

No Instructions Required: Taking the GIS out of Web Mapping

Township of
Langley



Est. 1873

Presented by:

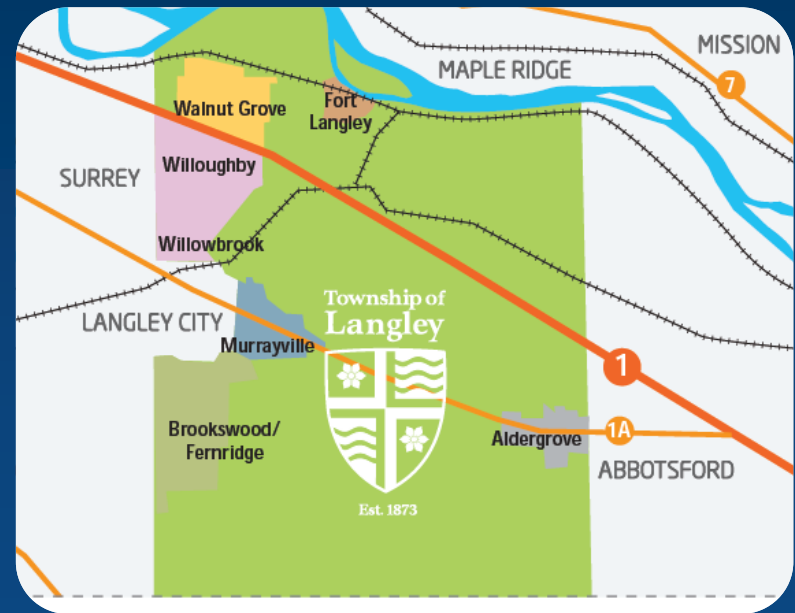
Chad Huntington

Geomatics Coordinator

Township of Langley

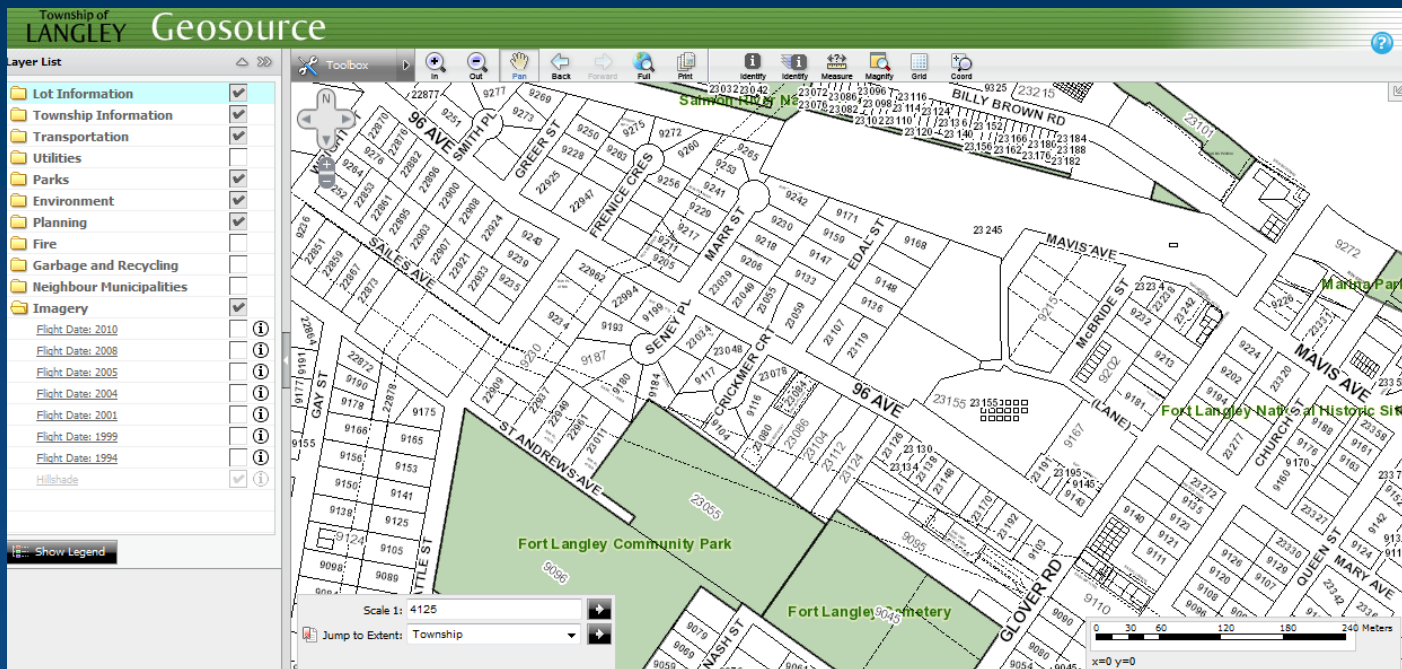
About the Township

- **Size: 316 Sq. Km**
- **Population: ~100,000**
- **ToL: “Community of Communities”**
- **Employees:**
 - ~ 1000 Staff in total
 - ~ 600 PC’s
- **Geomatics Dept formed ~2005**



Existing Web Mapping App

- Second generation of GeoSource
- Basically just GIS Software published to web



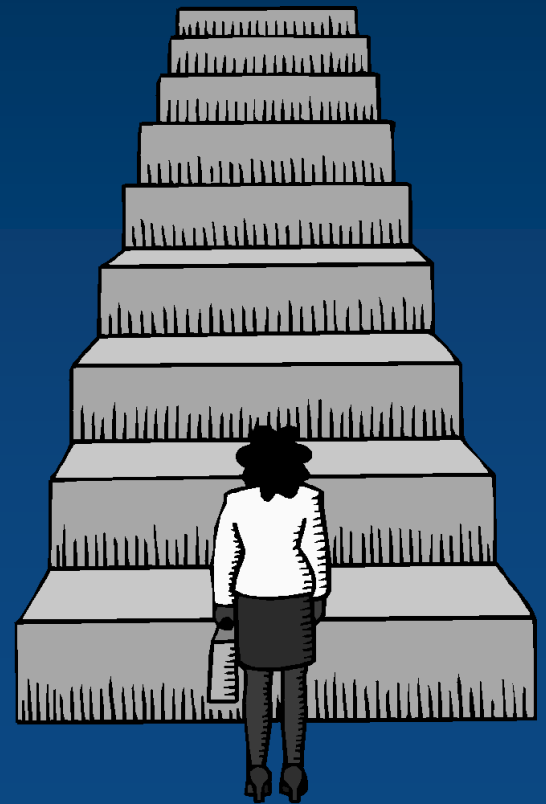
Big Changes coming to tol.ca

- **Everything being completely revamped**
- **More intuitive**
- **Better navigation**
- **More Open**
- **IT's vision = Geomatics' vision**



The Next Step

- **Challenge: Take the GIS out of Web Mapping**
- **Web 2.0**
- **Neogeography**
- **NO INSTRUCTIONS!**
- **Cater to the average Joe**



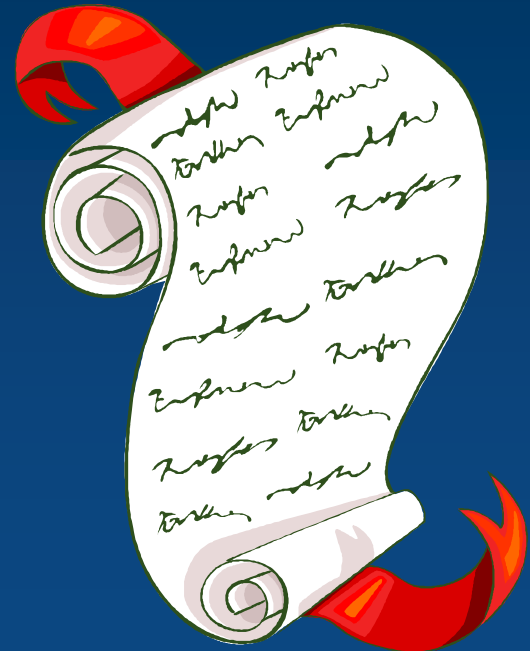
Design Approach

- **Challenge required something completely new**
- **All new design approach**
- **Worked from the UI out**
- **LOTS of white boarding**



Wish List

- **Context-specific maps**
- **Fast**
- **No layer list**
- **Minimal Toolbars**
- **Minimal Buttons**
- **Restricted Information**



Solution

- **ESRI Silverlight API**
- **Resources**
 - Programmer
 - Graphics Company
- **“More Maps” function**
- **Cartography**



Solution cont...

- **Simple Rules**
 - If you click on it, it selects
 - If you hover over it, you get information
- **Extent-driven, themed data results**
- **Single search**
- **One toolbar, six buttons**
- **Active Directory authentication**
- **XML framework**



Solution cont...XML Framework

```
<views>
  <view name="Parcel Viewer" adGroup="*">
    <themes>
      <theme name="Parcels" adGroup="*">
        <dynamicLayer url="http://gisprod01/ArcGIS/rest/services/DynamicServices/Silverlight_Basemap_Dynamic/MapServer"
          name="Basemap" defaultVisible="true" transparency="0.3" />
        <layers>
          <layer name="Parcels" id="11" defaultVisible="true" showAttributes="true" panelWidth="340" showMaptips="true" adGroup="*">
            <defaultFields>
              <field name="HOUSE" />
              <field name="STREET" />
              <field name="UNIT" />
            </defaultFields>
            <additionalFields>
              <field name="PROPERTY_NUMBER" />
              <field name="PLAN_NUMBER">
                <hyperlink fieldAlias="Plan #" caption="#" url="http://itdev/mediasearch/rpt.aspx?SearchType=TextSearch&Medi" />
              </field>
              <field name="PID" />
              <field name="FOLIO" />
              <field name="BLOCK" />
              <field name="SECTION" />
              <field name="TOWNSHIP" />
              <field name="RANGE" />
              <field name="MERIDIAN" />
              <field name="DIST_LOT" />
              <field name="LAND_DIST" />
            </additionalFields>
          </layer>
        </layers>
      </theme>
    </themes>
  </view>
```

DEMO

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What's Next?

- **Graphic Design**
- **Querying**
- **Reporting**
- **Integration with other applications**
- **Editing**



Acknowledgements

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- **Steve Scheepmaker**
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- **Scott McQuarrie**
- **Julie Gee**



Q&A

THANK YOU!

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