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May 2011  
Oracle Spatial User Conference



# Oracle Spatial User Conference

May 19, 2011

Ronald Reagan Building and International Trade Center  
Washington, DC USA

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# **MapView: New Features for Developers**



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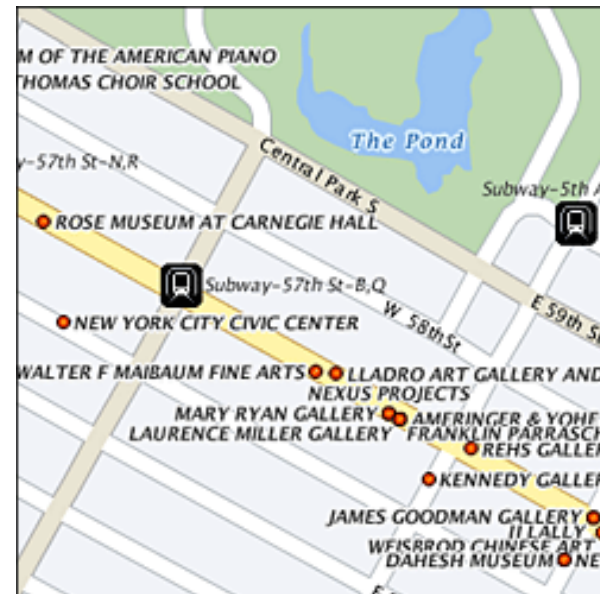
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# Agenda

- ✧ Overview of MapViewer
- ✧ Some new features for developers
- ✧ Demonstration
- ✧ Overview of features under consideration
- ✧ Demonstration
- ✧ Q&A

# Oracle MapViewer

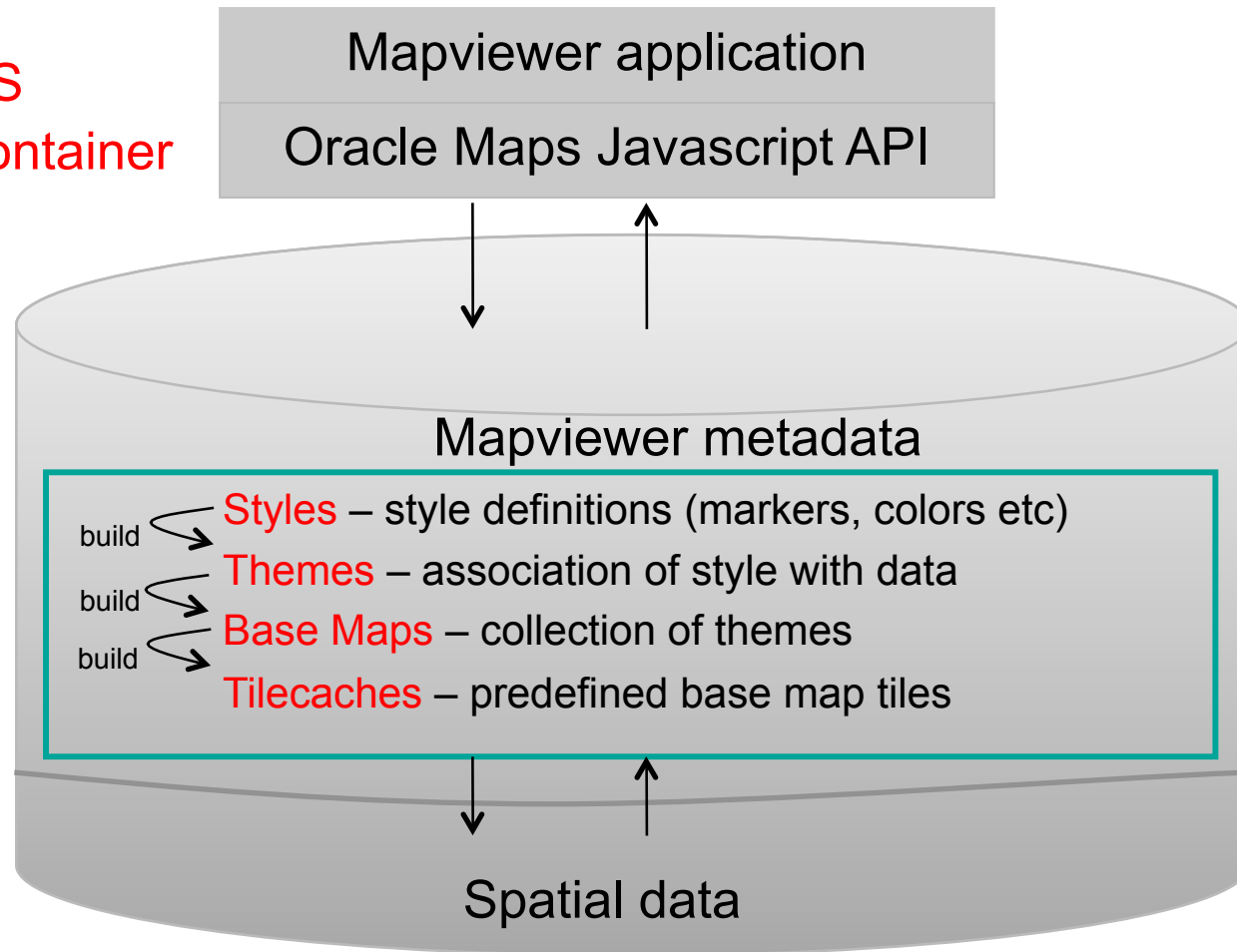
- ✧ Bundled feature of all Oracle app server editions
- ✧ Renders data from Oracle Spatial (also WMS, WFS, .shp)
- ✧ “Oracle Maps” JavaScript API for slippymaps
- ✧ XML API for request/response mapping



# Oracle MapViewer

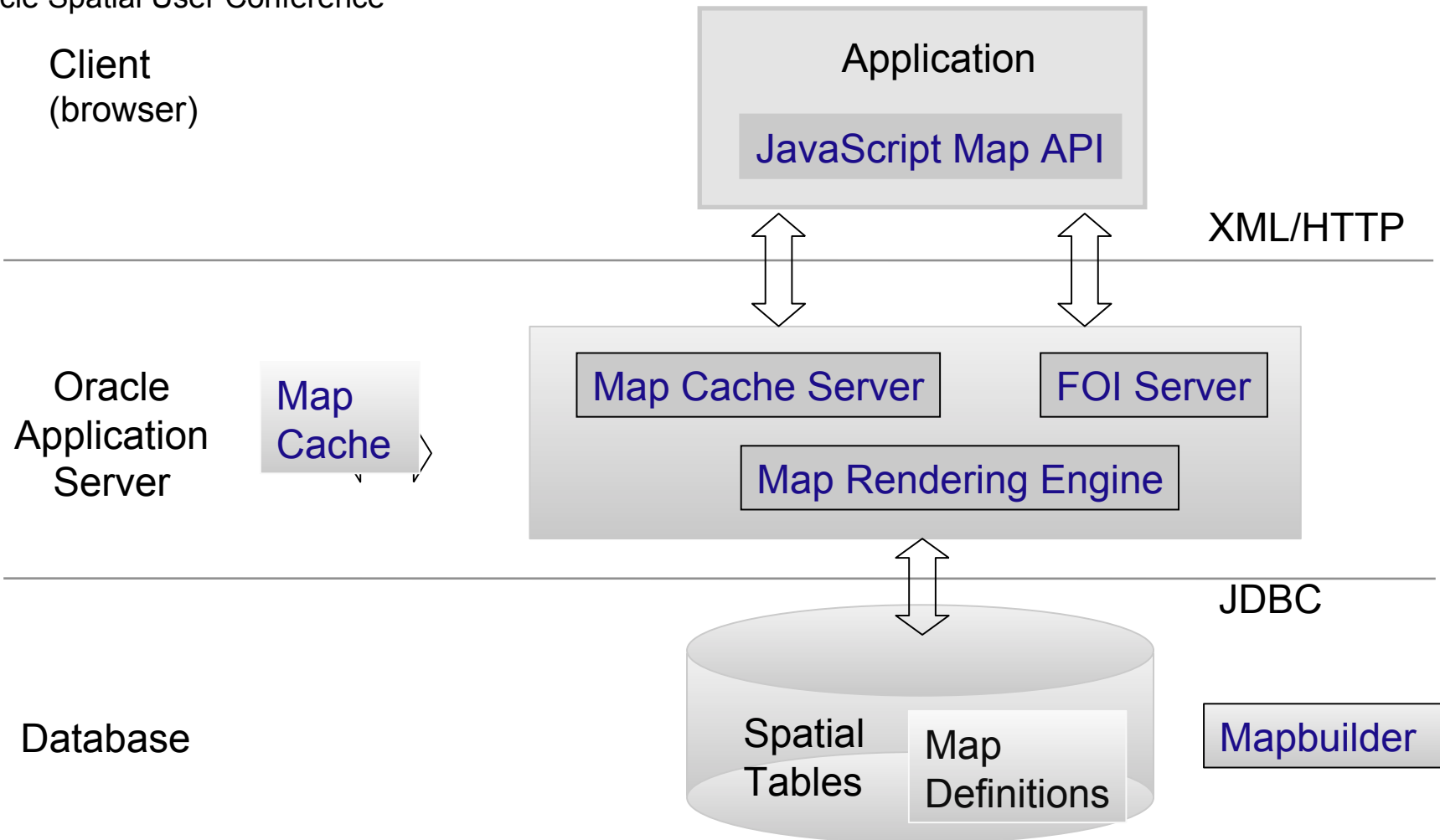
OAS, WLS  
or other J2EE container

Oracle  
Database





# MapViewer Architecture



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# Mapviewer facilitates different options

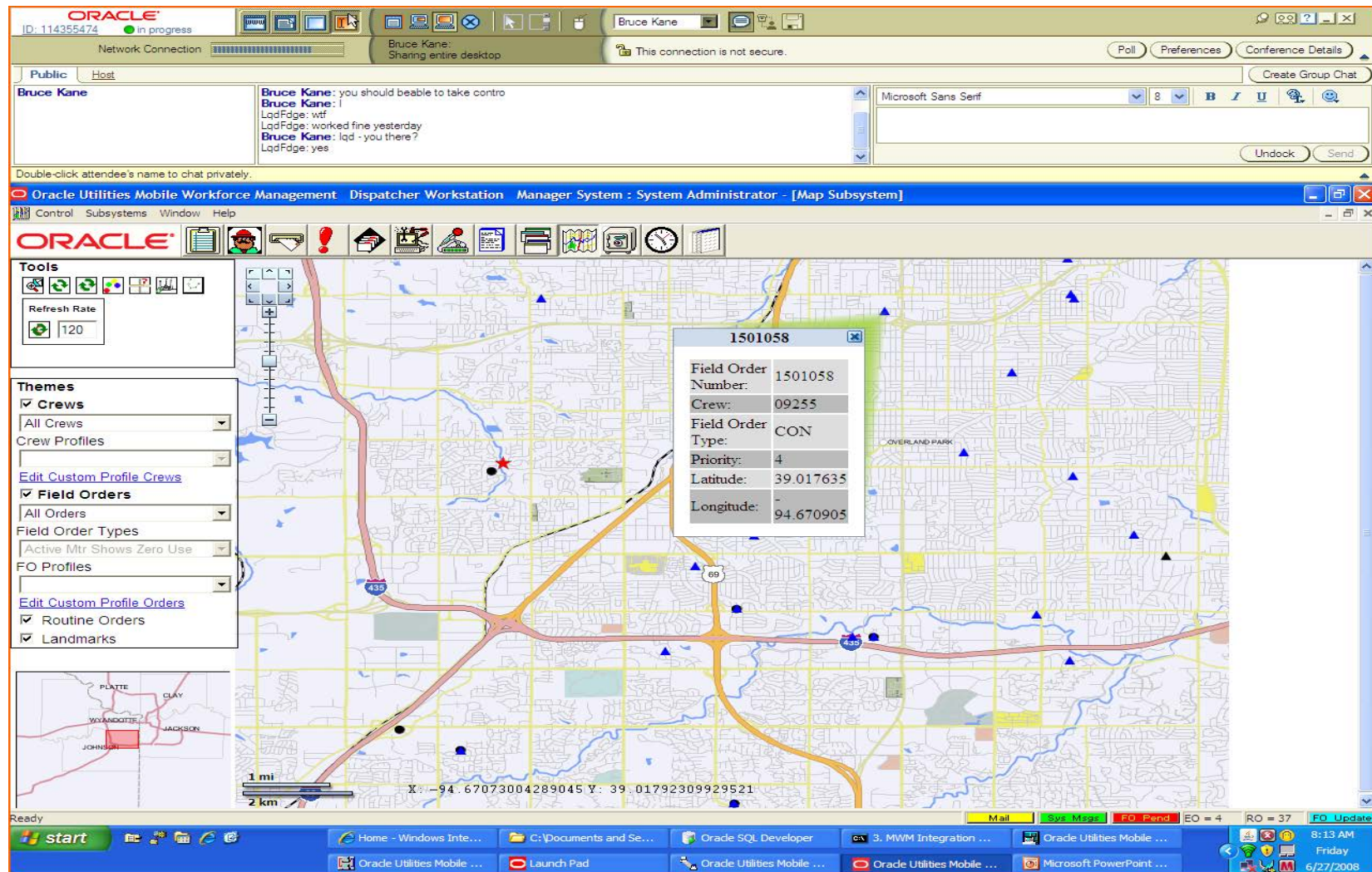
## ✚ For content

- .Local (Oracle database)
- .Online web services
- .Hybrid (local database + online content)

## ✚ For development

- .Java or javascript code embedded in application
- .Using ADF Faces (<dvt:map>)

# MapView renders database content





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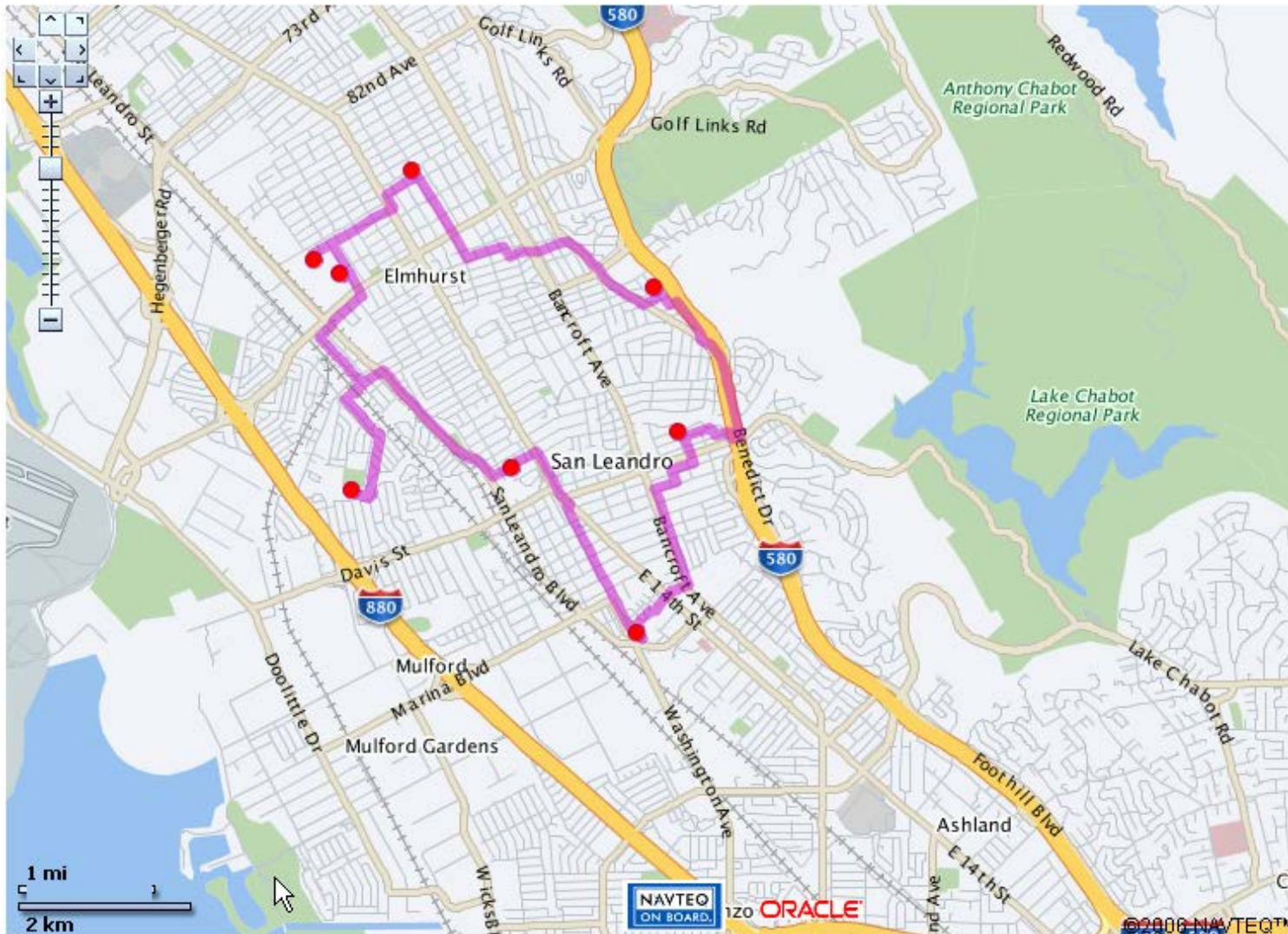
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# MapView renders geospatial imagery

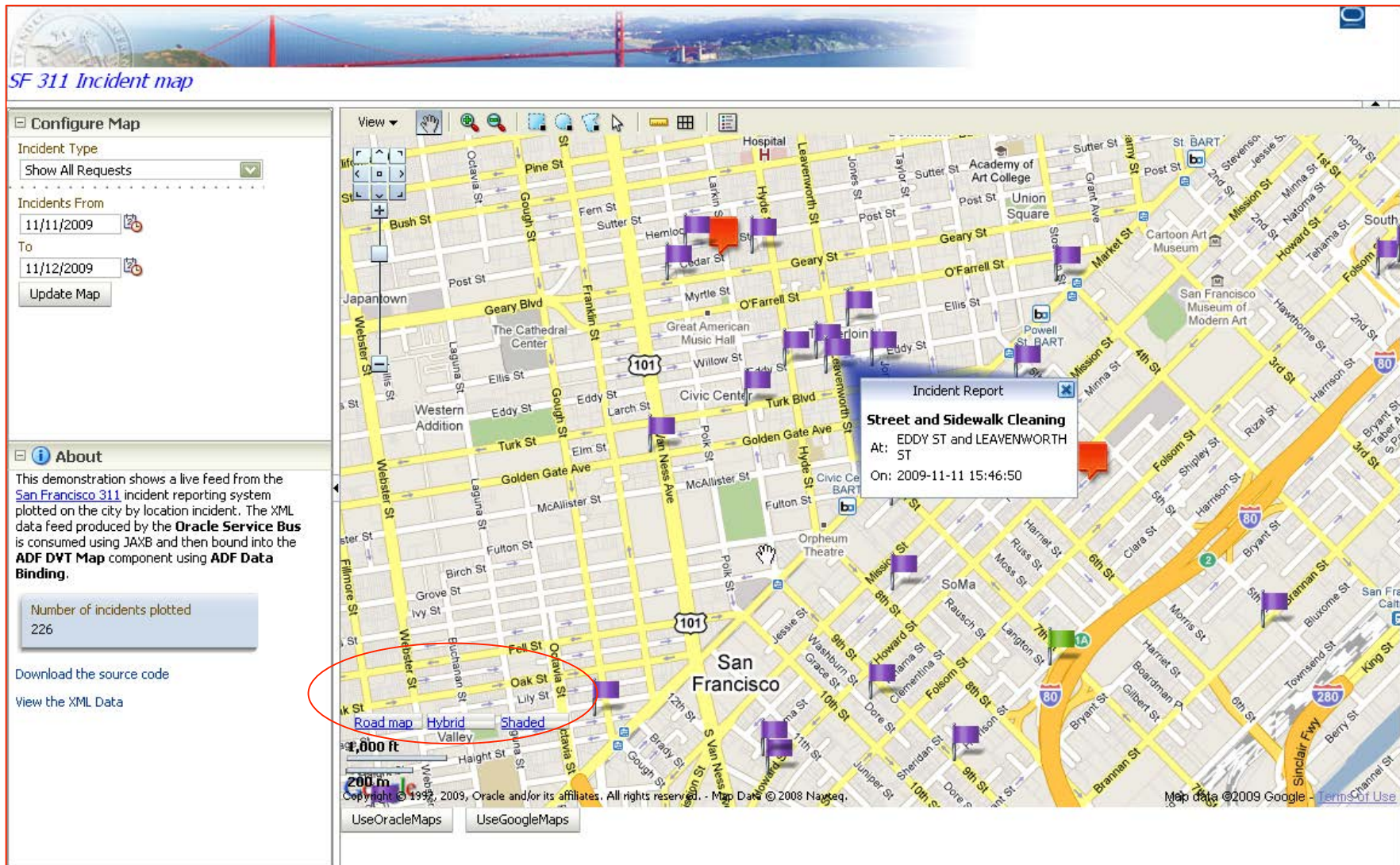


# And geospatial networks





# And local content on 3rd party background maps

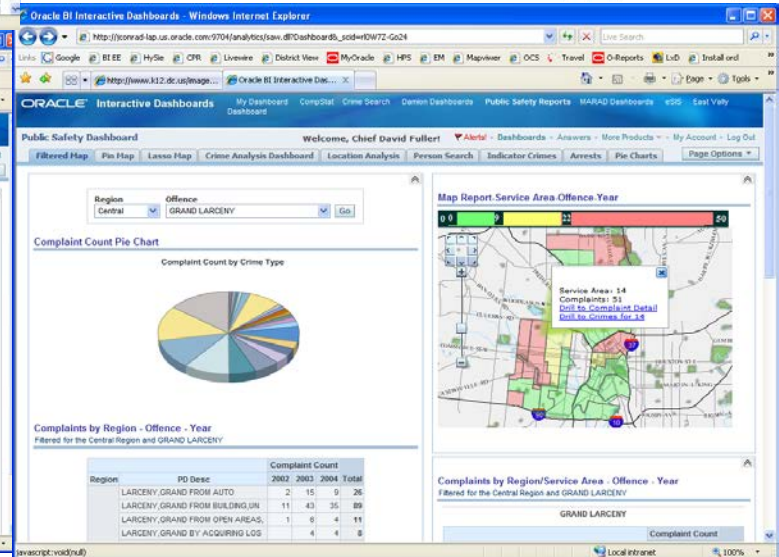
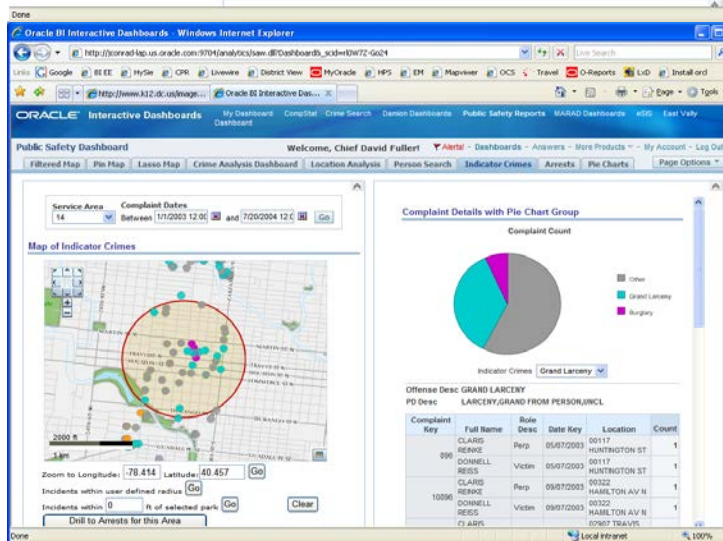
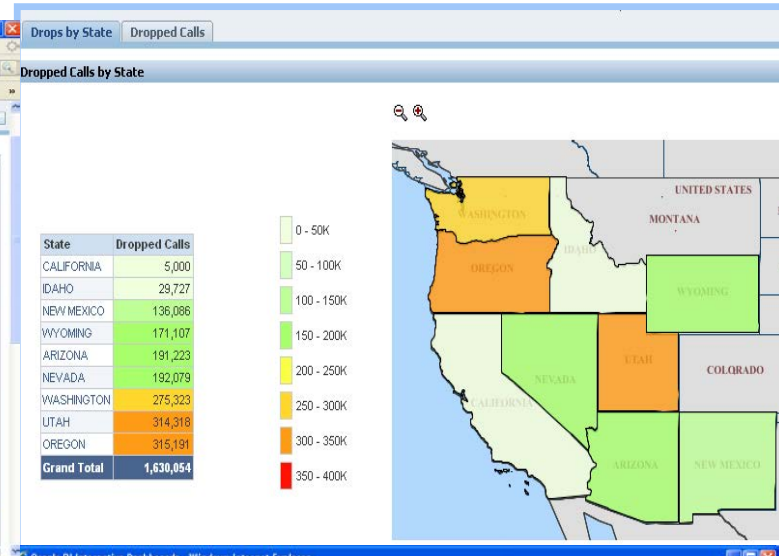
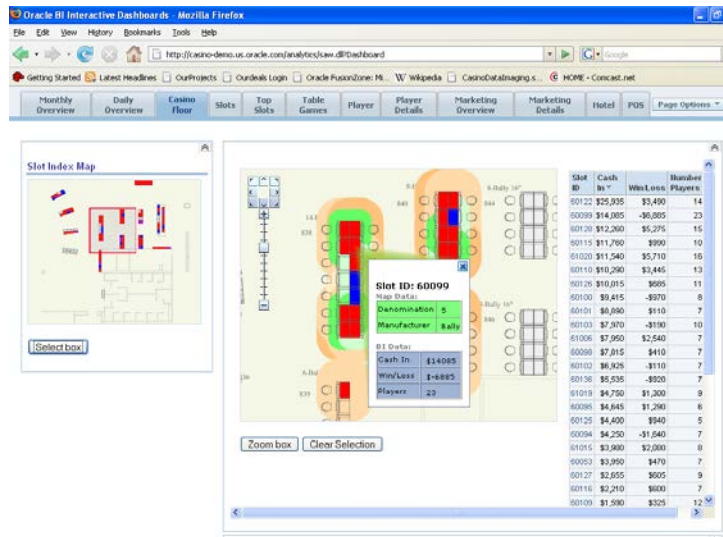




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# It lets users display and interact with BI content



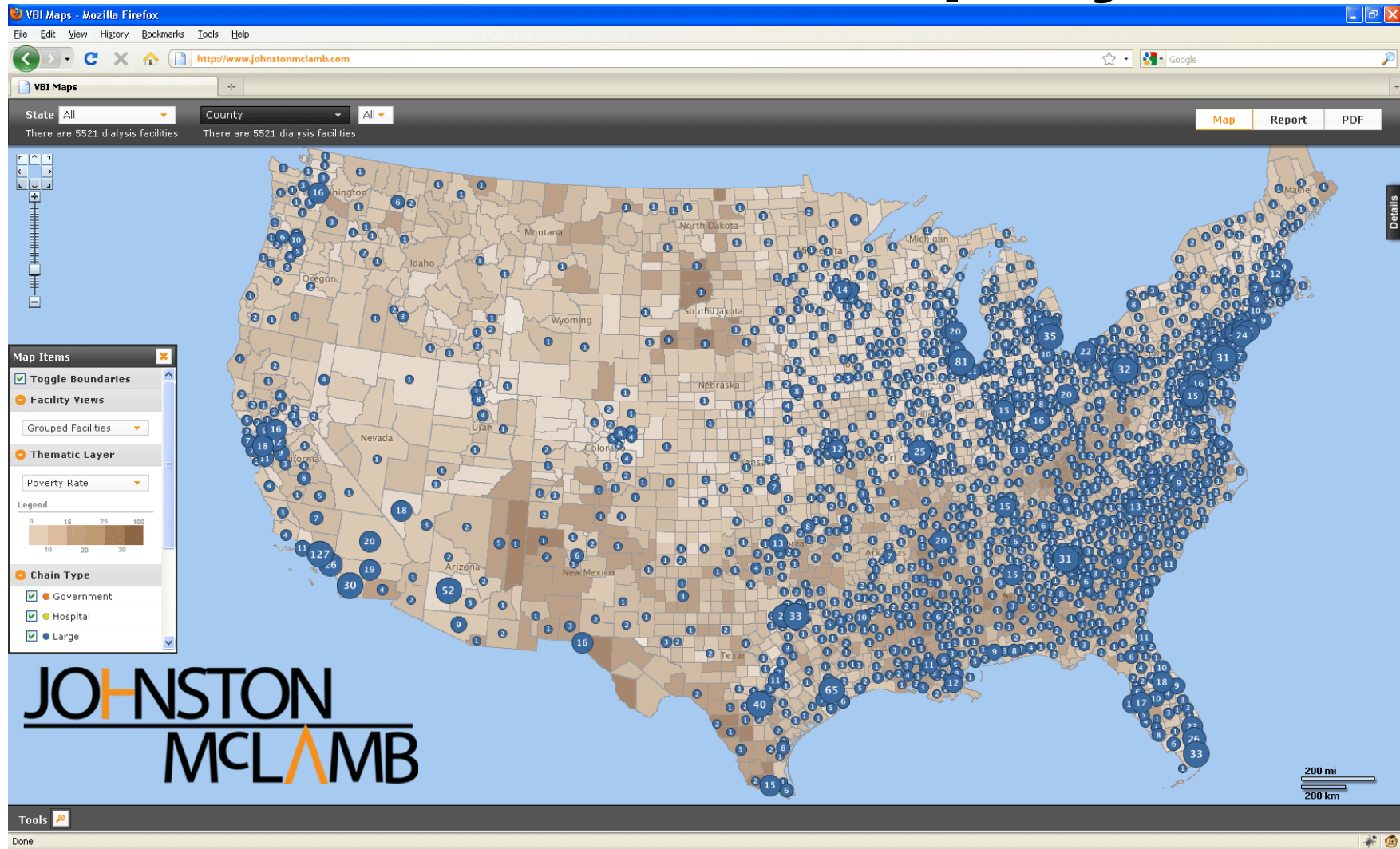




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# MapView enables custom map styles

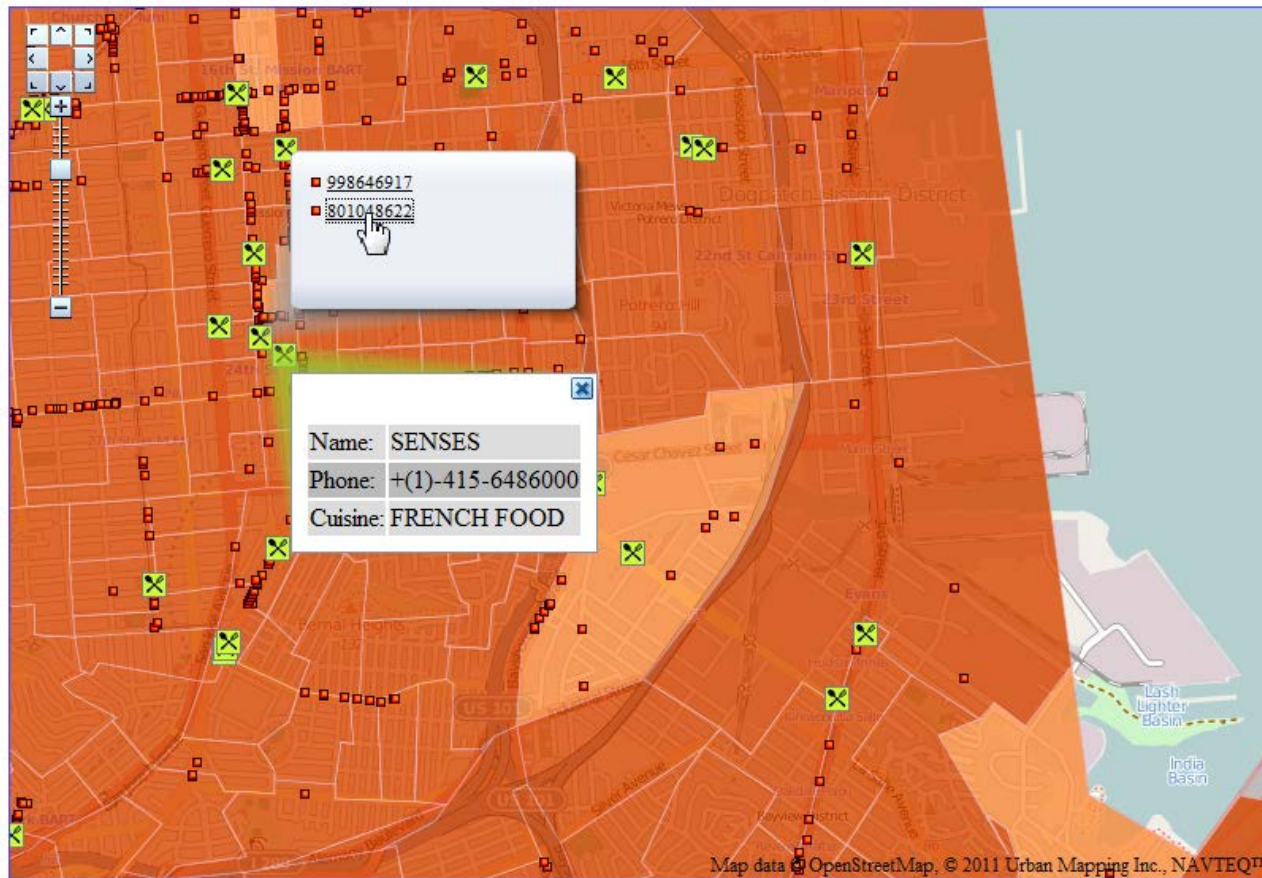




# Some new features

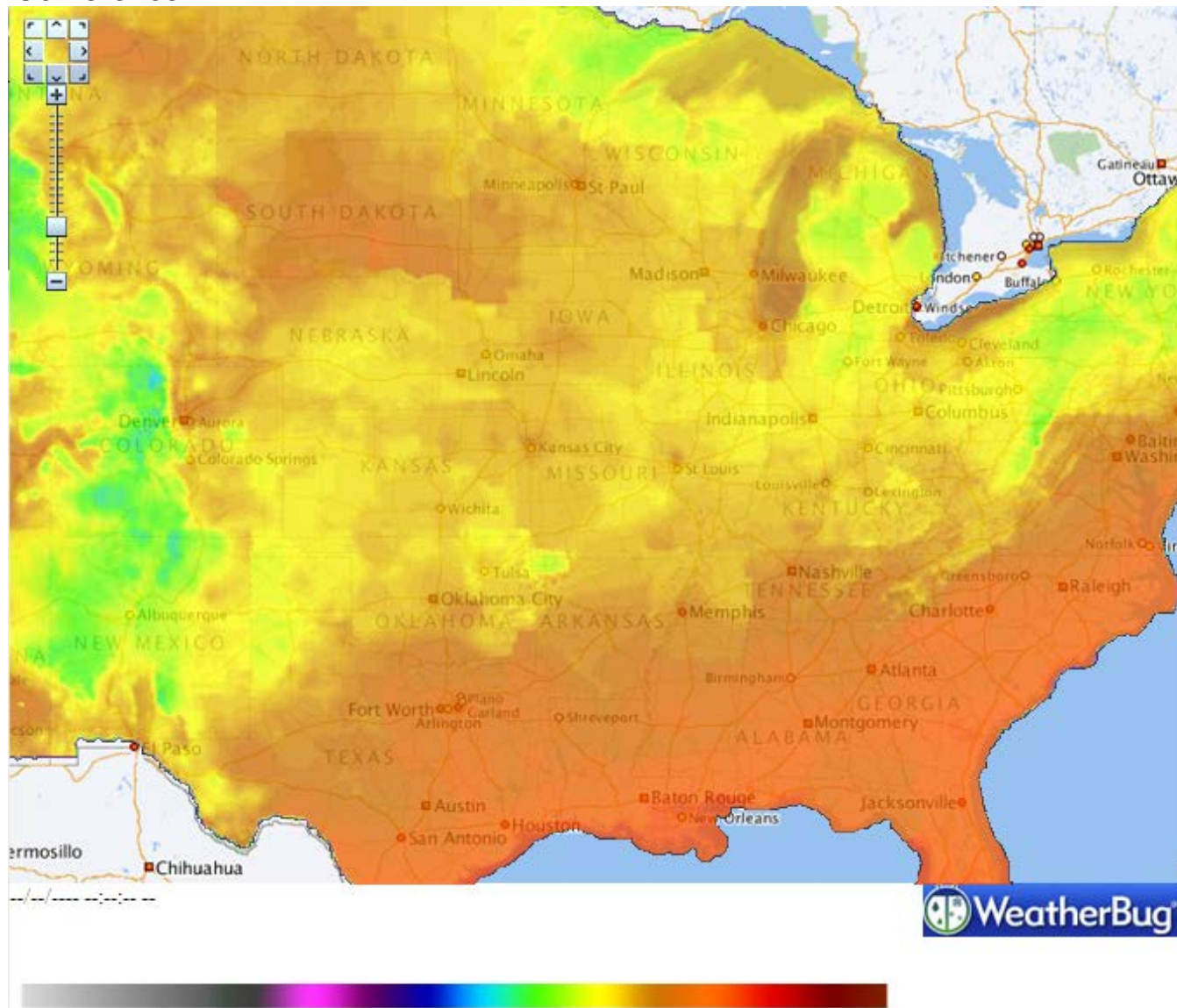
- ✧ FOI aggregation
- ✧ Opacity for layers, themes, FOIs
- ✧ External tile layers via metadata
- ✧ Support for WMS with Authentication
- ✧ MVFoiGroup (set visibility, opacity as a group)

# FOI aggregation



Multiple FOIs at the same location are displayed with a specified marker. On hover a hyperlinked list of IDs is shown. Clicking on an ID brings up FOI info-window.

# Theme or FOI Opacity



# Background maps via metadata



Location, Location, Location

Manage MapViewer | Manage Map Tile Layers

- Create
- **Manage**

✓ TIP You must first specify where the map tile images are stored.

Select type of map source:

- Internal
- Internal
- External
- Oracle eLocation
- Bing Maps
- Google Maps**

Continue

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**GUI option to select map source in MapViewer**

Enter key obtained from Google Maps API  
<http://code.google.com/apis/maps/signup.html>

map tile layer for external map source

Name: OBIEE\_GOOGLE\_MAP

This name will be automatically prefixed with datasrc name.

Data Source: OBIEE\_NAVTEQ\_Sample

MapViewer data source; for storing map tile layer configurations

Select and Add Delete

| Select name                           | value                                |
|---------------------------------------|--------------------------------------|
| <input type="radio"/> lib_url         | http://maps.google.com/maps?file=api |
| <input type="radio"/> key             | ABQIAAAAPnwEhDNdNs3kx2nW2E           |
| <input type="radio"/> map_type_values | MVGoogleTileLayer.MAP_TYPE_RC        |
| <input type="radio"/> map_type_names  | Road,Hybrid,Shaded,Satellite         |
| <input type="radio"/> version         | 2                                    |

Properties:

SRID: 3785

Maps will be displayed in this SRID

Min X: -2.0037508E7

Max X: 2.0037508E7

Min Y: -2.0037508E7

Max Y: 2.0037508E7

# Zoom Levels: 19

Submit Cancel XML mode

# WMS with Authentication

Define a WMS Theme - Step 1 of 3 - WMS Theme Parameters

Name:

Description:

Capabilities URL:

Version:

☐ Refresh Capabilities

☐ Authentication

User:

Password:

INFO: End of user styles loading.

Program initialized



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**D E M O N S T R A T I O N**

# Features under consideration

- ✧ SVG for markers, line, and area styles
- ✧ Support for additional spatial data sources
- ✧ Enhanced map manipulation

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Q & A



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