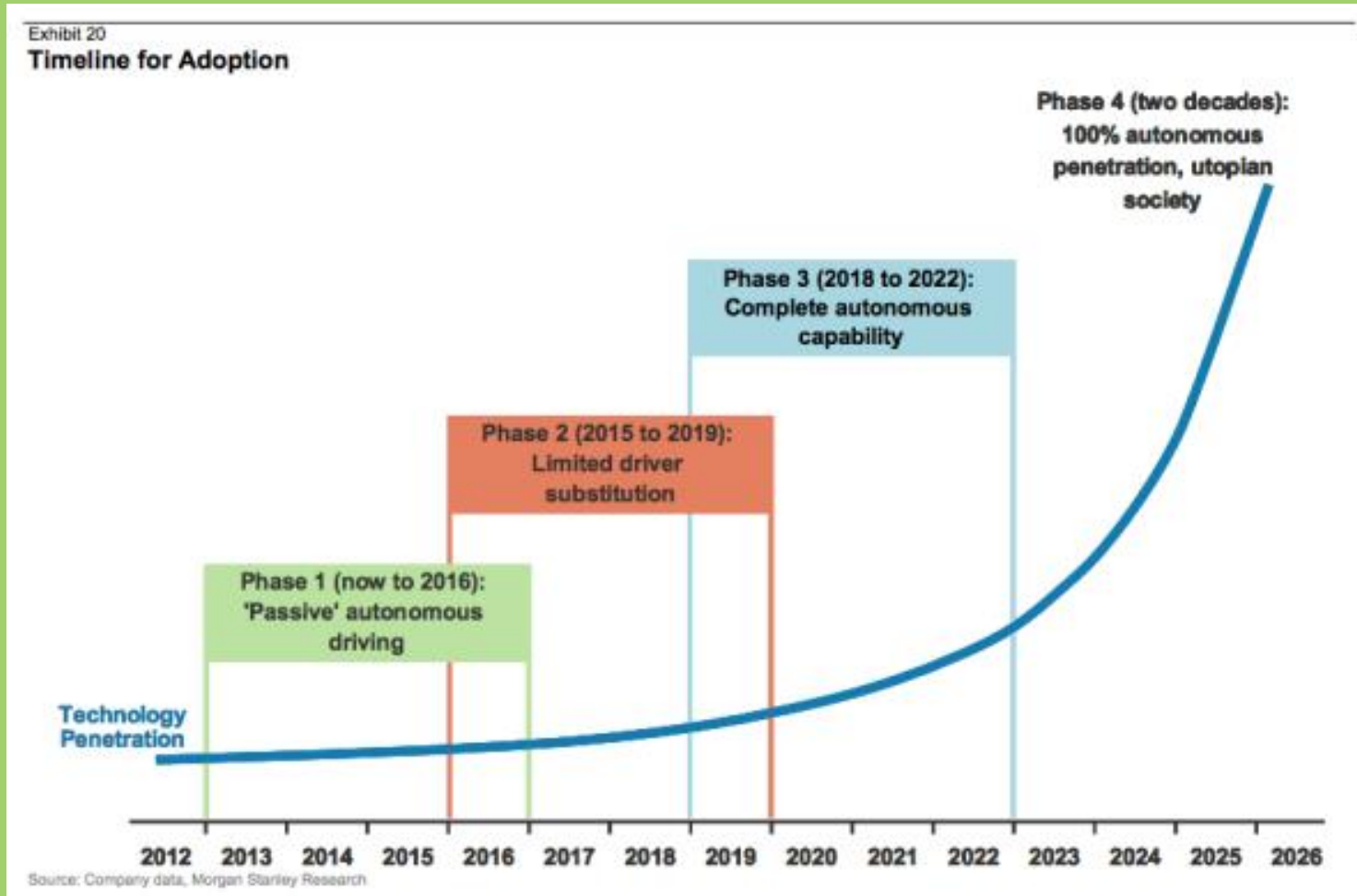
Next Delivery Times	
Prices listed are for orders above \$35 per store. Learn more about pricing.	
Today	
Within 1 hour	\$7.99
Within 2 hours	\$5.99
7pm - 8pm	\$5.99
8pm - 9pm	\$5.99
9pm - 10pm	\$5.99
Tomorrow	
9am - 10am	\$5.99
10am - 11am	\$5.99
11am - Noon	\$5.99

On-demand products and services



High-tech intermodalism

If technology enabled greater mobility...



Driverless cars proliferate

If technology enabled greater mobility...

... what happens to the region?

- **Land use and development** needs change
- **Freight traffic** needs change
- **Access** to technology unequal
- **Cost of driving** decreases
- **Suburban** edge grows

YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

**Climate change
impacts intensified?**

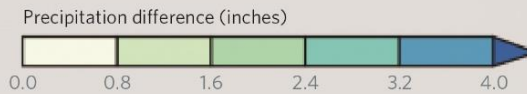
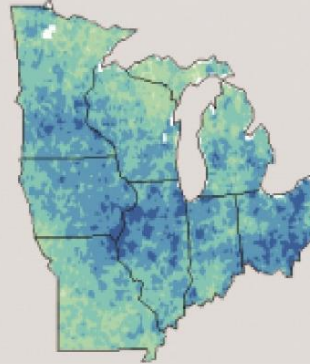
If climate change impacts intensified...

More floods, droughts, and extreme temperatures

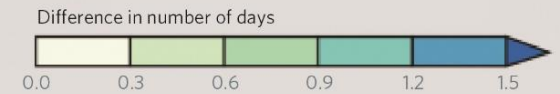
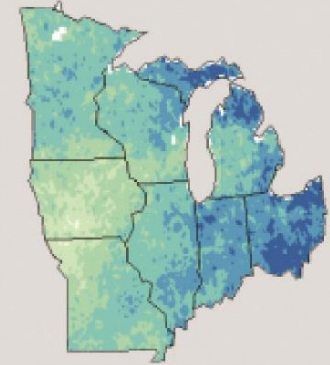
Projected precipitation changes by 2041-2070

Source: National Oceanic and Atmospheric Administration National Climatic Data Center, Cooperative Institute for Climate and Satellites, North Carolina.

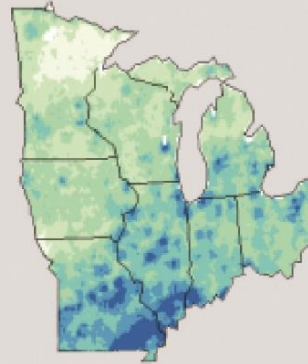
Average precipitation



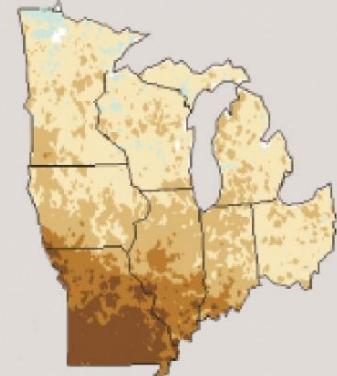
Heavy precipitation



Wettest 5-day total



Consecutive dry days



If climate change impacts intensified...

... what happens to the region?

- **Habitats** and **agricultural** zones shift
- **Infrastructure** strained
- Increase **relocation** to Chicago
- **Vulnerable** residents disproportionately impacted
- **Energy** systems become more resilient

YEAR: 2050

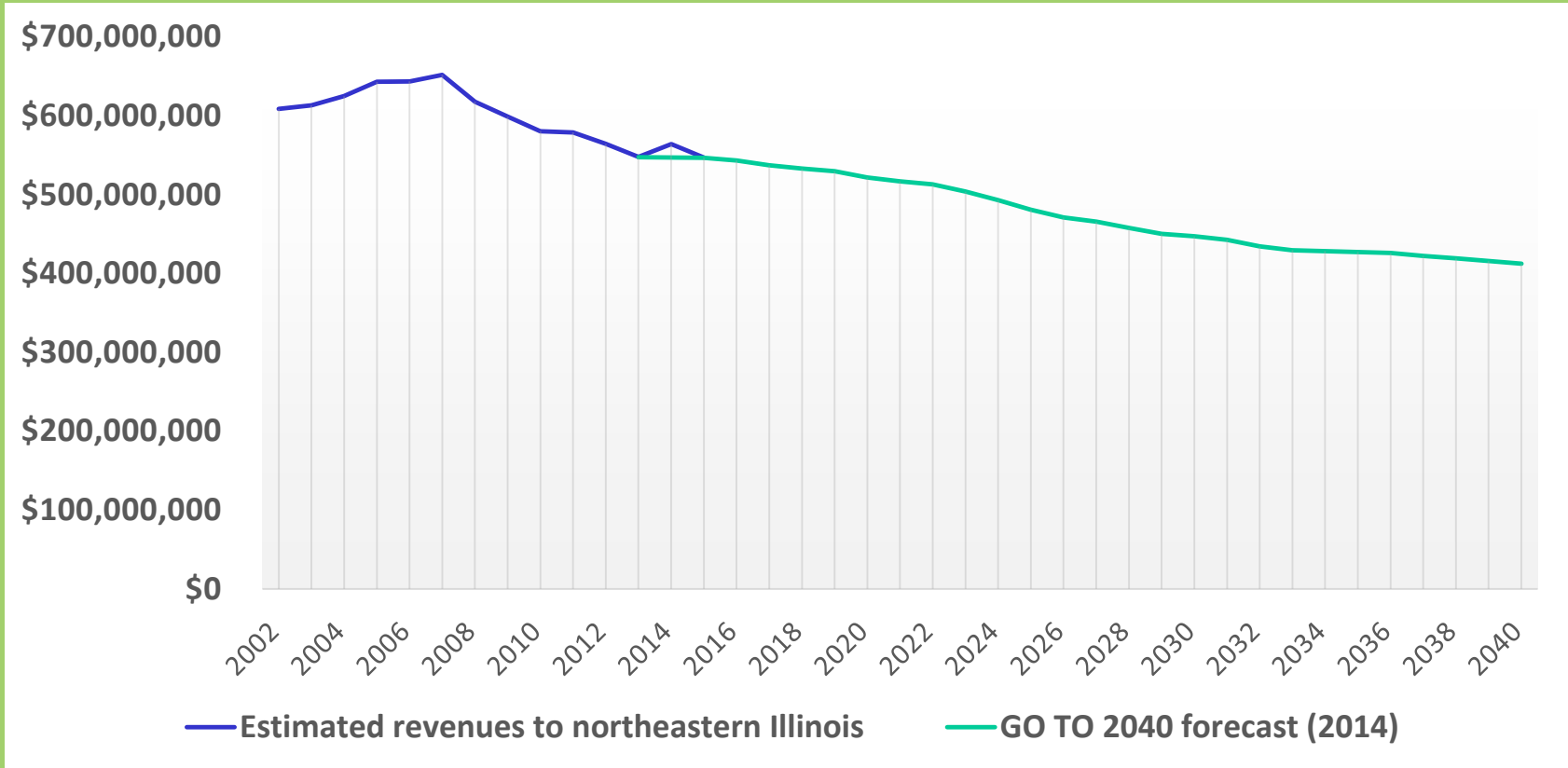
PLACE: Chicago region

What would happen to our region if....

**Public resources
are diminished?**

If public resources diminished ...

State motor fuel tax revenue to northeastern Illinois, estimated revenues compared to the GO TO 2040 forecast, 2002-2040



Source: GO TO 2040 Financial Plan for Transportation, 2014 and Chicago Metropolitan Agency for Planning analysis of Illinois Department of Transportation data

MFT forecasted to decline at the current rate

If public resources diminished...

... what happens to the region?

- **Service and infrastructure** O&M negative impacted
- Greater reliance on **local revenues**
- **Cross-cutting** programs
- More transparency, more **efficiency**
- **Intergovernmental** cooperation
- More distinction between “haves” and “**have-nots**”

YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

**Economic
restructuring
continued?**

If economic restructuring continued...

Serviced-based economy

FASTEST GROWING OCCUPATIONS, SOME POSTSECONDARY EDUCATION REQUIRED

These fast-growing occupations require some postsecondary education, but less than a bachelor's degree, and have above-average pay.

		EMPLOYMENT CHANGE		MEDIAN ANNUAL WAGE, 2015
		Number of new jobs, in thousands	Percent change in employment	
Wind turbine service technicians	4.8		108.0%	\$51,050
Occupational therapy assistants	14.1		42.7%	\$57,870
Physical therapist assistants	31.9		40.6%	\$55,170
Commercial divers	1.6		36.9%	\$50,470
Web developers	39.5		26.6%	\$64,970

Source: U.S. Bureau of Labor Statistics

bls.gov

If economic restructuring continued... ?

... what happens to the region?

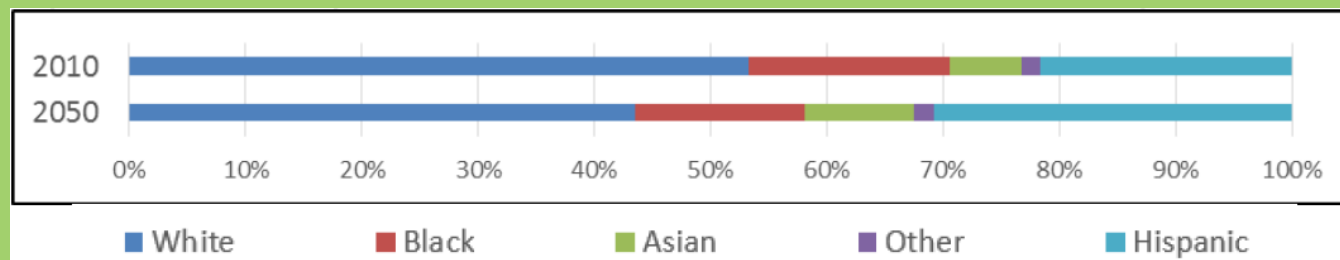
- Demand for **higher skilled** workers
- Unemployment increases in **lower skilled** workforce
- **Suburbanization** of poverty
- **Historically marginalized** communities continue to suffer
- Global leader in **freight and logistics**

Demographic shifts and Data

In all futures, CMAP region is...

- More diverse
- Older
- Proliferated with data and advanced technology

Current and forecasted race/ethnicity distribution in the CMAP region, 2010 and 2050



Next steps

- | | |
|---------------------------|--|
| October 2016 | Collect feedback on recommended alternative future trends |
| Nov. 2016 – March 2017... | Develop alternative futures
Identify and prioritize strategies <ul style="list-style-type: none">• Trend specific strategies• Universal strategies Prepare for public outreach |
| April – August 2017 | Finalize outreach plan
Release trends apps and Metroquest
Host public workshops on alternative futures |

ONTO2050

Questions?

Elizabeth Oo
EOo@cmap.illinois.gov

@ONTO2050 #2050BigIdeas
onto2050@cmap.illinois.gov
www.cmap.illinois.gov/onto2050