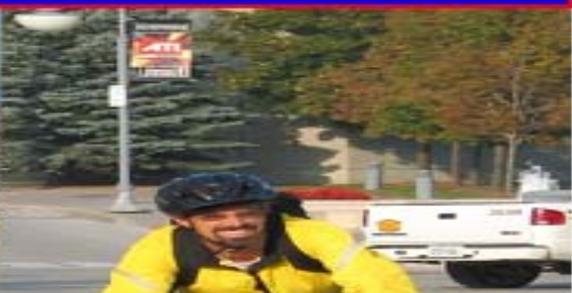




**Work Program and Terms of Reference
for**

Markham Transportation Master Plan

**Engineering Department
Town of Markham
June 19, 2007**



Overview

- ***Introduction***
- ***Background***
- ***Transportation trends in Markham***
- ***Need for Transportation Master Plan***
- ***Components of Transportation Master Plan***
- ***Outcomes and Deliverables***

Background

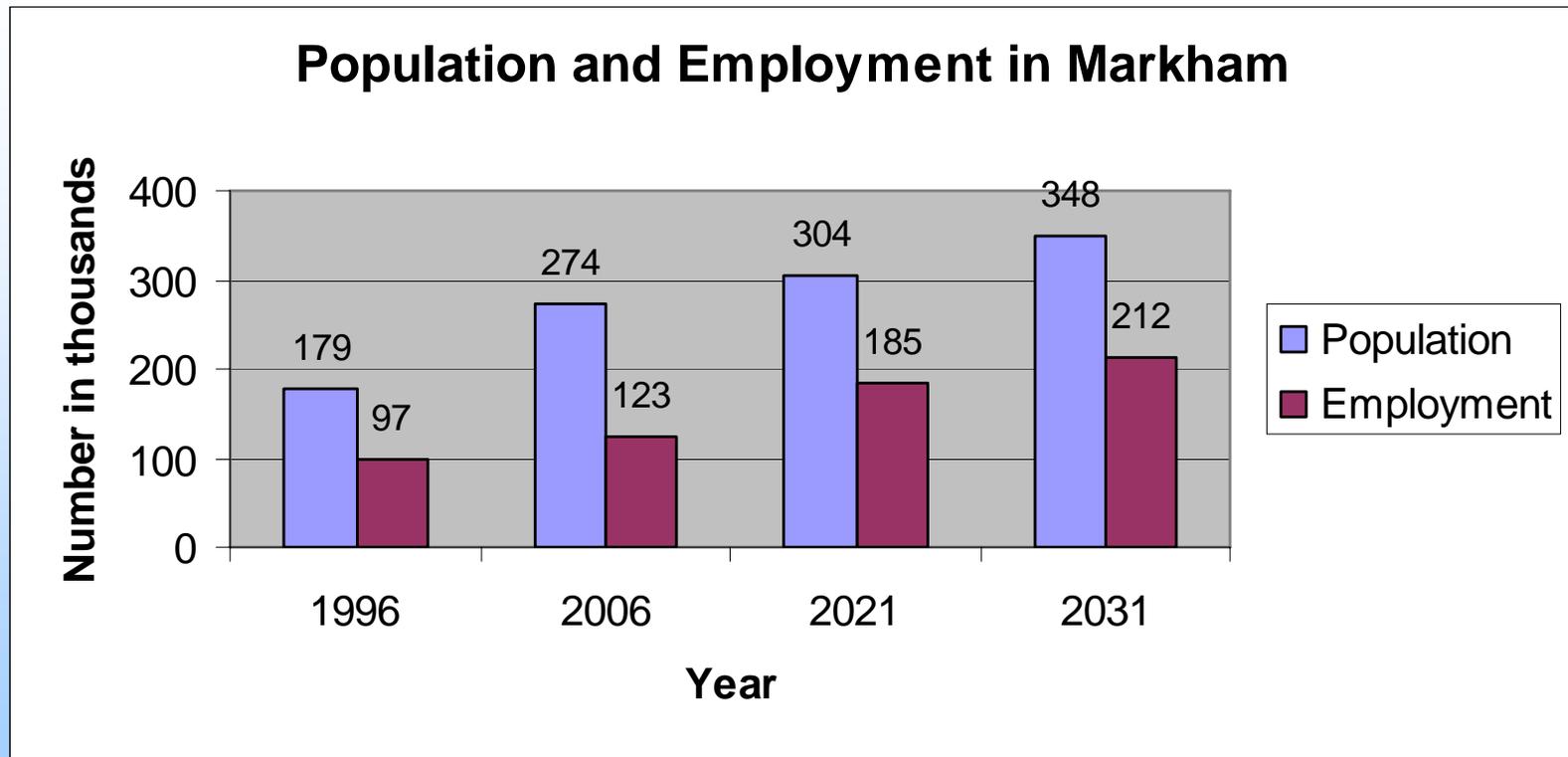
As we all know.....

Transportation has been identified as #1 issue by Markham residents

Mayor Scarpitti mentioned in his augural speech:

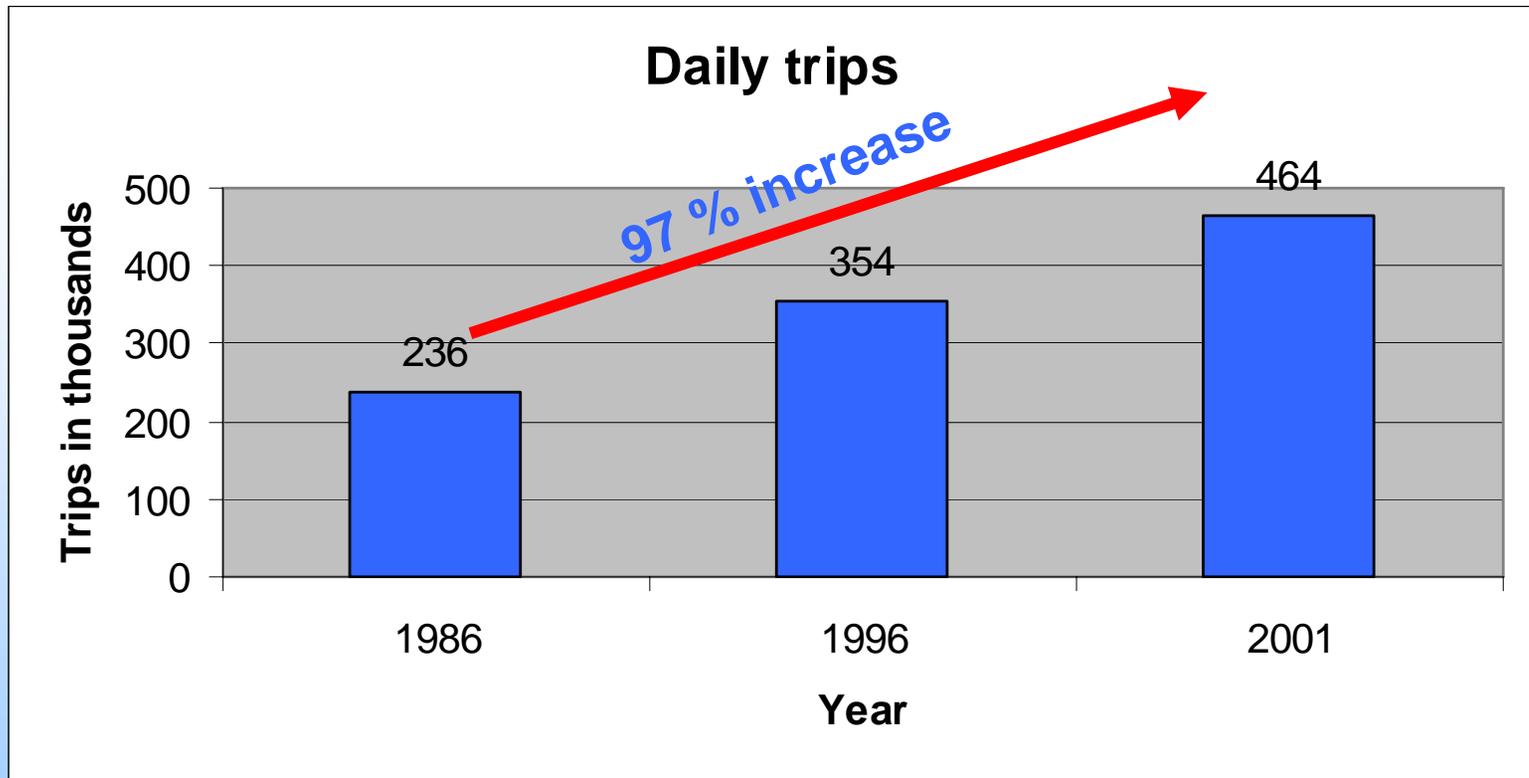
“During the past few months, I’ve spoken to thousands of Markham residents and their concerns are the same: traffic congestion, traffic congestion and traffic congestion”

Population and employment are increasing rapidly in Markham



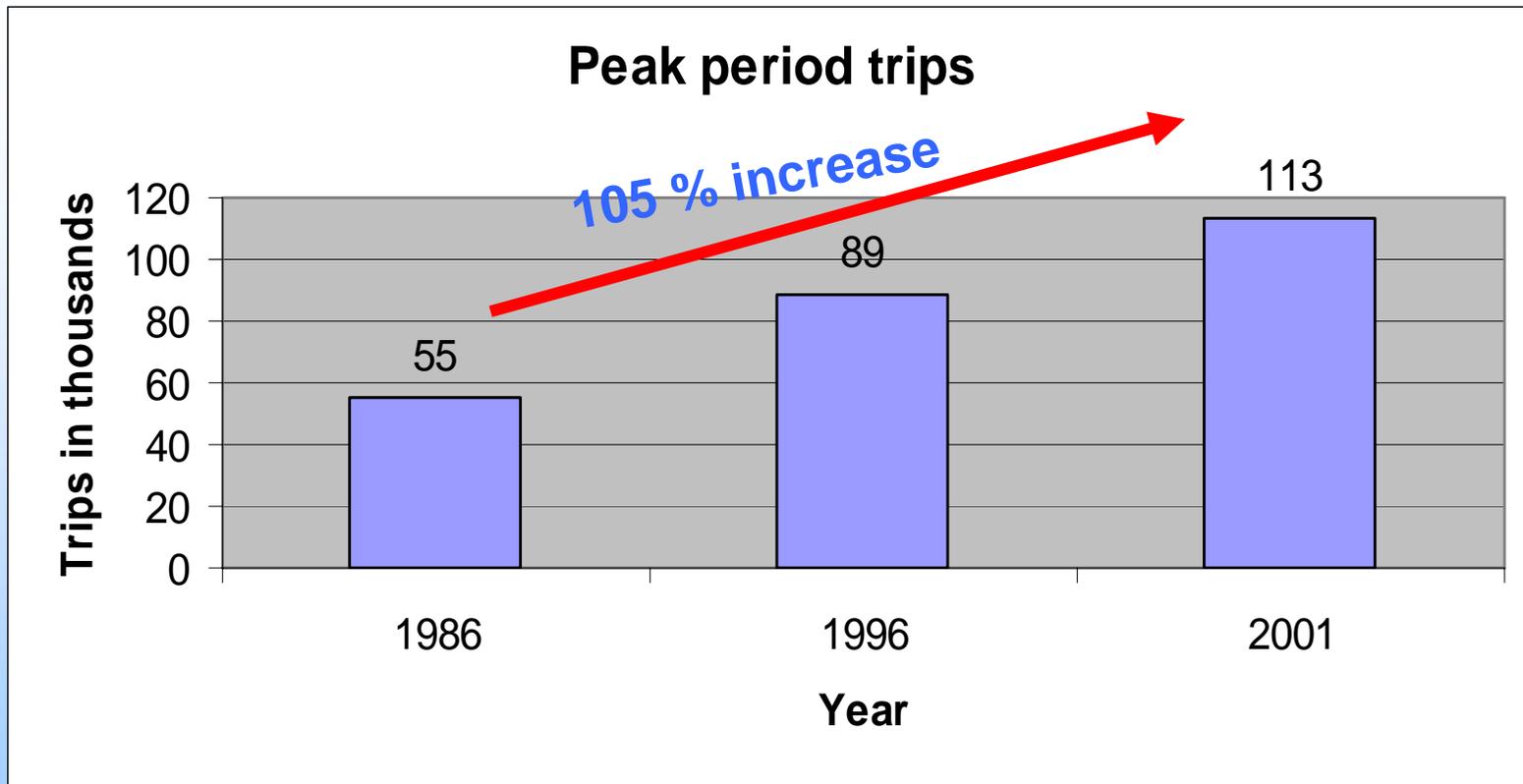
Source: Region of York Website

Daily trips are increasing in Markham



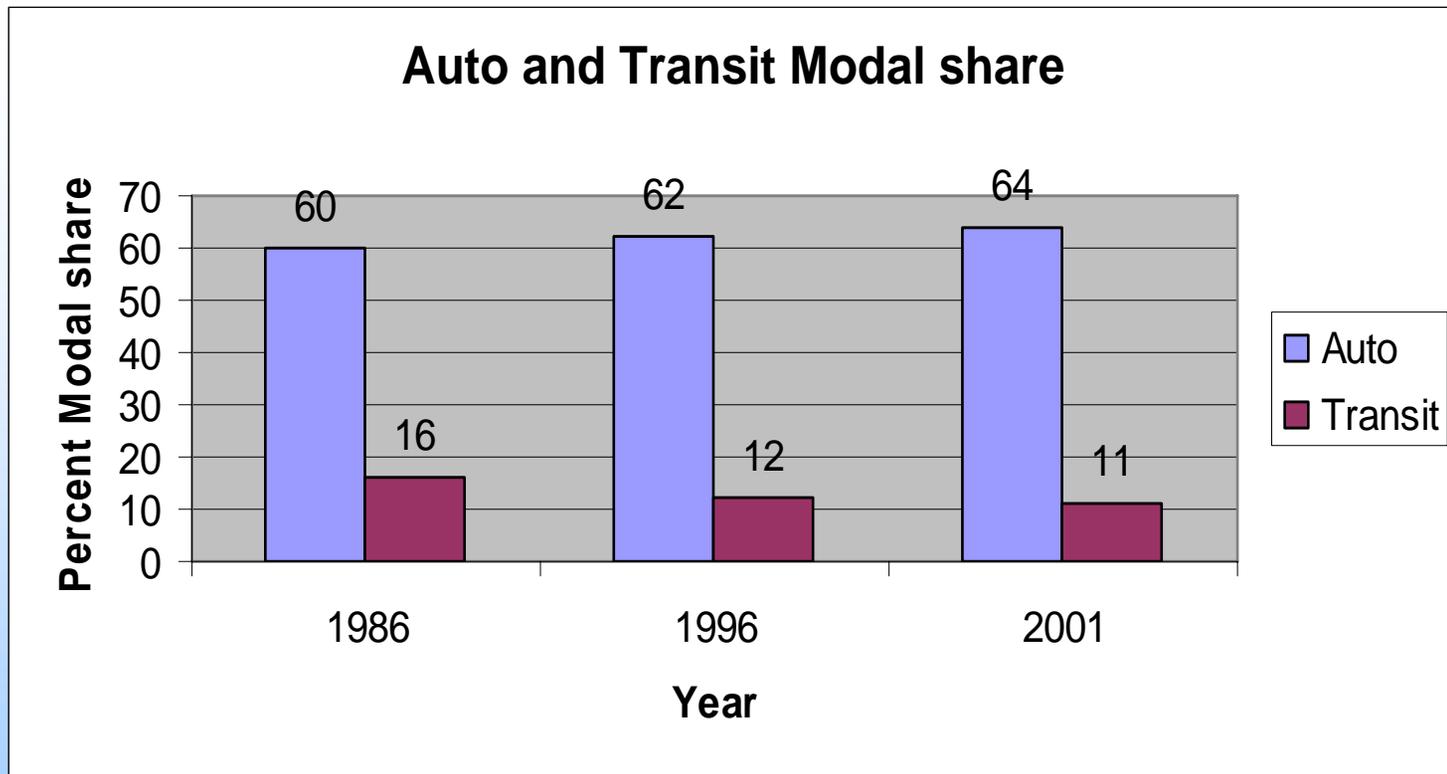
Source: TTS 2001

Peak period trips are increasing even faster



Source: TTS 2001

Transit modal shares are declining



Source: TTS 2001

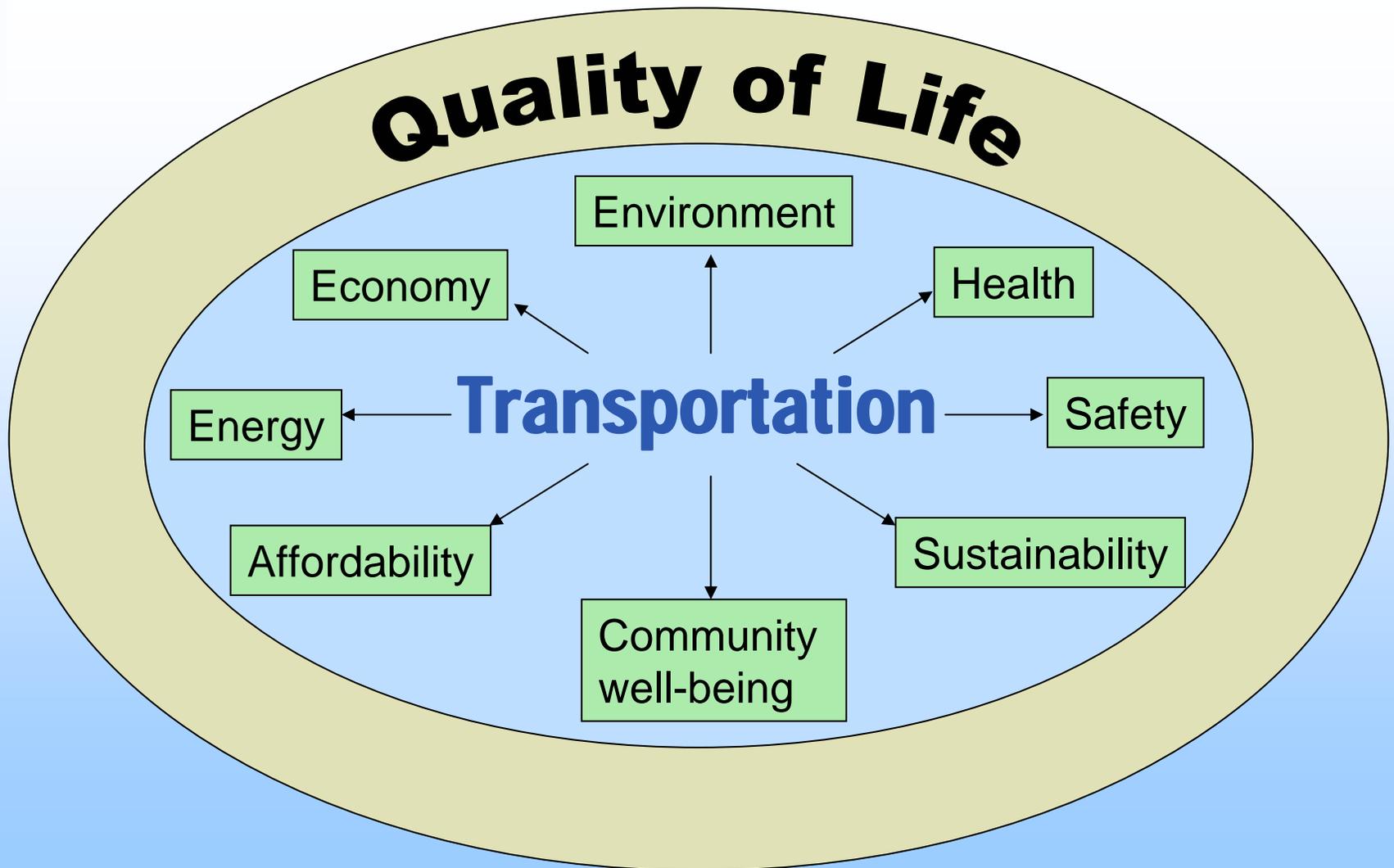
***Highway 404 has been identified as slowest freeway
in entire Greater Golden Horseshoe Area***

2004 Rank	2006 Rank	Dir	Route	Begins at	Ends at	Length	2006 Mean speed (km/hr)	2004 Mean speed (Km/hr)
1	1	SB a.m.	Hwy 404	16 th Ave.	Hwy 401	11.6	43.7	32
14	12	NB p.m.	Hwy 404	Hwy 401	16 th Ave.	11.6	52.1	55

HOV lanes saves time

Period	Direction	Average travel time (minutes)		Time savings (minutes)
		Non-HOV	HOV	
AM	SB	15:54	10:36	5:17
PM	NB	7:41	7:03	0:38

Good transportation is critically important for “Quality of Life”



Transportation issues have been identified by the Council and the Senior Management for further actions...

- ***Due to rapid growth, the Town, Region and the GTA are experiencing traffic congestion, infiltration, economic loss, environmental degradation and reduced quality of life***
- ***Additional and more efficient/effective transportation infrastructure is required including alternative modes of transportation***
- ***The issue is lack of vision, implementation, funding and ownership***

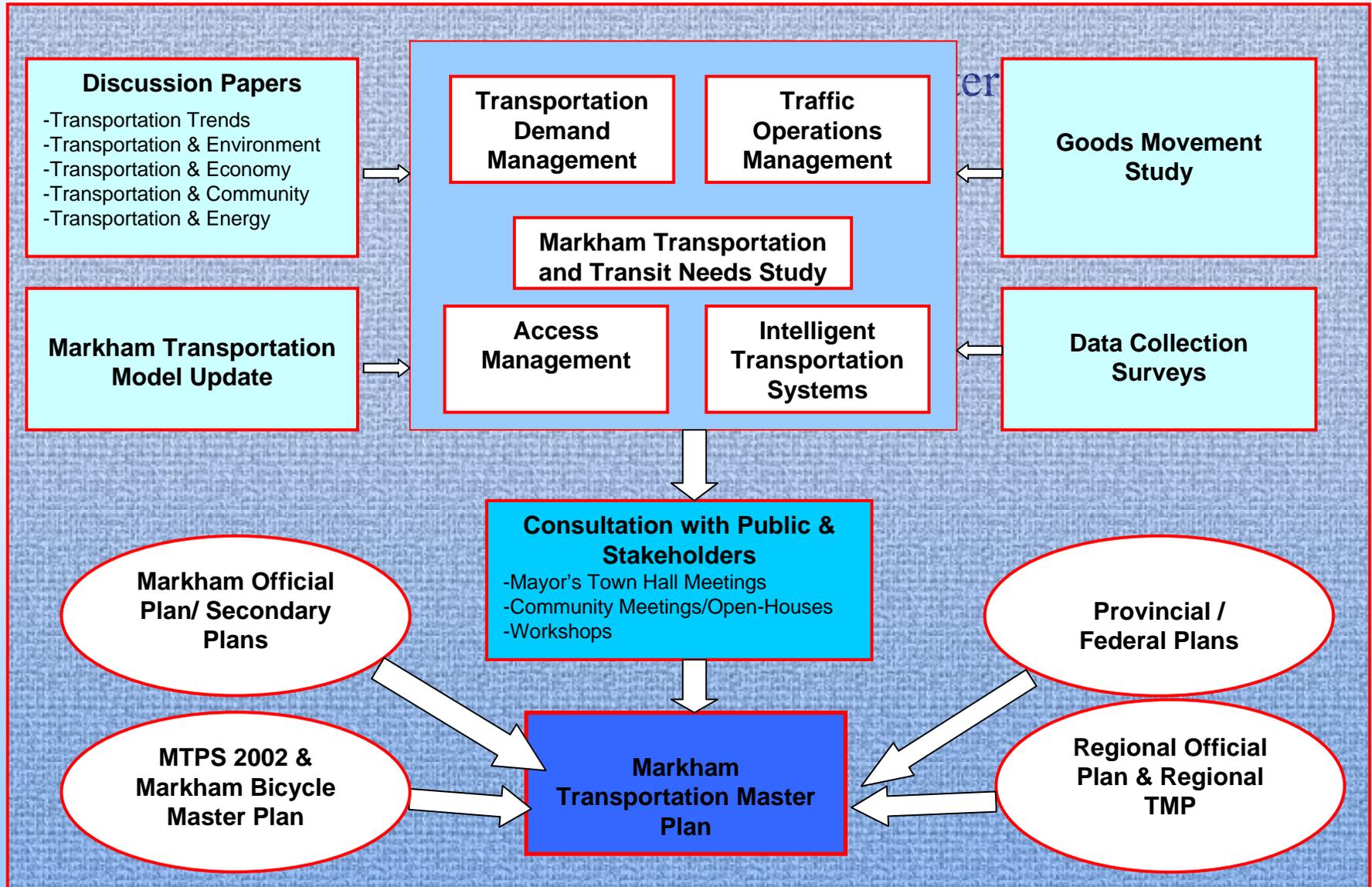
****Excerpts from the Council Retreat Meeting***



Markham Transportation Master Plan

- ***Markham Transportation Master Plan will be a comprehensive Transportation Plan***
- ***The Plan will follow standard master planning process***
- ***It will involve extensive public and stakeholder consultation***
- ***The Plan will provide input to Regional, Provincial and Federal plans***
- ***Strengthen Official Plan Policies (OPA) related to transportation***
- ***The Plan will ensure consistency between transportation & landuse policies and broader Town goals such as economic vitality, natural environment and healthy communities***

Proposed Markham Transportation Master Plan



Transportation Modeling

- ***Transportation modeling will be a key component of the Markham TMP***
- ***Markham Transportation Model will be updated based on current and projected OP forecasts***
- ***Traffic Zone System will be revised and integrated with the Region and TTS (Transportation Tomorrow Survey)***
- ***Transportation scenarios for 2006, 2011, 2021 and 2031 will be developed and validated***
- ***The extent of modeling to review future growth forecasts needs to be finalized with the Council, the Steering Committee and the Planning Department***

Discussion Papers

- ***Discussion papers will be prepared for:***
 - ❖ ***Transportation Trends in Markham***
 - ❖ ***Transportation and Environment***
 - ❖ ***Transportation and Community***
 - ❖ ***Transportation and Energy***
 - ❖ ***Transportation and Economy***
- ***Discussion papers will provide information on how transportation affects our travel patterns, environment, community, energy and economy***
- ***Discussion papers will assist us in better understanding impact of transportation on health, community, environment and sustainable development***

Transportation Demand Management

- ***The Town's current TDM initiative is progressing well and it is essential to move to the next level***
- ***Need to prepare a comprehensive TDM Plan to integrate principles of TDM into high level urban planning and development of Markham***
- ***Review TDM best practices worldwide***
- ***Conduct a 2- phase process to develop and implement a "Made in Markham" TDM Plan***
- ***Consult with internal and external stakeholders***

Goods Movement Study

- ***Goods movement is a key element of Town transportation system***
 - ***Currently, the Region and the Province have conducted a goods movement study; however Town has no specific transportation study on goods movement***
 - ***Conduct study to identify issues, options and recommendations for the Town***
 - ***Identify planning, policy, operation and infrastructure options to enhance Town's ability for safe and efficient movement of goods***
 - ***Consult with stakeholders***
-

Intelligent Transportation System

- ***Intelligent Transportation System employs latest technologies in improving transportation system***
- ***Investigate Town's existing transportation system and develop a strategic ITS plan***
- ***The ITS Plan will make recommendations for actions that are necessary to address current and future traffic issues***
- ***The ITS Plan will be closely integrated with the Regional Plan***

Traffic Operations Management Plan

- ***Prepare Traffic Operations Management Plan to systematically manage Town's traffic operations***
- ***Review and update current Safe Street Strategy***
- ***Review and update intersection control monitoring program***
- ***Develop comprehensive traffic data management and accident data/analysis plan***

Access Management

- ***Effective access management on Town roads is vital for traffic safety and better traffic movement***
- ***Currently, Town has no specific study on access management***
- ***Review current practices in other jurisdictions***
- ***Develop and implement access management policy***

Transportation and Transit Needs Study

- ***The Transportation and Transit Needs Study will assess and review roads and transit needs for existing and future horizon years such as 2011, 2016, 2021 and 2031***
- ***Identify connectivity issues, capacity constraints and gaps***
- ***Develop Markham transit needs plan including rapid transit alternatives and options***
- ***Develop para-transit plan for Markham's ageing population and persons with disabilities***

Transportation and Transit Funding Model

- ***Develop a financing model that provide adequate and secure funding to deliver Town's transportation system***
- ***Develop timing, cost and priority of implementing road and transit infrastructures (both rapid and conventional transit) required for Markham***
- ***Develop and identify sources for funding including Public and Private Partnerships***
- ***Develop a financial implementation plan for providing input to several senior government plans***

Consultation

- ***The Transportation Master Plan must reflect needs of Markham residents and businesses***
- ***Transportation Master Plan will employ extensive Public consultation***
 - ❖ *Mayor's Town Hall Meetings (3 meetings)*
 - ❖ *Community Meetings in 4 Markham communities (12 meetings)*
 - ❖ *Council Workshops (3 workshops)*
 - ❖ *Stakeholder workshops (project specific e.g. TDM)*
- ***Public input through Town website and newsletters***
- ***Extensive media coverage***

Steering Committee

- ***Steering Committee will oversee the preparation of Transportation Master Plan and set overall project priorities***
- ***The Steering Committee will comprise of:***
 - ❖ ***Chair and Co-chair***
 - ❖ ***Members of Council***
 - ❖ ***Senior staff from the Town and the Region***
- ***The Committee will approve project deliverables, policy decisions, approve scope changes and provide direction and guidance to the project***

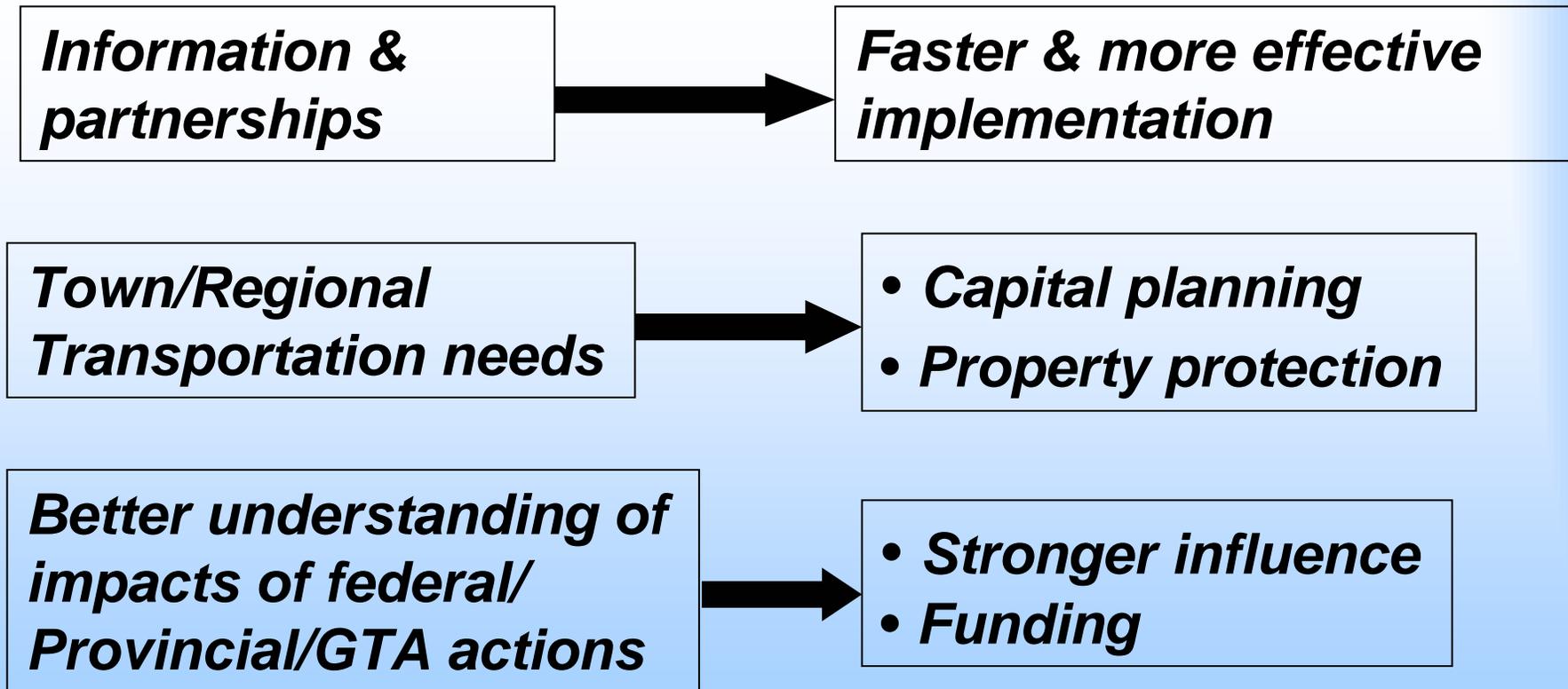
Timelines and Resources

- ***RFP and consultant selection – Fall 2007***
- ***Develop/Update Models – Fall 2008***
- ***Background Policy/Discussion Reports – Fall 2008***
- ***Component Studies:***
 - ***Transportation Demand Management – Fall 2008***
 - ***Goods Movement – Fall 2008***
 - ***Intelligent Transportation System – Fall 2008***
 - ***Markham Transportation and Needs Study – Winter 2009***
- ***Markham Transportation Master Plan – Spring 2009***
- ***Official Plan Amendment – Fall 2009***

Resources

- ***Currently \$250,000 have been approved***
- ***Additional funding through “Development Charges” may be requested in 2008 Capital Budget***

Expected Benefits



Questions