MARKHAM TOWN WIDE PATHWAYS AND TRAILS MASTER PLAN



Development Services Committee

April 24, 2007





Project Update

- Presentation to DSC September 2006
- Public open house October 2006
- Refinements to Network and Priority Maps
 - Detailed estimate of costs
 - Implementation and Funding Strategy
- Review with Town Staff (TAC) Feb, 2007
- Presented to CPAC April 12, 2007

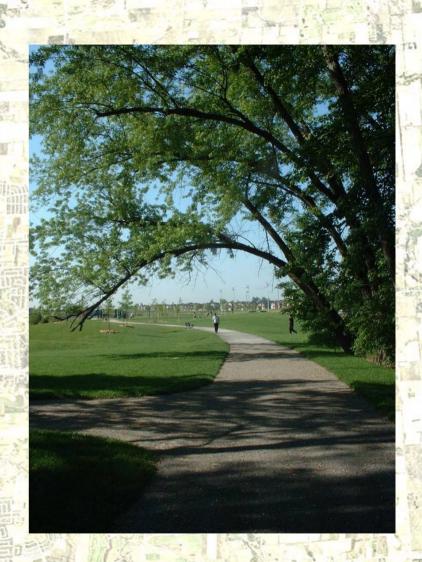






Presentation Outline

- Vision and Goals
- **Key Public Input**
- **Benefits of Pathways / Trails**
- **Final Master Plan Network and Priorities**
- Cost Estimates
- Implementation Strategy
- Next Steps
- Recommendations





The VISION is:

An interconnected system of pathways and trails, which;

- Accommodates a wide variety of users
- Achieves Town priority as identified in the Parks, Recreation, Culture and Library Master Plan 2005-2021
- Provides a diversity of experiences
- Provides improved connections to existing and planned sidewalks
- Is more accessible and connects neighbourhoods to key destinations in the Town.











The Study GOALS:

- 1. Develop a long-term pathways and trails plan for the Town
- 2. Provide guidance for the future delivery of pathways and trails
- 3. Identify pathway and trail users, specific user needs and requirements through public consultation
- 4. Develop an implementation strategy that describes routes, method of delivery, construction, costs, and priority connections to link existing systems
- 5. Create a data management tool that can be updated and adapted as the trail system evolves over time.









Key Public Input

- 1. Strength of existing facilities (e.g. Toogood Pond, Milne Park)
- 2. Lack of connectivity
- 3. Implementation is too slow
- 4. Desire to be able to walk / cycle to destinations avoiding busy roads
- 5. Pathways and Trails as Active
 Transportation Environmental, Health,
 Transportation, Recreational, Economical
 Benefits
- 6. Pathways and Trails are not just for leisure enjoyment, they can provide viable alternative transportation mode









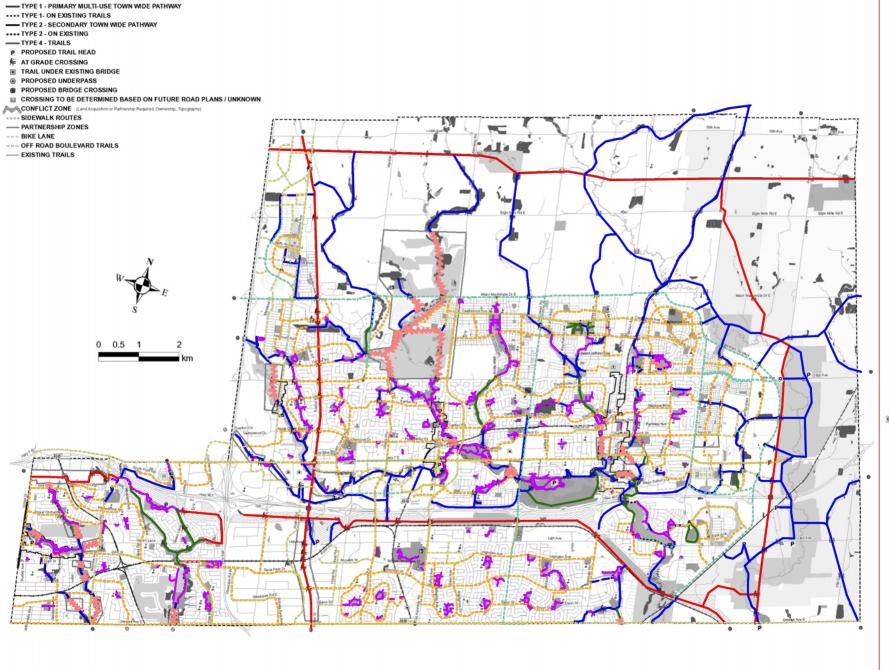
Pathways and Trails have many positive impacts on the Community:

- 1. Transportation Benefits
- 2. Recreational Benefits
- 3. Health and Fitness Benefits
- 4. Environmental Benefits
- 5. Economic Benefits









Field Work Legend: (Draft Facility Types)



PATHWA TRAILS M PLA

Draft Facil

Railway
Roads
Proposed Ful
Park
Open Space
Woodlot
Storm Water
School
Buffer

Golf Course
Heritage Dist
Federal Airpo
Federal Oper

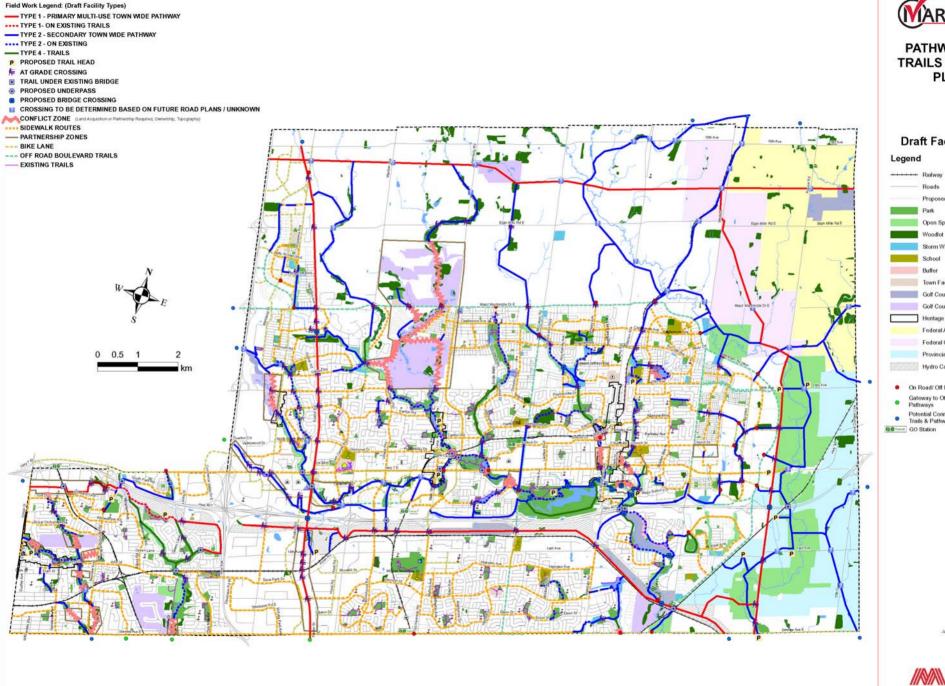
Town Facilitie
Golf Course

On Road/ Off Road
 Gateway to Other Pathways

Hydro Corride

Potential Connection Trails & Pathways
GO Station







PATHWA TRAILS M PLA

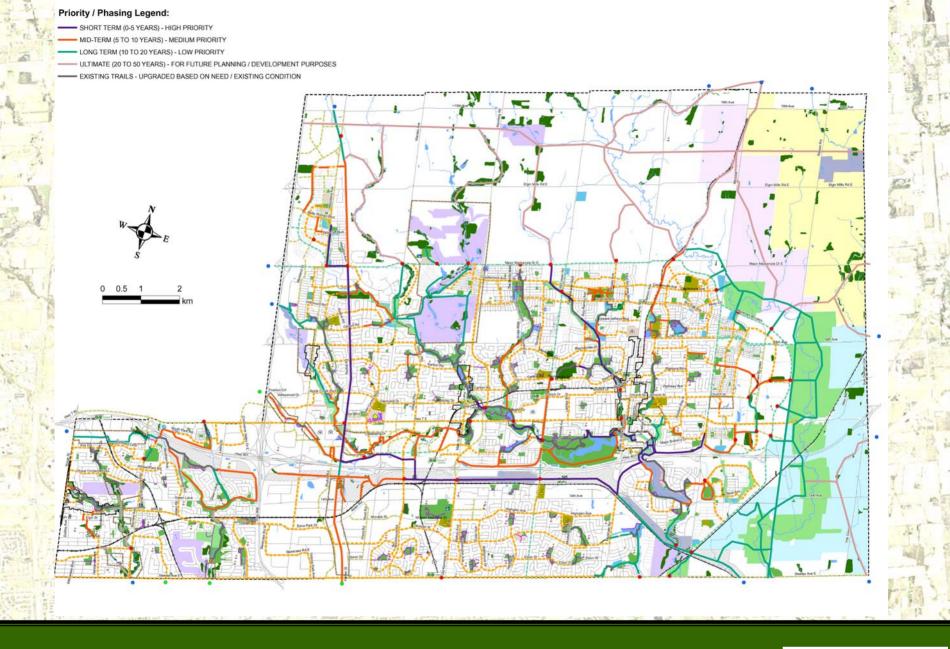
Draft Facil Legend



Hydro Comd On Road/ Off Road Gateway to Other

Heritage Dist Federal Airpo Federal Oper Provincial Op

Potential Connecti Trails & Pathways GO Station







Unit Costs for Selected Features

- Asphalt Pathway
- Limestone Pathway
- Signalized Pedestrian
 Mid-Block Road Crossing
- Steel Truss Pedestrian
 Bridge

= \$192,000 / km

= \$132,000 /km

= \$75,000 each

= \$2,800 /m

Notes: Pathway costs include rough grading in valley conditions





Order of Magnitude Costs

- **Existing Trails**
- Short Term (0-5 YRS)
- Med Term (5-10 YRS)
- Long Term (10-20 YRS)
- Ultimate (20-50 YRS)
- \$63.5 Million

- = 32kms
- = 25kms, \$10.4 Million
- = 65kms, \$19.4 Million
- = 42kms, \$22.3 Million
 - = 33kms, \$11.4 Million
- Total Network over 50 Years = 175kms,





Assumptions	Excluded
higher costs for valley construction	facilities by developers
2007 Prices – inflation will apply	Rouge Park facilities
based on conceptual information	property acquisition
all Type 2 trails implemented as asphalt	major utility relocation
includes 10% Design and Engineering	improvements to existing trails
includes 10% Town Project Management costs	regular trail signage and furnishings
includes 25% estimating contingency	excludes streetscape improvements to sidewalk routes
	major grading or site works





Operations / Maintenance Costs

- Operational / Maintenance cost difficult to estimate due to varying levels of maintenance
- Research indicates a range in maintenance from \$2,200 per km annually, to as high as \$14,000 for a highly maintained pathway (i.e. lighting, snow plowing, paving surface upgrade, etc.)
- Ultimate Master Plan = 175 kms
- Operations budget from \$385,000 to \$2.5 million annually once full system is implemented
- Operations and maintenance may be reduced by volunteer efforts
- Life cycle for trails and pathways is 15-20 years. Need to allocate Reserve Funds for life cycle rehabilitation.





Seven Major Funding Types:

- 1. Fees, Levies
- 2. Public Grants
- 3. Private Grants
- 4. Entrepreneurial
- 5. Assessments
- 6. Donations
- 7. User Pays







Potential CPAC Initiatives:

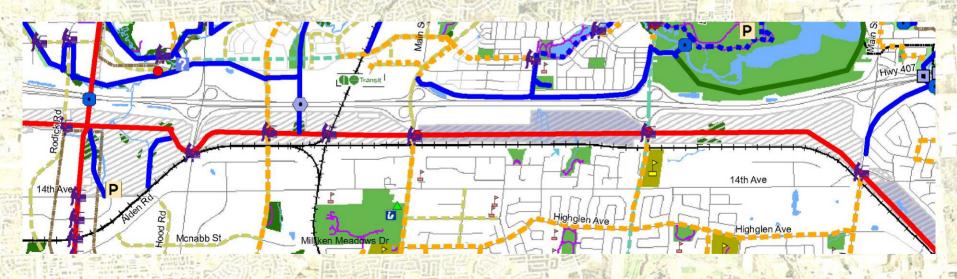
- the catalyst to organize fundraising events
- could organize and enlist volunteers
- hold events and festivals which are to celebrate and increase interest in the Pathway and Trail Network
- implement a program to pursue bequests, donations, and inkind donations
- implement and support programs such as "Adopt-a-trail", or "Buy-a-Foot" programs, some of which may already be in place
- pursue funding opportunities for pathway and trail projects
- Continue to Support and Promote Pathways and Trails as viable modes of ACTIVE TRANSPORTATION!





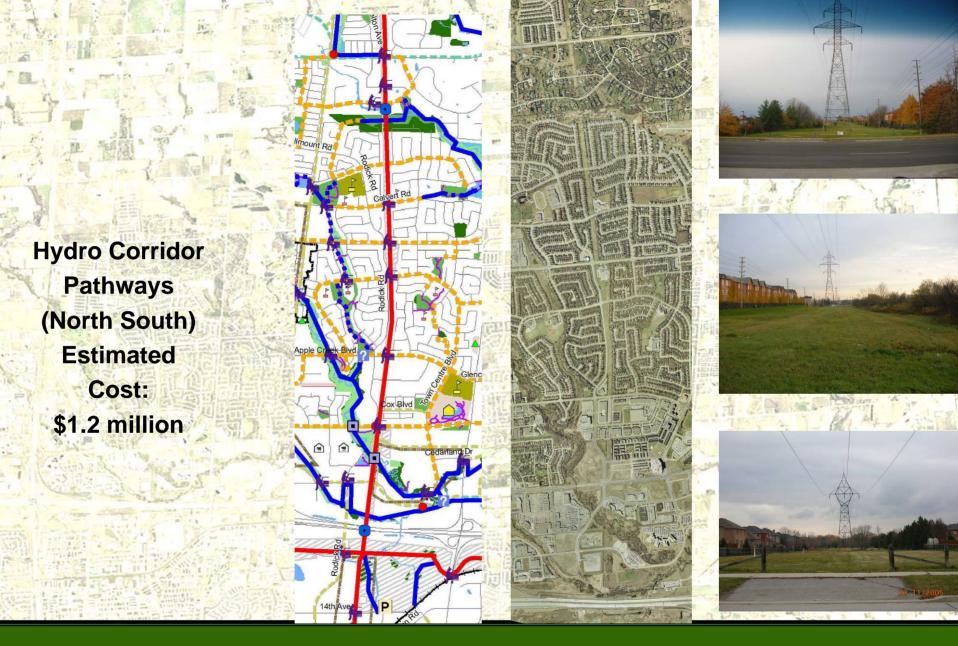


Hydro Corridor Pathways (East West) - Estimated Cost: \$2.0 million



















Why not other high priority projects?



- Other High Priority Routes Property Barriers
- Negotiations should begin immediately, while other projects with less barriers are undergoing detailed design and construction





Implementation Action Steps: (to be refined)

- Phased, multi-year, inter-departmental approach
- Staff Resources: Design, Construction, Operations, and Maintenance
- Gas Tax Funding and Town capital / DC funding per year
- Requires ongoing funding commitment (Capital & Operating)
- Priority projects: Hydro Corridor Pathways, and Milne Park to Main St. Markham
- Define approach to acquisition and easement negotiation
- Promotion and Marketing: Awareness
- Active Transportation
- Encourage and Support CPAC





The Next Steps:

- Final Public Open House in May to review Master Plan
- Final Revisions Based on Council and Public Feedback
- Coordination with the Other
 Ongoing Studies including the
 Bicycle Study and Regional Study
- Final Report Fall 2007 for Council Approval
- Consideration in capital budget process in 2008









