



**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.....***

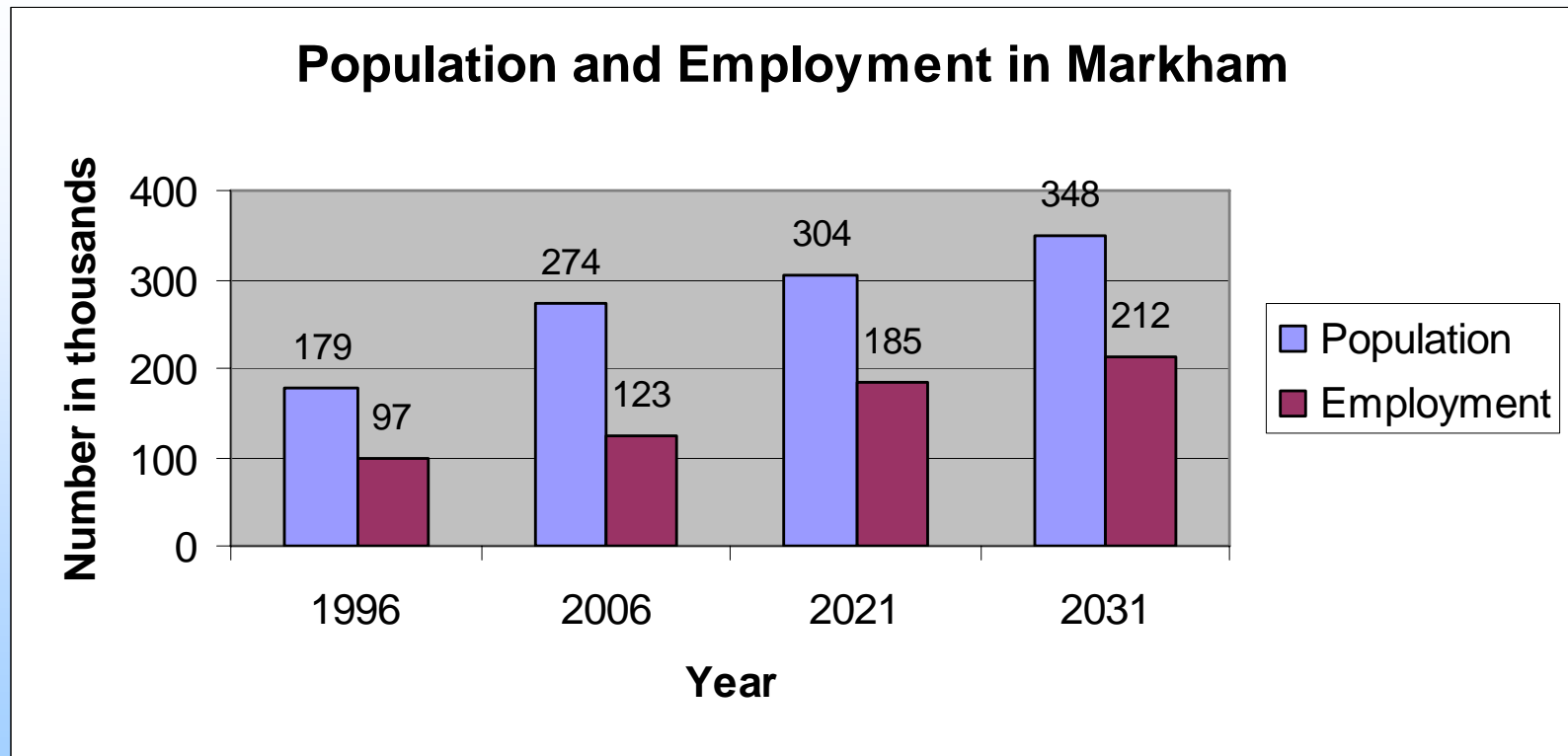
***Transportation has been identified as #1 issue by Markham residents***

***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”***

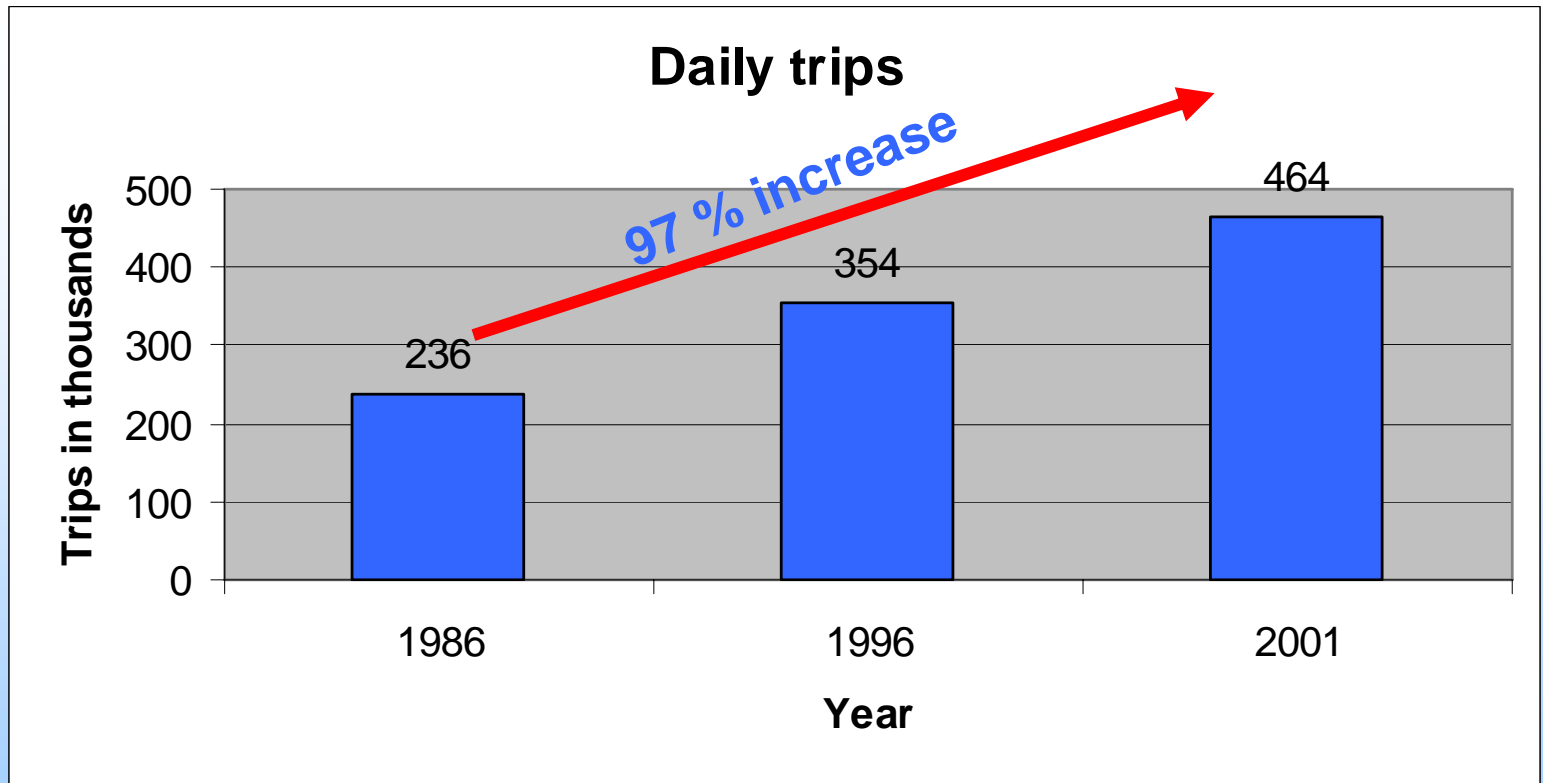
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# ***Population and employment are increasing rapidly in Markham***



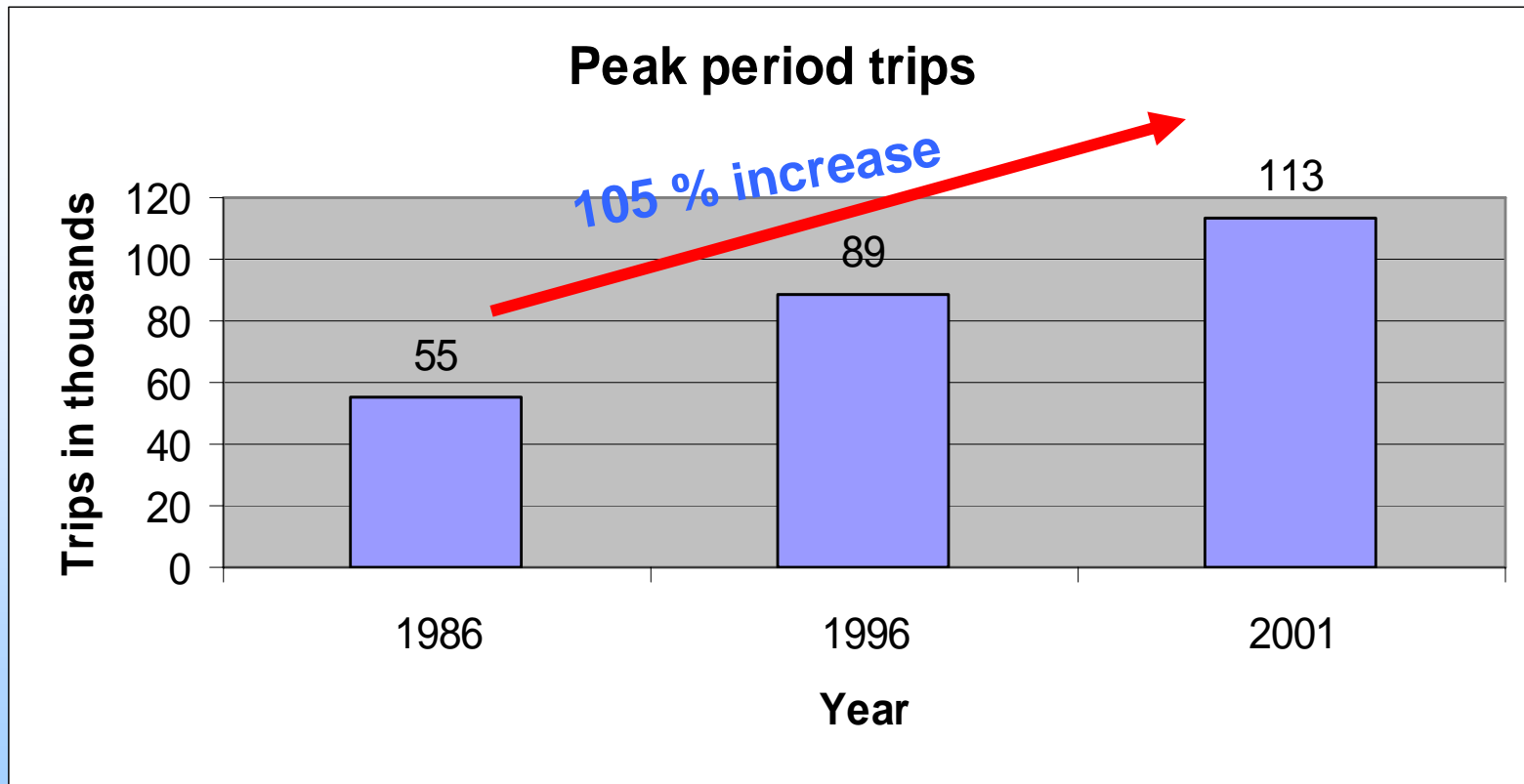
Source: Region of York Website

## *Daily trips are increasing in Markham*



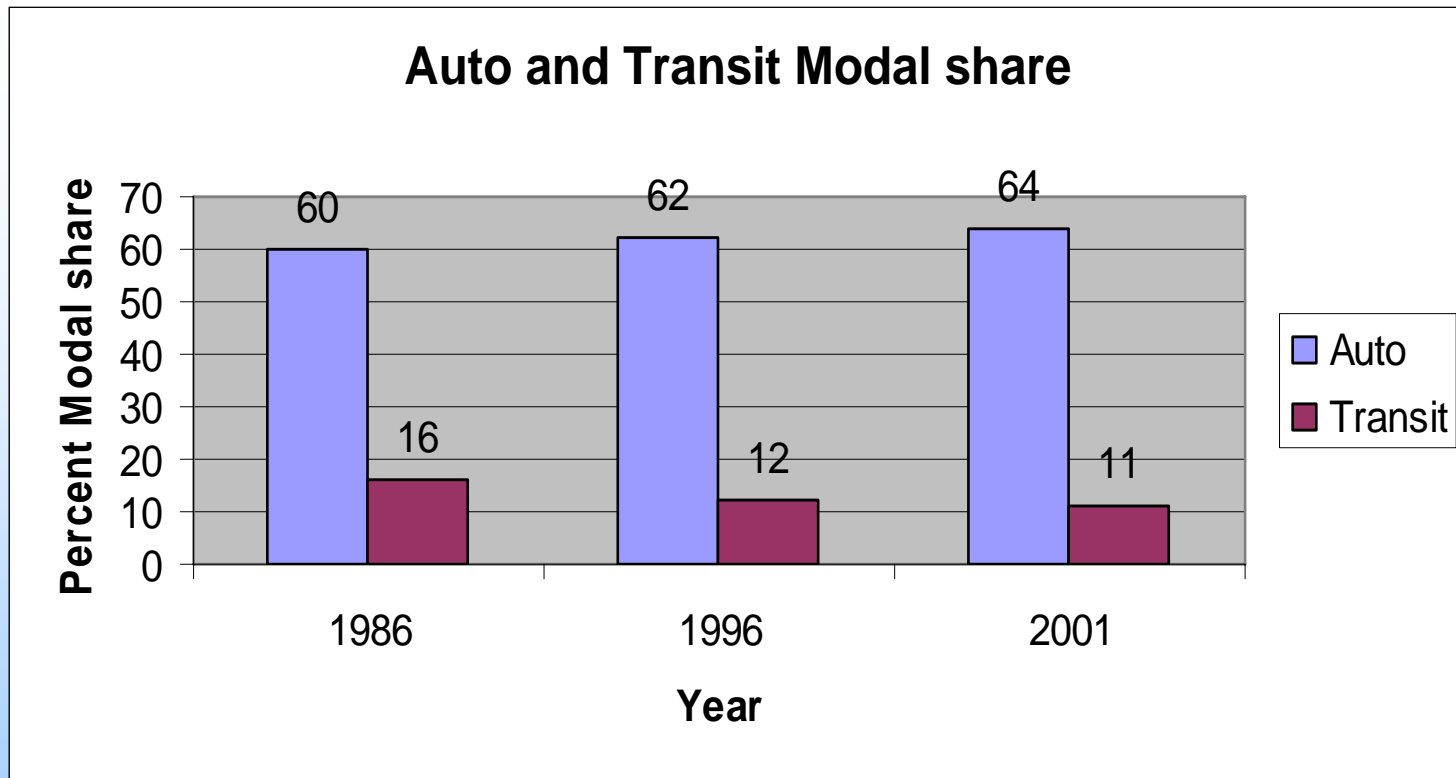
Source: TTS 2001

## *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***

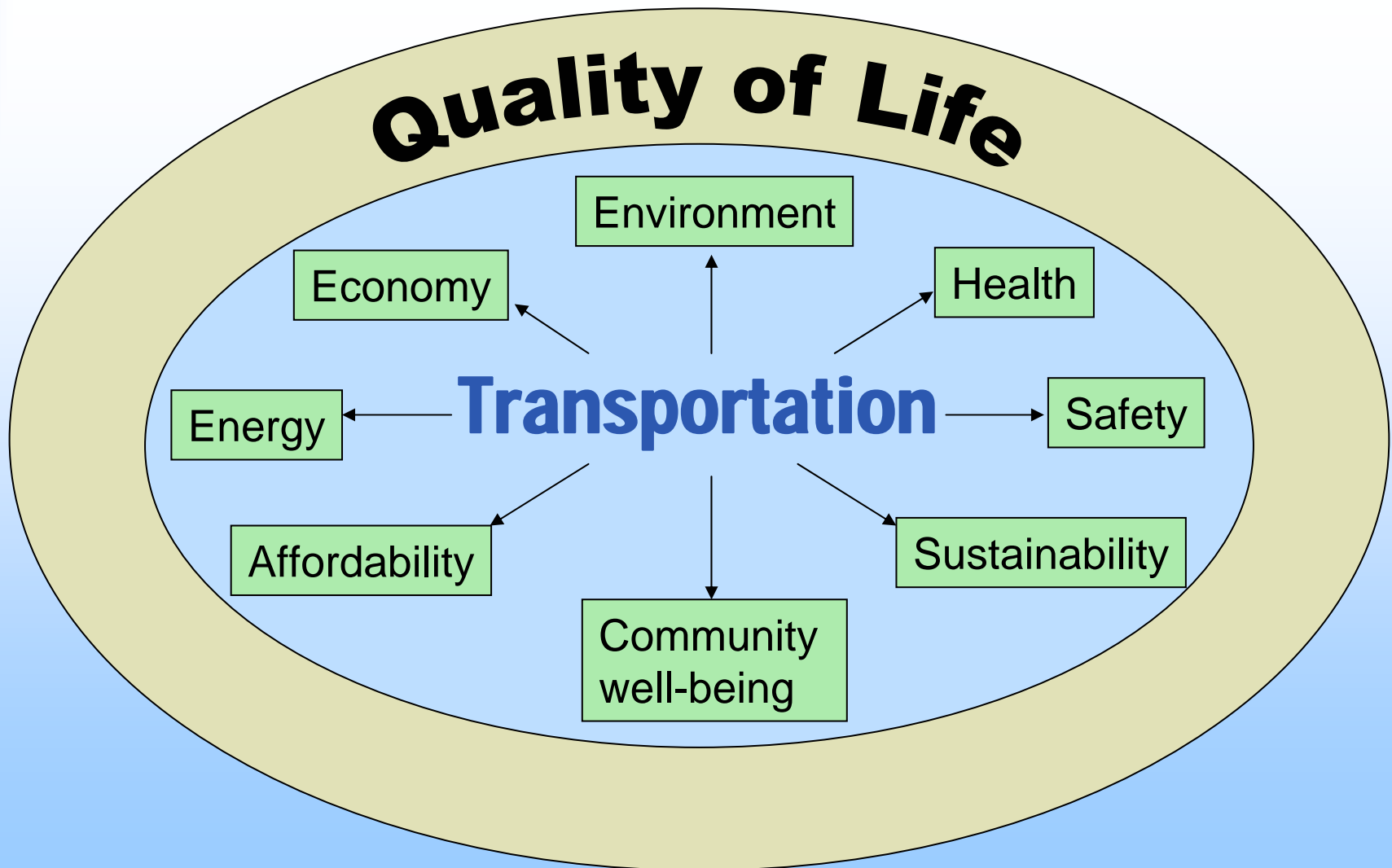
2004 Rank	2006 Rank	Dir	Route	Begins at	Ends at	Length	2006 Mean speed (km/hr)	2004 Mean speed (Km/hr)
1	1	SB a.m.	Hwy 404	16 <sup>th</sup> Ave.	Hwy 401	11.6	43.7	32
14	12	NB p.m.	Hwy 404	Hwy 401	16 <sup>th</sup> Ave.	11.6	52.1	55

***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***

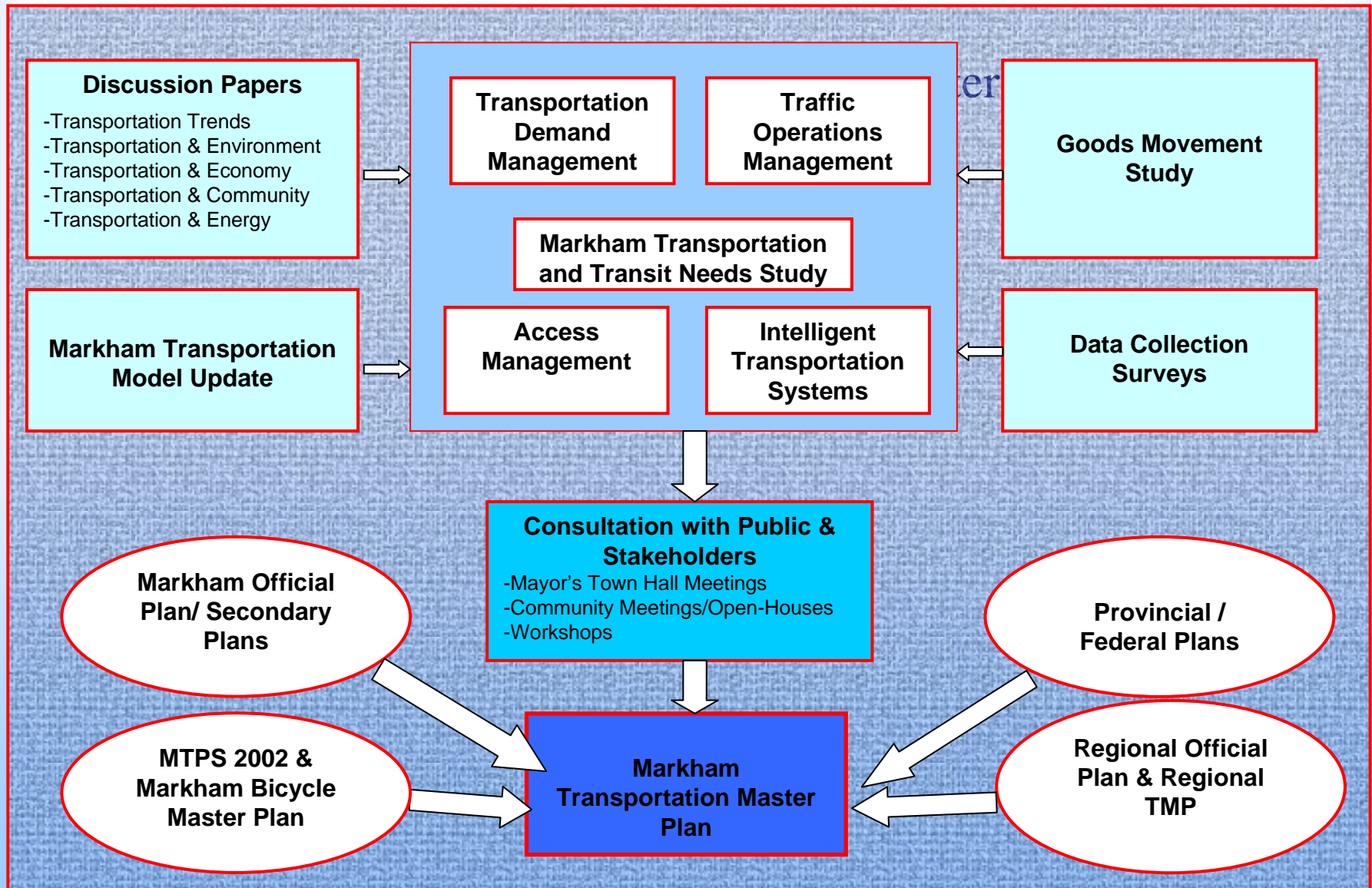
***\*Excerpts from the Council Retreat Meeting***



# ***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***
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# ***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***

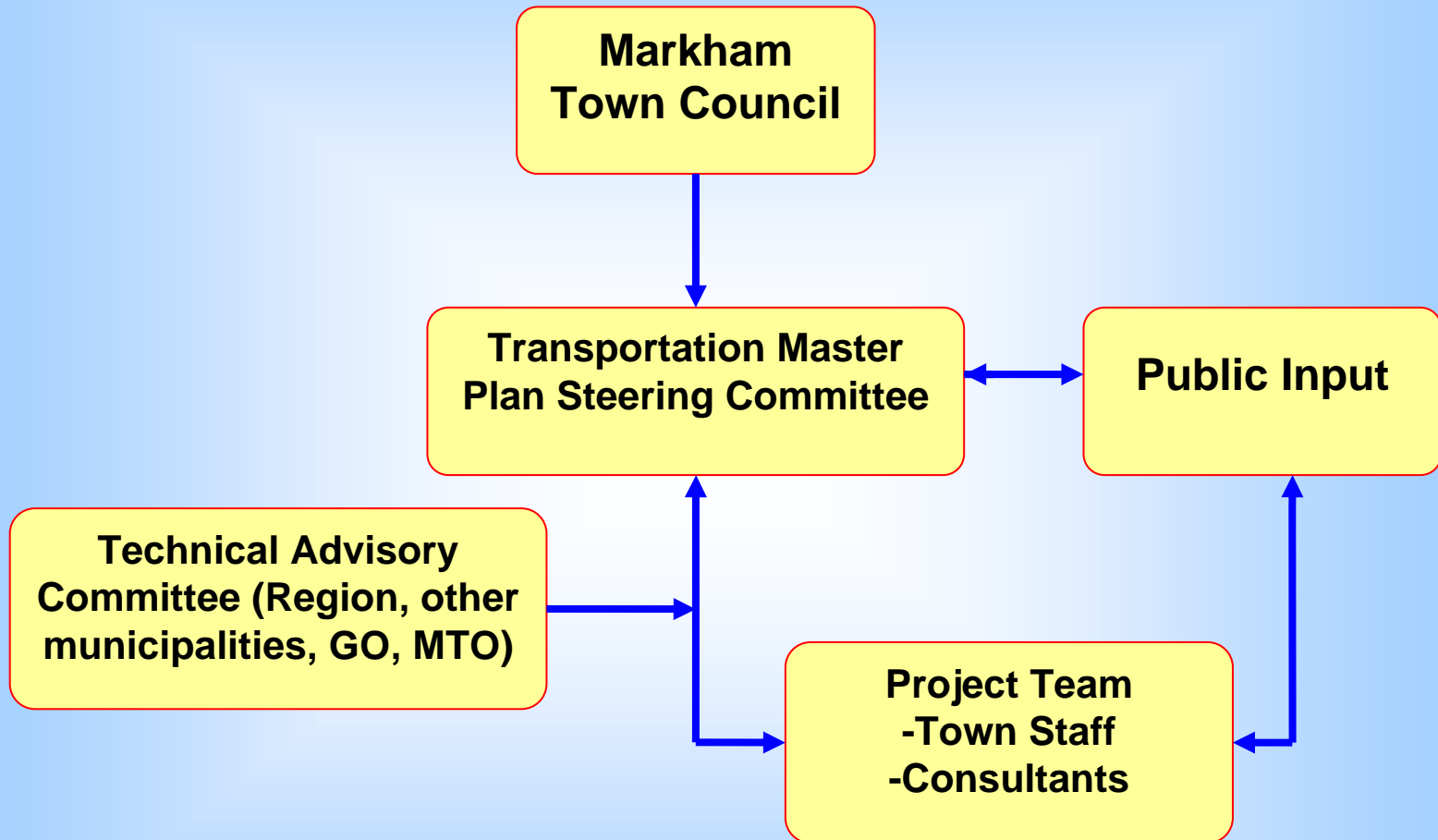
## ***Transportation and Transit Funding Model***

- ***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***

# ***TMP Project Organization***



# ***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***

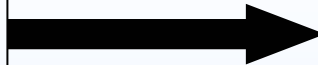
- ***RFP and consultant selection – Fall 2007***
- ***Develop/Update Models – Fall 2008***
- ***Background Policy/Discussion Reports – Fall 2008***
- ***Component Studies:***
  - ***Transportation Demand Management – Fall 2008***
  - ***Goods Movement – Fall 2008***
  - ***Intelligent Transportation 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***

***Information & partnerships***



***Faster & more effective implementation***

***Town/Regional Transportation needs***



- Capital planning***
- Property protection***

***Better understanding of impacts of federal/Provincial/GTA actions***



- Stronger influence***
- Funding***

# Questions