# Architecture& Reconnecting people to the significance of architecture.

# Markham Built Form, Massing and Height Study

DSC Meeting April 14, 2009



# Consulting Team

Sweeny Sterling Finlayson & Company Architects Inc-"&Co Architects" + GHK International

www.andco.com





# Study Purpose.

- To provide the tools to help Town Staff and residents understand what built form could result.
- The study will create consistent, predictable, generic built form guidelines for areas that are not currently subject to any planning controls and to form the foundation for future area studies.

# &Co

# Context Discussion.

Newmarket

- Markham is undertaking a Growth Management Strategy (GMS) exercise. There needs to be a better link between the overall GMS and a series of studies within a stronger policy context than currently exists. The outcome of this study will inform the Official Plan, Secondary Plans, Zoning By-laws, and Urban Design Guidelines for different intensification areas.
- To accomplish this, Markham has to determine how it will grow over the next 25 years in order to determine what the future Markham will look like.
- We are here to help you provide the tools to visualize the intensification component of the Growth Management Strategy.

Downtown Os Downtown Pickering Dorough Centre

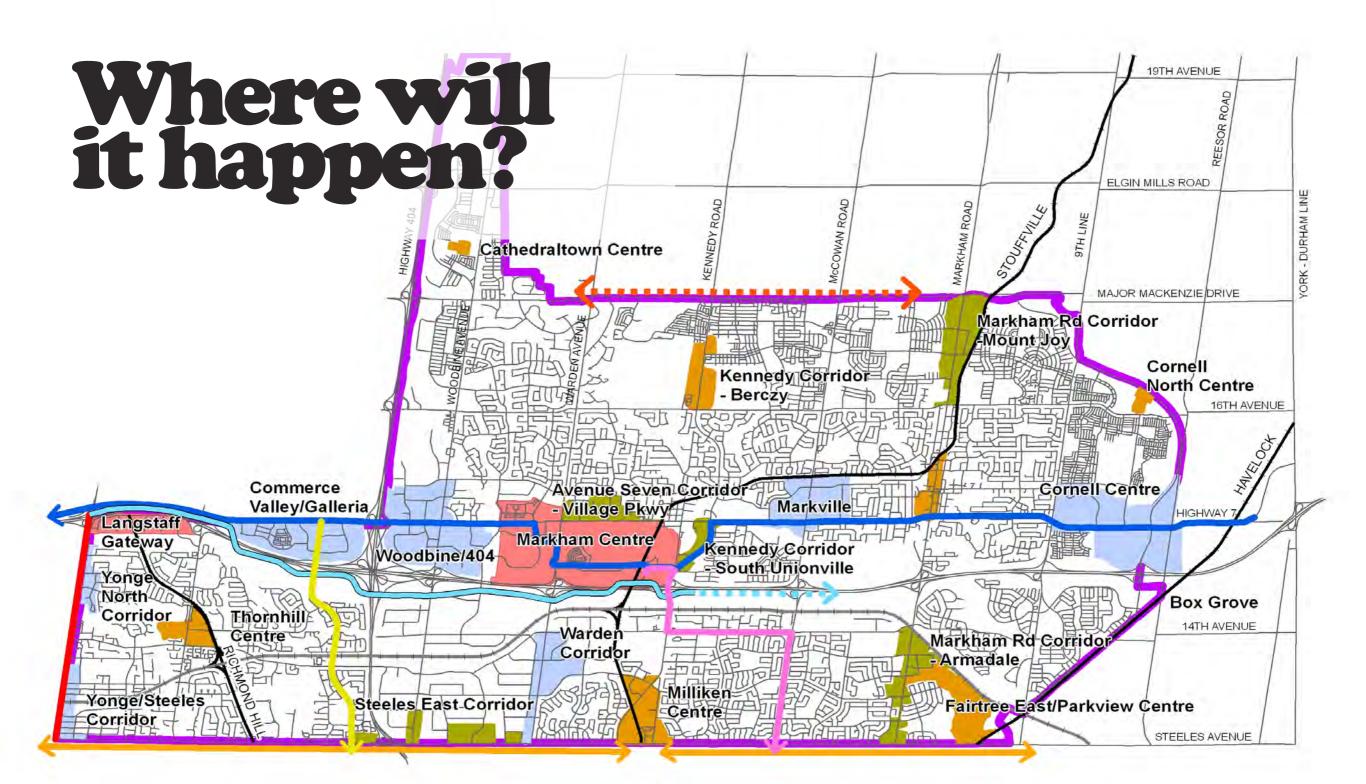
Lake Ontario

cronto













# Intensification & Density Study to-date

- -Density Study (Markham and GTA
- -Intensification Analysis, 2008
- -Intensification Strategy, 2009
- -Avenue Seven Corridor Study

Area Studies and Secondary Plan Review

**Markham Centre Cornell Centre** Langstaff Gateway Yonge/Steeles





469 units/ha (188 units/acre)



At-grade



# Best Practices Inventory

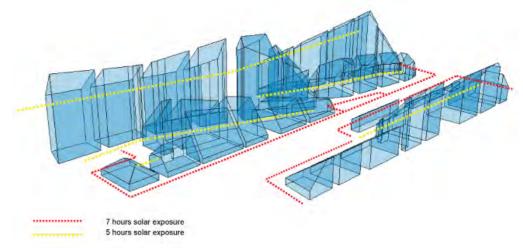
- We have looked into various practices/standards around Toronto, the GTA, and the world
- What methods have been employed, and what lessons have been learned?
- What works and what doesn't?

# **Block Pattern - Climatic Considerations**



## **Sun Studies**

Sky Exposure Planes









# Recent local initiatives that inform our study

# **Markham Proposals**

- -Langstaff Proposal
- -Times Proposal (Markham Centre)
- -Markham Centre Dev Corp
- -7171 Yonge Street

# **Markham Centre Charette** and Results

**Yonge Street Corridor** Study and Results









# Examples built to-date

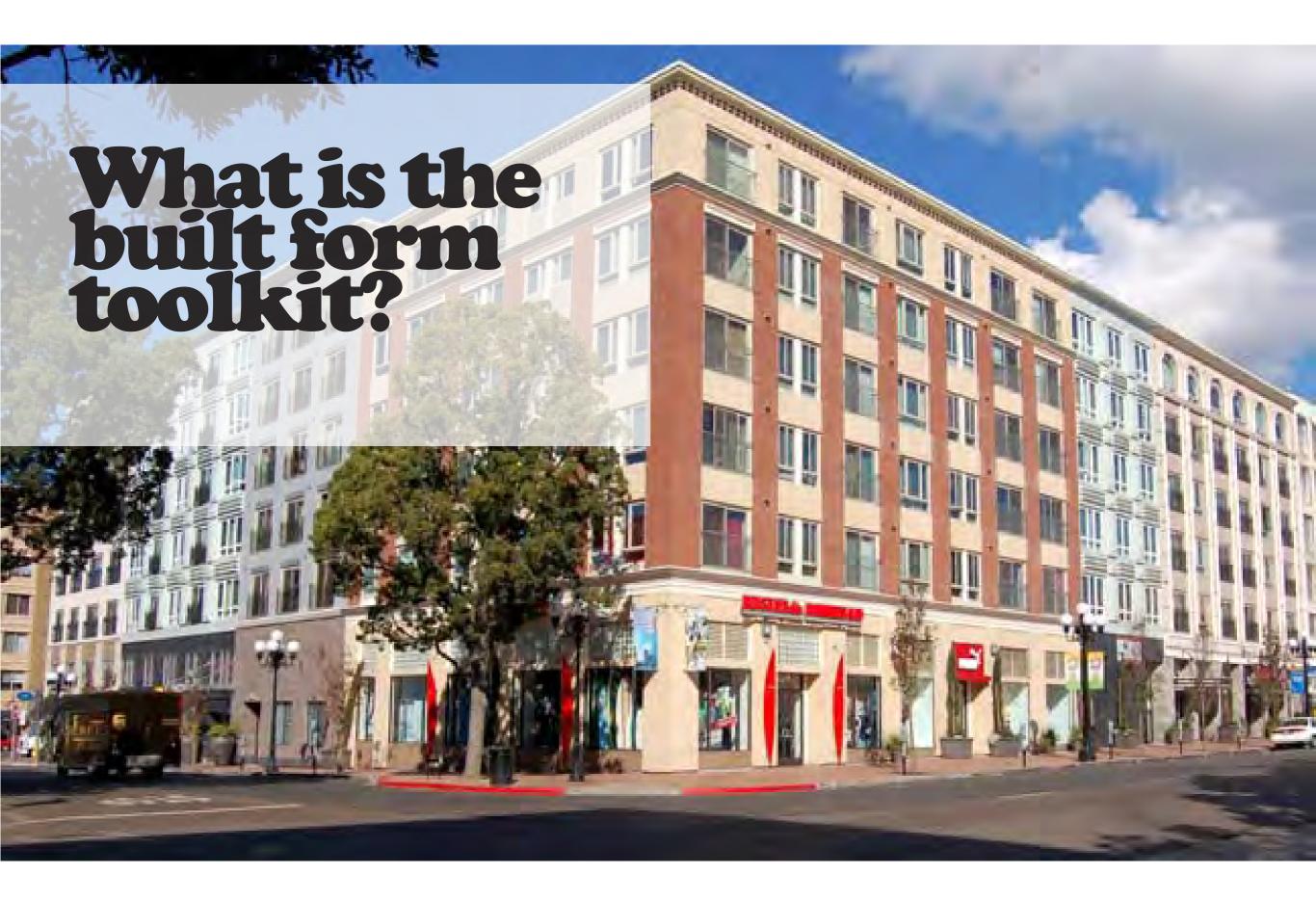
# **Lessons Learned in** Markham?

- Markham Centre (west of Warden)
- Cornell Centre Secondary Plan
- Yonge/Steeles Corridor
- Times Galleria
- Markham Centre-Remington











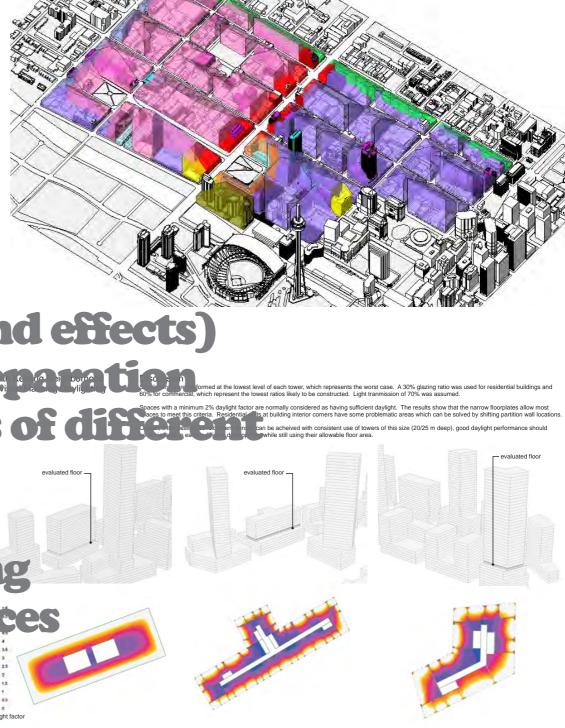


# Potential Tools

- Built Form Envelopes
- Height Contours
- Microclimate Study (inc. wind effects)
- Appropriate Tall Building Separation
- Transitions Strategies (areas of difference of the control of th

form and intensity)

- Sunlight Streets
- Solar Gain Building Modelling
- Sunlight Access to Open Spaces
- Public Realm Treatment
- Other livability criteria







# Study Content an Structure.

We are organizing the general "best practices" around five elements.

- 1 Built Form
- 2 Building Location
- 3 Streets and Blocks
- 4 Public Realm
- 5-Tools



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# I-Built Form.









- Building types for different uses
- Building Heights (including a variety of heights)
- Design Quality
- Transition in scale, setbacks, heights, building types and relationships





# 2-Building Location.



- Parking/Servicing/Utilities
- Setbacks at street
- Use and layout of ground plane
- Coordinating multiple buildings on one site
- Organizing buildings to create usable and valuable open space





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- Character and Function
- How do they define adjacent built form?
- Balancing objectives of vehicles vs. pedestrians
- What elements are included?











# 4-Public Realm.





- What is in the public realm?
- What kinds of open spaces are desired?
- Defining the public realm
- Coordination across private sites





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# 5-Tools.









- What is allowed under the Planning Act?
- Providing incentives to development?
- Providing incentives to an enhanced public realm?
- Design Review Panel?



# Report Structure.

# Sample Guideline Pages

# **Built** Form

sition should be provided between ow density areas.



## Guideline BF.14

Long built mass should be segmented with breaks to provide street variety, connections, views and opportunity for sunlight, and interest.



## Guideline BF.15

Appropriately locate taller buildings away from streets and lower-scaled areas.

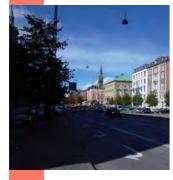


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# **Building Location**

# **Key Principles**

nould generally line up with one another t. Consistent setbacks will help create a



## Guideline BL.02

Differentiate entrances by setbacks, landscaping,



## Guideline BL.03

Design facades with windows and doors that support activity and surveillance.



# Streets and Blocks

# **Key Principles**

## ideline SB.13

nsolidate utilities and services in herever possible. Consolidation leads tion of future disruptions, and relieves



## Guideline SB.14

Provide sufficient planting space for mature trees. Incorporate advanced technologies in street design to allow for mature trees where planting space is



## Guideline SB.15

Locate transit stops and shelters to integrate with







MARKHAM BUILT FORM STUDY—BUILT FORM PRINCIPLES



