



Road Network Plan

TOWNSHIP OF ORO-MEDONTE

April 24, 2019



Agenda

- A. Project Understanding
- B. Work Plan
- C. Deliverables
- D. Schedule
- E. Questions





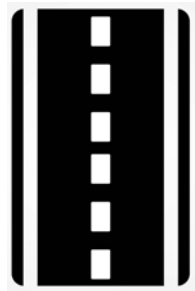
A. Project Understanding

A. Project Understanding



- Evolution of the road system

2007



386 km
hard surface

+

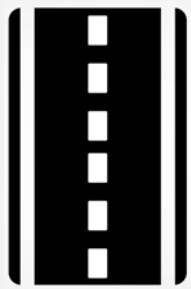


226 km
gravel surface

=

612
km
total

2019



596 km
hard surface

+



16 km
gravel surface

=

612
km
total

The increase in hard surface roads has resulted in:

- additional road maintenance
- increased road safety concerns
- perceived higher travel speeds

A. Project Understanding



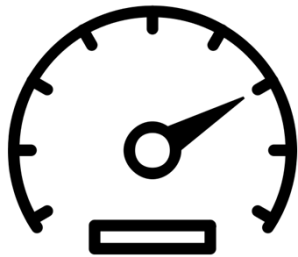
- Character of the road system



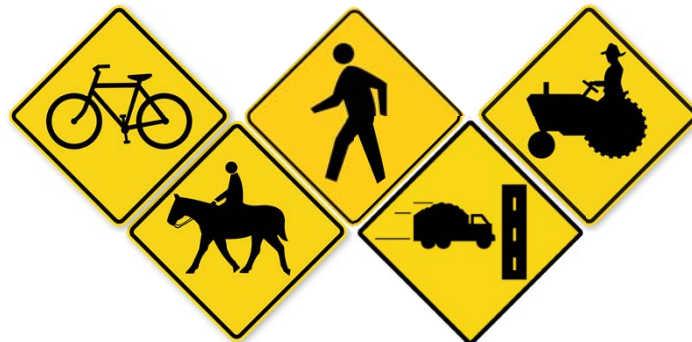
rolling
topography



reduced road &
shoulder widths



increased
travel speeds



other
road users

These elements create challenges to:

- providing a road system
- maintaining a road system to set standards
- ensuring safe traffic operations for all users

A. Project Understanding



- Issue of private roads



privately owned
Township maintained



extent of
maintenance



status of
agreements



consistent
level of service

There is a need for a private road:

- strategy
- policy direction
- defined levels of service

A. Project Understanding



■ Growth in the Township

Population



2011: 20,078 persons

2016: 21,036 persons

+5% growth

Private Dwellings



2011: 7475 units

2016: 9013 units

+21% growth

As per provincial forecasts:

- population to grow +34% over the next 12 years

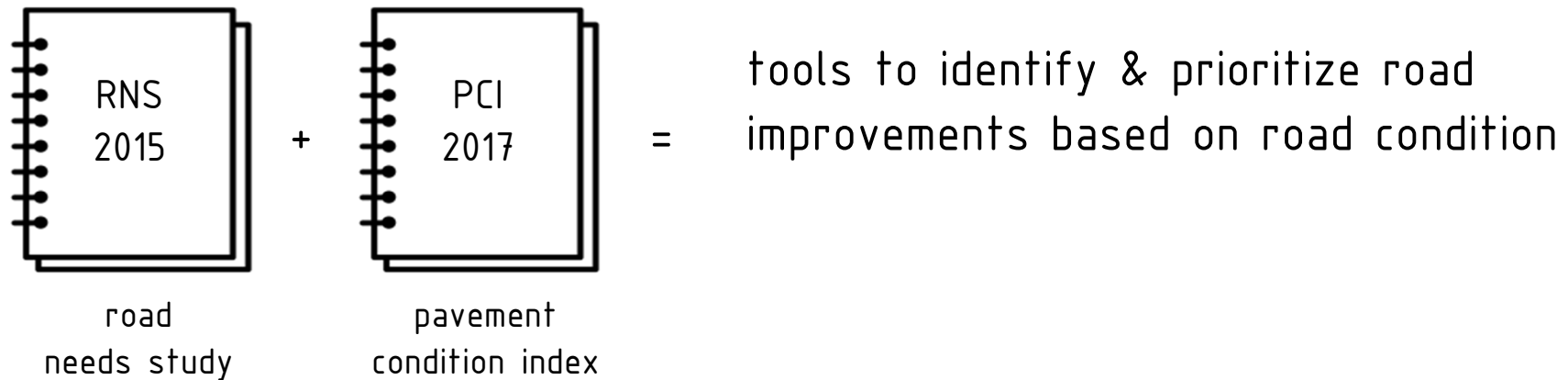
This leads to:

- increased service demands
- need for long-term planning

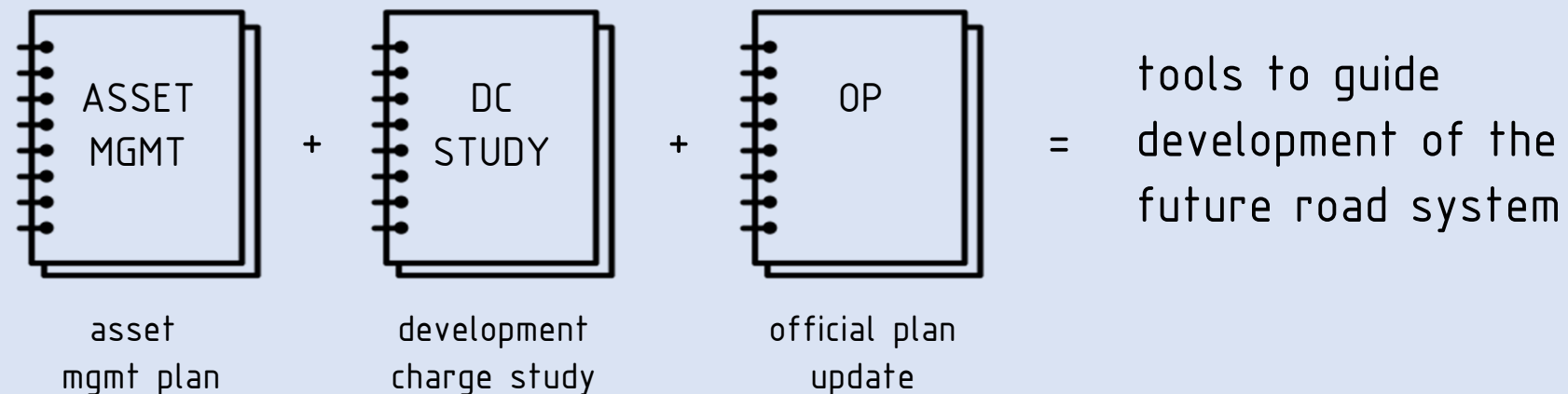
A. Project Understanding



- What has been done do date



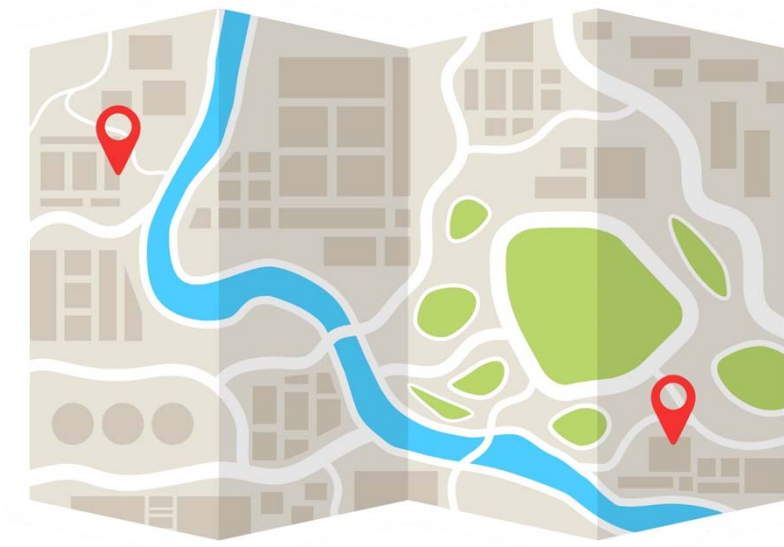
- What will be done in the future



A. Project Understanding



- The Road Network Plan



There is a need to look at the overall road system, beyond its physical condition, to ensure it is meeting current and future needs.

To provide guidance for:

- road policy
- traffic operations
- budget allocation
- level of service prioritization

A. Project Understanding



- Key Policy items

Growth

- impacts of Regional growth

County Roads

- uploading
- downloading

Private Roads

- service levels
- assumption

Risk & Exposure

- travel speeds
- road classification
- other road users

Active Transportation

- sidewalks & trails
- accommodation in standards

Level of Service

- 10 year plans
- funding scenarios

Emergency Detour

- establish EDRs for highway system



B. Work Plan

B. Work Plan



Road Needs Study



Road Standards



Road System & Operations



Project Initiation



Part 1: Project Initiation

- Meet with Township staff
- Compile and review background information
- Initiate dialogue with adjacent municipalities, Simcoe County & MTO
- Presentation to Council



Part 2: Road System & Operations

- Inventory the road system
 - classification (local, collector, arterial)
 - number of lanes
 - active transportation
 - private roads
 - haul routes
- In general, understand how the road system has been developed and is utilized



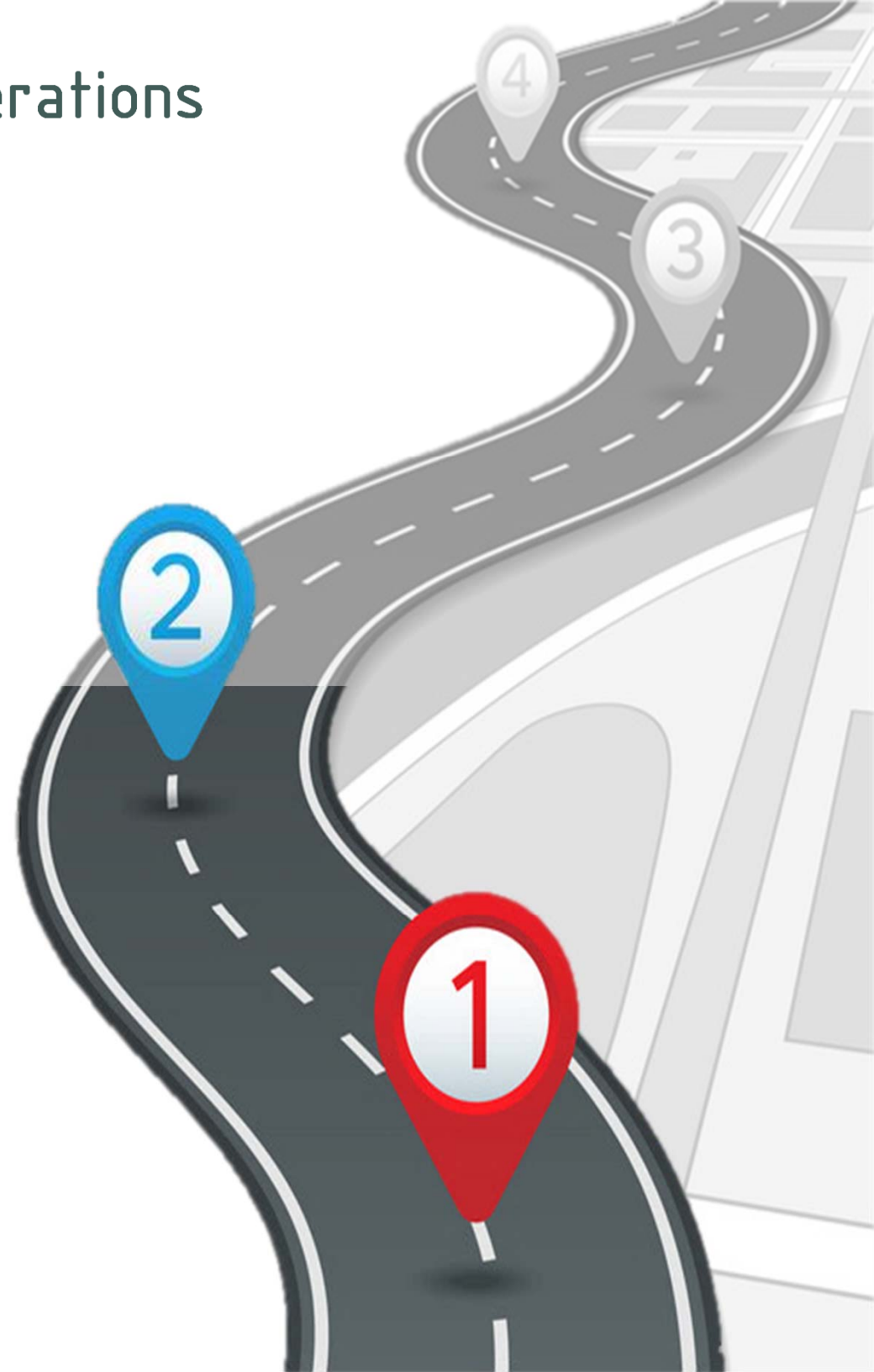
Part 2: Road System & Operations

- Establish current traffic volumes
 - 8 hour counts (8 locations)
 - 24 hour counts (60)
 - 72 hour counts (10)
- Establish travel speeds
 - with 72 hour counts (10)
- Consider cycling activities



Part 2: Road System & Operations

- Review the operations of the road system considering existing traffic volumes
- Establish future traffic volumes
 - general growth in the area
 - specific development growth
- Review the operations of the road system considering future traffic volumes



Part 2: Road System & Operations

- Review travel speeds
 - for select roads, based on speed measures & TAC guidelines
 - for the overall Twp (50km/h vs 80 km/h)
 - provide a Twp-wide speed review process



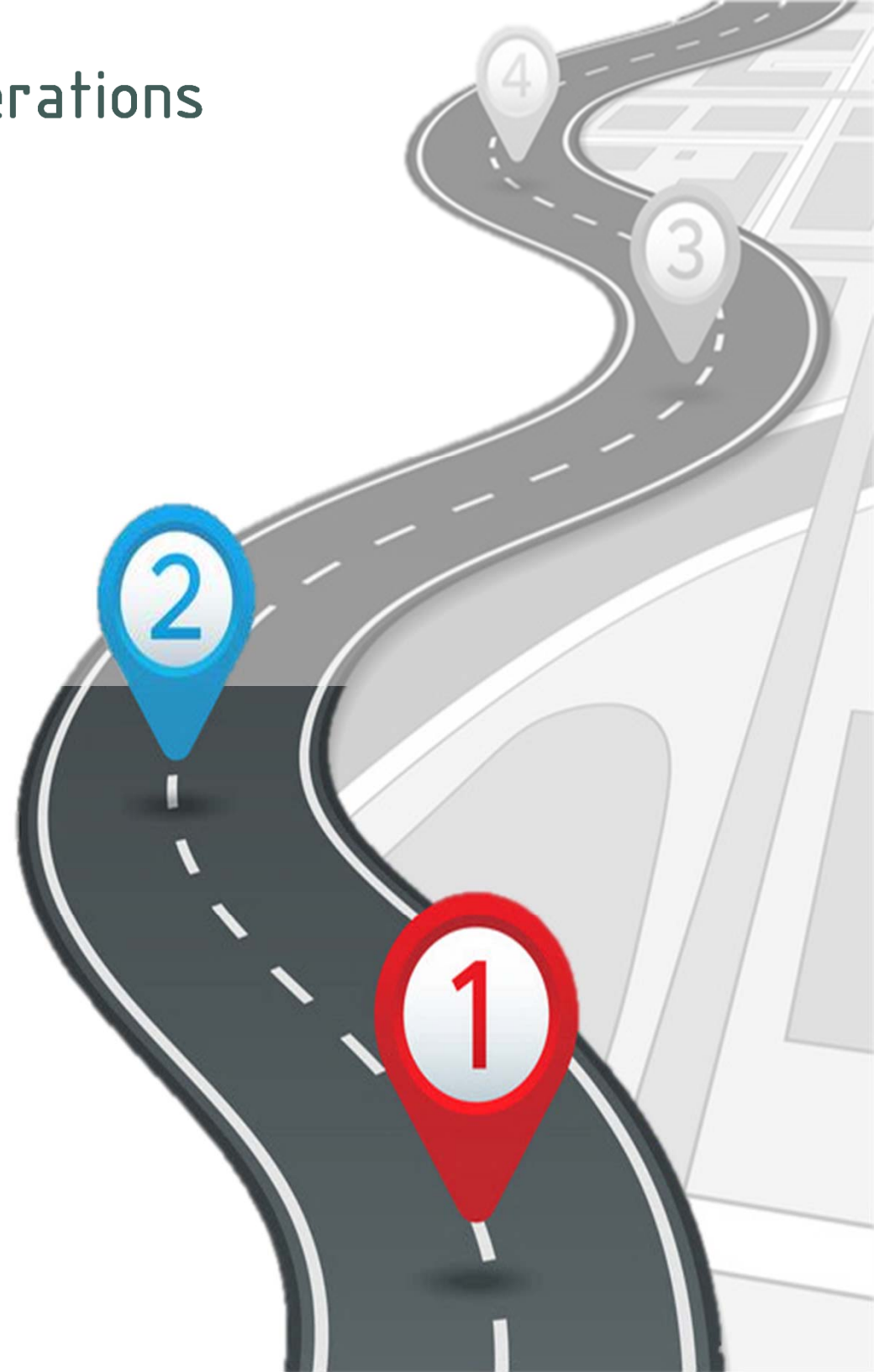
Part 2: Road System & Operations

- Review road classifications considering
 - existing & future traffic volumes
 - overall configuration & continuity of the road system
 - hierarchy of a road network
local → collector → arterial



Part 2: Road System & Operations

- Provide recommendations for the overall road system
 - identify gaps in service and connectivity
 - need for additional road capacity
 - need for future roads
 - acquisition of sight triangles
 - acquisition of road widenings
- Role & function of the Rail Trail
- Implications of, and to, the County road & transit systems



Part 3: Road Standards

- Review current road standards and policies
 - Oro & Craighurst Secondary Plan areas
 - private and haul roads
 - access policy
 - cross-sections
- Correlate standards with road classification
 - role, function and traffic
 - higher role = higher std
- Provide recommendations



Part 4: Road Needs Study

- Identify road sections
 - as per Township GIS
- Conduct field inventory to gauge existing conditions
 - captures severity and density of distresses (by road surface)
- Develop a road database



Part 4: Road Needs Study

- Identify road needs, improvements & costs
 - reflect Twp standards & practice
- Consider asphalt vs surface treatment
- Prioritize road improvements
 - based on \$\$ and traffic
- Prepare a 10-year plan
 - 3 funding scenarios





C. Deliverables

C. Deliverables



Road Needs Study



Road Standards



Road System & Operations



Project Initiation





D. Schedule

D. Schedule



- Start: late March 2019
- Traffic counts in April/May to reflect average conditions
- Road inventories in May to reflect spring conditions
- Completion mid-October



E. Questions