

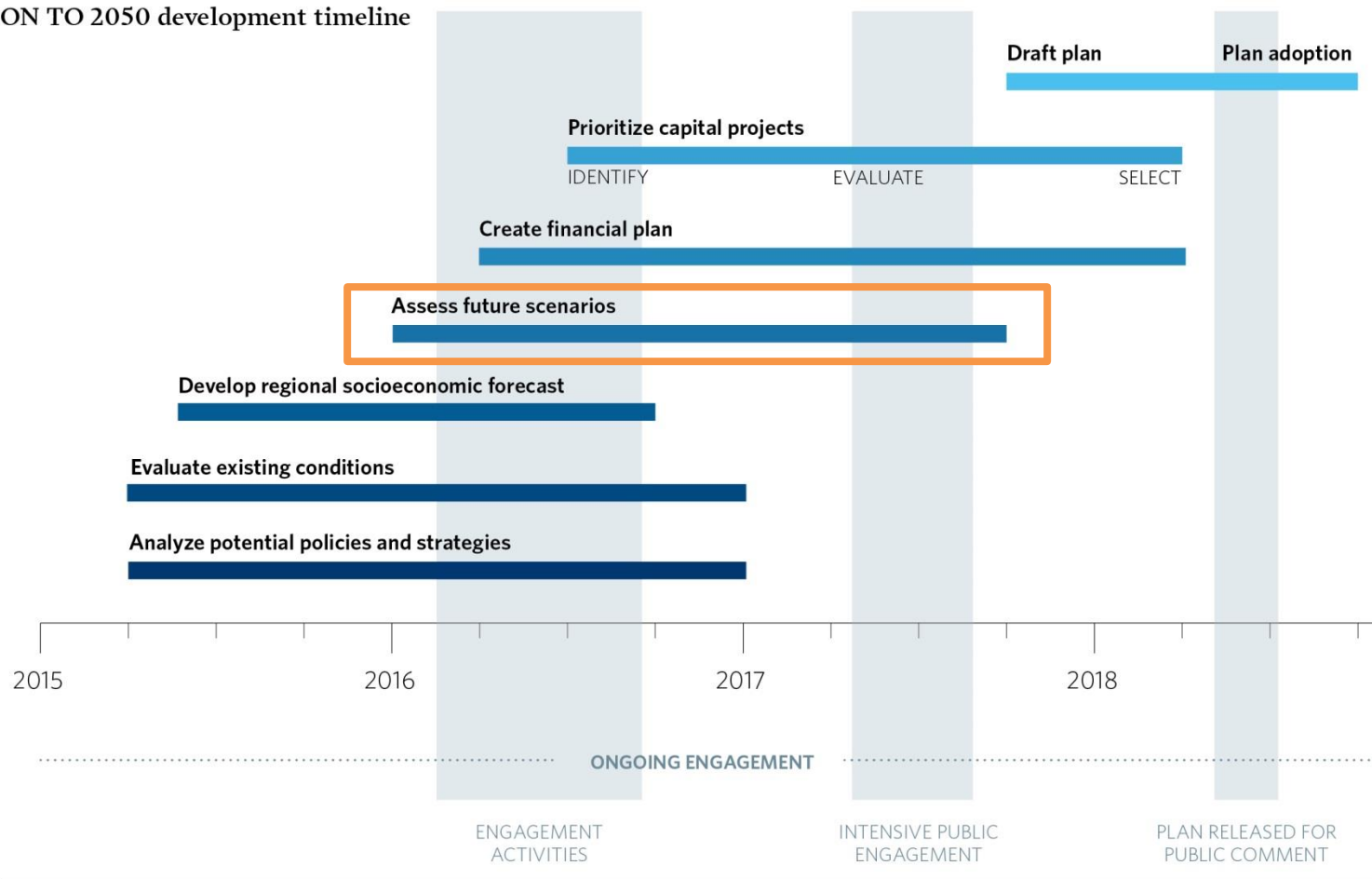
ON TO 2050

Alternative Futures:
Intensified climate impacts
and
Increased preference for
walkable, mixed use communities

January 18, 2017

ON TO 2050 Development Process

ON TO 2050 development timeline



Five alternative futures

- In 2050, what would happen to our region if...
 - Climate change impacts intensified?
 - More people chose mixed use, walkable neighborhoods?
 - Technology enabled greater mobility?
 - Public resources are further depleted?
 - Economic restructuring continued?

LESS PUBLIC RESOURCES

INNOVATIONS IN TRANSPORTATION

CHANGING CLIMATE

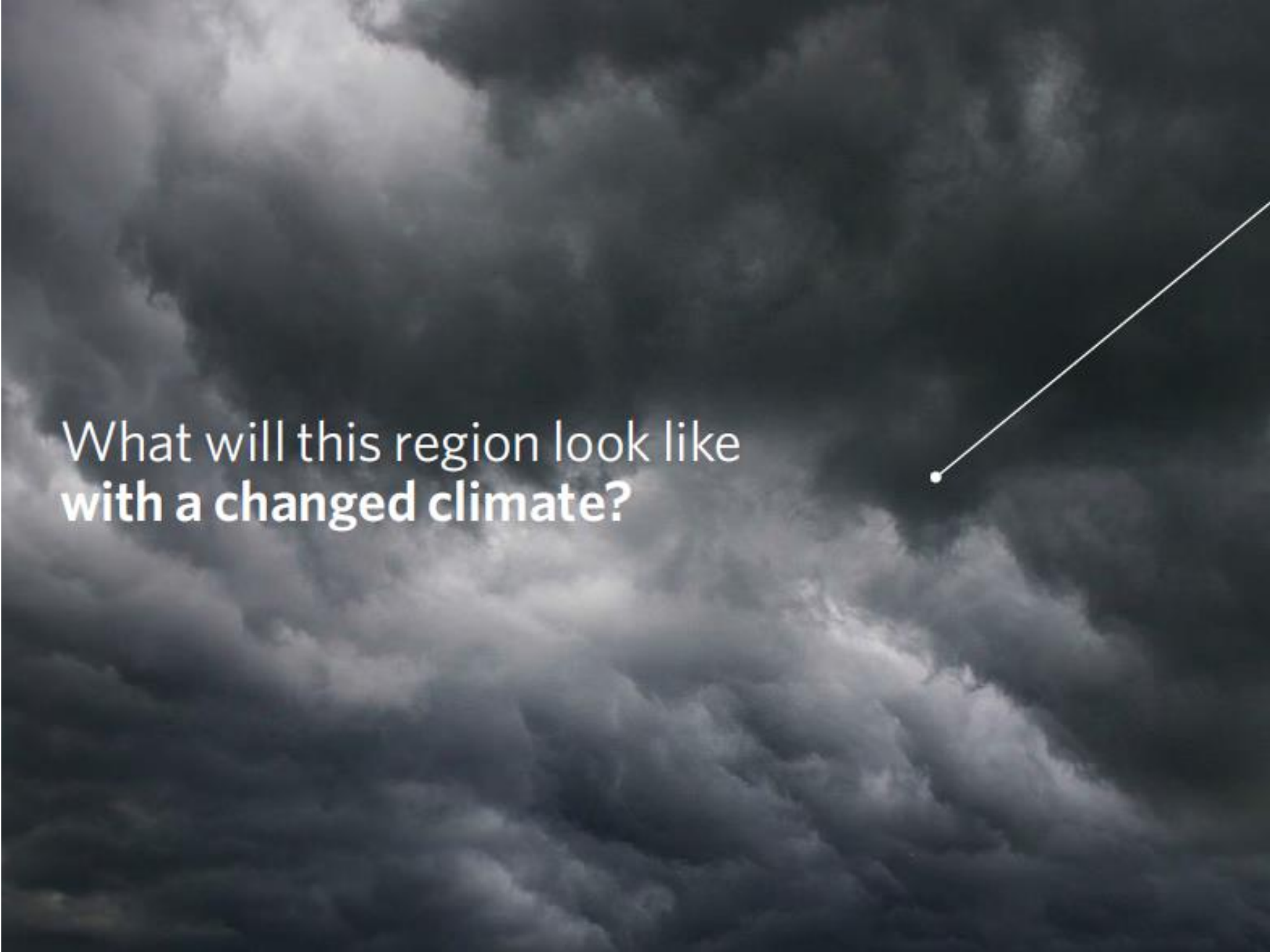
CHANGING ECONOMY

MORE PEOPLE LIVING IN URBAN AREAS

For each future...

- **Memo** that outlines key aspects of the future
 - Driving trend
 - Impacts
 - Strategies
- **Interactive kiosk** to be used for education and public engagement
- **MetroQuest** survey for stakeholder engagement

Final memo: cross-cutting strategies across each future



What will this region look like
with a changed climate?

Key Driver and Impacts

By 2050, 28% increase in greenhouse gas emissions causes...

More intense storms and drought

- Increase in **annual precipitation** of 20-30% by 2100
- More frequent **heavy storms**
- Wetter winters and **drier summers**

Warmer average temperatures

- Temperatures increase between **3-5 degrees** Fahrenheit
- 15 days a year above **100 degrees** Fahrenheit (increase from 0 to 2 days)
- **Heat waves** on par with 1995 happen almost every other year
- More **freeze-thaw cycles** in winter

Outcomes

- Increased **flooding** and **property damage**
- More frequent combined sewer overflows and **deteriorating water quality**
- **Lack of sufficient groundwater** and/or high quality surface water in some areas of the region
- Changing **habitats** and species
- Disruption of **transportation** networks
- Strained **energy** system
- Regional **population growth** and **limited economic gain**

Disproportionately Impacted Communities

- **Lower income populations**
- **Elderly populations**
- **People of color**
- **Residents and businesses**
 - **In areas dependent on groundwater**
 - **In areas with few transportation options**

Strategies

1. **Effectively price** use of energy, natural resources, and public infrastructure
2. Integrate **green infrastructure** at site specific, community, and regional scales
3. Prioritize and protect **critical assets**
4. Explicitly integrate climate change into **planning and development**
5. Provide people with **multiple mobility options**

Strategies

6. Enhance multi-sector, **cross-jurisdictional** planning
7. Lead **data driven** policy and programming analysis and implementation
8. Protect **agricultural assets**
9. Strengthen resiliency of **disproportionately impacted residents**
10. Build **climate literacy** among decision makers and the public
11. Capitalize on **new economic opportunities**

What will this region look like in 2050 with increased preference for walkable, mixed use communities?



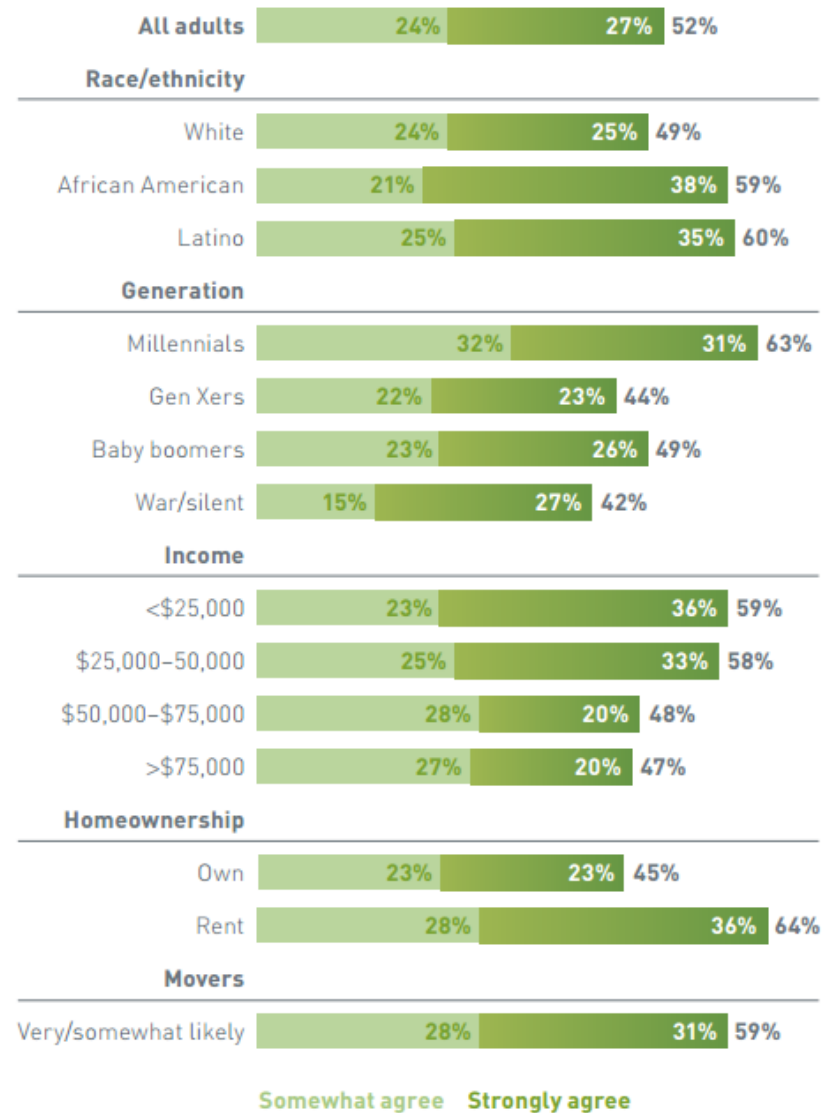
Key Driver

Significantly increased preference for walkable, car-optional, mixed use communities

- Large generations, such as **Baby boomers, millennials**, and the generations that follow them, increasingly prefer to live in walkable, car-optional places.
- **Technology** makes living a car-free lifestyle easier

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?

Impacts

- Increased **mixed use, walkable development**
- **Region becomes more competitive** in national market for firms and workers
- **Revitalization of suburban downtowns** and commercial corridors
- **Decline** in low-density **greenfield development**
- Jobs in **knowledge, service, and retail** locate near transit and in population centers
- Jobs in **industrial, intermodal, and warehousing** locate on regional periphery

Impacts

- Increase in **multimodal transportation**, decline in car use and parking
- More **on-demand delivery** changes retail and freight's role in the urban fabric
- **Cost of housing** in denser, amenity-rich neighborhoods **increases**
- **Increasing diversity** in suburbs and disinvested areas well-served by transit
- **Government services** provided more **efficiently** in denser communities
- **Decrease in energy** and natural resource use, greenhouse gas emissions

Disproportionately Impacted Communities

- **Lower income populations** are potentially priced out of mixed-use, walkable communities
- **Workers in manufacturing, warehousing industries** who live in mixed use, walkable communities must still commute long distances by car
- **Auto-oriented suburban communities without downtowns** will experience stagnation or decline

Resources for Strategies

- **Reinvestment and Infill**
- **Lands in Transition**
- **Tax Policy and Land Use**
- **Housing Supply and Affordability**
- **Inclusive Growth**
- **Climate Resilience**
- **Green Infrastructure**
- **Transit Modernization**
- **Municipal Capacity**

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

ONTO 2050

Questions?

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