

**Maps Apps & Naps**  
**Sean Simpson**  
**GIS Manager, City of Surrey**

- URISA BC
- February 20, 2014

# QUESTIONS

- Should we create specific apps or one large map?
- Which platform should we design on: Silverlight, Java, HTML5?
- Where is the technology going and how do we plan for the future?

# SHOULD WE CREATE SPECIFIC APPS OR ONE LARGE MAP?

- The answer is Both
- Many audiences, many devices, many factors to consider

# ONE LARGE MAP

**COSMOS**  
City of Surrey Mapping Online System

Version 1.0.2.9

Please select a Map Type

MyCOSMOS	Parks Map
City Map	Planning Map
Building Map	Sanitary Map
Drainage Map	Transportation Map
Infrastructure Map	Water Map

feedback: email us    help & tutorials    follow us on Twitter

Scale 1: 112822

▼ LAYERS & LEGEND

layer list legend

- Property
- Community Services
- Images
- Land Use
- Parks and Recreation
- Contours
- Transportation
- Infrastructure
  - Capital Construction
  - Drainage
  - Sanitary
  - Ten Year Plan (2012 - 2021)
  - Water
    - Water Assemblies
    - Water CCC Facilities
    - Water Chambers
    - Water Fittings
    - Water Hydrant Connections
    - Water Hydrants
    - Water Mains
    - Water Meter Zones
    - Water Meters - In Service
    - Water Meters - Proposed
    - Water Pipe Bridges
    - Water Pipe Protection
    - Water Pressure Zones
    - Water Pressure Zones Proposed
    - Water Sampling Stations
    - Water Service Area
    - Water Service Connections
    - Water Utility Facilities
    - Water Valves
  - BC Hydro Lines
  - Fortis BC Gas Mains
  - Methane Lines
  - Oil Pipelines
  - Telecom Distribution Lines
  - Utility Main Offsets

▶ INFORMATION

▶ DOCUMENT SEARCH

▶ DRAW

▶ MEASURE

▶ PRINT & SAVE

▶ MORE TOOLS



Strait of Georgia

# ONE LARGE MAP REVISED

- COSMOS + pass in parameters
  - [Adopt-a-street](#)
  - <http://cosmos.surrey.ca/external/cosmos.html?LayerName=Lots&FieldName=PID&FieldValues=002-809-508&FieldType=String>

# SPECIFIC APPS (MAPS)

- The HTML `<iframe>` Element (or HTML inline frame element) represents a nested browsing context, effectively embedding another HTML page into the current page

# SPECIFIC APPS (MAPS)

- [Low Cost & Free Resource Map](#)
- [Traffic Cameras](#)
- [Download Data By Area of Interest](#)
- [Sustainability Dashboard](#)
- [Activities Search & Registration](#)



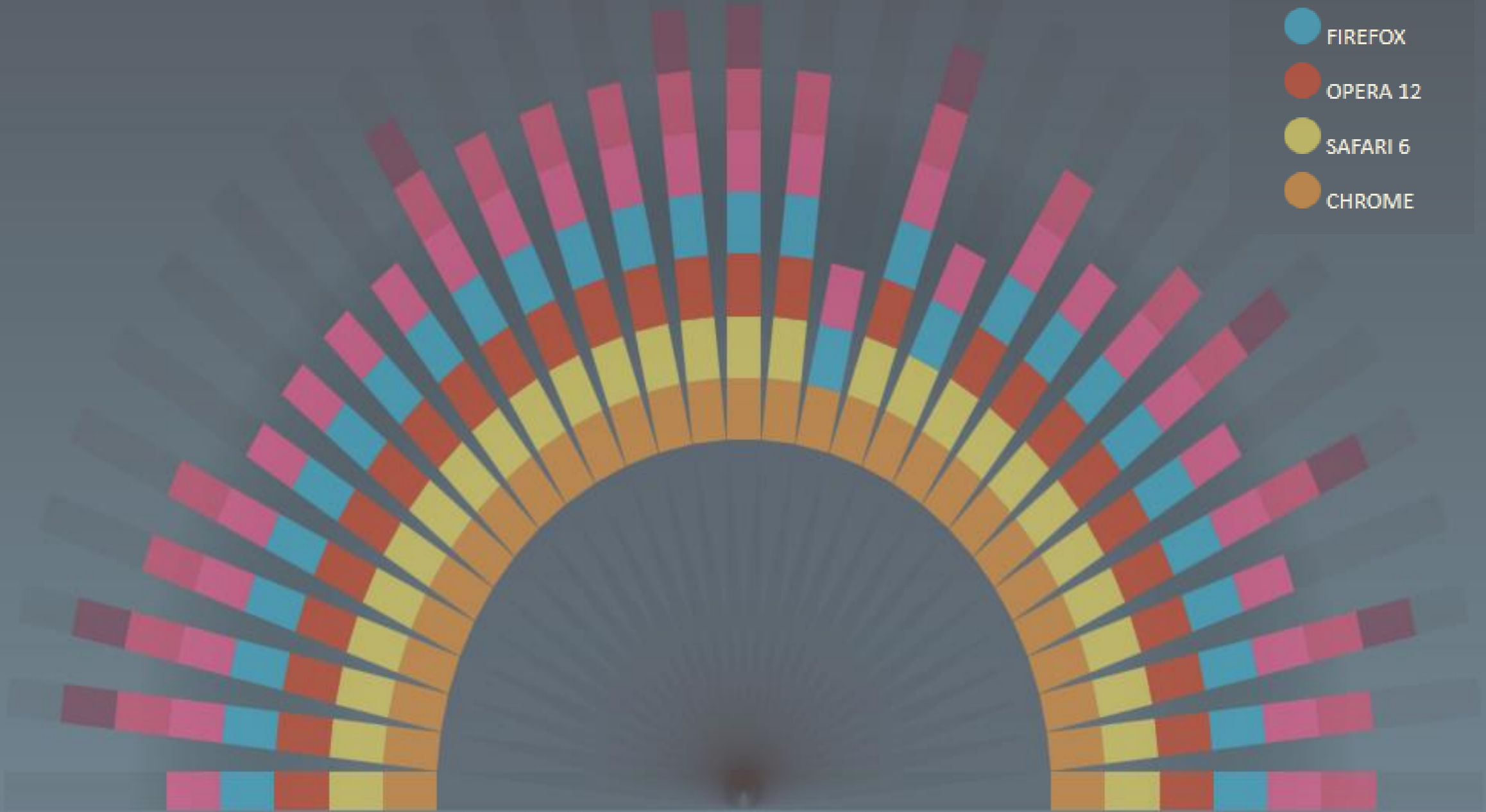
# WHICH PLATFORM SHOULD WE DESIGN ON: SILVERLIGHT, JAVA, HTML5?

- Availability of resources
- Start small, build skills, transition when ready
- HTML5 Not Yet A Standard
  - Recommendation by the end of 2014
  - <http://html5readiness.com/>

# HTML5 & CSS3 READINESS

2008 / 2009 / 2010 / 2011 / 2012 / 2013

- IE 8
- IE 9
- IE 10
- FIREFOX
- OPERA 12
- SAFARI 6
- CHROME



<http://html5readiness.com/>

WHICH PLATFORM SHOULD WE  
DESIGN ON: SILVERLIGHT, JAVA,  
HTML5?

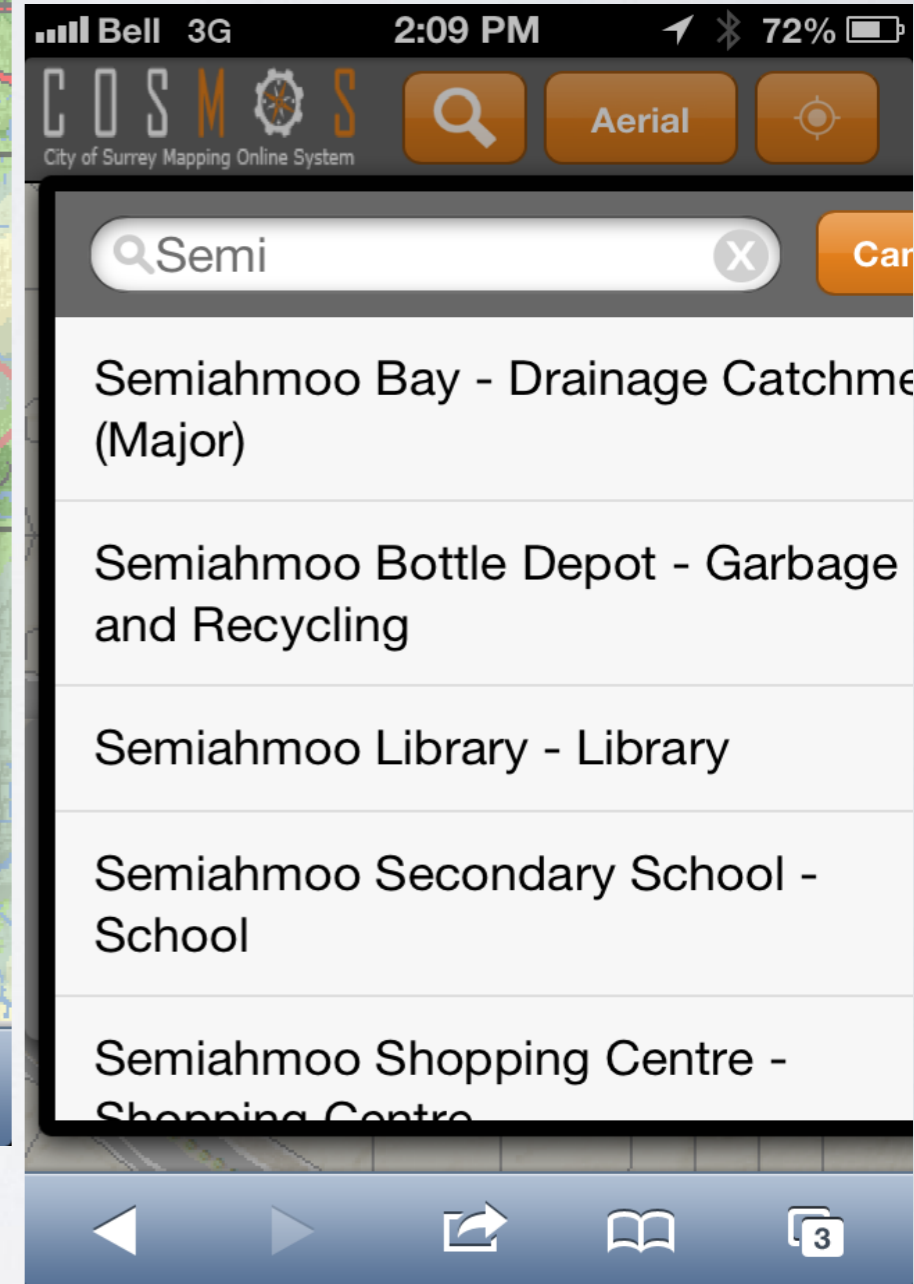
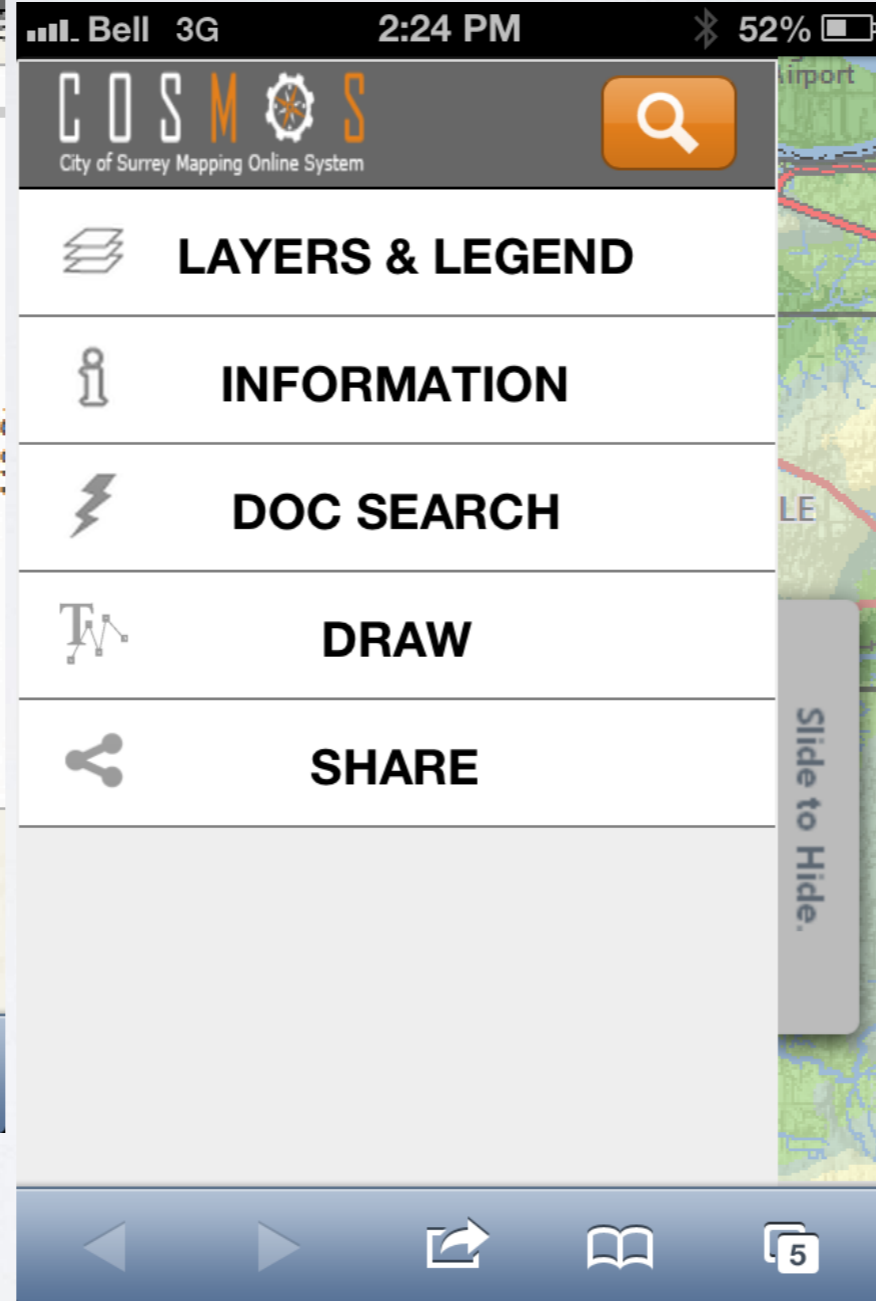
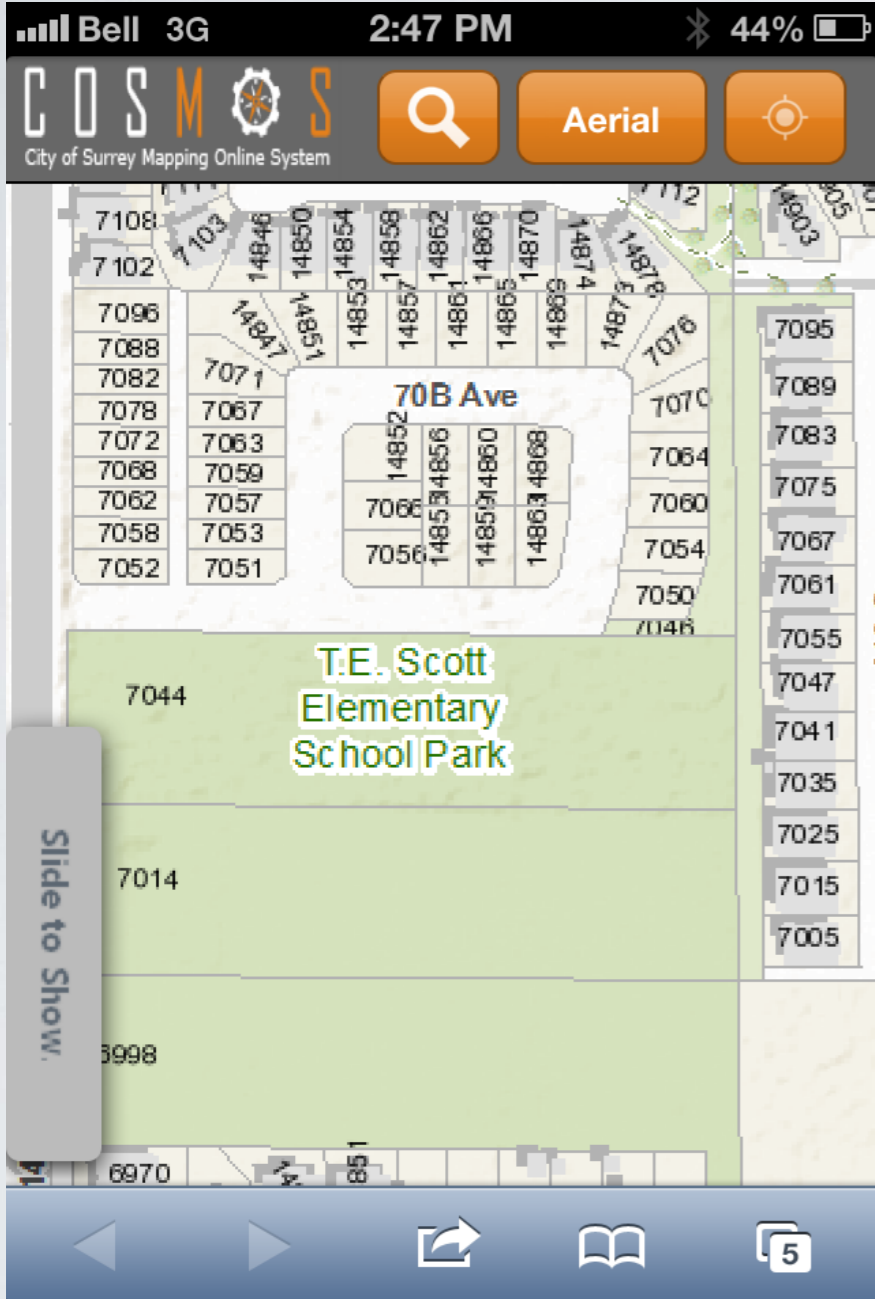
The battle has been won!

JavaScript / HTML5

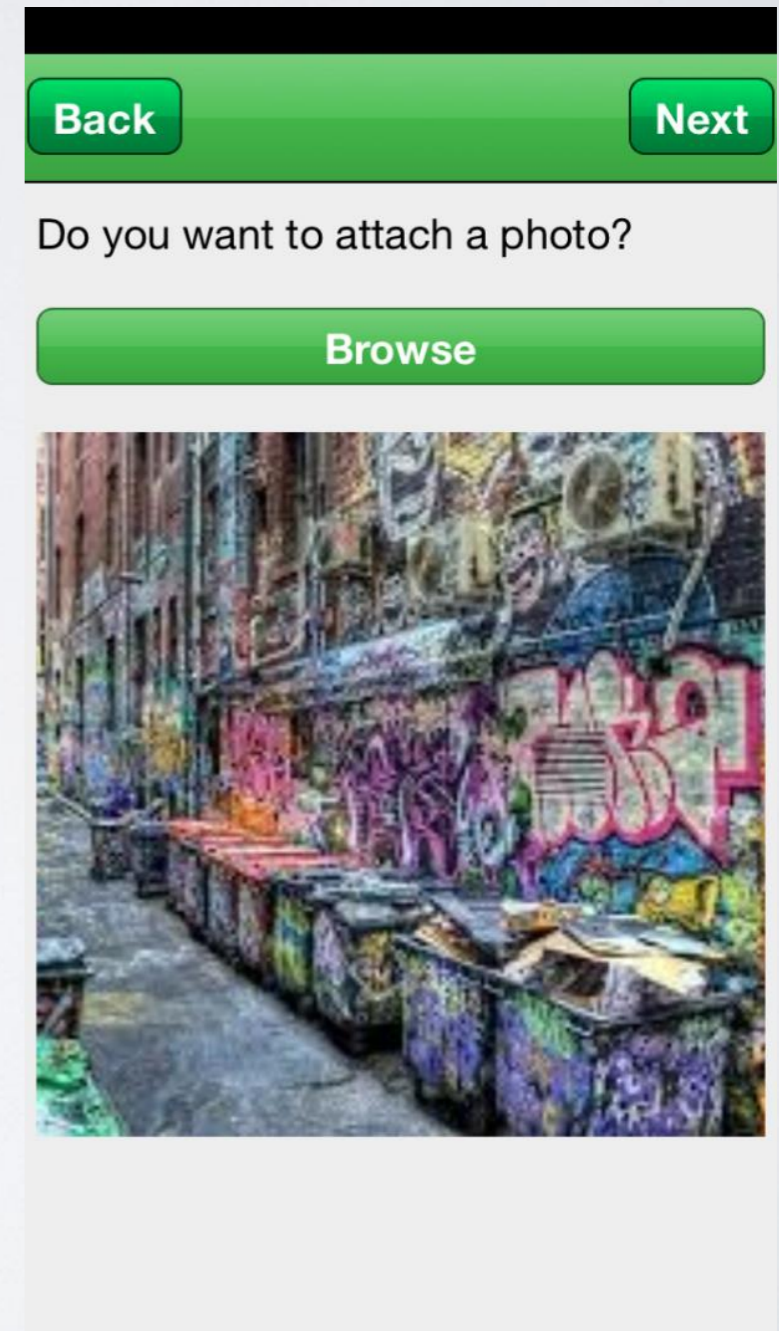
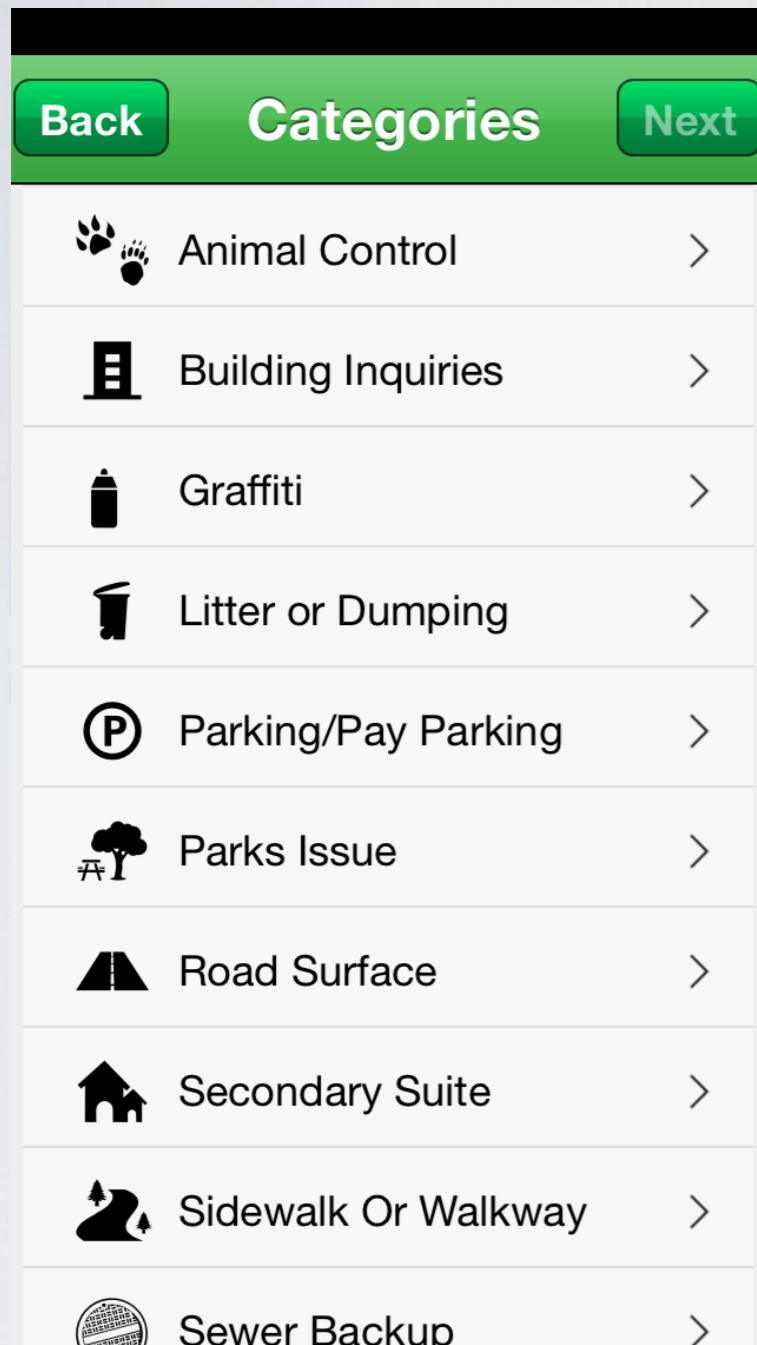
# WHAT JAVASCRIPT FRAMEWORK?

- Dojo
- Sencha (Ext JS) – rich Internet applications
- JQuery – most popular JavaScript framework
- Upcoming ones:
  - Ember
  - Bootstrap
  - Others.....

<http://blog.amadeusconsulting.com/jquery-dojo-and-ext-js-comparing-ui-technologies/>



# APPS



**I WANT TO...**

**LAYERS & LEGEND**

**INFORMATION**

Property Details:

ADDRESS: 6906 132 ST

LOT ID: 84998

LOT TYPE: Standard Lot

OWNER TYPE: Park - City Purchased

PID: 025-674-374

FOLIO: 6174-90033-2

LEGAL DESCRIPTION: LT A SEC 17 TWP  
2 PL BCP5912 NWD

PLAN IMAGE: [BCP05912.TIF](#)

Address Property

**DOCUMENT SEARCH**

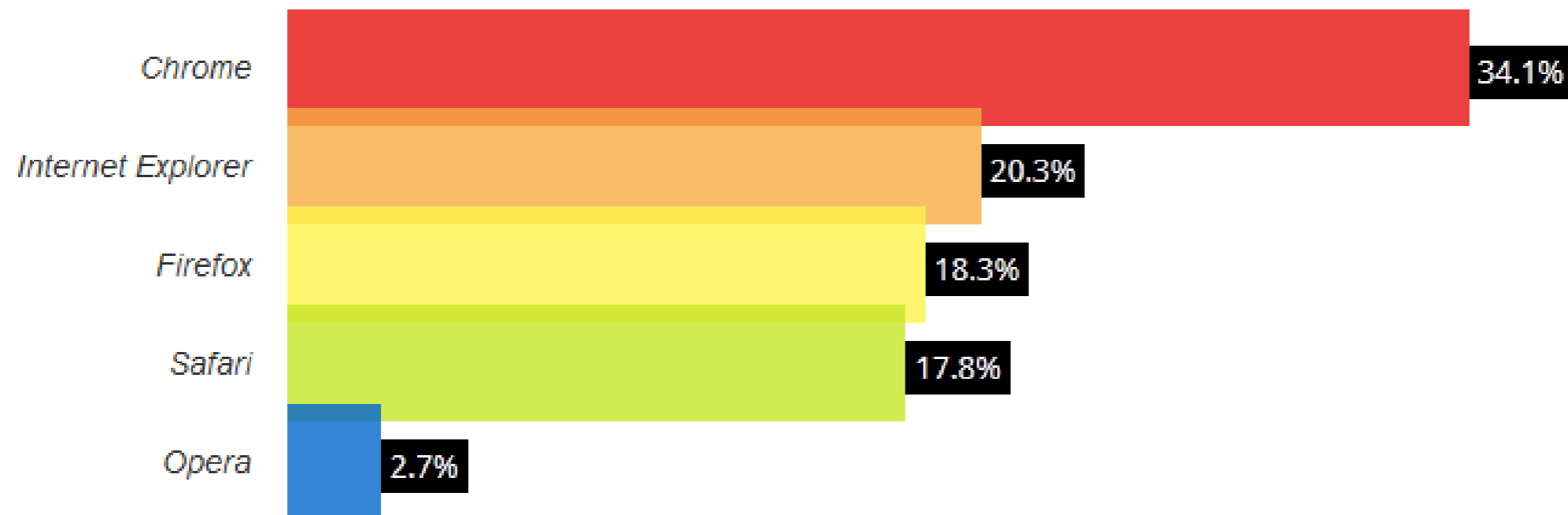
**SHARE**



# WHERE IS THE TECHNOLOGY GOING AND HOW DO WE PLAN FOR THE FUTURE?

Web Browser Market Share

[View Monthly Trends](#)





# WHERE IS THE TECHNOLOGY GOING AND HOW DO WE PLAN FOR THE FUTURE?

- The mobile war is over and the app has won: 80% of mobile time spent in apps
- Facebook famously and loudly abandoned HTML5 development in favor of a faster, smoother, better native app experience

# WHERE IS THE TECHNOLOGY GOING AND HOW DO WE PLAN FOR THE FUTURE?

- HTML5 is actually being used more as a [tool for cross-platform native app development](#).
- It's now the [number one choice for developers](#) building apps for multiple platforms.

# NAPS + MAPS

## Colleges / University Nap Maps

- [Texas University - Best Places to Nap](#)
- [UC Davis Campus Nap Map](#)
- [Harvard Nap Map](#)

# QUESTIONS?

- [stsimpson@surrey.ca](mailto:stsimpson@surrey.ca)
- Ask Shenglin or Mark!