

ON TO 2050

# Natural Resources Snapshot

November 3, 2016

# What is a snapshot report?

Data-driven existing conditions and trends analysis summarized in a brief graphical report (*italics* = complete)

- Natural resources
- Placemaking
- Local governance and tax policy
- Non-motorized transportation
- Local food
- Transit network
- Highway network
- Infill and TOD
- Freight system
- Demographics
- *Travel behavior trends*
- *Regional economic clusters*



# Purpose of natural resources snapshot

- Lend existing conditions and trends background to environmental topics
- Draw upon and support other ON TO 2050 development work
- Review and update pertinent GO TO 2040 indicators

## Strategy papers

- Green infrastructure
- Climate resilience
- Lands in transition
- Water
- Stormwater
- Energy

## Layers

- Flood risk areas
- Conservation areas
- Climate vulnerability
- Water source protection
- Water quality
- Potential expansion areas
- Access to parks and open space

# Scope

**Phase 1:** Understand and compile ON TO 2050 analyses already in process (Nov. – Dec. 2016)

**Phase 2:** Conduct new analyses for targeted topics TBD (Jan. – Mar. 2017)

**Phase 3:** Draft the snapshot (Apr. – Jun. 2017)

# Proposed areas of exploration

## Climate change

- Higher level trends, impacts, esp. on vulnerable populations; each subsequent section will also consider climate impacts
- Trends in factors that contribute to greenhouse gas emissions, including energy consumption and vehicle miles traveled
- Relationship between increased heat and air quality, air quality mapping, and public health impacts

## Park access

- Trends in park access

# Proposed areas of exploration

## Water resources

- Water source, supply quantity/quality constraints, and demand forecasts
- Assessment of water quality trends via impervious cover, stream impairments, and CSOs
- Wastewater
- Trends and projections in major storm events/flooding
- Identification of stormwater inundation areas; riverine flooding at a minimum, but potentially to also include urban flooding
- Cost and damage from flooding events

# Proposed areas of exploration

## Natural areas

- Trends in consumption of agricultural and natural lands, including isolation and fragmentation
- Biodiversity indicators – habitat types, threatened and endangered species, invasive species, etc.
- Trends in land protection and identification of priority areas for conservation
- Soil composition – hydric soils, agricultural soils, erosion
- Climate impact to migration patterns, hardiness zones, and crop composition



## **CMAP Committees**

- ENR is primary sounding board for this snapshot
- Land Use Committee asked for feedback at key points

## **Future touch points**

- ENR 1/5/17: overview of findings from Phase 1
- ENR 4/6/17: review findings from Phase 2, report outline
- ENR 6/1/17: review draft snapshot

# ON TO 2050

**Feedback**