

# Digital Markham Strategy

PRESENTATION TO GENERAL COMMITTEE

Jan. 16, 2017



## Agenda

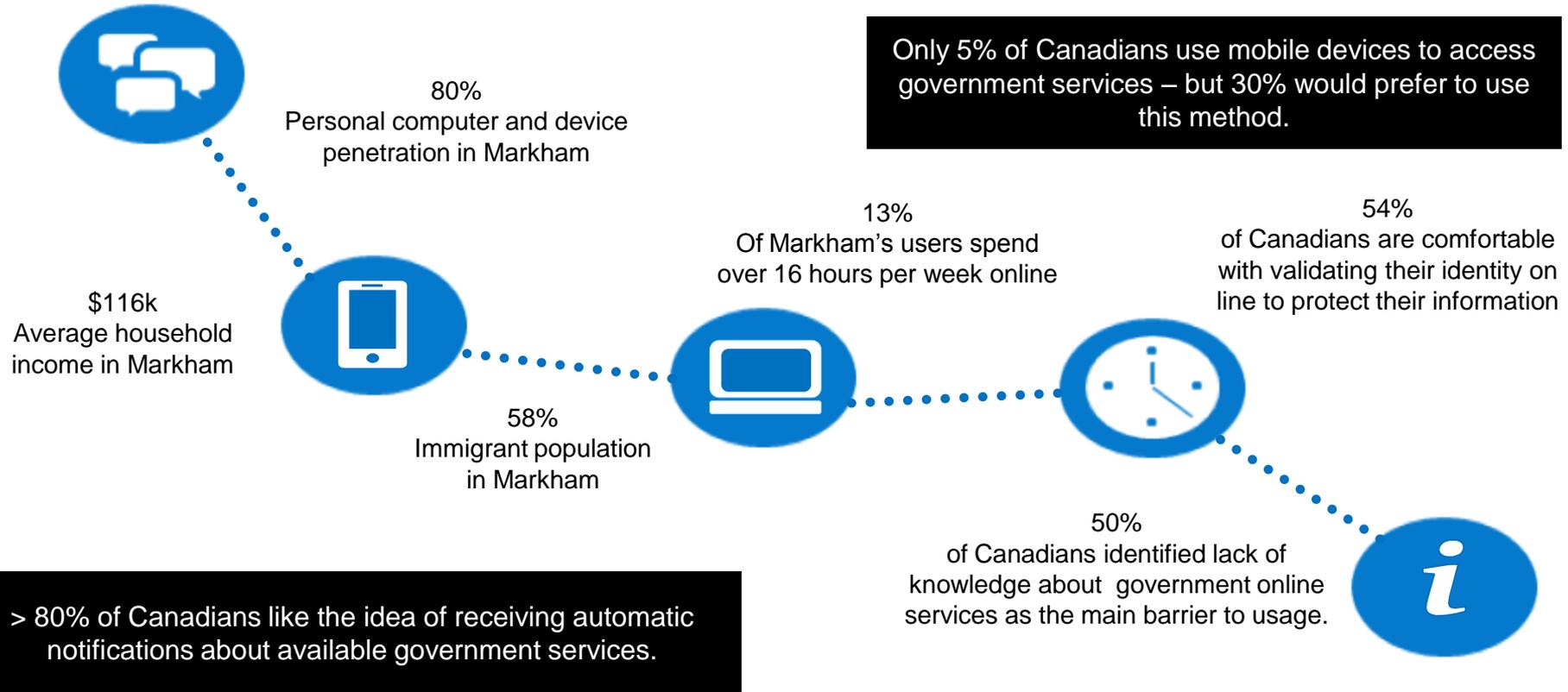
- Background
- Current State Assessment
- The Vision
- The Roadmap
- Opportunities
- Recommendations

# Background: What is digital change?

The **digital revolution** is a wholesale shift in the way consumers **interact and engage** with organizations which has tremendous impact on all businesses and services.

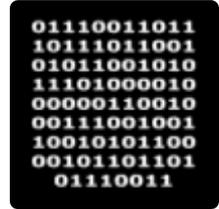
- ❑ The shift has increased individuals' expectations, transforming the way society behaves and interacts.
- ❑ This is enabled by rapid technology advances in mobile, cloud computing, "Internet of Things", and real time analytics
- ❑ Digital has created a new, agile method to manage and access personal, public and corporate information.
- ❑ As a result, organizations are now investing significantly in Digital Change programs to keep up with the fast paced demands and reap the benefits of the digital revolution.

# Background: Markham citizens are ready for digital



# Background: Project phases

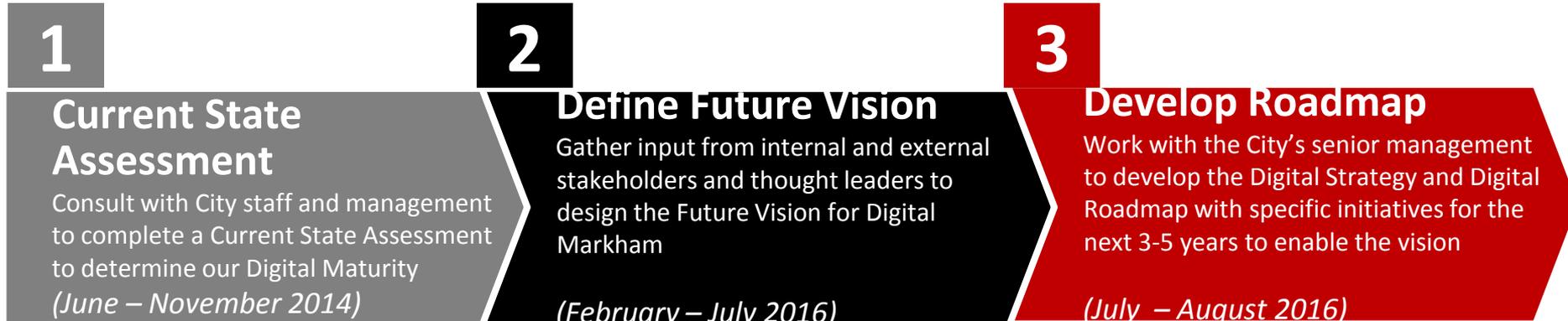
Markham engaged the consulting firm  to develop the City's Digital Strategy (as approved by Council in 2014)



## DIGITAL

A broad range of technology that enhances citizen engagement, improves employee collaboration, & optimizes service delivery.

The Digital Strategy Project spanned 3 phases:



# Background: The Digital Readiness Assessment

Markham's current state digital maturity level was assessed against the 5 digital dimensions below and scored from Level 1 (lowest) to Level 4 (highest).

<p><b>Online</b></p> 	<ul style="list-style-type: none"> <li>• Online presence and integration</li> <li>• Search capability</li> <li>• Multimedia capability</li> <li>• Stakeholder interaction and communication</li> <li>• Online governance</li> </ul>	<ul style="list-style-type: none"> <li>• Social strategy</li> <li>• Presence and usage</li> <li>• Monitoring &amp; resolution capability</li> <li>• Social policy</li> <li>• Social governance</li> <li>• Social engagement</li> </ul>	<p><b>Social</b></p> 
<p><b>Mobile</b></p> 	<ul style="list-style-type: none"> <li>• Mobile strategy</li> <li>• Presence and integration</li> <li>• Stakeholder data and insights</li> <li>• Application development capability</li> <li>• Mobile governance</li> <li>• Usage statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Data and integration</li> <li>• Networks</li> <li>• Open data</li> <li>• Customer data and insight</li> <li>• Security and disaster recovery</li> <li>• Data privacy and protection</li> <li>• Digital policy</li> </ul>	<p><b>Infrastructure &amp; Data</b></p> 
<p><b>Organization</b></p>  <ul style="list-style-type: none"> <li>• Executive sponsorship</li> <li>• Senior team involvement</li> <li>• Strategy</li> <li>• Organizational alignment</li> <li>• Change management</li> </ul>		<ul style="list-style-type: none"> <li>• Business process automation</li> <li>• Staff demographics</li> <li>• Procurement</li> <li>• Culture</li> </ul>	

# Current State: Initial investments in digital show results

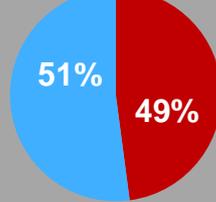


First online voting in North America

**6,000**  
Average daily visits

10% via tablet

■ returning visitor  
■ new visitor



45% via mobile

55% via desktop



**50**  
Average Per Day

Early adopters of

**VoIP**

**100%**  
Broadband Connectivity to City Facilities

**Today**

The City is actively executing digital initiatives

**75%**  
Online recreational activity registration

**100%**  
of City Facilities offer Wi-Fi access

**126,000**  
eBooks available online @ Markham Public Library

**47%**  
of staff are equipped to be mobile

**50%**  
IP-enabled LED



Digital Services on markham.ca

**77**

Services available



**65%**

Integrated with back-end systems



Social Markham

9,433 followers

1,646 followers

11,403 views

5,363 likes

130,019 views



**9,000+**

downloads of Access Markham mobile app

**BYOD**

Across popular platforms



**6,000+**

residents engaged online

Vehicles equipped with AVL



**100%**

20,000

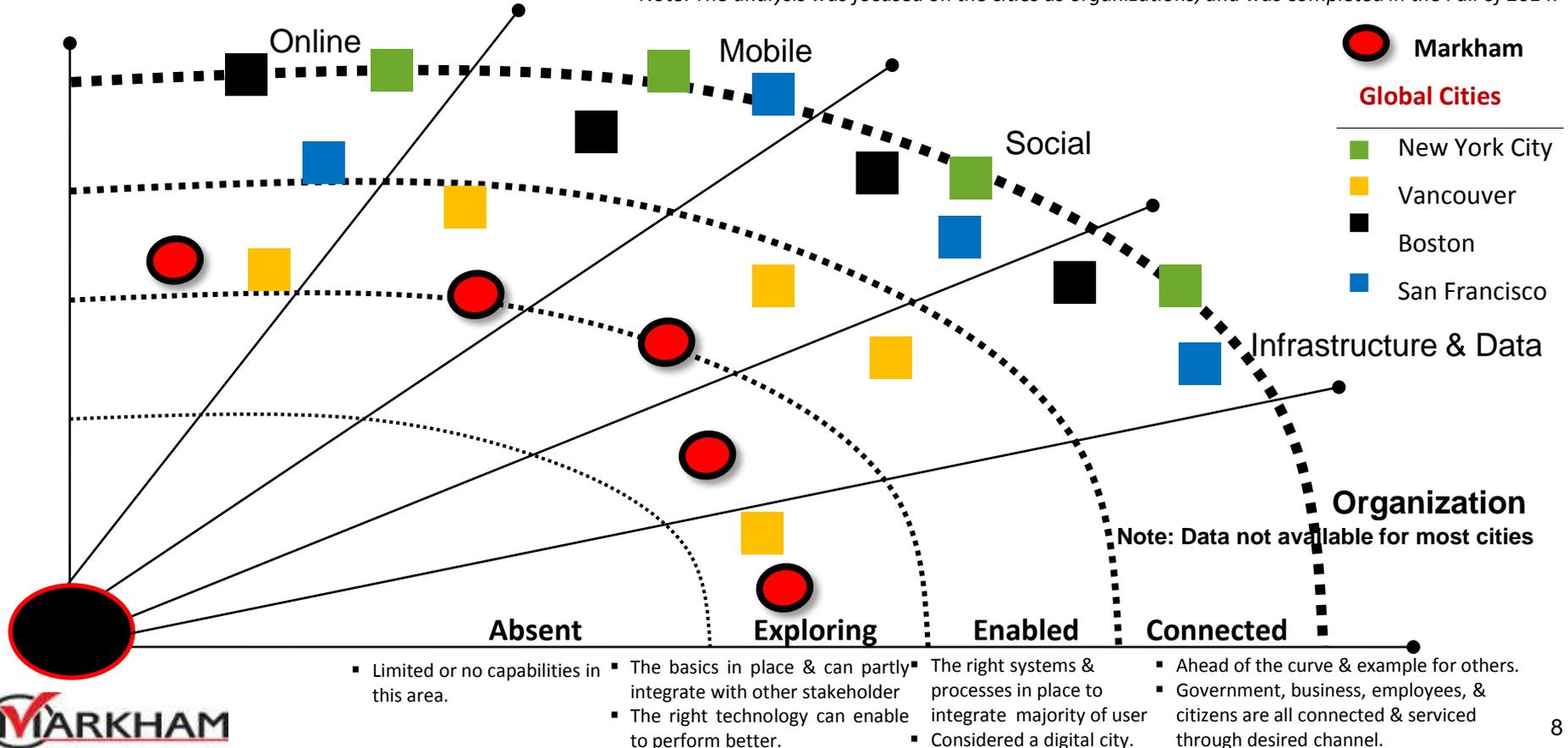
Portal visits as reported by Google Analytics



# Current State: How Markham compares to others

The following depicts a relative comparison of digital capabilities against 4 global cities.

*Note: The analysis was focused on the cities as organizations, and was completed in the Fall of 2014.*



# Current State: Opportunity areas identified for Markham

## Online



- Robust search capability
- More single-sign-on to access services
- Fully integrated end-to-end workflow
- Stakeholder interaction, blogs

## Social



- Social media strategy
- Data analytics for decision /customer information etc.
- Use for public meetings & polling

## Mobile



- Mobile strategy
- Data analytics for decision
- Mobile marketing
- Capacity building and innovation

## Infrastructure and Data



- Cloud strategy
- Open data policy & implementation
- Data analyse from multiple sources
- Data privacy and communication

## Organization



- People, processes, systems, partners in digital value chain
- Change management
- Governance and digital champion
- Digital corporate culture

# The Vision: Consultation and key results

To shape Markham's digital vision, the City consulted with industry insiders, digital thought leaders, business executives, citizens and staff. Priorities and topics that emerged are shown below:

  
PlaceSpeak **35**

**Ideas Forum**  
Citizens posted views re digital government on an online crowdsourcing platform

## Priorities:

- Real-time alerts (e.g. power outages, road closures, events)
- Report parking infractions on app

## Key topics:

- Online voting
- Online By-law information
- Public Wi-Fi in historic main streets and downtown core
- Calendar of local & City events

  
**70**

**Focus Groups**  
Community groups & City Staff provided ideas for a technologically innovative community and future vision

## Priorities:

- Seamless customer experience
- Addressing the 'Digital Divide'
- Internet of Everything

## Key topics:

- Open data
- Smart buildings / traffic
- Digital workplace
- High speed internet / Wi-Fi
- Innovation (Partnerships)

  
**37**

**Catalyst Session**  
Innovative workshop with thought leaders to explore initiatives and scope digital strategy for the City

## Priorities:

- 'Smart' infrastructure
- Re-imagined public spaces
- Frictionless city

## Key topics:

- Secure access to citizen data
- Enhanced Community Centres
- Customizable city service offerings
- Access & mobility
- Shared & sustainable transportation

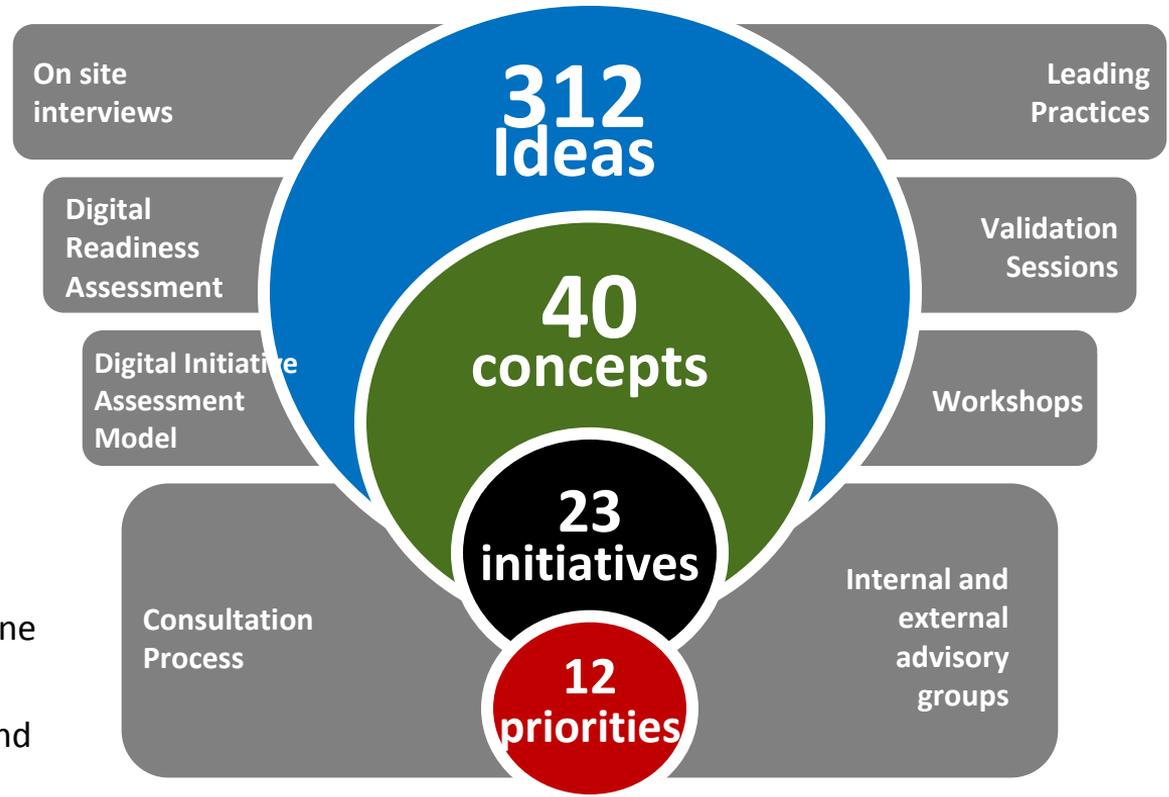
# The Vision: From ideas to priorities

## The Goal:

- Condense ideas and feedback into a Digital Strategy and Roadmap
- Create specific initiatives/priorities to move Markham into the digital future

## Initiatives/Priorities for the Roadmap must:

- Align with the corporate goals
- Meet predefined guiding principles
- Move Markham forward in at least one Digital Maturity area
- Be defined as a priority by internal and external stakeholders



**12 key priorities were chosen for the roadmap**

# The Vision: Guiding Principles for the Strategy

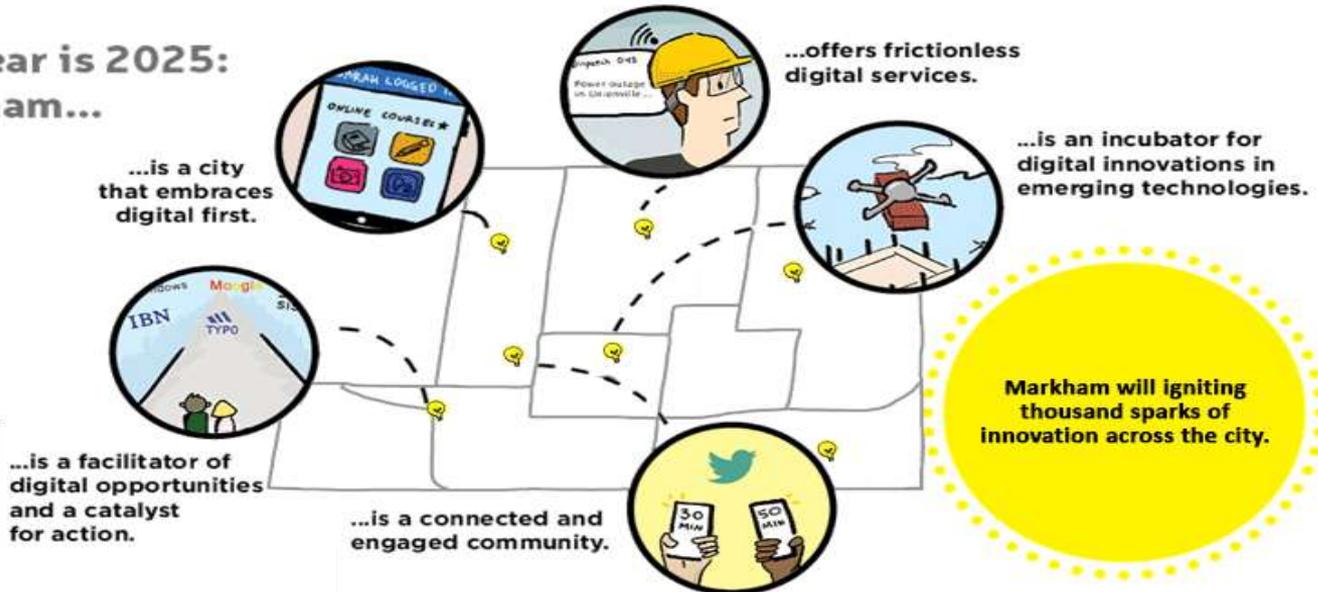


# The Vision: Markham in 2025

## #Digital Markham. Frictionless City.

The City of Markham is a platform for digital innovation and collaboration between citizens, business, and government that contributes to the overall quality of life in the city.

The year is 2025:  
Markham...



# The Vision: Digital initiatives and objectives

## Engaging and Serving the Community

- Continue to enhance the suite of fully integrated online and mobile service offerings
- Promote collaboration through digital tools
- Build on the library as a center for excellence in digital literacy
- Continue to develop Markham's role as a leader in Digital Democracy



## The Digital Differentiator for Business

- Create a favourable regulatory environment that facilitates digital innovation, agility, and economic development
- Create a framework for engaging strategic partners in achieving the #DigitalMarkham vision

### Vision: Frictionless City



## The City as a Platform

- Create "Living Lab" and innovation hubs
- Implement an open data platform and the ongoing governance model
- Establish Markham's identity as a Digital Destination

## The Digital Workplace

- Drive digital transformation to enable business integration across business units
- Create the capacity to leverage data as an asset
- Establish the foundation of a digital culture and a Digital Operating Model at the City



# The Roadmap

Priority	Digital Initiative	2017	2018	2019
1 **	Create “Living Lab” and innovation hubs	Meet with DAG to identify action plan Pilot the Living Lab	Full Living Lab environment at Markham Centre	Additional Living Labs Go-Live
2 **	Create a favourable regulatory environment that facilitates digital innovation, agility, and economic development	Updated procurement policy, Identify quick win for smart infrastructure, Identify new business partners	Changes to bylaw policy implemented	
3	Implement an open data platform and the ongoing governance model	Identify open data platform, Publish quick win data sets	Governance model established, Engaging public using open data	Open data as part of daily activities, Host hackathon
4 **	Create a framework for engaging strategic partners in achieving the #DigitalMarkham vision	Digital Alliance Group founded	Go-live with small business procurement process, Talent plan established	Introduce Civic Tech Advocate, New partnership framework implemented
5	Drive digital transformation to enable business integration across business units	Enterprise PMO established, Workplace personas envisioned	Test out an Enterprise Architecture (EA) quick win	Implement EA solution, Pilot a new digital process across business units
6	Promote collaboration through digital tools	Digital collaboration standard established Tool procured	Content Strategy Collaboration is BAU, Using sentiment tools	

 Initiatives anticipated to have a high impact on establishing Markham’s identity.

\*\* Priorities recommended by the consultant

# The Roadmap...cont'd

Priority	Digital Initiative	2017	2018	2019
7 **	Establish the foundation of a digital culture and a Digital Operating Model at the City	Identify a Digital Champion, Establish Digital Operating Model	Pilot work-from-home for one business unit, Develop internal dashboard	Mobile work fully enabled
8	Create the capacity to leverage data as an asset	Information arch design, MDM strategy	Business analytics strategy	Answer a business question using current data, Roll out IM team and governance model
9 **	Continue to develop Markham's role as a leader in Digital Democracy	Strategy for election day, online voting established	Election day	Hold Summit on Online voting learning's, Plan for 2022 vote
10	Continue to enhance the suite of fully integrated online services and mobile service offerings	Procure user experience Team, Quick fix on Portal, Digital Service Roadmap	Go-Live Portal and Mobile App refresh	CRM accessible across business units
11	Establish Markham's identity as a Digital Destination	New digital identity established and communicated		Launch new Markham 2020 strategy including digital initiatives, Establish innovation award
12	Build on the library as a center for excellence in digital literacy	Collab hub with digital tools & infra, Strategy for Digital Literacy	Go-Live with new Digital Literacy curriculum online	Roll out more collab hubs after test & learn

 Initiatives anticipated to have a high impact on establishing Markham's identity.

\*\* Priorities recommended by the consultant

# The Roadmap: City digital initiatives underway

## Online



- Robust CRM to manage citizen inquiries \*\*
- Complete redesign of markham.ca \*\*
- CLASS Program Registration system replacement \*\*
- Point of Sale (POS) cashiering system replacement\*\*
- Electronic Plan Review (ePlan) implementation \*\*

## Social



- New intranet employee portal with collaboration capabilities

## Mobile



- Mobile app functionality enhancements and updates

## Infrastructure and Data



- Document Management system pilot
- Implementation of system for records management, storage & retrieval
- Open data policy & implementation

## Organization

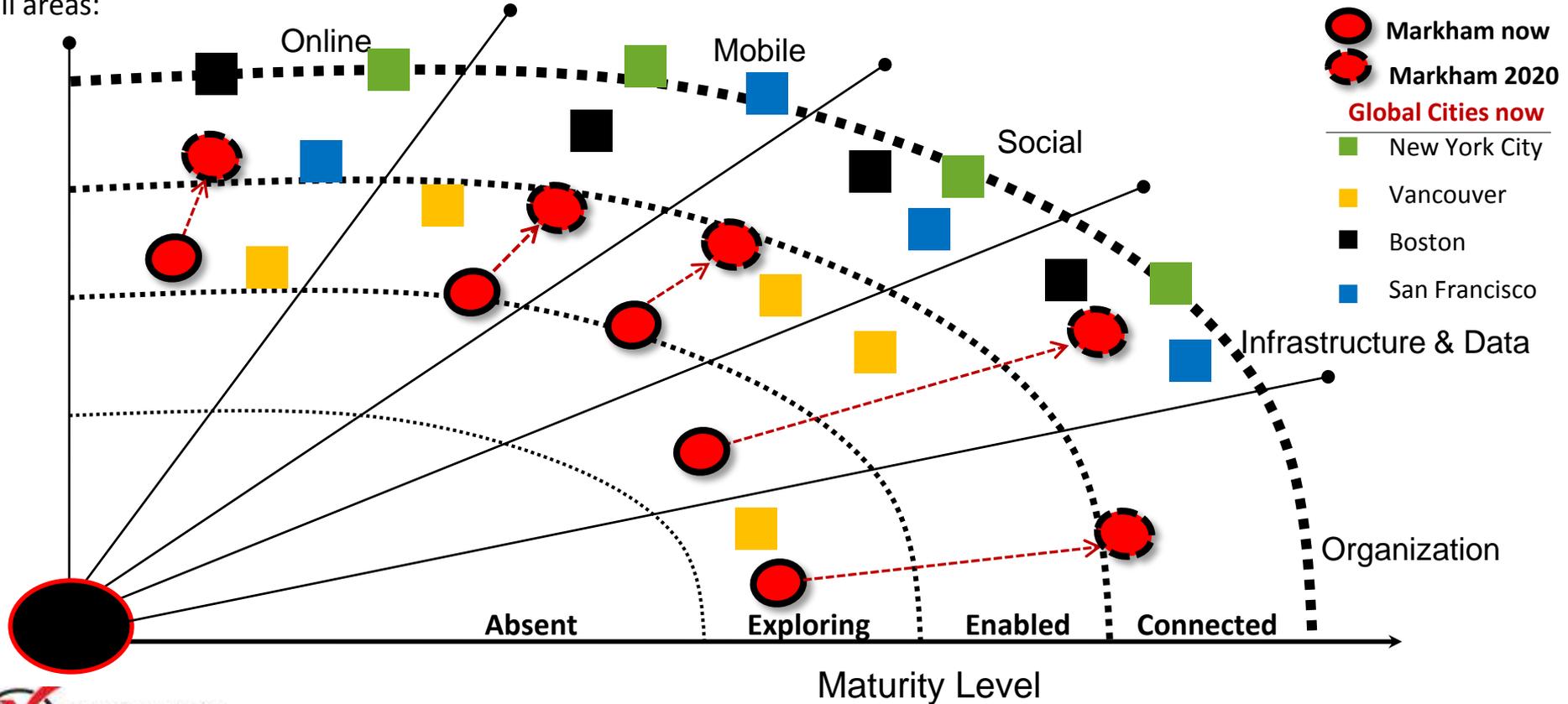


- Corporate Content Management System for all City facilities \*\*
- Replacement of user computing equipment across the City \*\*
- Learning Management System replacement \*\*
- Human Resource System implementation \*\*
- Work-order / Enterprise Asset Management system implementation \*\*

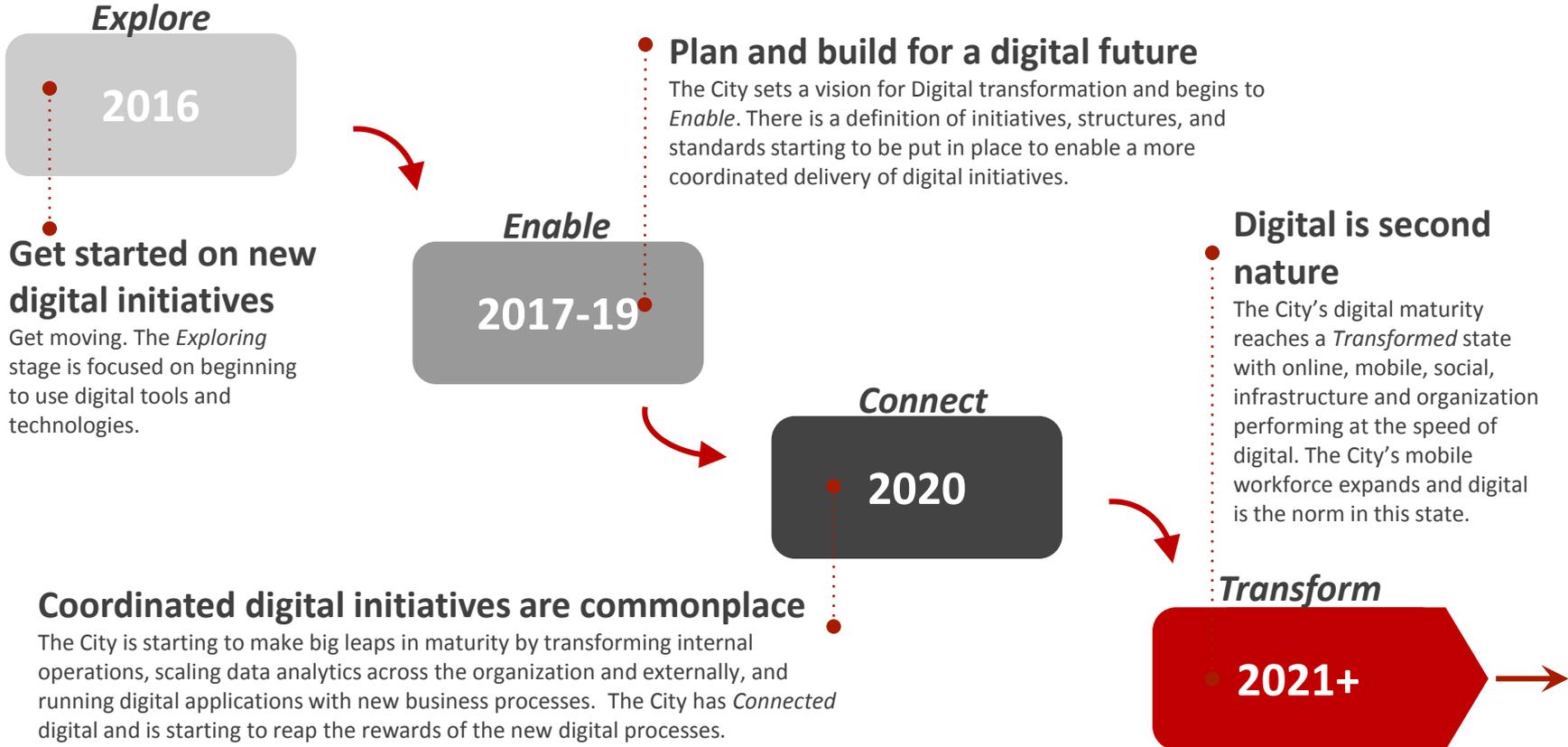
\*\* initiatives that could advance more than one area of maturity

# The Roadmap: 2020 Outlook for Markham

If the City of Markham achieves its objectives as outlined in this strategy, the outlook for digital maturity will ADVANCE in all areas:



# The Roadmap: Summary



# The Roadmap: Digital City Benefits for Markham

## Economic differentiator

- Renewed digital vibe attracts/retains business, residents & creates jobs
- Opportunity to be a recognized leader in digital innovation
- New working partnerships
- Leverages York/Seneca and high tech sector

## Customer/citizen experience

- Improved customer experience & satisfaction
- Real time, increased citizen engagement & collaboration; leader in digital democracy

## Service delivery

- More sustainable & efficient business processes, better service delivery
- Data-driven decision -making
- Digital work environment and that is agile/responsive and ready for next generation

## Keeping pace and staying relevant

- Doing nothing is not an option

# Opportunities

## ❑ Funding

- Existing approved budget of \$900K for implementation of aspects of the strategy (obtained through lifecycle)
- Direct 2018 – 20 annual technology capital budgets to initiatives that advance the strategy, as a priority
- Long-term sustainable investment strategy to enable strategy to be developed

## ❑ Partnerships

- City can't do this alone; support from new strategic partners and business in the community is needed

## ❑ Business Imperatives

- Leverage existing development and “greenfield” opportunities :
  - Markham Centre and Future Urban Area
- Promote “Digital First” thinking

# Recommendations

- ❑ THAT the Digital Markham strategy presentation be received; and
- ❑ THAT the Digital Markham strategy & roadmap be endorsed as a go-forward approach to support achievement of Markham's digital goals by 2020 in the following areas:
  - engaging and serving the community;
  - becoming the digital differentiator for business;
  - enabling a digital workforce; and
  - making the city a platform for innovation; and
- ❑ THAT Staff be directed to develop a detailed implementation plan, including a funding strategy for the Digital Markham roadmap and report back to General Committee by the end of June 2017; and
- ❑ THAT Staff provide an annual update to General Committee on the status of the implementation of the roadmap