iMapBC goes mobile…

in a disconnected world…

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The Conversation

- DataBC program overview
- The story of iMapBC and platform technology
- An evolution to mobile and disconnected use
- Technology roadmap
- In situ demonstration

About the DataBC Program

- DataBC provides leadership for the BC Government's **Open Data** and **Spatial Data Infrastructure**

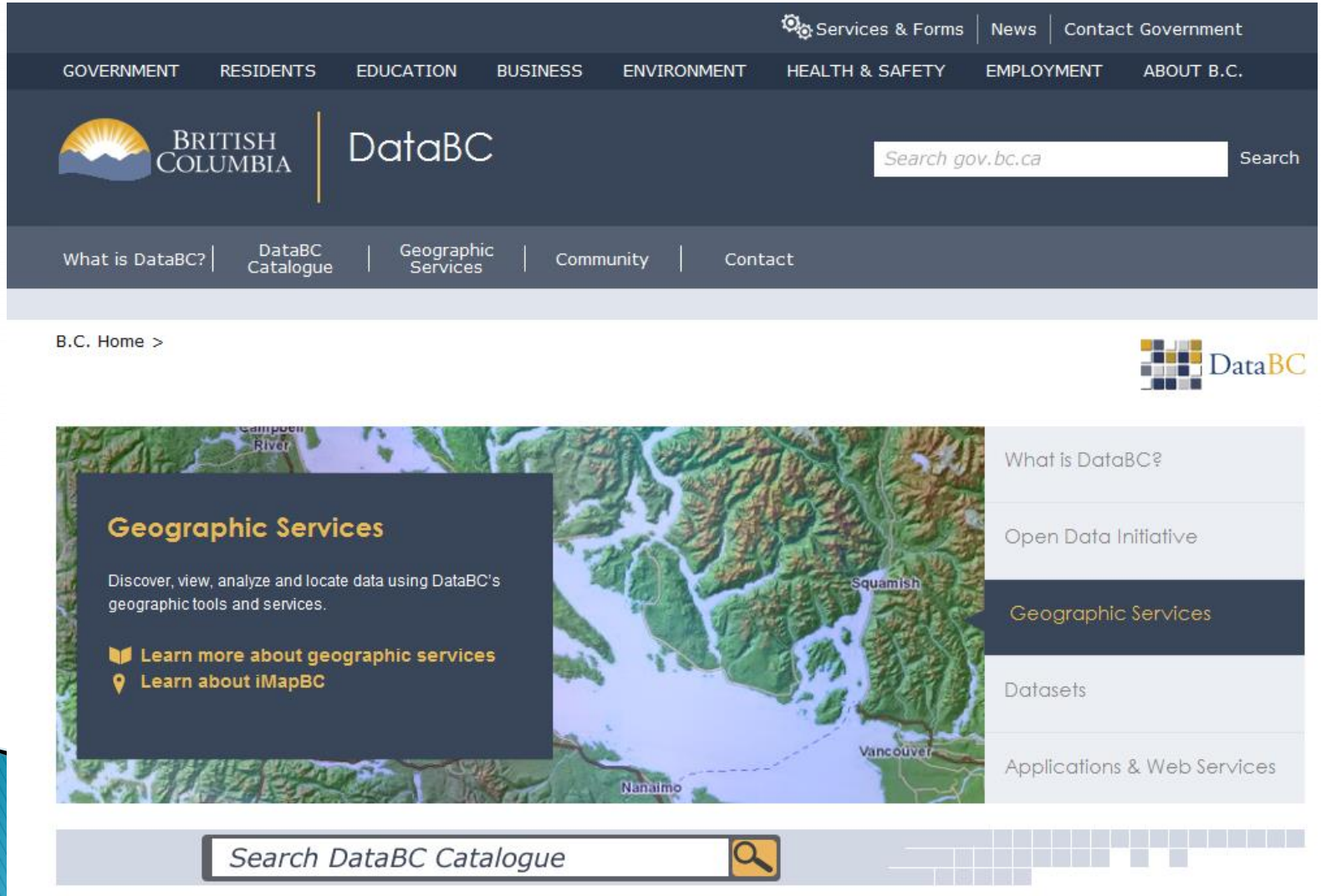
- DataBC promotes and enables the **sharing of data** with citizens, businesses and across the government enterprise

- DataBC provides technology that help the BC Government manage and use its **data as a strategic asset**

DataBC Service Focus

- **Open & Enterprise Data**
  - license, policy, catalogue, website
- **Provincial Spatial Data Infrastructure**
  - shared data infrastructure
  - application platforms
  - external services
- **Governance and Information Management**
  - data custodianship principles

Data.gov.bc.ca



Data.gov.bc.ca

- DataBC is the place to find BC Government **data**, **services**, **applications and tools**

Explore DataBC's extensive geographic holdings. The service inclu
are not publically accessib
DataBC catalogue or have
[Learn more]

Geographic Data Discover
Service

This service enables you t
geographic data available
of B.C. [Learn More]

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links such as KML and

Interact and question data directly using browser based tools that we provide. The viewable content is supplied directly from source agencies responsible for data accuracy. [Learn more]

iMapBC 2.0 Launch

Explore the latest release of iMapBC and explore a new tools interface with significant upgrades. [Learn More]

iMapBC 2.0 - restricted access Launch

The secure version of iMapBC 2.0 includes

Turn an address into a point on the map, register a favourite location for use in various Government of B.C. services or explore British Columbia through the BC Geographical Names service. [Learn more]

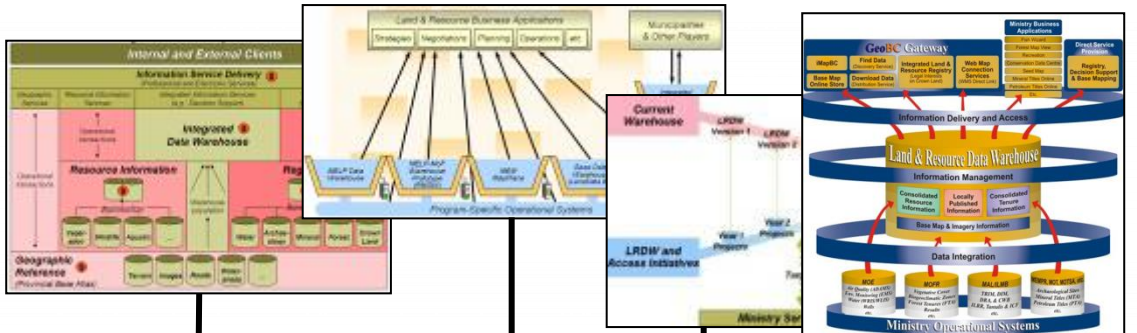
Physical Address Geocoder Launch

Use this reliably accurate service to get spatial coordinates for any B.C. address. [Learn More]

Geomark Web Service Launch

A free web service for users to store an area

The Evolution of DataBC



DataBC

BRITISH COLUMBIA
The Best Place on Earth

GeoBC

ELUC, CORE, LUCO

2002: MSRM

2003: LIBC

2006: ILMB

2008: GeoBC

2011: DataBC

1990's

Early 2000's

Late 2000's

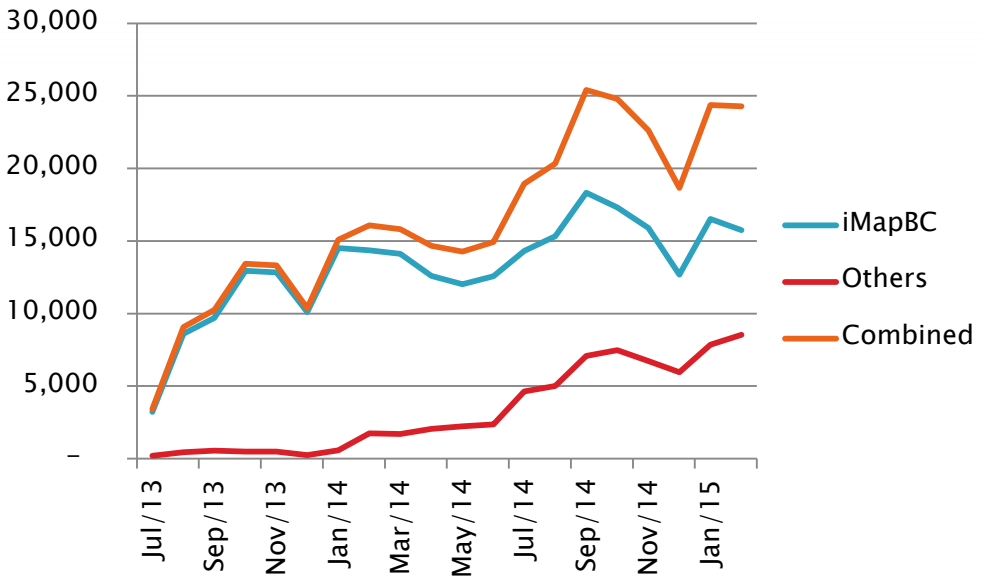
Future

DataBC Holdings

- More than:
  - 2,500 feature classes
  - 3,400 presentation layers
  - 6,000 related tables
  - 1.6 billion rows of data
  - 400 app dependencies

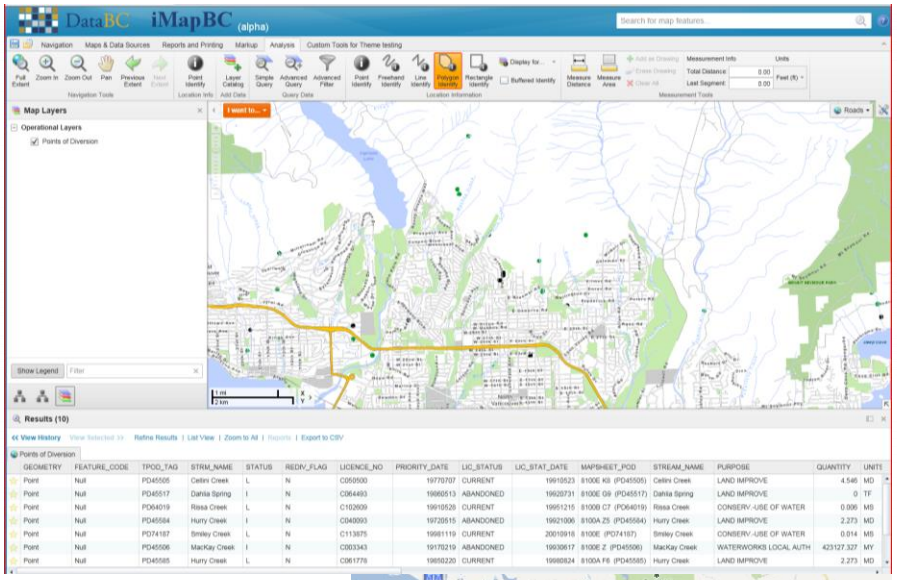
Extensive Use

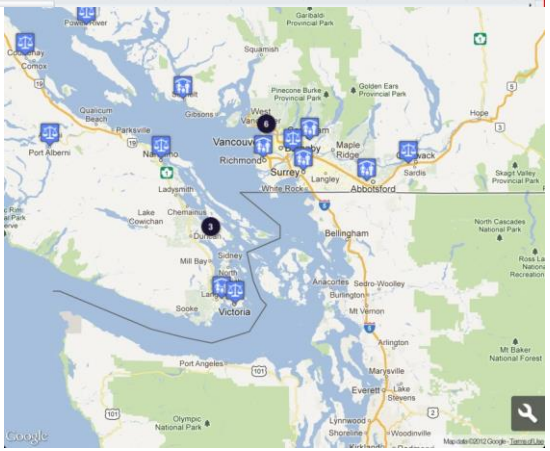
- iMapBC has over 185,000 user sessions per year
- Users download over 110,000 products annually
- 20 million Geocodes in 2014



Existing Application Frameworks

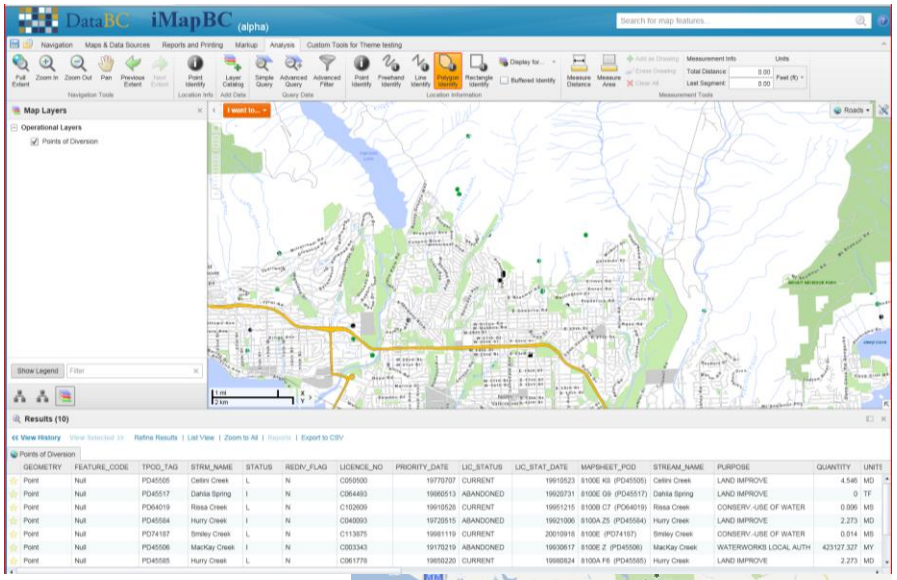
- Used to host multiple applications
- UI Consistency
- Tool portability
- Quick to publish apps
- Cost effective
- Extendable



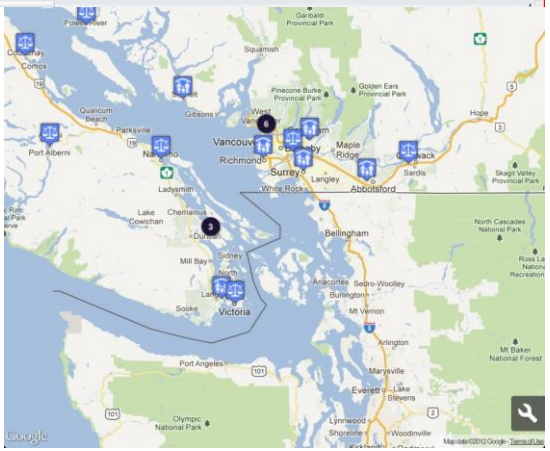


Technical Components

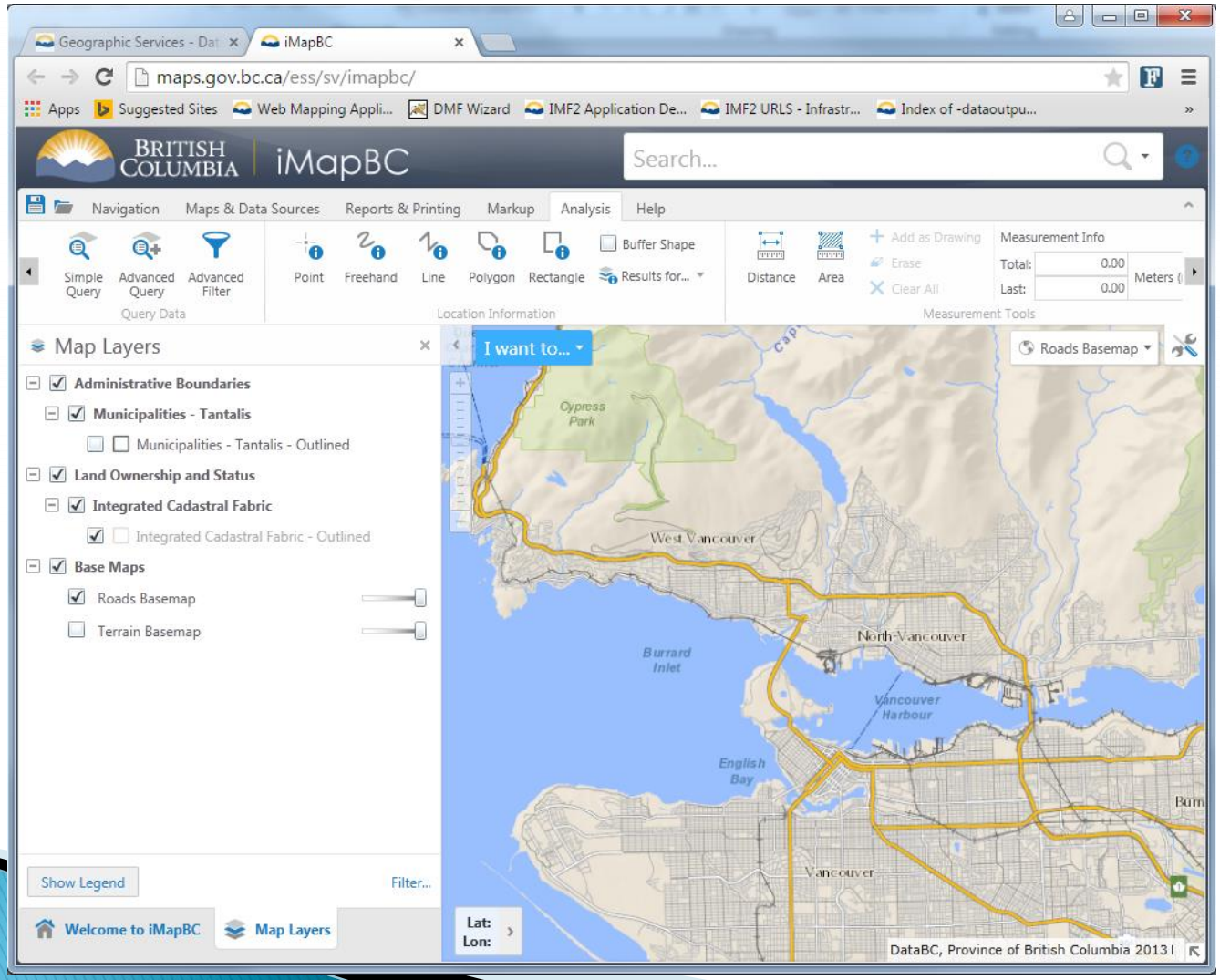
- Oracle 12C
- SDE 10.2
- Geocortex Essentials
- Silverlight, HTML5 Clients



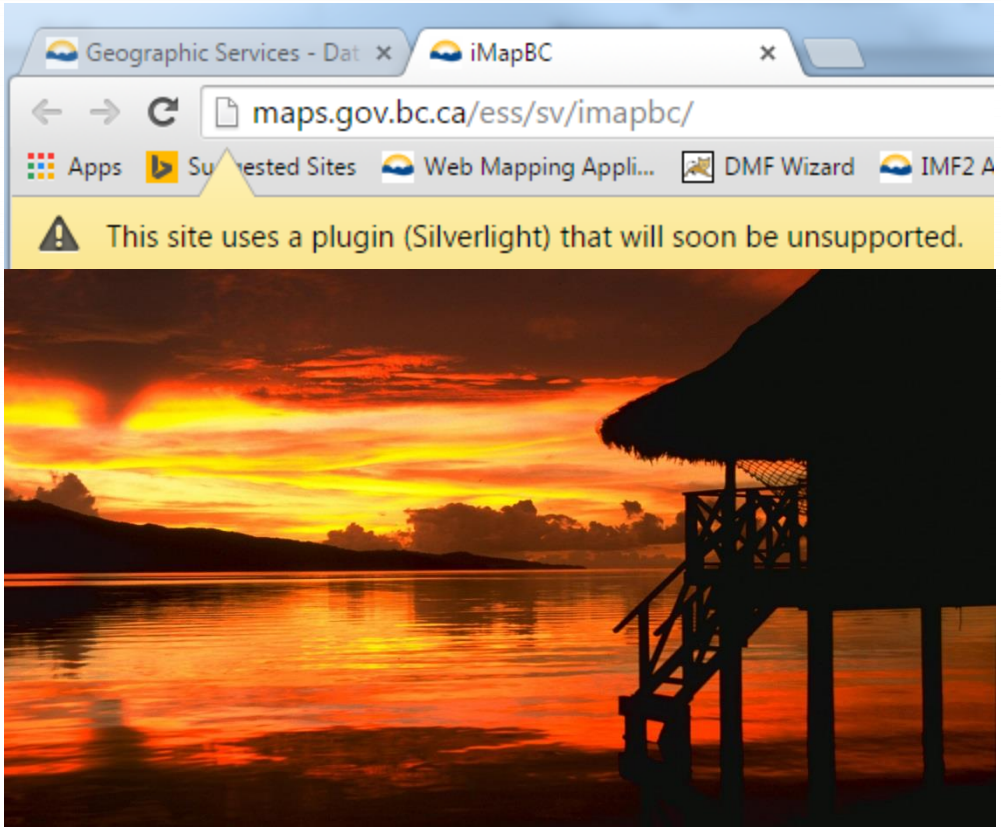
- Google Maps API
- Various Tile cache basemaps



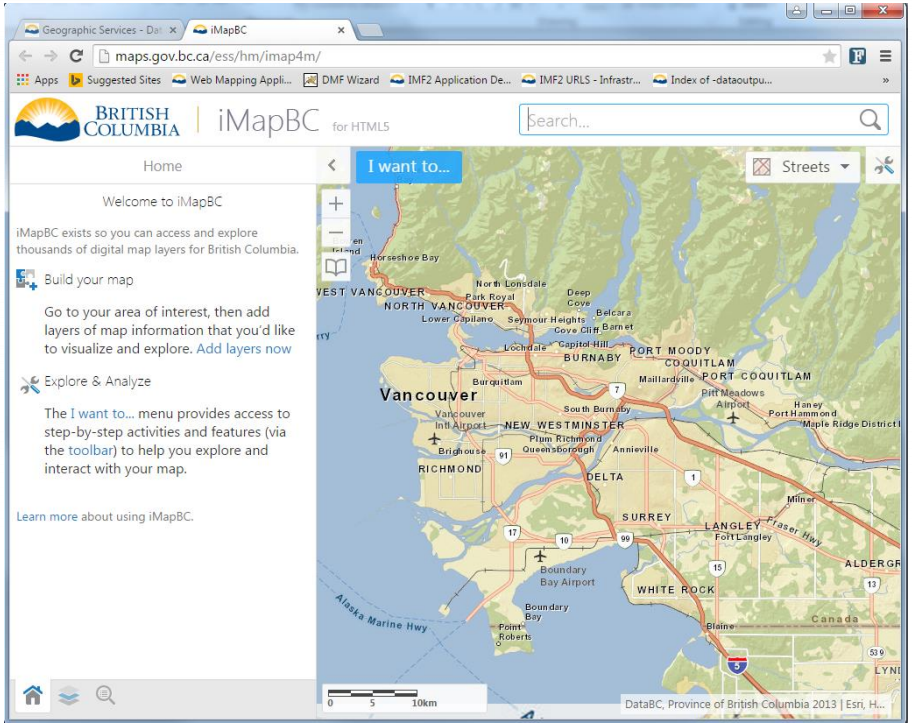
What is iMapBC?

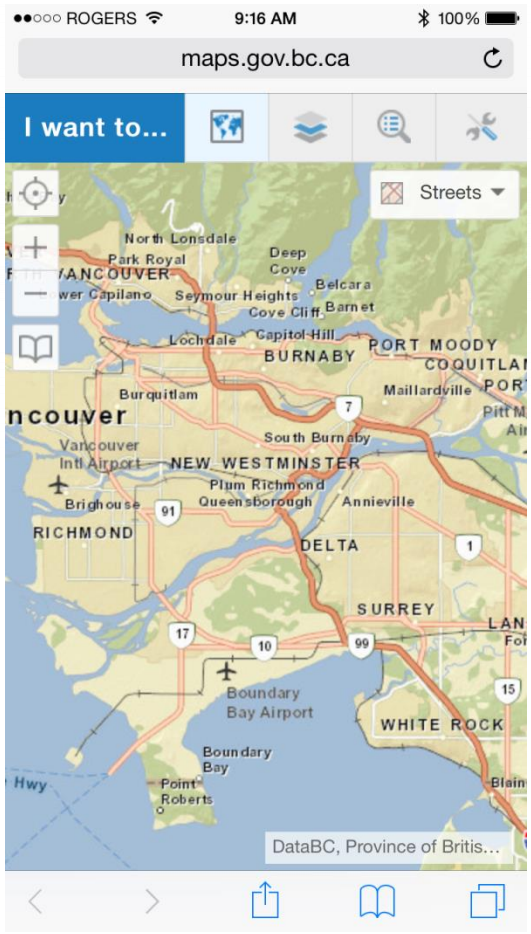


iMapBC and Silverlight's Sunset



iMapBC's move to HTML5





Feature parity is the goal

What about network availability…

Three paradigms for disconnected

- **Web Applications**
  - Supports multiple devices through a web browser
  - Updates pushed over the web instead of through an app marketplace
  - Limited access to device hardware components
  - Extended browser storage is a limiting factor, 3 – 5 MB, depending on browser and OS

Native Applications

- Custom apps downloaded and stored on the device
- Access device's full memory storage
- Generally written specifically for a given device (iOS, Android)
- Updates pushed through the marketplace

Hybrid Applications

- Combine web and native application approaches
- Host HTML & JavaScript web apps in native application ‘wrapper’
- The wrapper allows access device’s full memory storage and device hardware
- Functionality leverages the same application configuration used for web apps

DataBC's Direction

- Use the hybrid model while browser technology evolves
  - Rollout of app 'wrapper' through the Province's Apple App store account
  - Vision of users leveraging the desktop version of the software to 'prep' a session to save for offline use
  - Make loading features 'turn key'

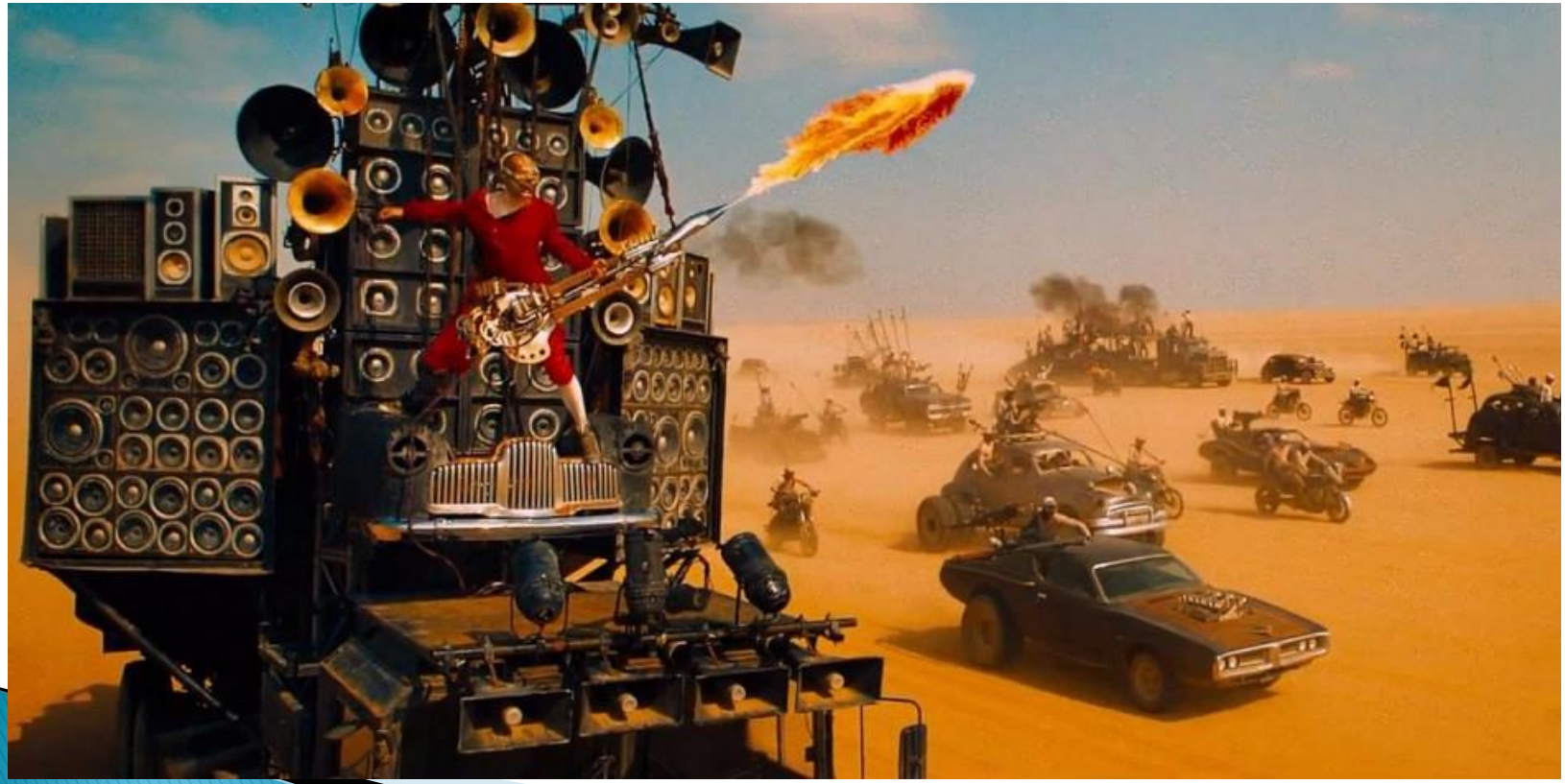
DataBC's 12 month Roadmap

- Reaching feature parity with Silverlight
- Publishing a secure version of iMapBC for mobile
- Enabling disconnected in DataBC frameworks
- Implementing disconnected editing architecture
  - Not just for custom apps

Launch the Demo

I'm between you and lunch ☺

Questions - Chris.Spicer@gov.bc.ca



In situ demo – backup slides

- tbd