

# Markham's greenprint Community Sustainability Plan

General Committee Part A

May 10, 2010

# Process to Date

**Youth consultation (Oct-Dec 2007)**

**World Café Feb 2008**

**Council/Senior Leaders visioning session**

**Staff Workshops (July):**

- scope issues & sustainability goals

**Council Workshop (Oct. 6):**

- present and confirm draft sustainability goals

**Sustainability Fair (Oct. 24):**

- Public launch of process
- Education (Avi Friedman)
- Feedback on goals
- 80 residents attended

**Stakeholder Workshop (Dec 3):**

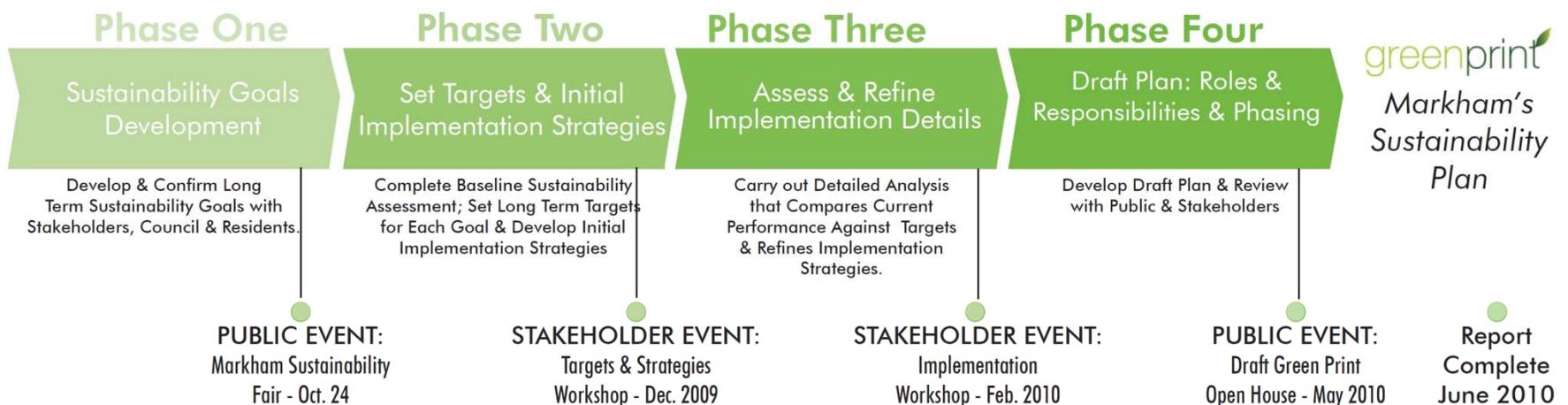
- Business/NGOs/other Governments
- Approx 80 stakeholders

**Council Workshop (March 29):**

- Draft Green Print discussion

**Stakeholder Workshops (April 26):**

- Business/NGOs/other Governments





## WHAT

we want to  
**sustain**  
in and about  
Markham

+

## HOW

we get there.  
Green Print = our  
strategic  
**implementation**  
plan

Green Print Structure

**Vision**

**Priorities**

**Strategies**

**Goals**

**Objectives**

**Recommendations**

# Priorities

**Identity + Culture**  
Unique sense of place,  
culturally vibrant + inclusive

**Individual Health**  
A community that  
facilitates wellness

**Shelter**  
Housing choice for all  
residents

**Food Security**  
Safe, accessible +  
healthy local food  
for all

**Access + Mobility**  
Access, connections +  
viable choices for all

**Education + Skills**  
High performing  
+ empowered  
community

**Economic Vibrancy**  
A 'business-ready' community  
that is competitive + oriented  
to future opportunities

**Materials Management**  
Facilitate a closed loop  
materials management system

**Water Efficiency**  
Reducing consumption +  
minimizing waste

**Ecosystem Integrity**  
Protect, restore + revive  
biodiversity + habitat

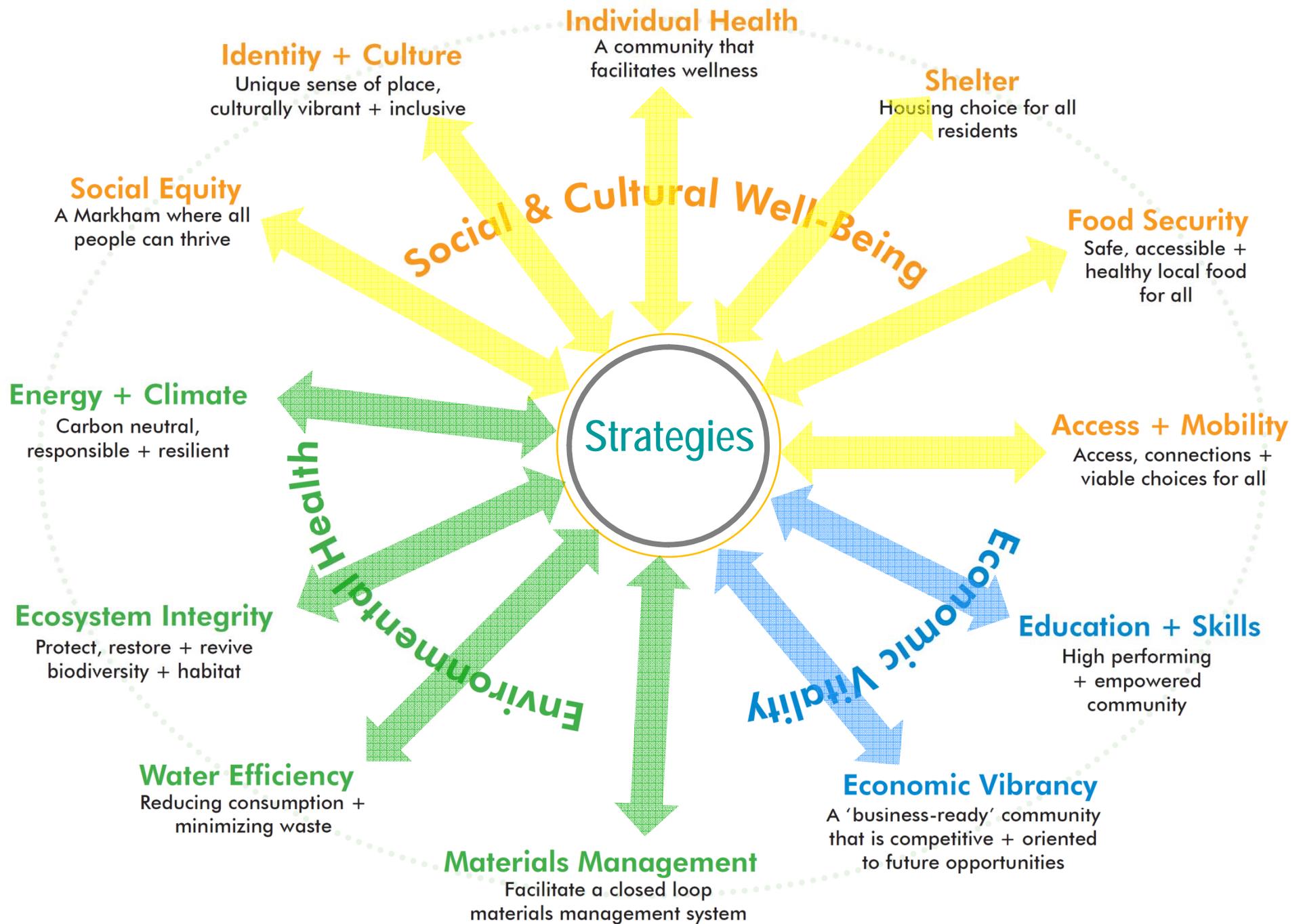
**Energy + Climate**  
Carbon neutral,  
responsible + resilient

**Social Equity**  
A Markham where all  
people can thrive

**Social & Cultural Well-Being**

**Environmental Health**

**Economic Vitality**



# Strategies

1. Complete Neighbourhoods as the Foundation of a Great Community
2. Robust and Resilient Community Systems
3. Continuing Health and Prosperity

# Complete Neighbourhoods as the Foundation of Communities

1. Walkable and Accessible Complete Neighbourhoods
2. Multi-Modal Transportation System
3. Integrated Network of Urban Open Space and Parks

# Complete Neighbourhoods as the Foundation of a Great Community

## 1. Walkable and Accessible Complete Neighbourhoods:

### **Objective - 1: Regenerate Existing Neighbourhoods**

- Define Neighbourhoods
- Strategic & Sensitive Mixed Use Intensification

### **Objective - 2: Plan, Design & Construct High Performance New Neighbourhoods**

- Intensive Mixed Use New Neighbourhoods
- Affordable Housing
- Energy Optimized New Neighbourhoods

# Complete Neighbourhoods as the Foundation of a Great Community

## 2. Multi-Modal Transportation System:

### **Objective -1: Create Pedestrians, Cyclists & Transit Users out of Drivers**

- Shift Spending & Planning Focus
- Integrated Routes & Facilities
- Transit-Oriented Development
- Support Pricing Policies

### **Objective - 2: Create Roads for All Users**

- Focus on Active Modes
- Road Re-classification System
- Create Safe Roads for all Users

# Complete Neighbourhoods as the Foundation of a Great Community

## 3. Integrated Parks, Trails & Open Space Network

### **Objective -1: Connect Community Destinations**

- Urban Trail Network (off- and on-road networked system)

### **Objective - 2: Maintain Viable Urban Habitats**

- Habitat Enhancement
- Urban Forest
- Educational Resources

# Robust and Resilient Community Systems

4. High Performance Healthy Buildings
5. Smart and Resilient Water, Energy, Waste Management, Information, Transportation Infrastructure and Services
6. Viable Ecosystems and Landscapes
7. Create and Support Local Food System

# Robust & Resilient Community Systems

## 4. High Performance Healthy Buildings: Net Zero Energy, Water, Waste and Emission Buildings by 2030

### **Objective -1: Retrofit Existing Buildings**

- Educational & Awareness Resources
- Retrofit Programs

### **Objective - 2: High Performance and Green New Buildings**

- Meet the Living Building Challenge 2.0 starting 2015
- Net-Zero Policy & Regulatory Strategy
- Energy Modelling
- Operations target
- Dual plumbing systems
- Recycled and Regional Content
- Split Incentive
- Awards

# Robust & Resilient Community Systems

## 5. Smart and Resilient Water, Energy, Waste Management, Information, Transportation Infrastructure and Services

### **Objective -1: Develop a Smart and Reliable Infrastructure Network**

- Infrastructure Monitoring
- Smart City Initiative
- Neighbourhood Distributed Energy

### **Objective -2: Build and Retrofit Adaptable and Integrated Infrastructure for new Infrastructure Systems**

- Integrated Systems
- Waste Heat Recovery

# Robust & Resilient Community Systems

## 5. Smart and Resilient Water, Energy, Waste Management, Information, Transportation Infrastructure and Services

### **Objective - 3: Achieve Zero Waste**

- Culture Shift
- Community Diversion Days
- Seek Commitments from Businesses
- Producer Responsibility
- Green Procurement
- Increase Waste Diversion
- End of Life Financing

### **Objective - 4: Maximize Water Efficiency and Minimize Wastewater Generation**

- Integrated Storm Water Management
- Displace Drinking Water Use
- Distributed Water Strategy
- Increase Water Efficiency
- Water Pricing

# Robust & Resilient Community Systems

6. Viable Ecosystems and Landscapes: Net increase in extent of natural function within Markham's urban environment and preserve existing natural areas.

## **Objective -1: 30% Tree Canopy and Vegetation Coverage in the Urban Environment.**

- Urban Forest
- Native Species
- Markham Nursery
- Appropriate Tree Type and Location
- Wildlife Habitat
- Private Sector Codes
- Tree Care
- Understory and Canopy Regeneration
- Reclaim Urban Timber
- Local Food

# Robust & Resilient Community Systems

6. Viable Ecosystems and Landscapes: Net increase in extent of natural function within Markham's urban environment and preserve existing natural areas.

## **Objective - 2: Develop and Support Wildlife Habitat**

- Connect Disconnected Green Spaces
- Flexible Multi-Faceted Landscapes
- Renaturalize
- Natural Heritage Network
- Urban Edge
- Refuge Opportunity

# Robust & Resilient Community Systems

## 6. Maintain Smart and Resilient Water, Energy, Waste Management and Communication Infrastructure and Services

### **Objective -3: Implement Adaptable an Integrated Infrastructure for New Infrastructure Systems**

- Integrated Systems
- Waste Heat Recovery

### **Objective - 4: Use Water Efficiently and Minimize Wastewater Generation**

- Integrated Stormwater Management
- Water Reuse
- District Water Strategy
- Water Pricing

# Robust & Resilient Community Systems

7. Create & Support a Local Food System: Significantly increase food growing, celebration and processing in Markham.

## **Objective -1: Support Education and Engagement in the Local Food System**

- Food Policy Council
- Food Literacy
- Incubate New Farmers
- Garden Network

## **Objective -2: Significantly Increase Community Food Producing Opportunities**

- Community Gardening
- Private Community Gardens
- Backyard Sharing Program
- Learning / Demonstration Gardens
- Community Orchard
- Residential Soil Standards
- By-law Alignment

# Robust & Resilient Community Systems

7. Create & Support a Local Food System: Significantly increase food growing, celebration and processing in Markham.

## **Objective - 3: Significantly Increase the Viability of Local Commercial Food Growing and Processing**

- Promote and celebrate local foods
- Farmer's markets, roadside foodstands
- Sale of local grown /processed foods in schools
- Development of food precinct
- Markham's future economic plans
- Incentive programs for farmers

# Strategies

## **Continuing Health & Prosperity**

8. Healthy People
9. Inclusive and Engaging Government
10. Nurture Sustainable Economic Development
11. A Culture of Excellence

# Continuing Health & Prosperity

8. **Healthy People:** Proactively create the conditions for physical and mental health within Markham.

## **Objective -1: Promote and Support Physical Health**

- Provide equal access to recreational services
- Safe routes to school
- Heating and cooling centres
- Healthy eating and lifestyle education
- Ban smoking in all areas open to the public
- Eliminate sales of junk foods

# Continuing Health & Prosperity

## 8. Healthy People: Proactively create the conditions for physical and mental health within Markham.

### **Objective - 2: Promote and Support Mental Health**

- Coordinate mental health services with partners
- Life long learning
- Sense of belonging
- Reduce isolation of vulnerable individuals
- Create welcome centres for newcomers
- Facilitate interaction among diverse cultural groups
- Foster understanding of mental health issues

### **Objective - 3: Reduce the Impacts of Household Poverty**

- Geared to income transportation and housing strategy
- Engage and empower vulnerable residents
- Assign Social planning role within the Town
- Create community resource centres

# Continuing Health & Prosperity

9. Inclusive and Engaging Government: A Council and Committees that are representative of Markham's cultural, household income, and gender demographic composition.

## **Objective - 1: Encourage Greater Resident Involvement in Decision Making and Community Stewardship**

- Civic classes
- Implement an “Active Neighbourhood Associations” governance in place of ratepayers associations
- Target specific groups for committee membership
- Coordinate all government services within neighbourhoods
- Community Engagement Policies

# Continuing Health & Prosperity

9. Inclusive and Engaging Government: A Council and Committees that are representative of Markham's cultural, household income, and gender demographic composition.

## **Objective - 1: Promote Greater Youth Involvement in Decision Making and Participation**

- Leverage social media as a means to communicate with youth
- Develop a shadow youth council where members of council and staff serve as mentors
- Engage at-risk youth
- Space for youth at municipal facilities
- Mentorship opportunities
- Compensation mechanism to attract youth to government

# Continuing Health & Prosperity

## 10. Nurture Sustainable Economic Development: create 100000 new jobs

### **Objective -1: Facilitate and Support Markham's Existing Businesses**

- Implement Markham 2020
- Implement a buy local campaign for locally produced or packaged goods and services.
- Focus efforts on to create local employment opportunities for underemployed and/or low income households
- Develop Eco-Business Districts
- Promote community and business mentorship

# Continuing Health & Prosperity

## 10. Nurture Sustainable Economic Development: create 100000 new jobs

### **Objective - 2: Promote Green Business Development and Business Greening Strategies of Existing and New Employers**

- Strategically target 'green jobs'
- Create demand for local employment in the green energy sector and local food production and processing
- Excellence through research and technology
- Local food businesses and services
- 25,000 green jobs
- Markham based-centre of green technologies

# Continuing Health & Prosperity

## 10. Nurture Local & Future Opportunities that lead to Sustainable Economic Development

### **Objective - 3: Support Additional Areas where Employment can Occur**

- Increase Employment in Intensification Areas Supported by Higher Order Transit
- Increase businesses that can be walked to

# Continuing Health & Prosperity

## 11. A Culture of Excellence

### **Objective - 1: Life Long Learning and Skills Development**

- Promote access to education and skills development opportunities at all stages of life and career.
- Promote awareness of sustainable living choices.
- Work with local schools
- Develop future generations of leaders that will support Markham from within and beyond
- Barrier free access to education
- Promote arts and cultural education

### **Objective - 2: Promote and Celebrate all that Makes Markham Great**

- Implement public art policy
- Foster a Unique Sense of place that defines Markham identity.
- Capitalize on Markham's history and diversity
- Harness the talents of new residents
- Create community coordinator position for festivals & events
- Support and enhance Markham's art community

# Schedule / Process to Come

**Report to Council** (May 10)

**Draft Launch** (June 5 - World Environment Day)

**Part B General Committee Presentation** (June 14)  
- Release Draft for consultation document



# Name the **TOP 2 strategies** that affect you the most?

## **1.Complete Neighbourhoods as the Foundation of Communities:**

- Walkable, complete neighbourhoods
- Multi-Modal Transportation System
- Integrated Network of Urban Open Space and Parks

## **2.Robust and Resilient Infrastructure:**

- High Performance Healthy Buildings
- Build and Maintain Resilient Infrastructure & Services
- Smart and Reliable Infrastructure Network.
- Viable Ecosystems and Landscapes
- Create and Support Food System

## **3.Continuing Health and Prosperity**

- Healthy People
- Inclusive and Engaging Government
- Nurture Sustainable Economic Development
- Culture of Excellence

Markham's **greenprint**  
Community Sustainability  
Plan