

ON TO 2050

Alternative Futures

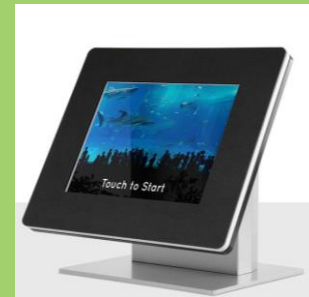
CMAP Human and Community Development Meeting
January 9, 2017

What is Alternative Futures?

- Approach that helps us...
 - Understand trends
 - Assess policies and strategies
- Scenario planning is common – Alternative Futures is new
- Macro level focus
 - Prepare
 - Mitigate
 - Capitalize
- Qualitative research

Alternative Futures and ON TO 2050

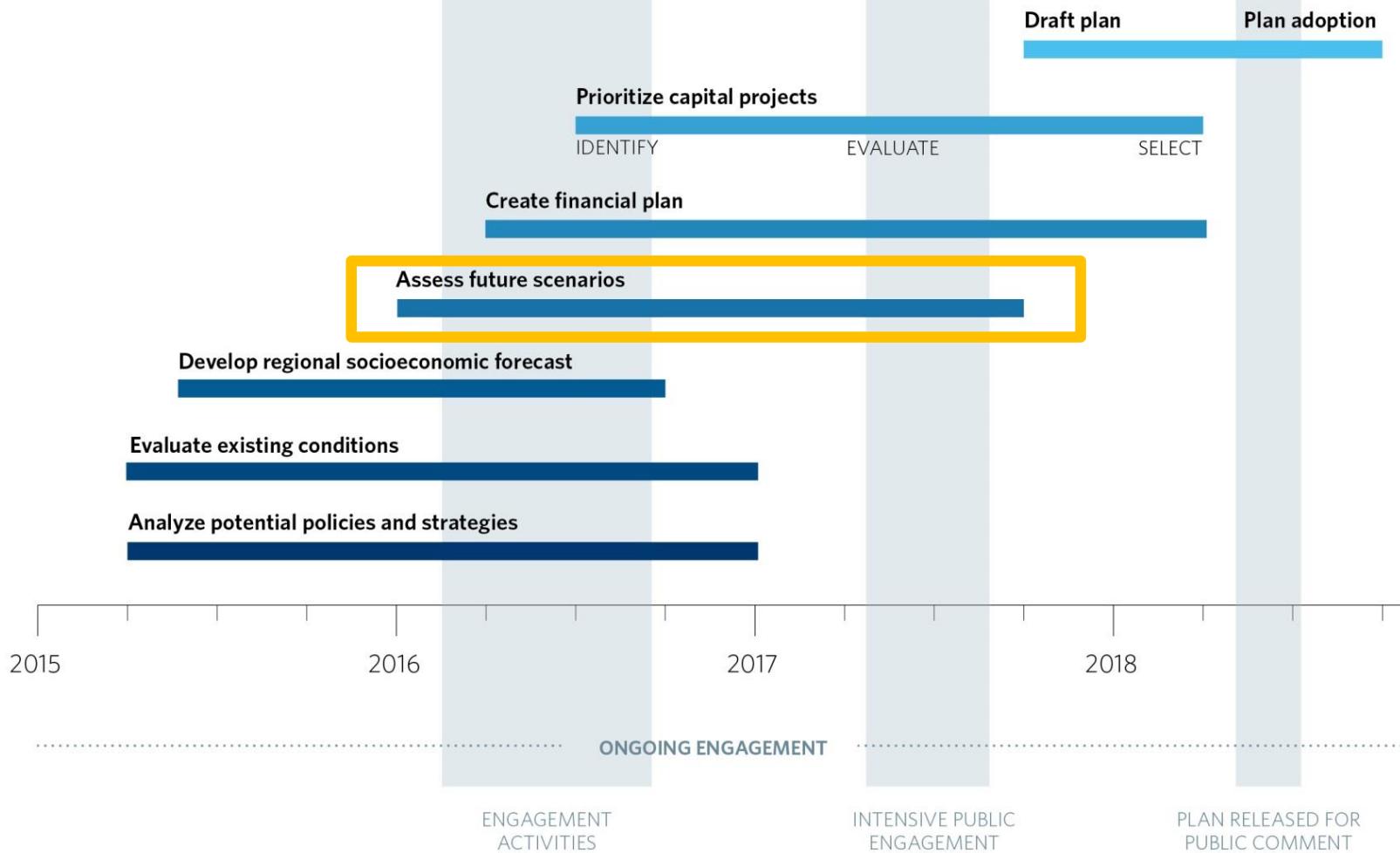
- Prioritize strategies
- Frame issues
- Educate and engage



25 free-standing and tabletop iPads/kiosks

ON TO 2050 Development Process

ON TO 2050 development timeline



Alternative Futures for consideration

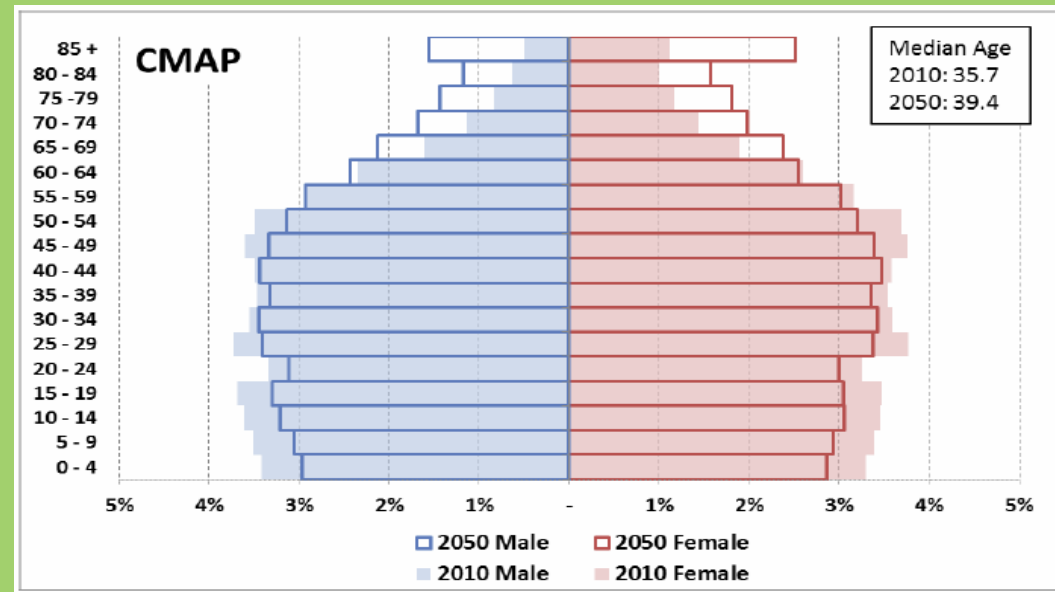
- Research, analysis, and engagement on 5 futures
 - Climate change impacts intensified
 - Economic restructuring continued
 - Public resources are further depleted
 - Technology enabled greater mobility
 - More people chose urban living
- Each future represents...
 - One or more priority trends
 - Corresponding CMAP work
 - Stand-alone future for the region

Alternative Futures for consideration

In ALL futures

- Older and more diverse population
- Increased data and advanced technology

Population in the CMAP region, 2010 and 2050



Source: Louis Berger and CMAP

- Explore disproportionate impacts

Next steps

- Nov. 2016 – March 2017.....
 - Develop alternative futures
 - Identify and prioritize strategies
 - Prepare for public outreach

- April – August 2017
- Release interactive visuals
- Host public workshops

Question for Committee

In each future, **who** will be disproportionately impacted, and **how**?

What can we **do** about it?

YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

**Climate change
impacts intensified?**

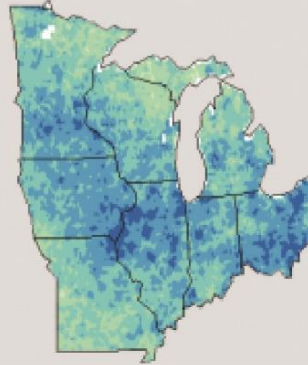
If climate change impacts intensified...

- More frequent and intense storms
- Prolonged drought
- Warmer average temperatures
- More extreme temperatures

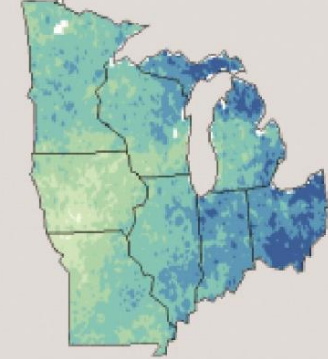
Projected precipitation changes by 2041-2070

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

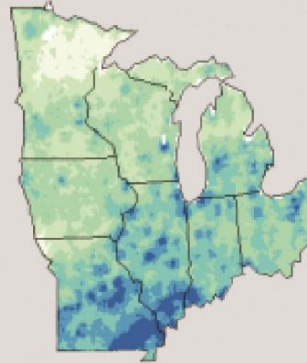
Average precipitation



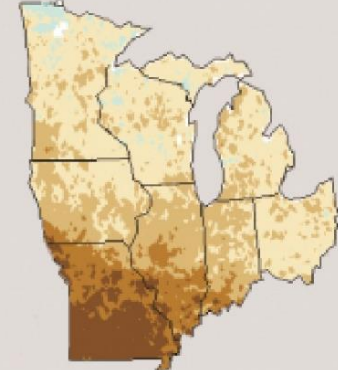
Heavy precipitation



Wettest 5-day total



Consecutive dry days



If climate change impacts intensified...

... what happens to the region?

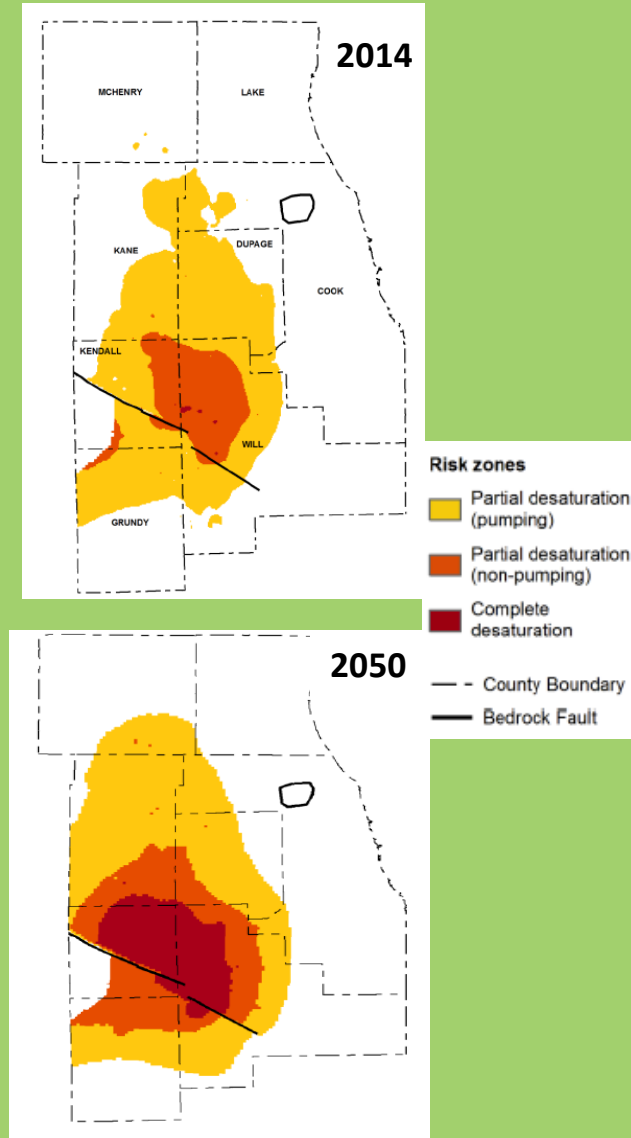
- Costly **property damage** from increased **flooding**
- More frequent combined sewer overflows and **deteriorating water quality**
- **Insufficient groundwater** and/or high quality surface water in some areas of the region
- Changing **habitats** and species
- Disruption of **transportation** networks
- Strained **infrastructure** systems (e.g., energy, water, etc.)
- Regional **population growth**

If climate change impacts intensified...

... who will be disproportionately impacted?

- Lower income residents
- Elderly
- Populations of color
- Residents and businesses in areas...
 - Dependent on groundwater
 - With few transportation options

Areas at risk of desaturation



Strengthen resiliency of residents disproportionately impacted

- Analyze potential climate change impacts to low income or elderly residents or persons of color when **developing plans, analyzing policies, or allocating funds**
- Strengthen ability of lower capacity communities through increased **reinvestment and Interjurisdictional coordination**
- Increase **financial security** and adaptive capacity of households through new economic opportunities
- Develop relationships and **partnerships with local community partners** representing hard to reach populations
- Widely implement **best outreach practices** such as the use of translators or provision of child care and transportation services
- Provide **multiple mobility** options
- Plan and develop to **decrease location-based risk**

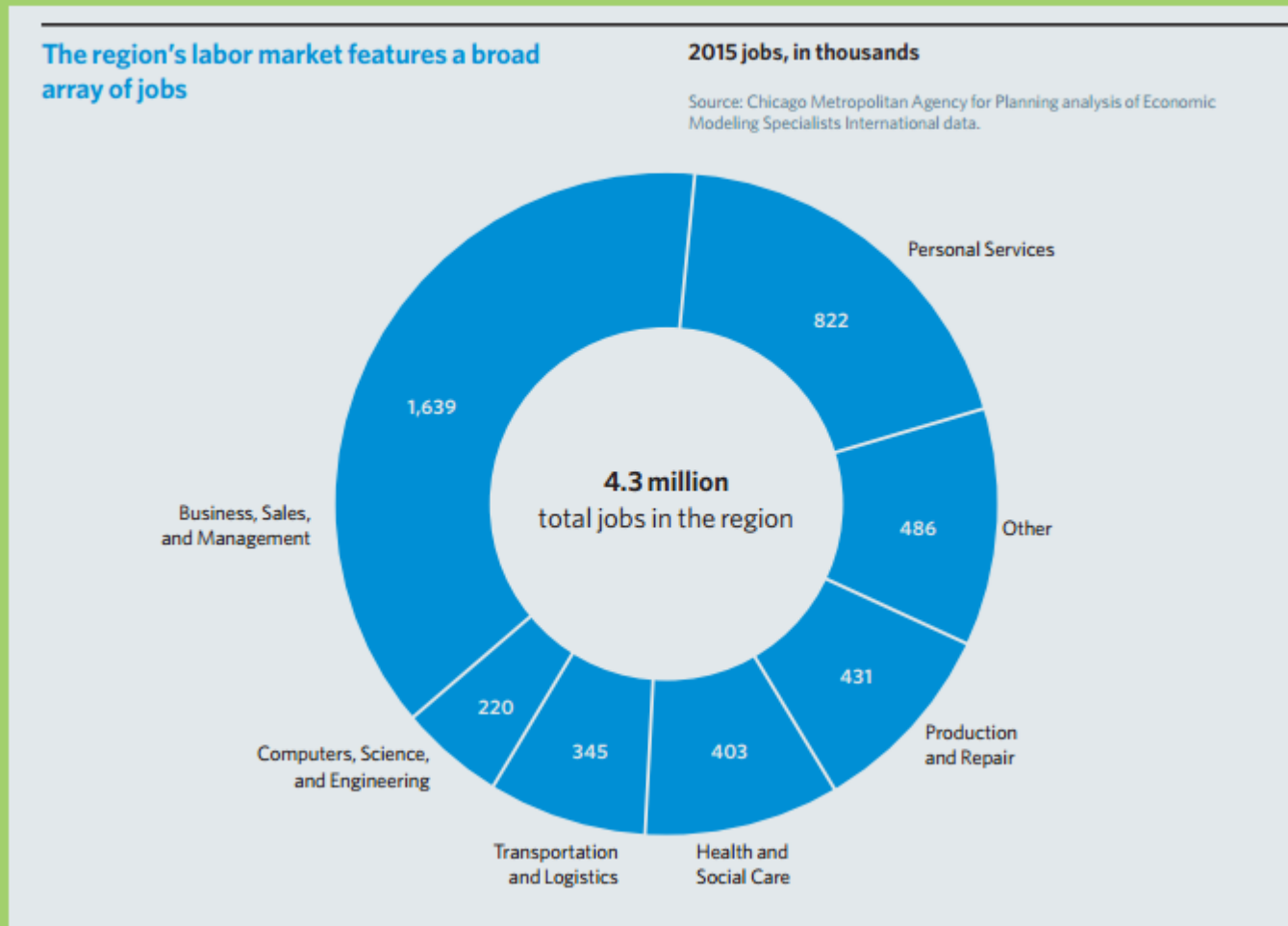
YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

**Economic
restructuring
continued?**

If economic restructuring continued...



- Service-oriented
- Freight and logistics

If economic restructuring continued...

... what happens to the region?

- Demand for **higher skilled** workers
 - More sophisticated freight and logistics
- More college-educated residents
 - Higher prices in urban areas
- More automation

If public resources diminished...

... who will be disproportionately impacted?

- Lower income residents in higher priced areas
- Lower skilled workers

YEAR: 2050

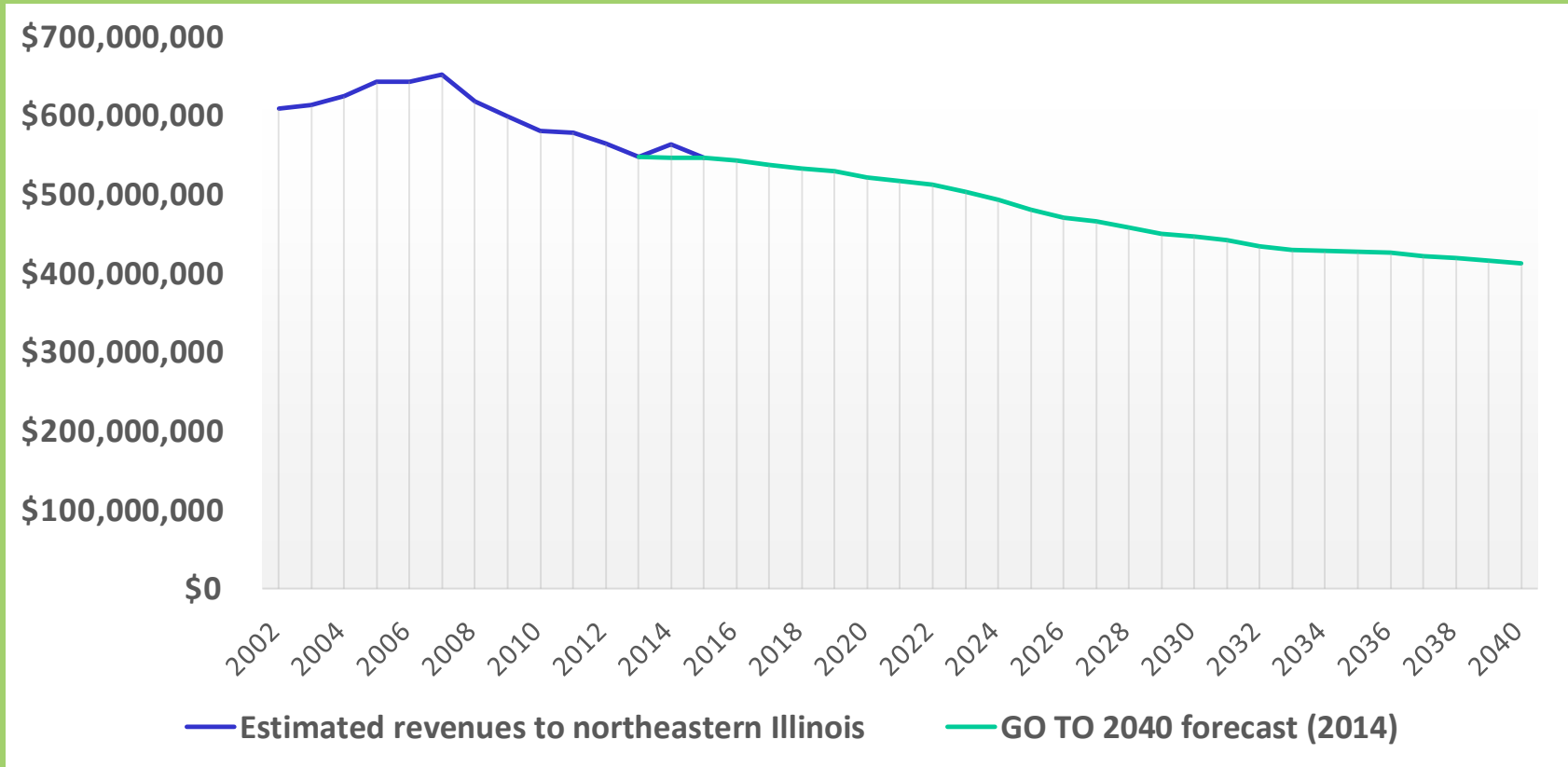
PLACE: Chicago region

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** negatively impacted
- Greater reliance on **local revenues**
- **Cross-cutting** programs
- More transparency, more **efficiency**
- **Intergovernmental** cooperation

If public resources diminished...

... who will be disproportionately impacted?

- Distressed communities will be worse off
 - Present-day challenges exacerbated
 - More distinction between “**haves**” and “**have-nots**”

YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

**More people chose
urban living?**

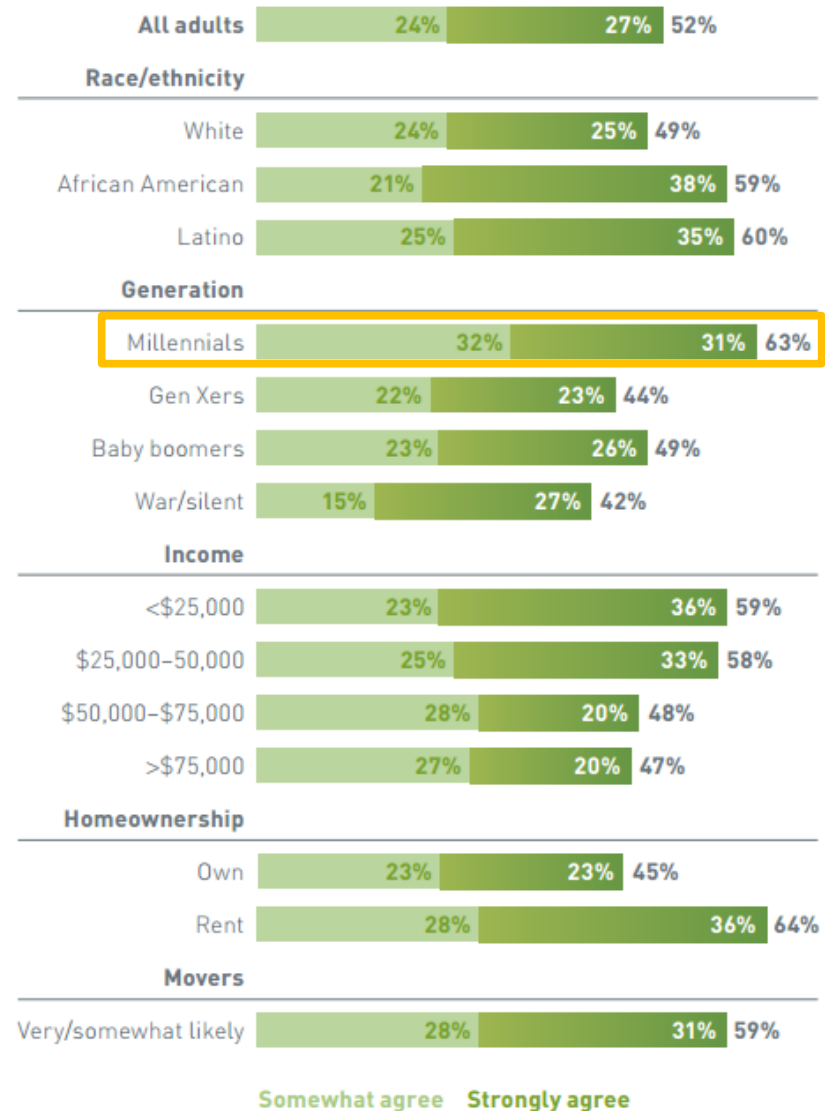
If more people chose urban living...

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
- Auto-oriented **office parks** and strip malls decline
- More areas in region with **transit supportive densities**
- Decrease in demand for **driving and parking**
- **Affordable housing** in urban areas becomes scarcer

If more people chose urban living...

... who will be disproportionately impacted?

- **Lower income households**

Severely burdened renter households in the United States (millions)



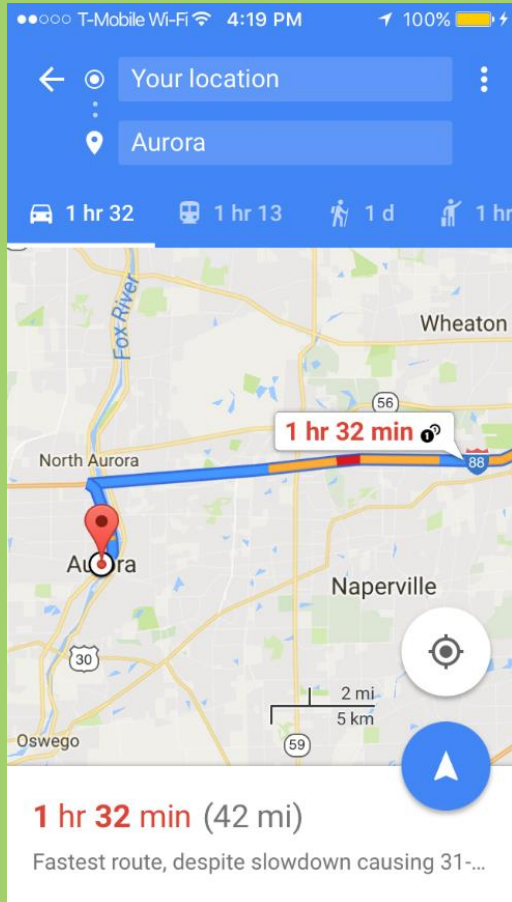
YEAR: 2050

PLACE: Chicago region

What would happen to our region if....

**Technology enabled
greater mobility?**

If technology enabled greater mobility...



Accurate, real-time information

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.' Underneath, the word 'Today' is centered. A table lists delivery time slots and their corresponding prices:

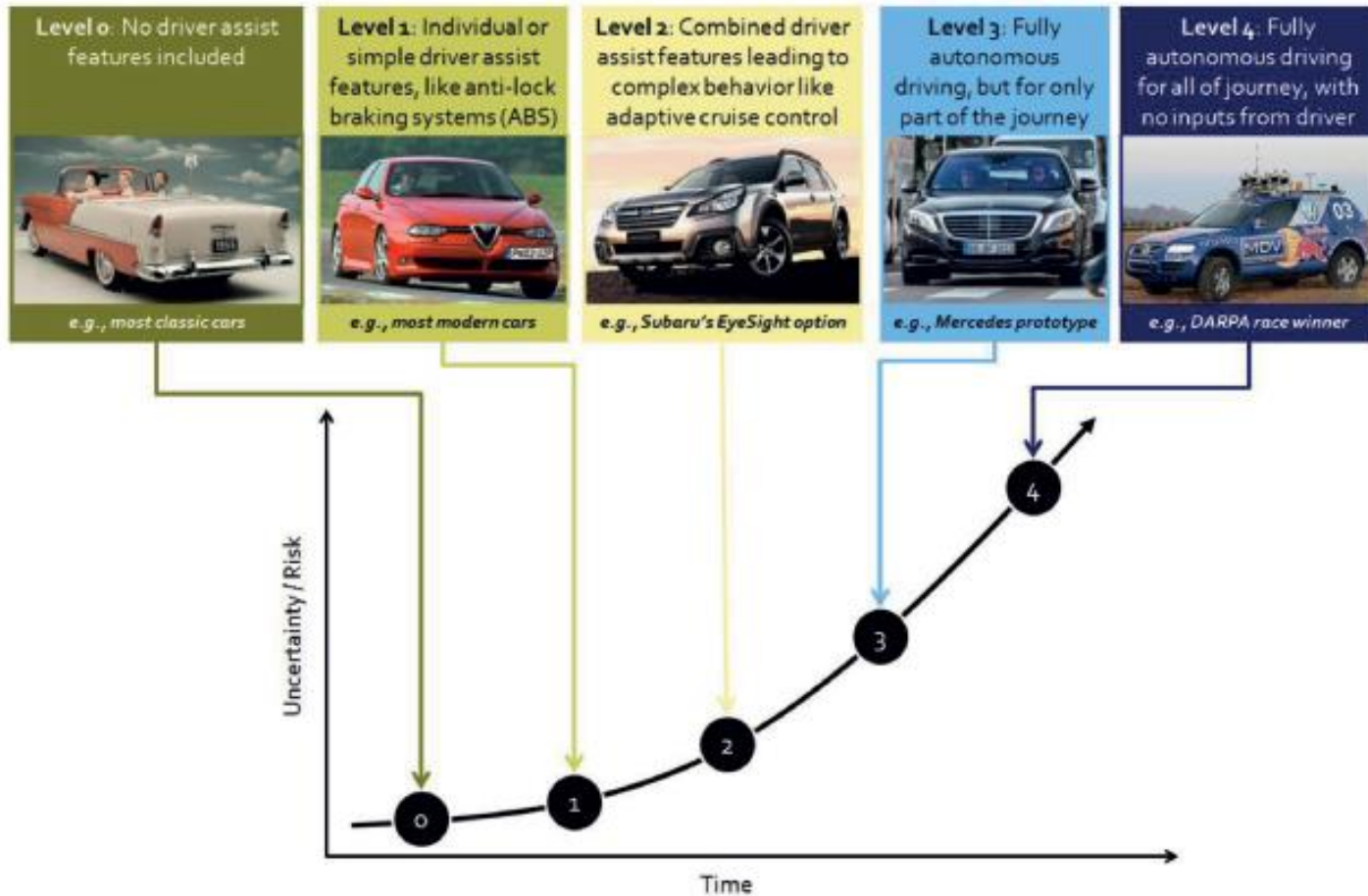
Delivery Time	Price
Within 1 hour	\$7.99
Within 2 hours	\$5.99
7pm - 8pm	\$5.99
8pm - 9pm	\$5.99
9pm - 10pm	\$5.99

On-demand products and services



High-tech intermodalism

If technology enabled greater mobility...



Source: Lux Research - Set Autopilot for Profits: Capitalizing on the \$87 Billion Self-Driving Car Opportunity, April 2014

Driverless vehicles proliferate

If technology enabled greater mobility...

... what happens to the region?

- **Parking and street design** needs change
- **Freight traffic and space** demands increase
- **Access** to technology unequal
- **Cost of driving** decreases
- **Suburban** edge grows
- **Transit** becomes a more competitive market

If technology enabled greater mobility...

... who will be disproportionately impacted?

- People without **access** to technology

Percent of households by income with dial-up or broadband internet, 2015



ONTO2050

Questions?

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