

Transportation Master Plan Update

Town of Markham

Development Services Committee

Loy Cheah November 10, 2009

Integration, collaboration and coordination of Regional studies





Integration, collaboration and coordination of Regional studies

Common Themes

- □ Integration & coordination
- Sustainable development focussed
- □ Extensive consultation/liaison



Some Major Steps To Get Here

- Developed Sustainability Principles to guide the Master Plan studies
- Analyzed population projections and future landuse scenarios
- Produced several Issue Papers addressing infrastructure challenges & opportunities
- Analyzed preferred growth scenario
- Identified and assessed alternative solutions



Comprehensive Consultation Program

- Held three rounds of interactive public workshops in locations throughout York
- Conducted comprehensive consultation program engaging local municipalities and other stakeholders
- Participated in stakeholder workshops discussing sustainability principles
- Held two symposiums with community leaders, area agencies
- Produced three newsletters
- Developed comprehensive project websites



Draft Master Plan Review

- □ Presented to Regional Council May 28
- □ Released for public/stakeholder review
- □ 4 month review period ended Sept 30
- □ Written comments received
- Discussed with some stakeholders
- Changes to Master Plan made



Objectives of this Transportation Master Plan (TMP) Update

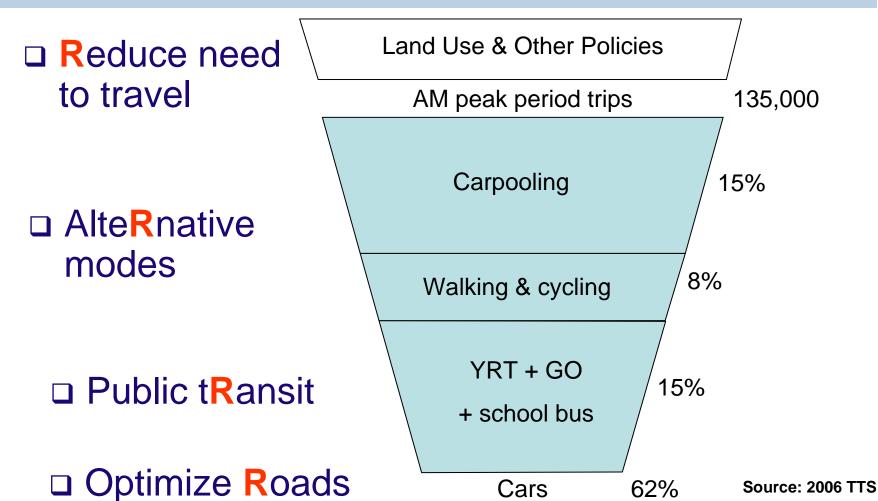
- □ Updates 2002 TMP transit and road networks
- Prioritize short, medium and long-term transportation goals through 2031
- Identify policy and program needs
- Master Plan process address Phases 1 and 2 of project Class EAs







Sustainable Transportation Planning Approach





Major Findings and Recommendations

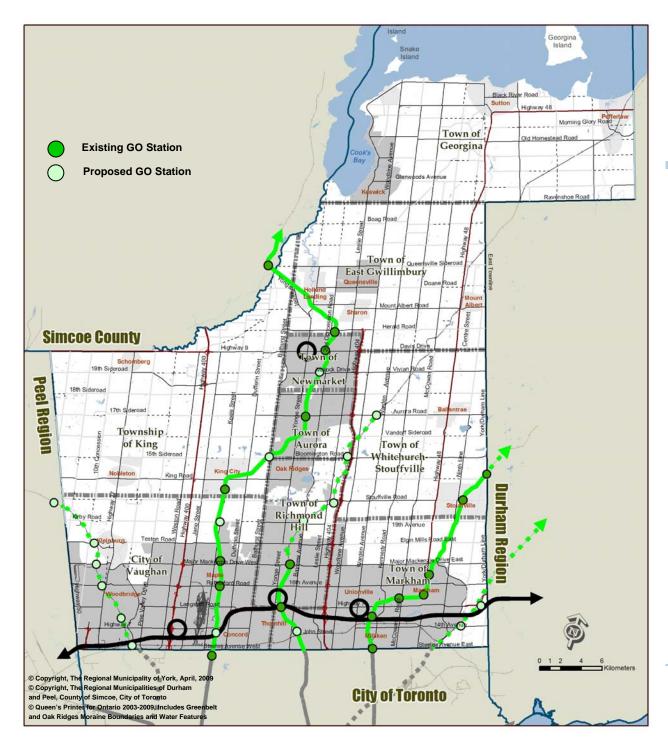
□ Projects in the 2002 Master Plan

- Majority of planned rapid transit network projects confirmed
- Some road projects altered to support transit and alternative modes
- Road widenings limited to new growth areas

■ Major new infrastructure

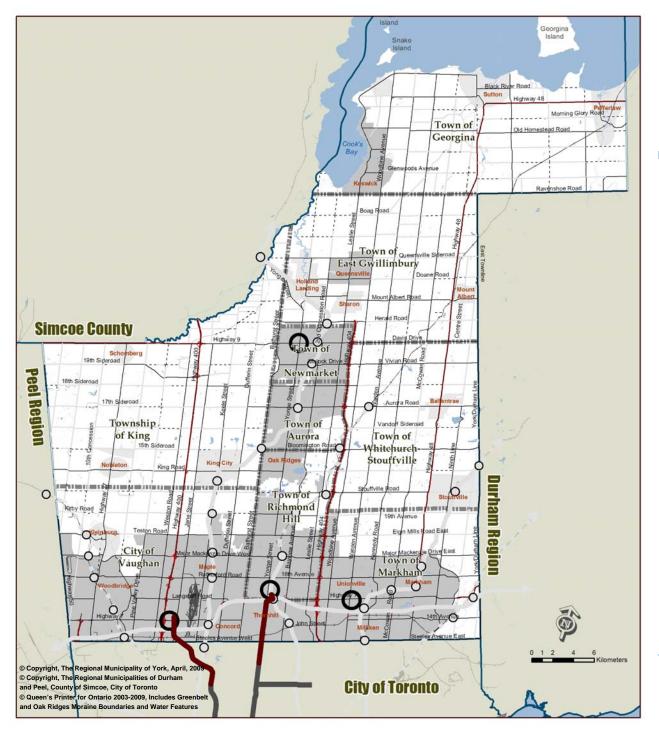
- More rapid transit lines and transit priority improvements
- Highway extensions with transit service, connections with GO, TTC, and adjacent municipalities
- Mid-block collectors and missing links to move people and goods





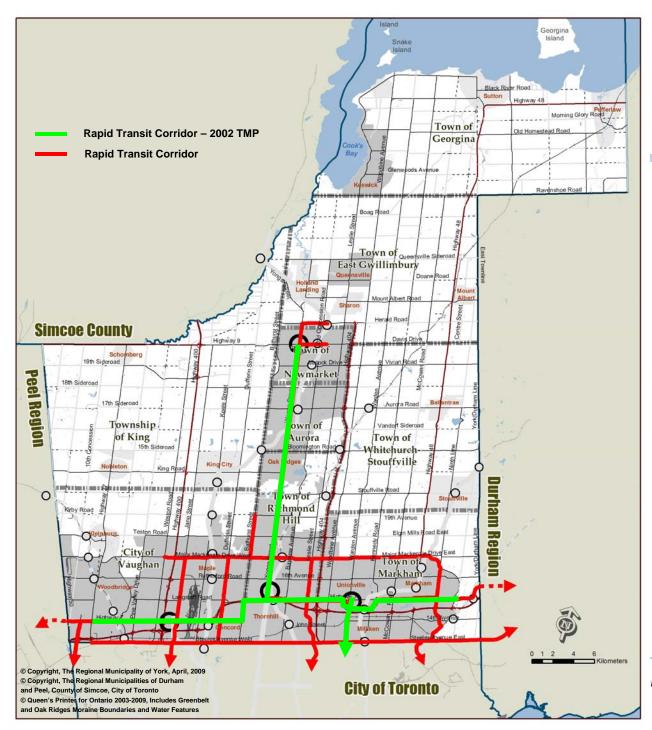


GO Rail and Highway 407 Transitway



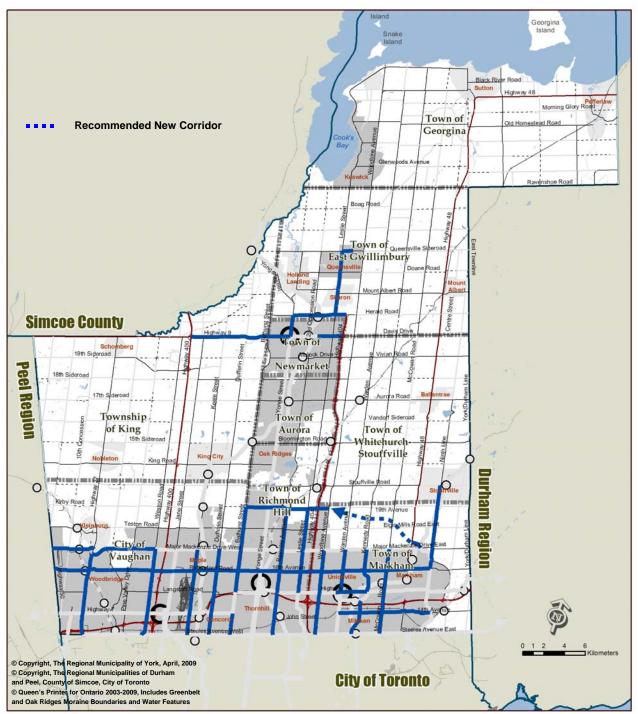


Subway Extensions





LRT / BRT



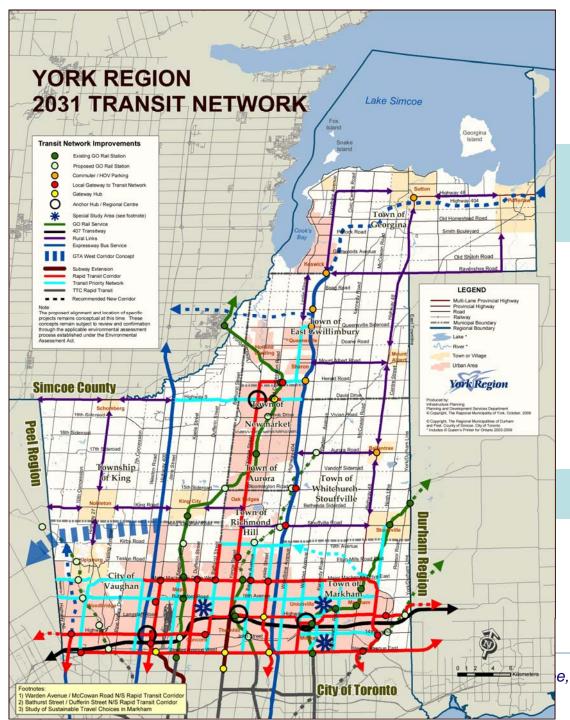


Transit Priority Corridors





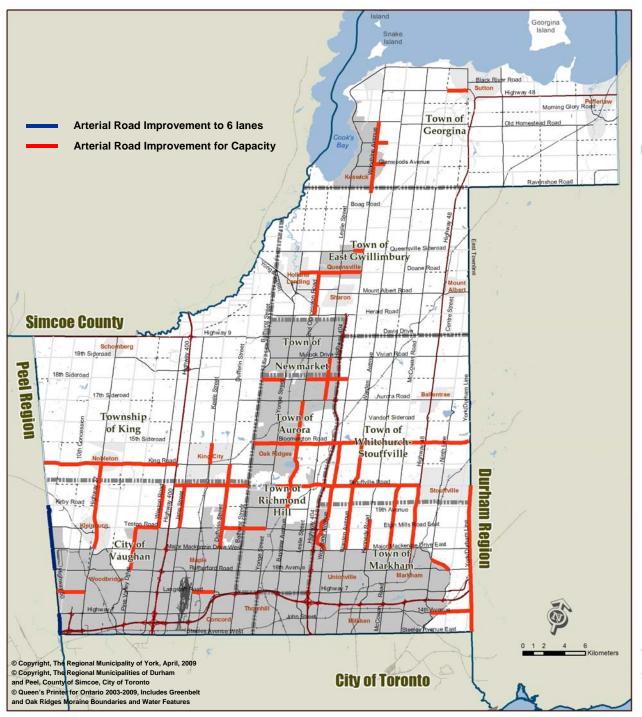
Rural and Highway Transit Service





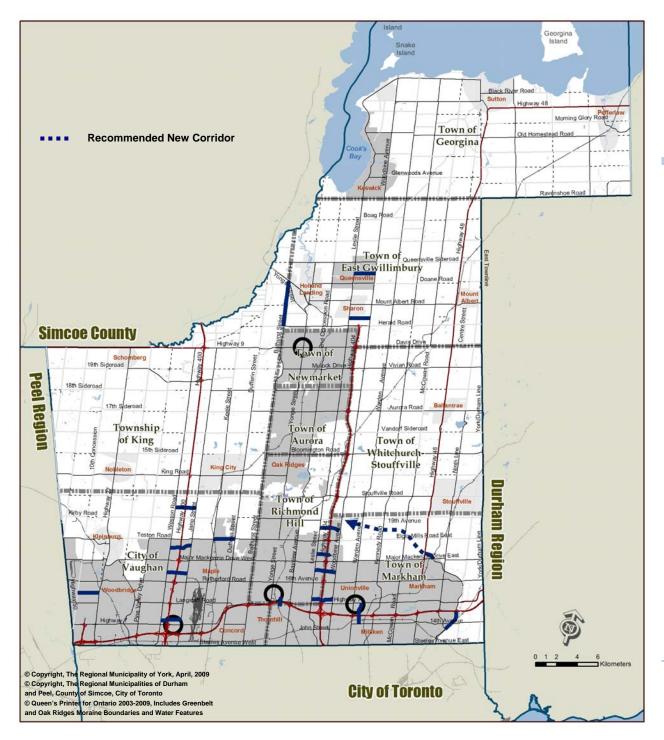
Recommended 2031 Transit Network

Total Cost = \$12.5B





Arterial Road Improvements for Capacity

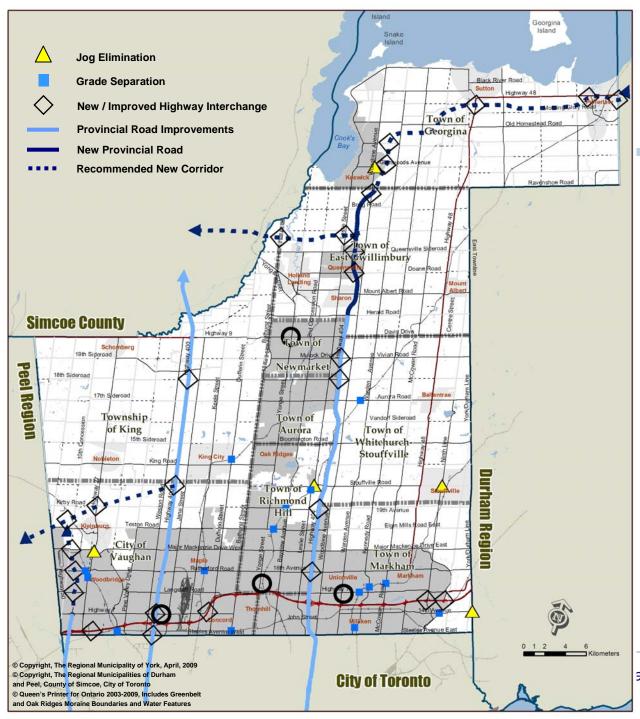




New local / Regional Roads

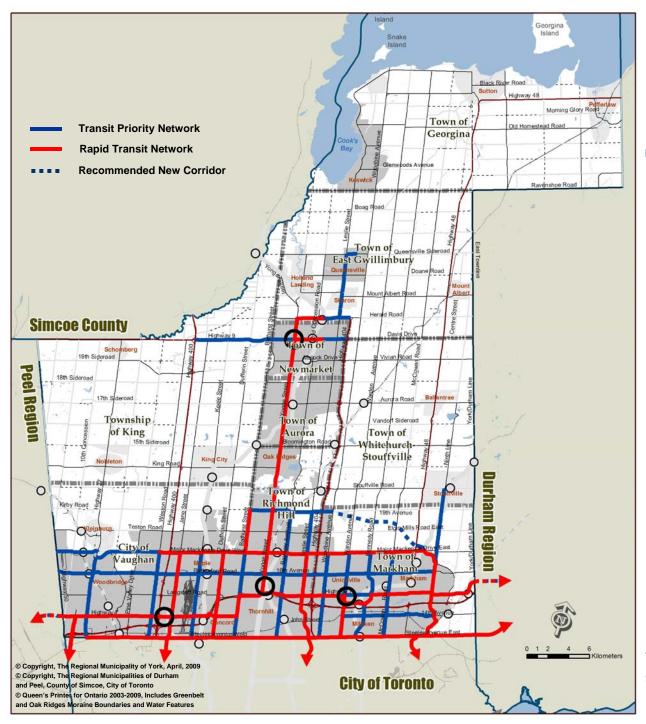
Slide 17

10, 2009



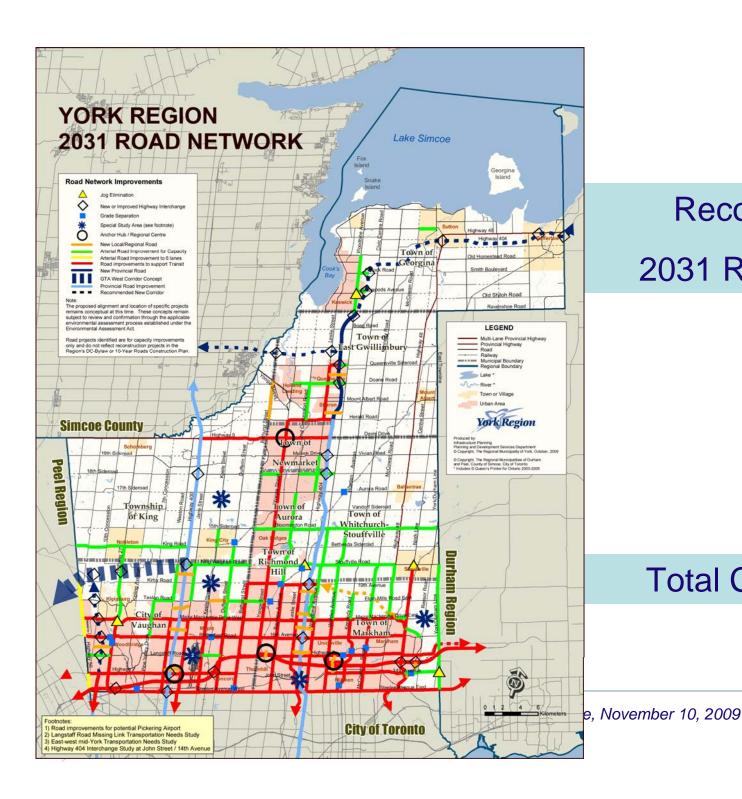


New Highway and Major Road Crossing Improvements





Road Improvements for Transit Priority





Recommended 2031 Road Network

Total Cost = \$2.5B

Policy Groups

Full policy/program framework includes about 100 recommendations

1. Reduce need to travel

- □ Land use planning
- □ Transit oriented development
- Travel demand management

2. Alternative modes

- Cycling and pedestrians
- Parking management/policies
- Collaboration and partnering
- Marketing and education

3. <u>Transit</u>

- Funding
- ITS applications
- Transit priority

4. Roads

- Mid-block collectors
- Integrated ITS Strategy
- Goods movement
- Environmental protection



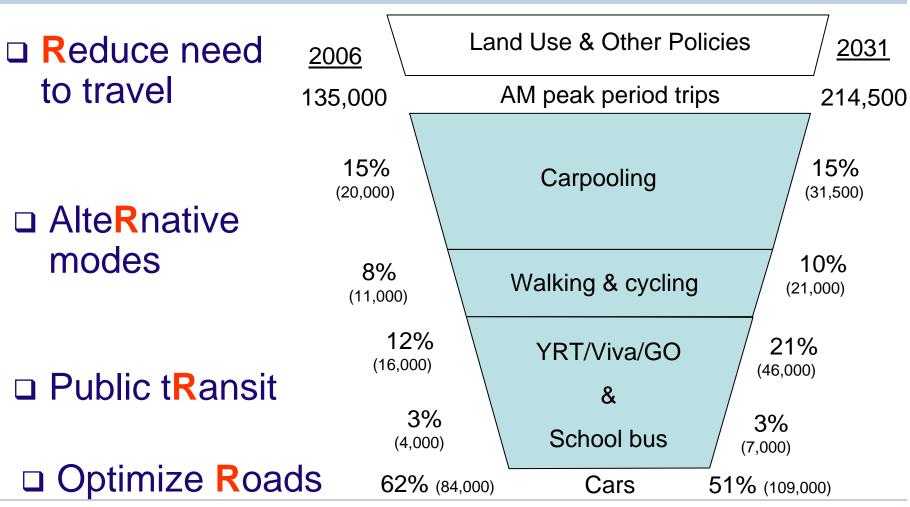








2031 Modal Shift - Markham





5-Year Action Plan – Key Actions

- Yonge subway continue to work with Metrolinx, Province and Feds
- Complete special area studies (e.g. Markham N-S link, mid-York Corridor)
- Bradford Bypass work with Metrolinx and Province to include in Provincial plans
- Integration and implementation of ITS Strategy
- Implement sustainable and active transportation plans and policies
- □ Push for Hwy 427 ext & 400/404 improvements



Estimated 2031 TMP Costs

	COSTS (Millions) ¹	
	Capital	
REGIONAL TRANSIT		
Infrastructure Expansion ²	12,500	
Rehab/replacement	2,150	
Subtotal	14,650	
REGIONAL ROADS		
Infrastructure Expansion ³	2,540	
Rehab/replacement	1,000	
Subtotal	3,540	
PROGRAMS & INITIATIVES	150	
TOTAL	18,340	

Footnotes:

- 1. In 2008 Dollars
- 2. Exclude GO Rail improvements
- 3. Exclude Provincial highway and interchange improvements



Next Steps for the Master Plan

- □ Regional Council adoption on November 19, 2009
- Publish reports for distribution
- Identify process for more frequent updates



York Region Transportation Master Plan Update

Markham Comments

Engineering Department

Development Services Committee

Nov 10, 2009



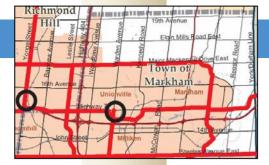
Regional Assumptions

Danian Fanancata (0004)	Population	Employment	
Regi <mark>on Fore</mark> casts (2031)	1,507,400	780,300*	
Markham Forecasts (2031)	423,500	240,600*	
	Target Year	Split Percentage	
Increased target in non-auto modal split	2006	35%	
(transit, walking, cycling)	2031	50%	
Incorporates Metrolinx - The Big Move transit and			
polic <mark>y assum</mark> ptions	V		
Policy Initiatives (TDM, Parking, Pedestrian, Cycling)			

^{*}Based on revised number in the Official Plan.

Staff Comments:

- Clarification on intensification / new community development assumptions used for Markham in the TMP
- Regional TMP needs to be coordinated with Markham's Growth Management Strategy



Transit

Rapid Transi	t Corridor, RTC (BRT or LRT) and Subway within Markham - Implementation Timing	Short-Term (0 to 10 yr)	Mid- Term (10 yr)	Long- Term (20 yr)
Metrolinx - The Big	Move:			
1. Yonge Subway (to	Richmond Hill Centre)	√		
2. Yonge RTC (Hwy	7 to 19th Ave)	√		
3. Hwy 7 RTC (Pine	Valley Dr to Kennedy GO)	√		
4. Leslie RTC (Steel	es Ave to Hwy 7)		V	
5. Steeles RTC (Hw	y 27 to York-Durham Boundary)			V
6. McCowan RCT (S	Steeles Ave to Hwy 7)	Special Study Area		
New Regional Initia	atives:	•		
7. Major MacKenzie	RTC (Weston Rd to 9th Line)		V	
8. 9th Line RTC (Ste	eles Ave to Major MacKenzie Dr)		V	
9. Warden RTC (Ste	eles Ave to Hwy 7)		V	
10. Leslie RTC (Hwy	7 to Major MacKenzie Dr)		By 2031 Pending Ridership Level	



Transit (Cont.)

Transit priority corridors



- Bayview Ave, Leslie St, Woodbine Ave, Warden Ave, Kennedy Rd, McCowan Rd, 9th Line, Hwy 7, 14th Ave, 16th Ave, 19th Ave, Donald Cousens Pkwy
- Sustainable Travel Choices and EA Studies to identify Transit Priority options in Markham (i.e. 4 to 6-lanes)
- Preliminary funding options, cost and implementation strategy provided

Staff Comments:

 Given the sensitivity of widening roads to accommodate HOV or dedicated transit lane, the Region needs to discuss with Markham Council a consultation strategy (i.e. Sustainable Travel Choices) prior to initiating any EA study

Transit (Cont.)

Staff Comments (Cont.):

- Although performance monitoring discussed in TMP, linkages between growth and transit delivery not provided
- Limited details on local service / feeder system, required to minimize driving trips to transit hubs
- Identified working towards fare integration (2 to 5 years), no specific initiatives mentioned
- Other potential rapid transit initiatives to be considered
 - North/south corridor (Warden or Kennedy between Hwy 7 and Major MacKenzie), including potential linkages between Sheppard subway and Markham Centre, and connections to new communities
 - Transit corridor along Hwy 404 and DVP

Policies

- Sustainability best practices reviewed and principles established (e.g. put pedestrians and transit first, integrate transportation and land use planning, adopt energy efficient transportation systems)
- Promoting Transit Orientated Developments (TOD)
- TDM / Parking
 - Will coordinate with area municipalities to establish parking authority and strategies (e.g. parking standards, supplies, carpool parking, etc)
 - Identified network of carpool and commuter parking lots
 - Requires TDM plans or strategies for major development applications

Policies (Cont.)

- Pedestrians and Cycling
 - Will consult area municipalities to develop sidewalk and bicycling network
 - Recommends Regional bike sharing programs
- Policy integration with TMP, Regional OP, sustainability plan, 10 Yr
 Capital Works Plan, Development Charges Bylaw

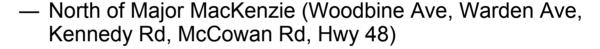
Staff Comments:

- Region and Markham need to review their respective pedestrian/cycling and parking plans pertaining to jurisdiction, funding, and implementation
- Review location of commuter parking lots (not at mobility hubs?)
- Region should review a variety of cycling path opportunities (e.g. off-road, barrier separated)

Roads

TMP Highlights:

- Optimize existing road through ITS and traffic management (signal progression, intersection timing)
- Road widenings



- York Durham Line
- 14th Ave east of 9th Line
- Hwy 404 and Hwy 407 mid-block crossings
- New road through white belt area proposed (Donald Cousens Pkwy to 19th Ave/Hwy 404)









Roads (Cont.)

- Grade separation at GO lines
 - Stouffville Line at Kennedy Rd (2), Hwy 7, and McCowan Rd
 - Havelock Line at 14th Ave
- Region identified Special Study Areas
 - Pickering Airport road improvements at Major MacKenzie Dr / Ressor Rd area
 - John St at Hwy 404 interchange study

Staff Comments:

- 10-Yr Capital Implementation Plan needs to be updated in consultation with Markham (Donald Cousens Pkwy – Major MacKenzie to Hwy 48)
- Strategy/consultation plan for sensitive road projects/studies need to be vetted by Markham Council before proceeding

Overview

- Regional TMP leading edge
- Given the growth targets (approximately 1.5 million population and 780K employments), roads will continue to be congested even with substantial investment in transit and decrease in single occupant auto percentages
- Key challenges
 - Secure capital funding for transit and roads (\$18.3 billion) and operating costs (\$800 million)
 - Behavioural changes for commuters to use transit vs. single occupant vehicles

Next Steps

- Staff be authorized to provide comments to Region
- Staff to follow up with Region on noted issues
- Upon completion of the Markham Transportation
 Strategic Plan (MTSP), Growth Management Strategy
 (GMS), and parking strategy, the Region be
 requested to update the TMP
- Staff to report back in early 2010 with MTSP and parking strategy