

BING maps - a Virtual World

Photogrammetric Week 2009

Alexander Wiechert
Vexcel Imaging GmbH | a Microsoft company
General Manager
alwieche@microsoft.com

Overview

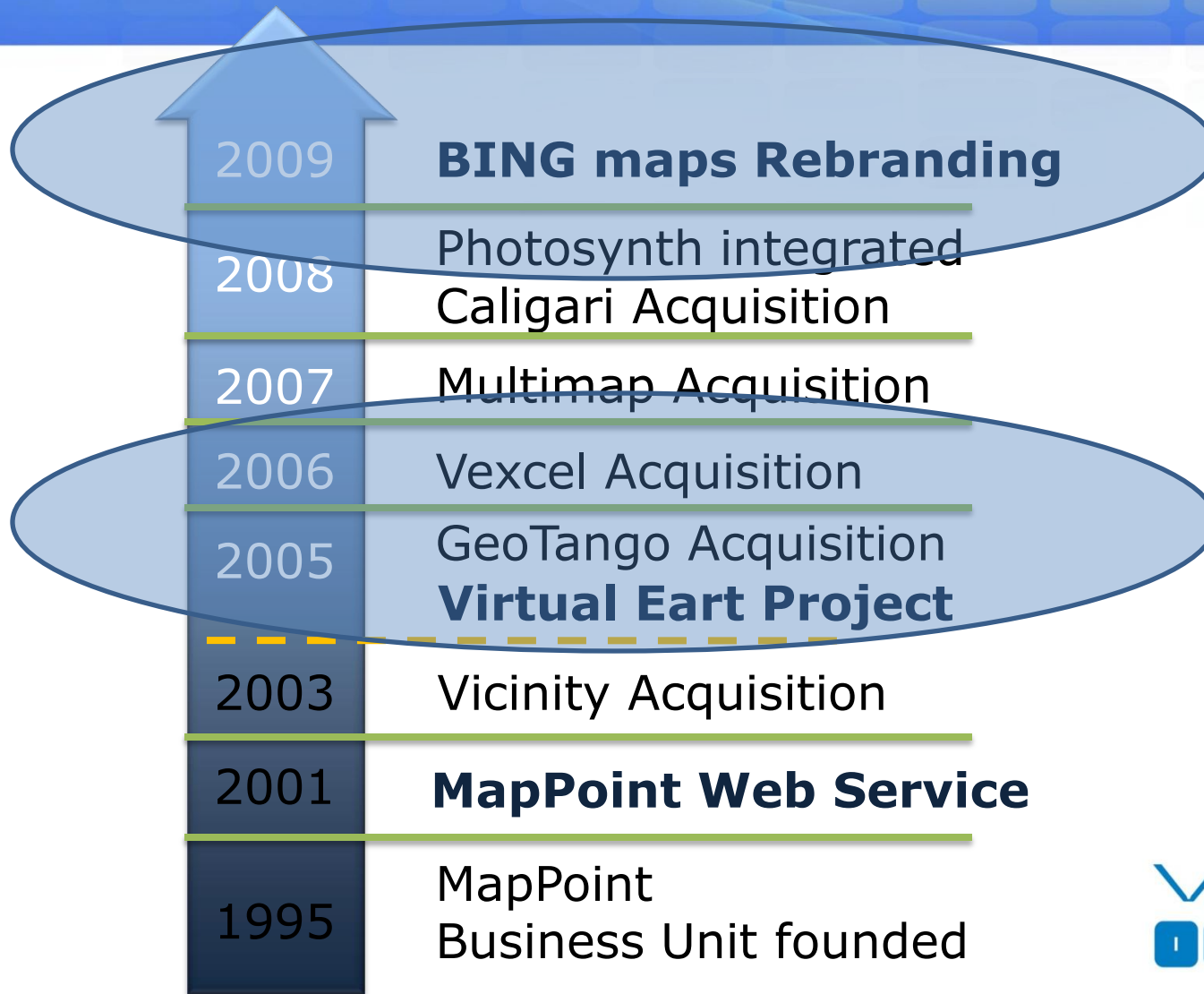
HOW IT BEGAN BING MAPS



HOW IT BEGAN

History of Microsoft Mapping Products

Microsoft



VEXCEL
IMAGING GmbH

a Microsoft company

Creating a Virtual Earth

THE VISION

You'll be walking around in downtown London and be able to see the shops, the stores, see what the traffic is like. Walk in a shop and navigate the merchandise. Not in the flat, 2D interface that we have on the web today, but in a virtual reality walkthrough.

Bill Gates, Chairman, Microsoft
from a 2005 speech in London
on his 50th birthday



Microsoft®



Microsoft® *Virtual Earth*

***Location-Awareness
on the Internet***

2005: Virtual Earth Mission

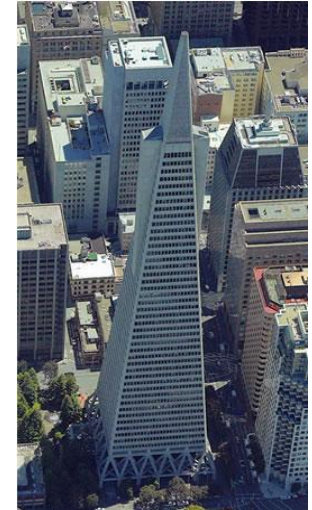
**The goal of Virtual Earth is being the best platform
and providing the best information and imagery to
serve all the geographical aspects of any business**

2005: Virtual Earth Vision

- 3000 cities in 5 years!
- World-wide coverage
- >90% cost reduction over current methods
- Fully automated processing is the only solution
- Multi-ray photogrammetry is the core technology for automated 3D framework generation

Virtual Earth Data Sources

- Satellite images
- UltraCam images
- Oblique images
- Street side images



One Core Data Source

- Satellite images



- UltraCam images



- Oblique images



- Street side images



3D Framework Production

- UltraCam images are the data source for the automated 3D framework production
- Images are used to
 - Generate the Digital Surface Model
 - Generate the Digital Terrain Model
 - Generate the Classification Map
- DSM & DTM & Classification are then being used to generate the 3D vector model automatically
- Then images are applied to texture the scene

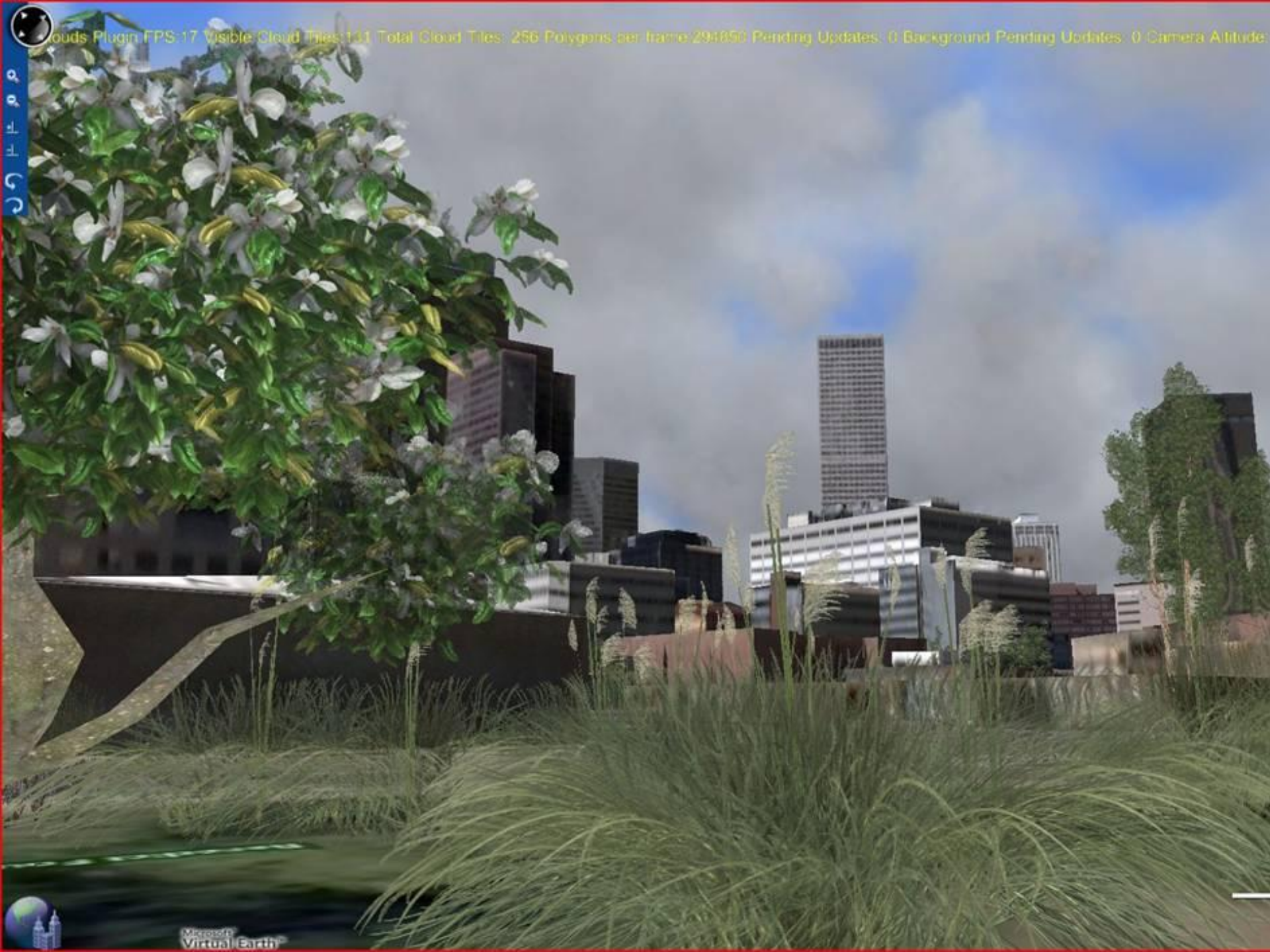
Denver



Microsoft



Clouds Plugin FPS: 17 Visible Cloud Tiles: 141 Total Cloud Tiles: 256 Polygons per frame: 294850 Pending Updates: 0 Background Pending Updates: 0 Camera Altitude: 1000



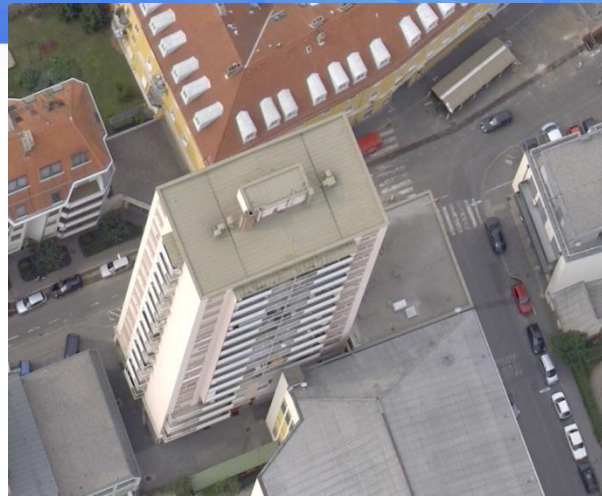
Microsoft
Virtual Earth

Virtual Earth Requirements

- UltraCam images are the data source for the automated 3D framework production
- Keys to automation
 - High overlap images
(multi ray photogrammetry)
 - Multi-spectral images
 - High dynamic range >12 bits
 - Geometric accurate images
 - Paralaxe free images

Multi Ray Photogrammetry

- 80/60 flight pattern: up to 12 rays per ground pixel
- Effective occlusion avoidance
- Robust and highly automated



DSM by Multi-Ray Photogrammetry

Microsoft

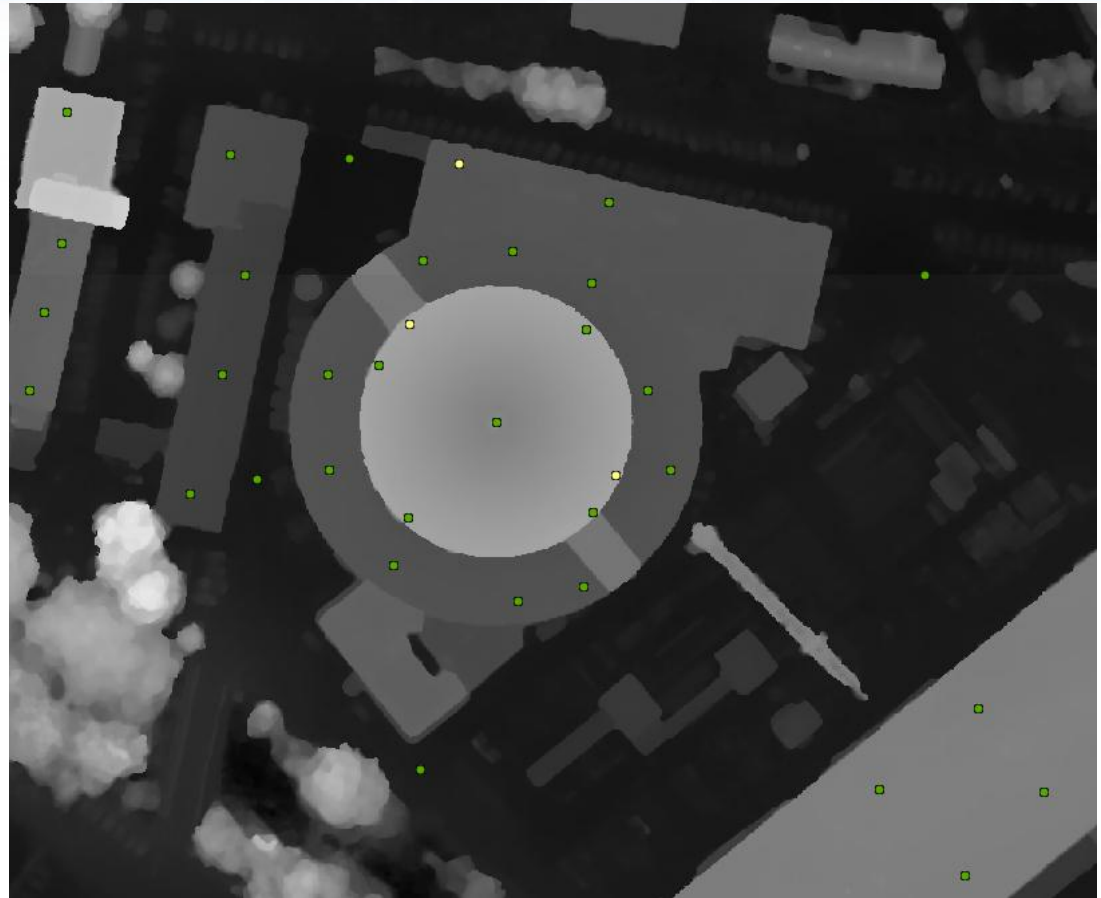
- **Source**
 - Set of high resolution images
 - 80/60 overlap
 - Up to 12 rays per point



DSM by Multi-Ray Photogrammetry

Microsoft

- **Process**
 - Automated dense matching
 - Extremely robust due to high redundancy
- **Result**
 - High res. DSM
 - > 50 „points/sqm“
 - << 10cm accuracy



High Resolution DSM

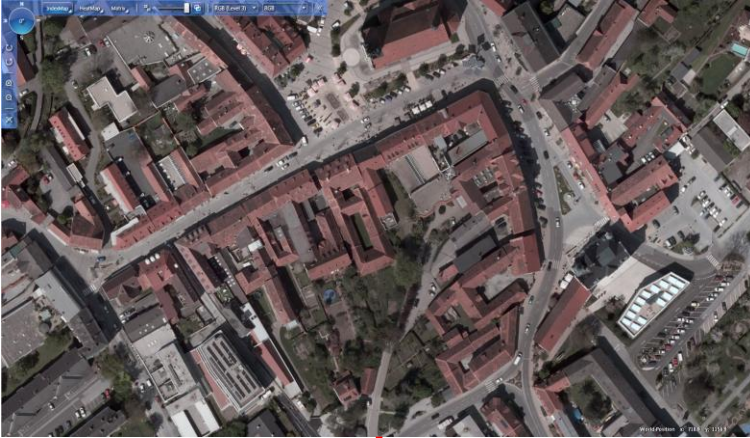


DSM & True-Ortho



“Photogrammetric” Workflow

Microsoft



- Classification Map automatically generated by Computer Vision
- Result: 10-15 classes such as buildings, vegetation A, vegetation B, road, concrete, sand , ...



VEXCEL
I M A G I N G GmbH

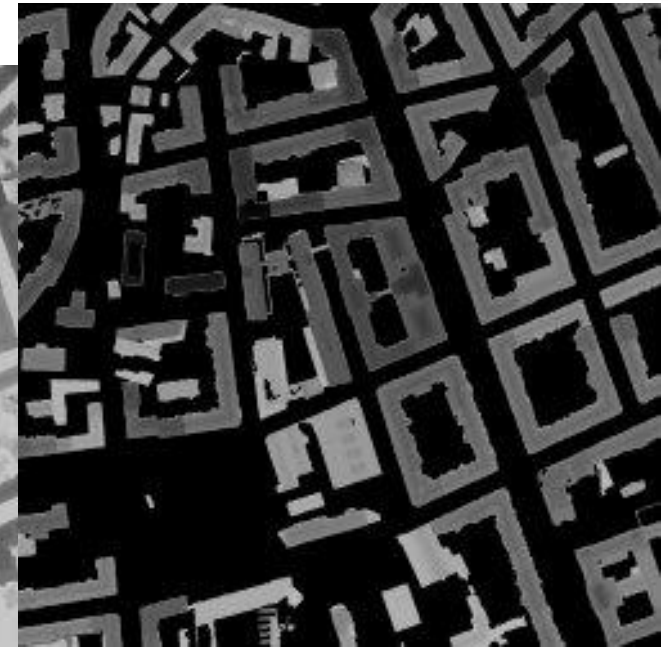
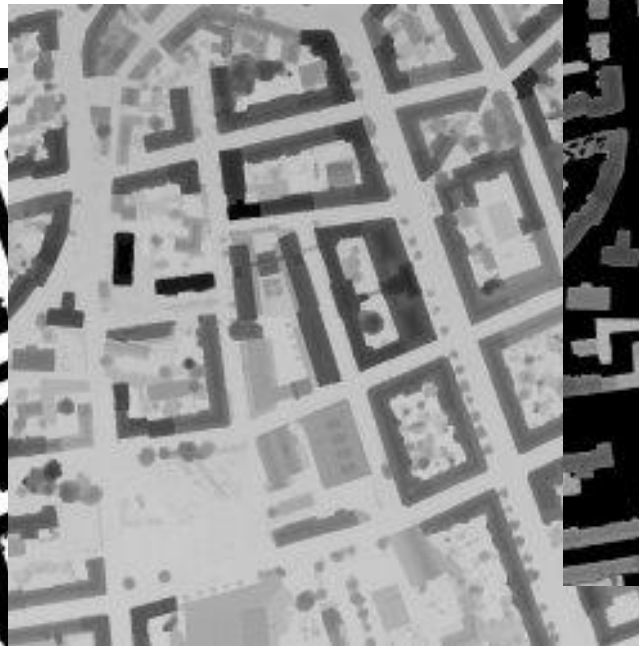
a Microsoft company

DTM Generation By Winston-*Microsoft* Salem Filtering



Automated Object Extraction

- DSM, DTM, Classification
- Automated object extraction



Automated Building Reconstruction

Microsoft



- Automated extraction of roof polygons
- Extrude completed roof geometry to the DTM
- Phototexture from UltraCam images

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Automated Building Extraction

Microsoft

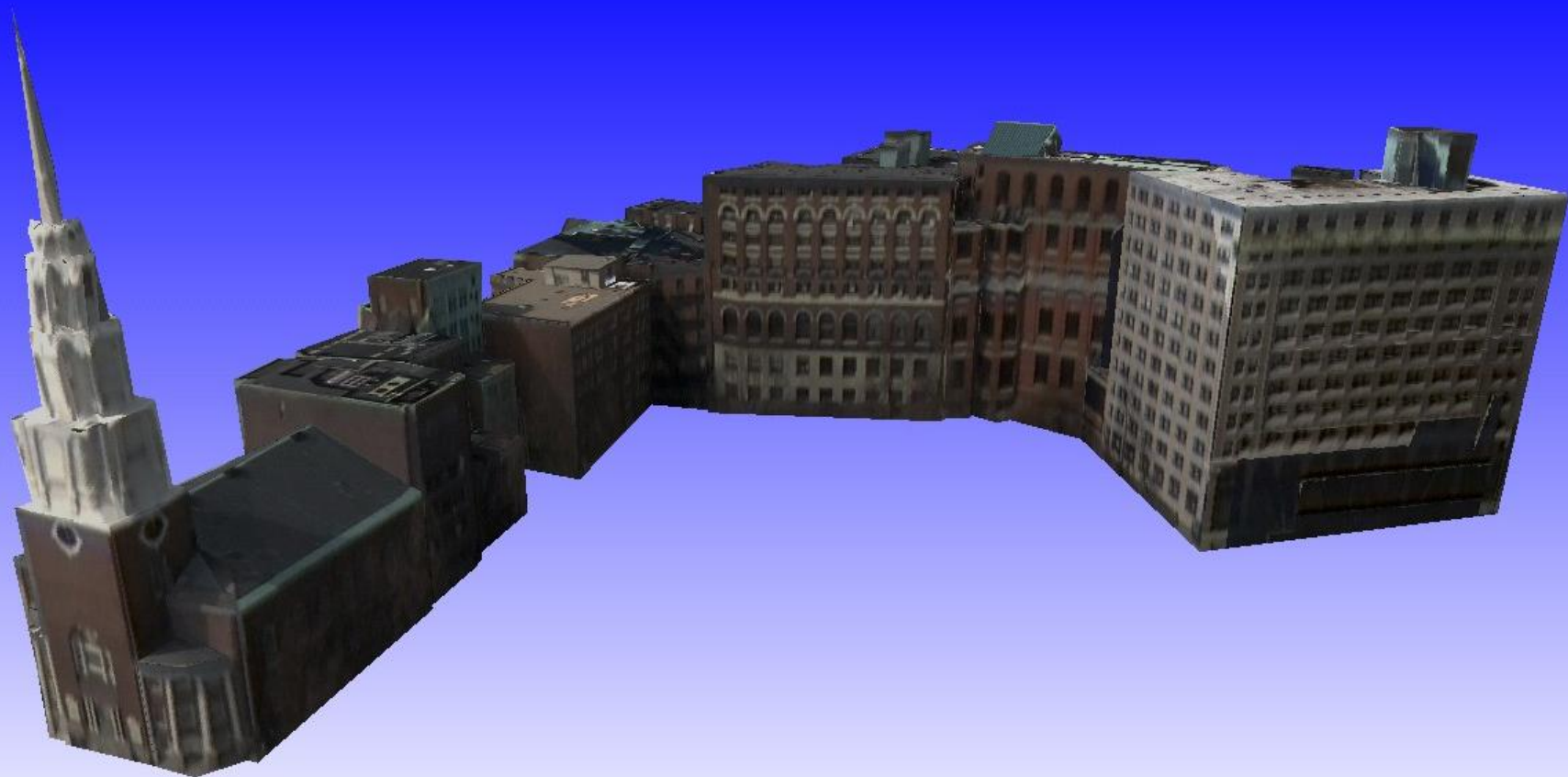
Combined with DTM and Ortho in Virtual Earth



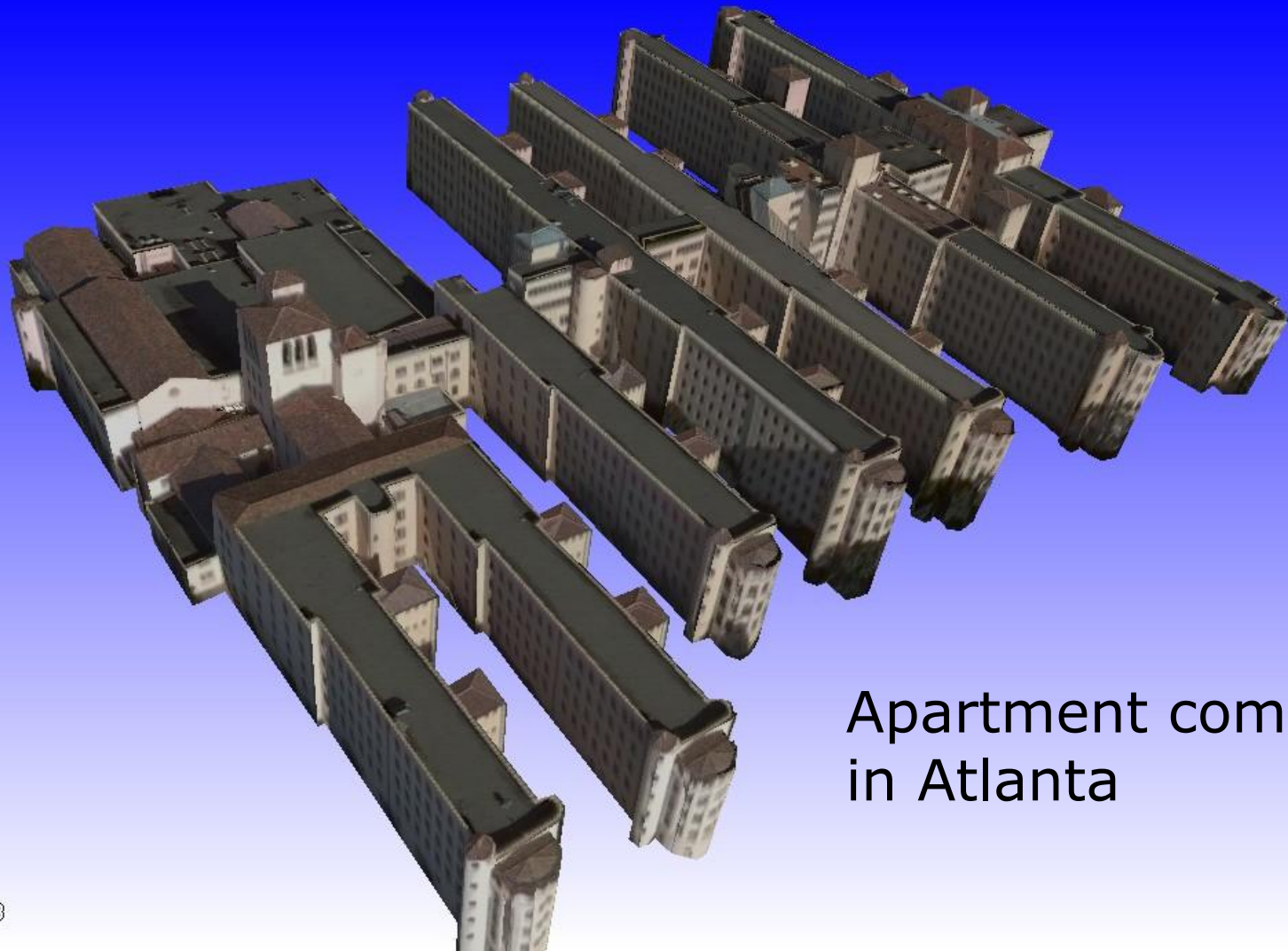
© 2006 Microsoft Corporation. Image

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Triangles : 1117



Apartment complex
in Atlanta

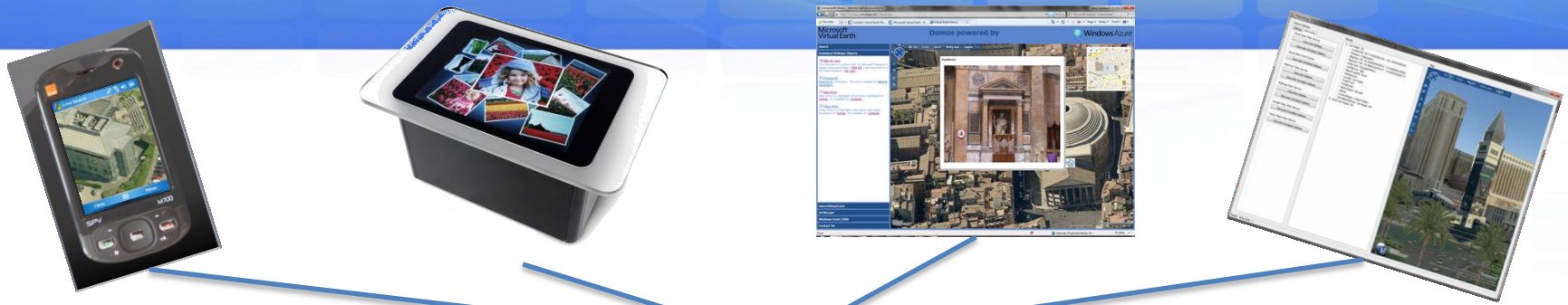
2.5 Dimensional Building, Denver, CO

Microsoft



2009: BING maps

Bing Maps Platform



AJAX

SOAP

Not Supported

Silverlight

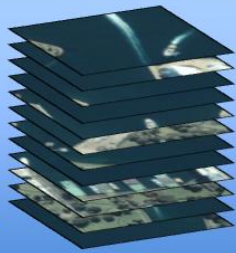
APIs

Geocoding, Reverse Geocoding, Routing, GPX, GeoRSS, KML, ...

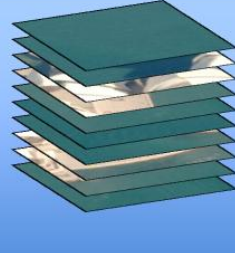
Content



Road



Aerial &
Hybrid



Bird's Eye &
Hybrid



3D Models and Vegetation

Vector Data

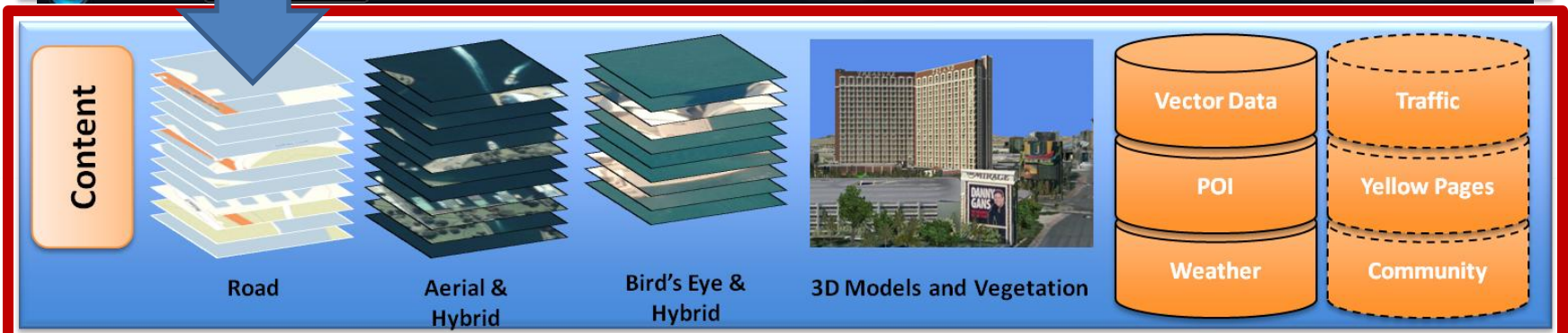
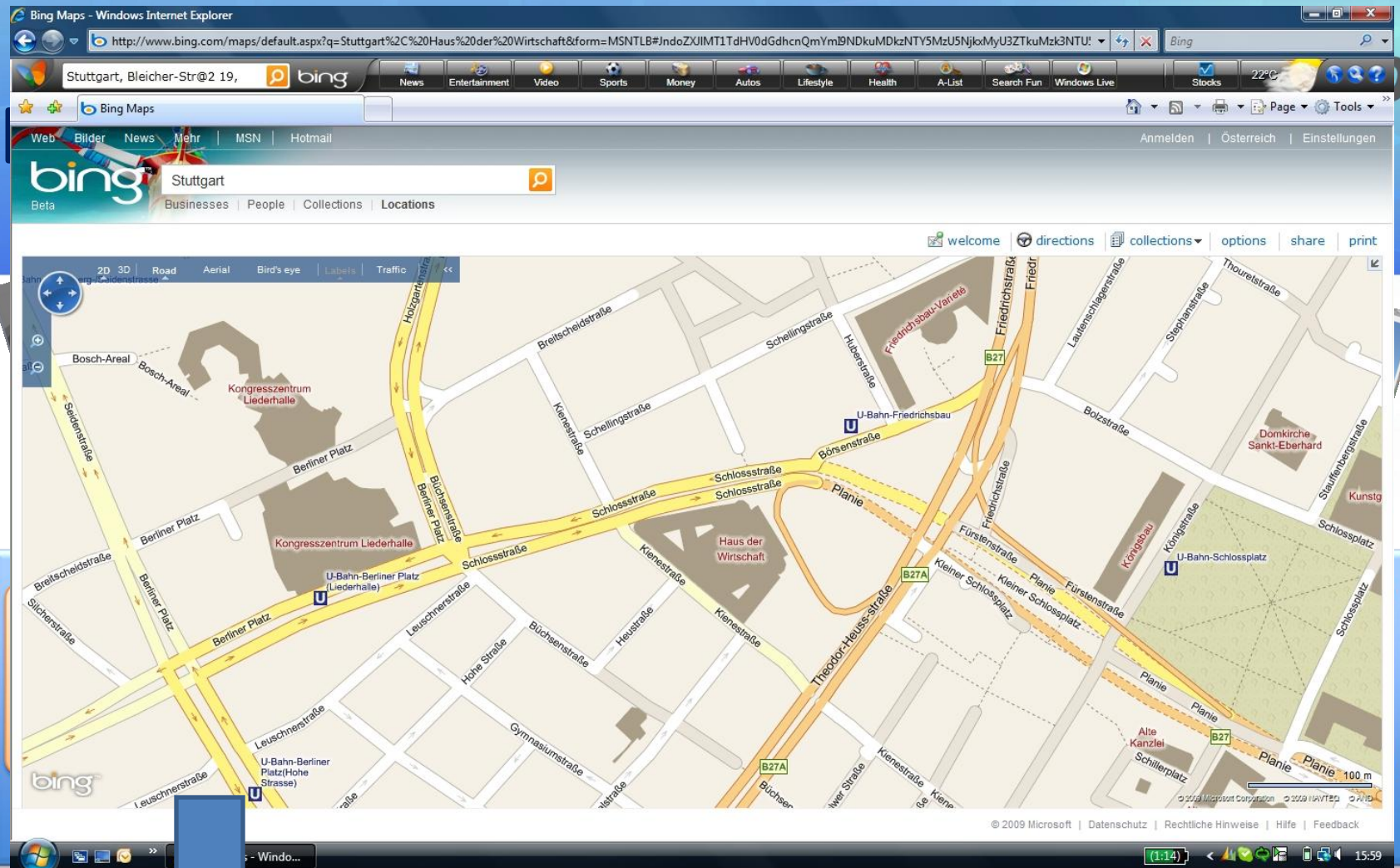
POI

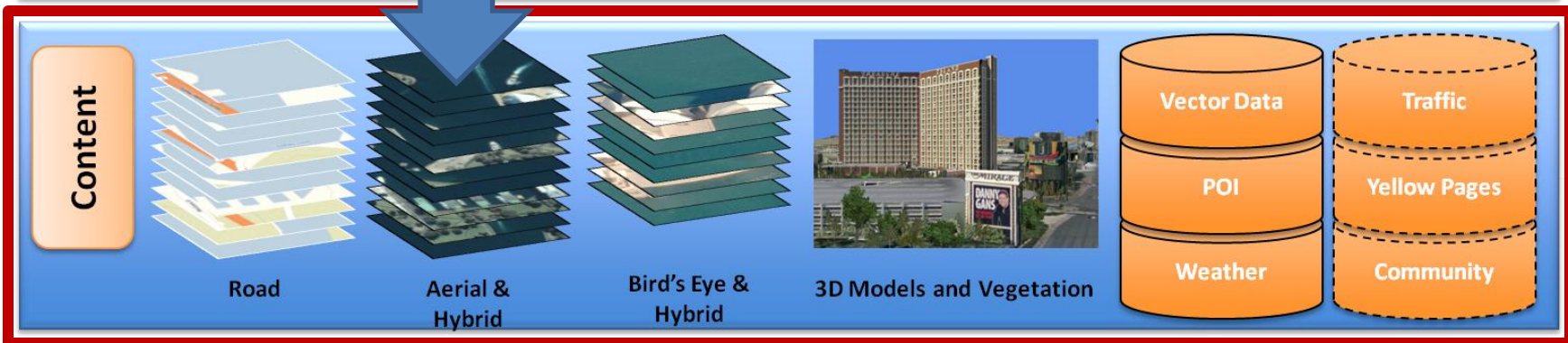
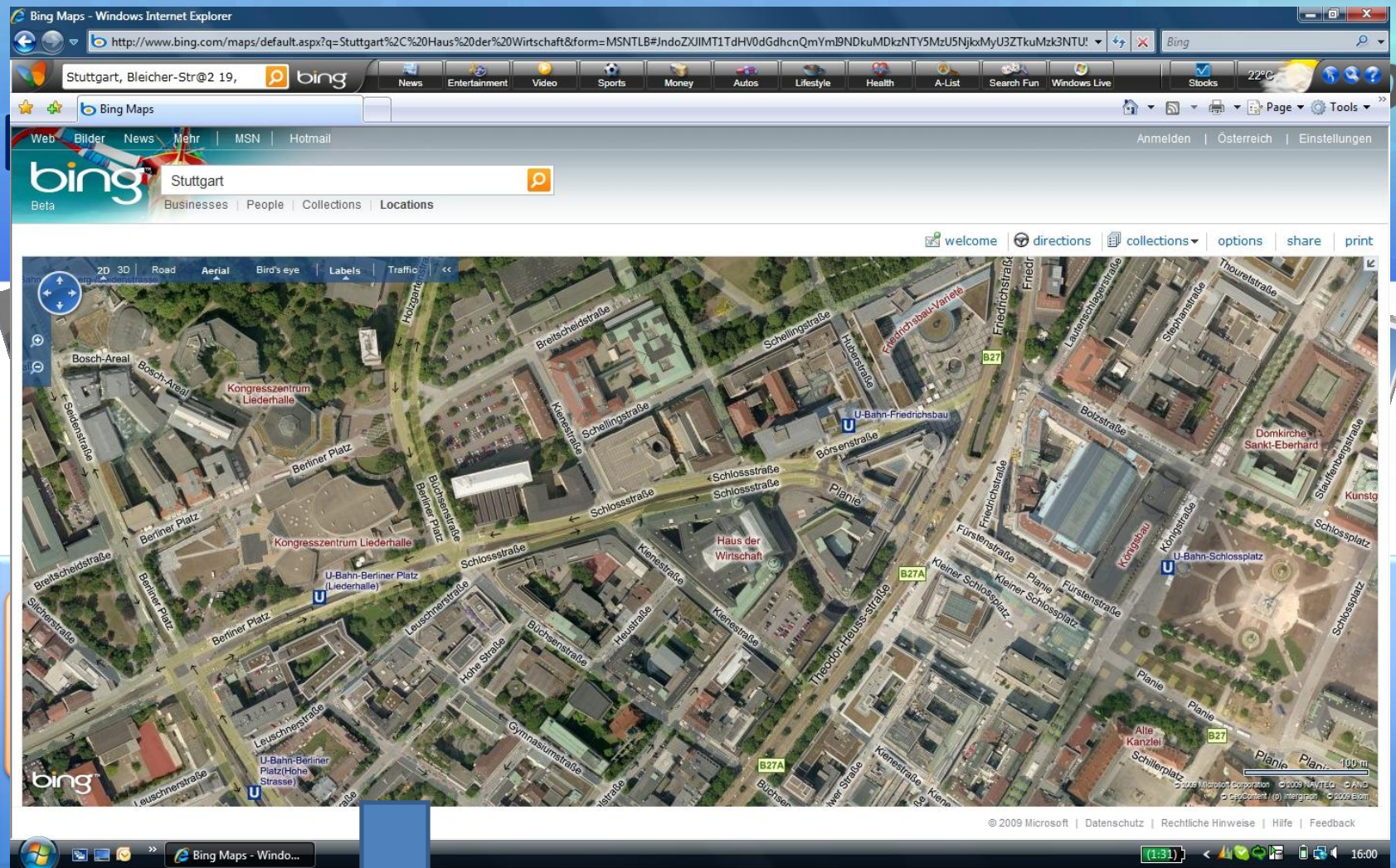
Weather

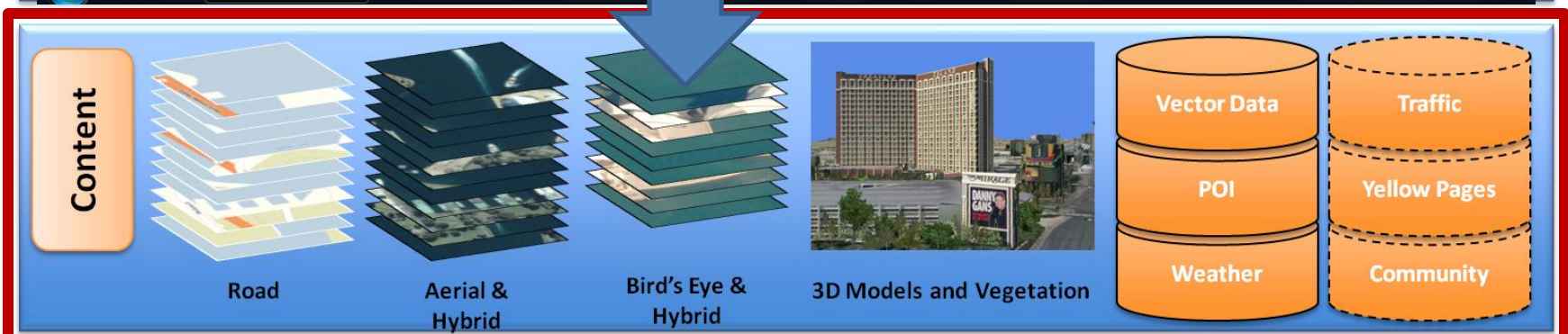
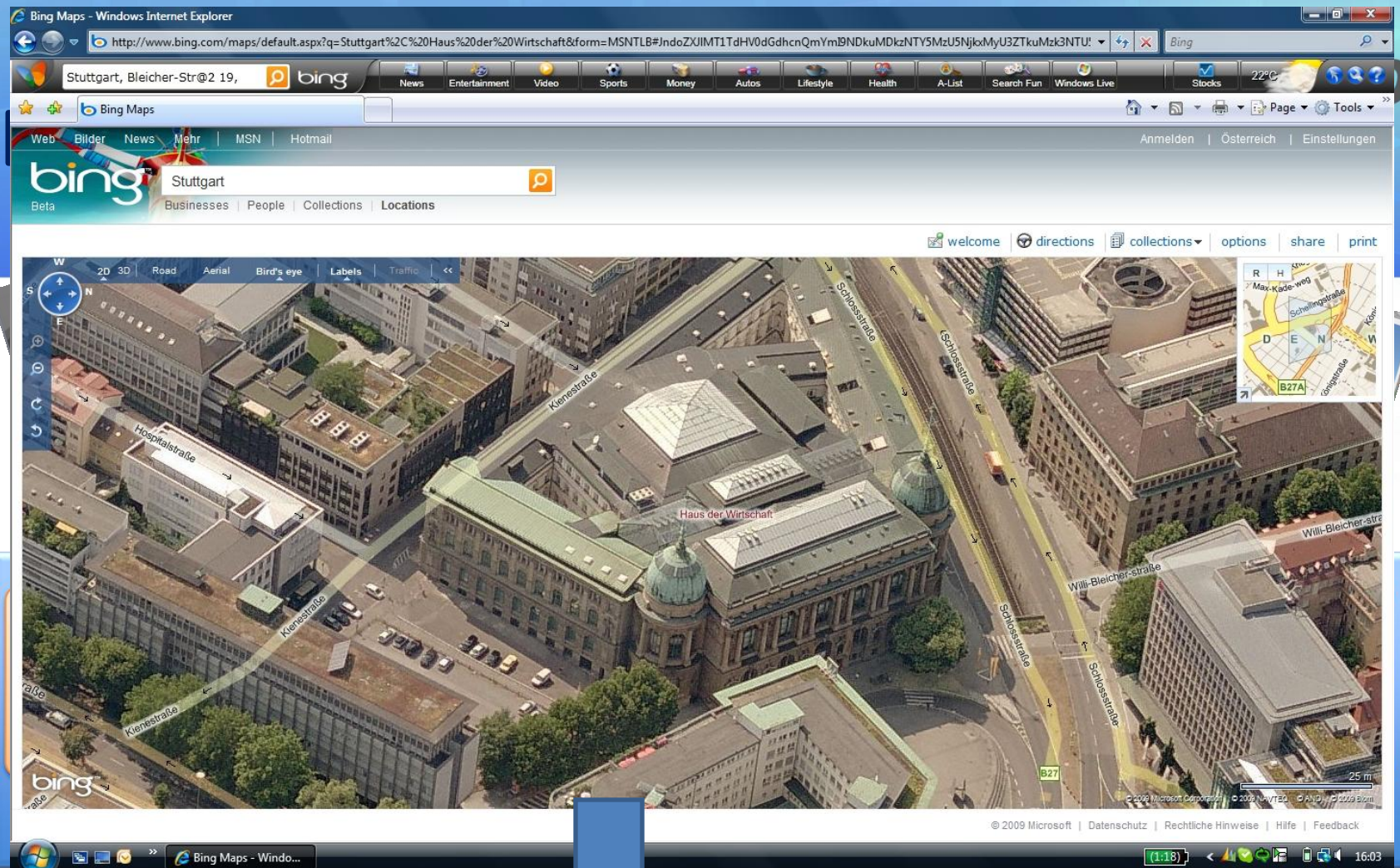
Traffic

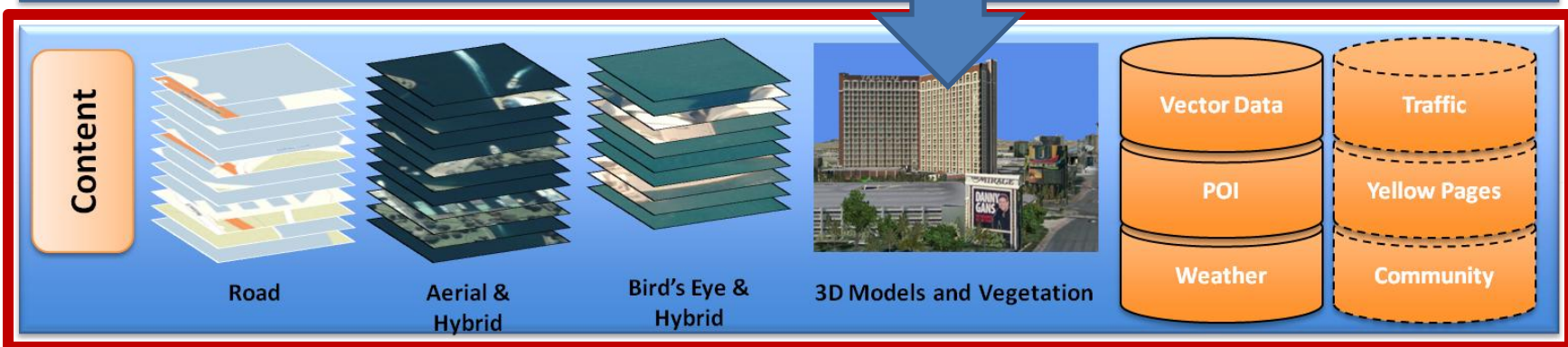
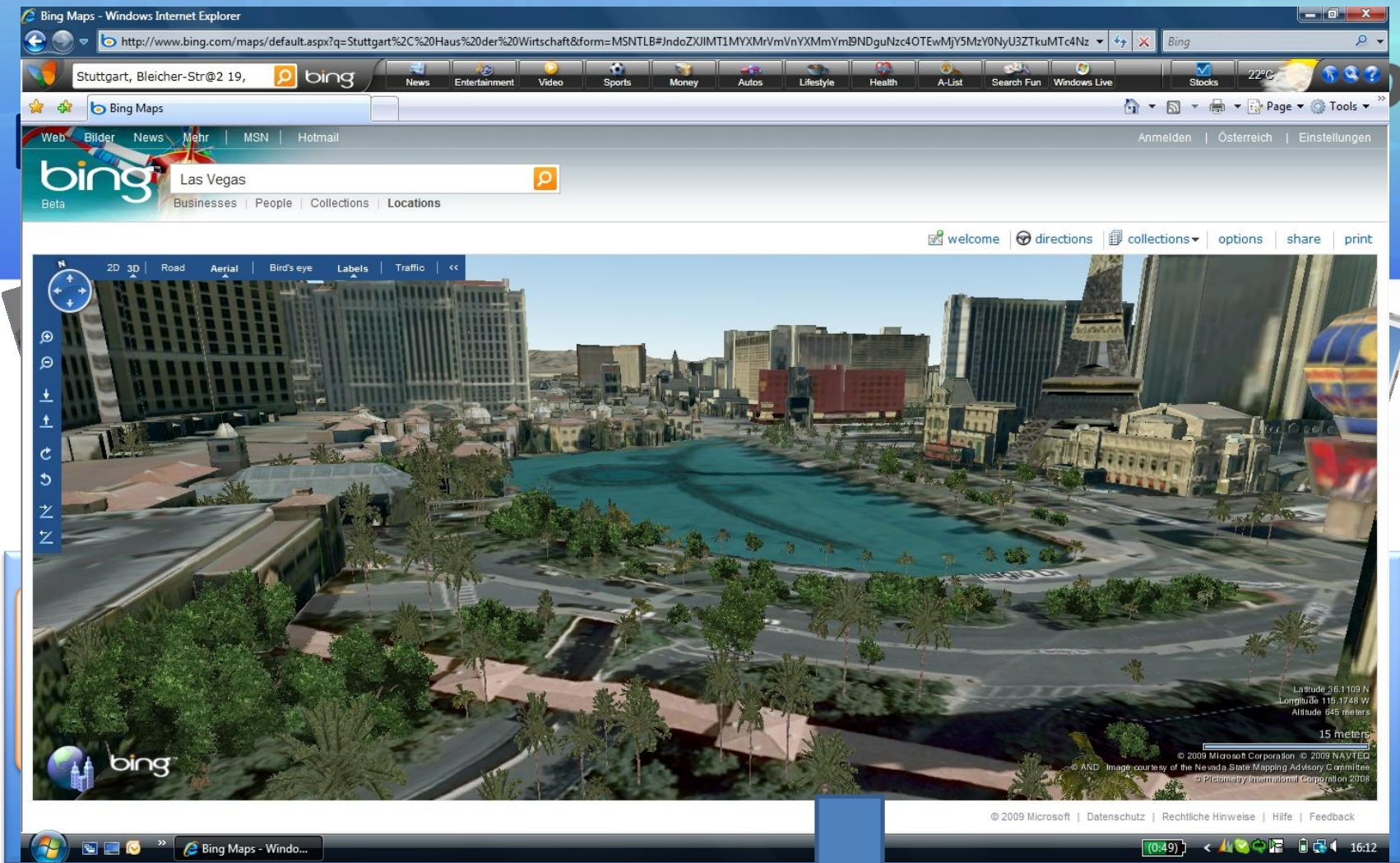
Yellow Pages

Community

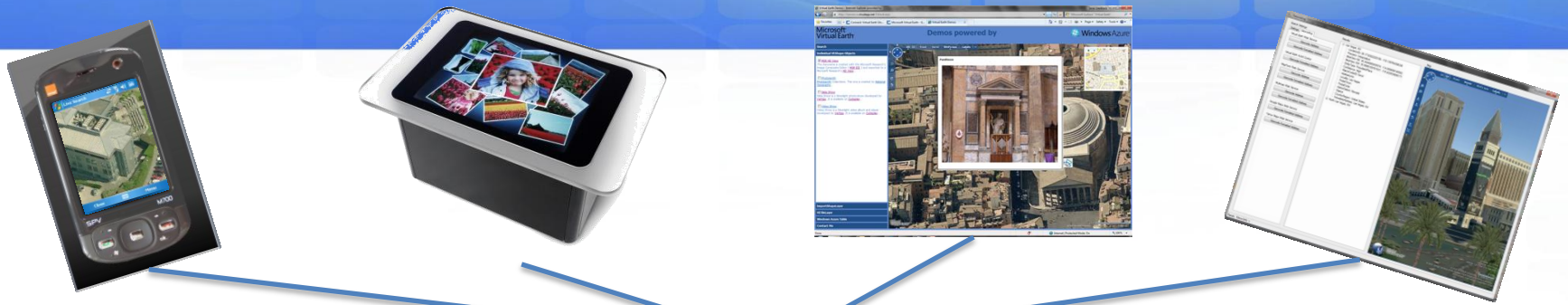








Bing Maps Platform



AJAX

SOAP

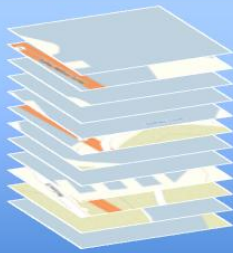
Not Supported

Silverlight

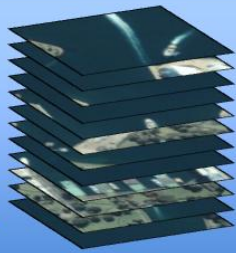
APIs

Geocoding, Reverse Geocoding, Routing, GPX, GeoRSS, KML, ...

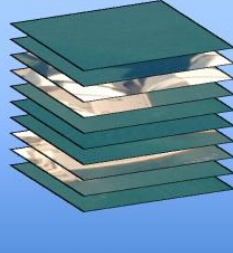
Content



Road



Aerial &
Hybrid



Bird's Eye &
Hybrid



3D Models and Vegetation

Vector Data

POI

Weather

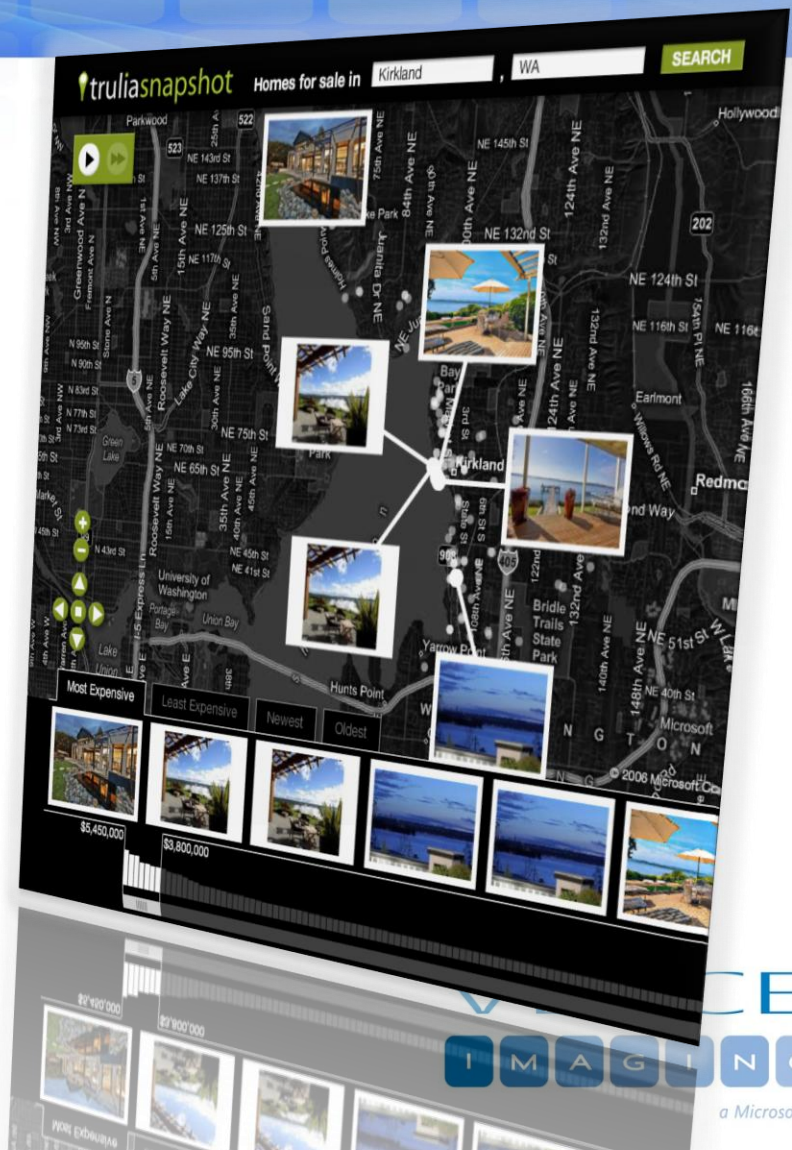
Traffic

Yellow Pages

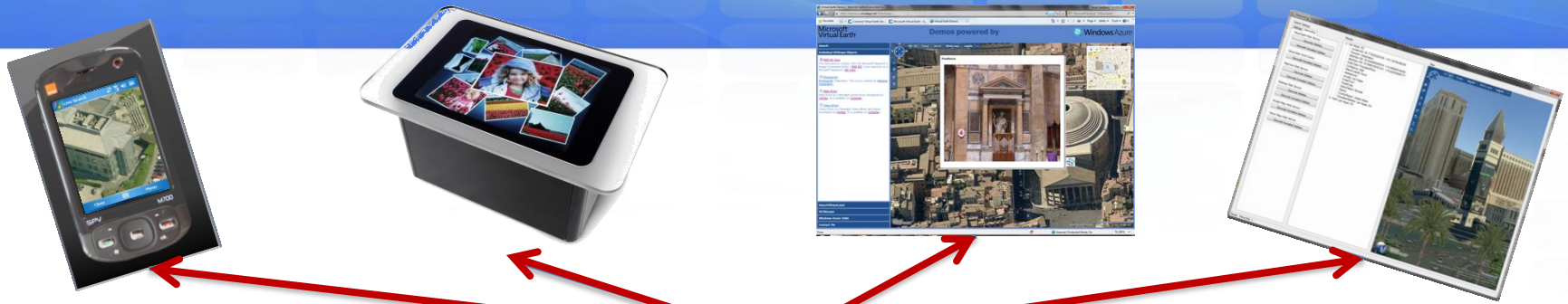
Community

How Bing Maps is used today

13 Examples



Bing Maps Platform



AJAX

SOAP

Not Supported

Silverlight

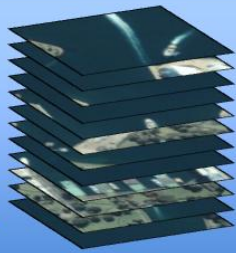
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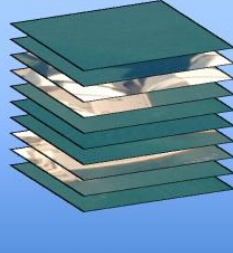
Content



Road



Aerial &
Hybrid



Bird's Eye &
Hybrid



3D Models and Vegetation

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Yellow Pages

Community


Advertisement

 **Precious Cargo** is as genuine as the sea. Dive in and enjoy!
 —Elizabeth Lowell, New York Times Bestselling Author

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[Click here.](#)

Google Earth Options Help Welcome, Guest Register Login

2D 3D Road Aerial Bird's eye Labels <<



Amtrak Train Yard

Latitude 48.7422 N
 Longitude 122.4889 W
 Altitude 21 feet

10 yds

Microsoft Virtual Earth™
 © 2008 Microsoft Corporation. Image courtesy of USGS

CLYDE FORD

A Novel of Suspense

Click to Enter

PRECIOUS CARGO

Table of Contents

Location Index

My Favorite Places

Special

OnScene FAQ

Virtual Earth for Tourism

Johannes Kebeck

VE Technology Specialist
jkebeck@microsoft.com

Inspire Me

Search

Points of Interest

☒ Hotels

☐ PhotoSynth from LSM

☐ PhotoSynth (Recommended)

☐ Wikipedia from LSM

☐ WebCam

☐ HDView

☐ Our Recommendations

More Information

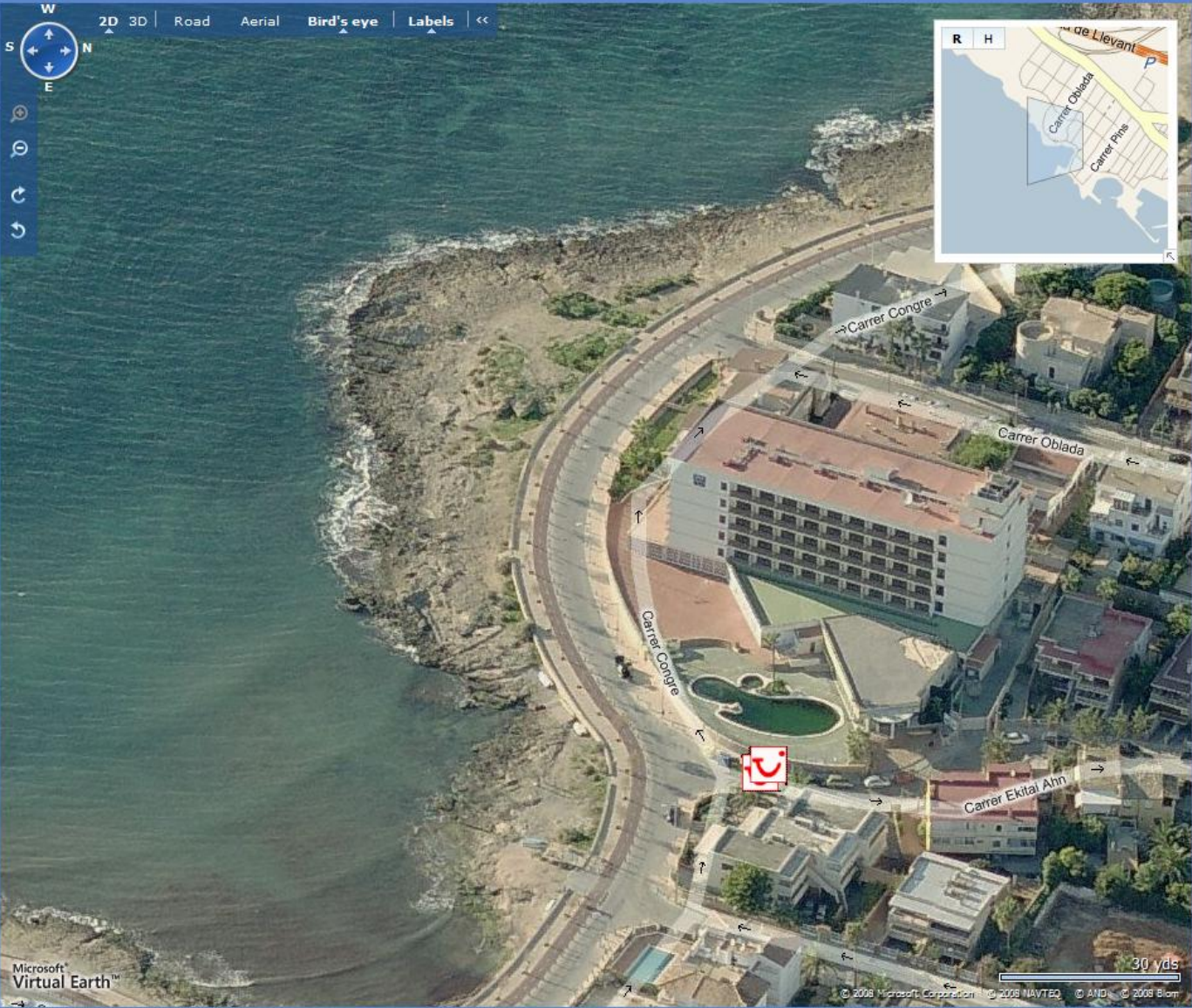
Itinerary

Contact Us


News

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2D 3D Road Aerial Bird's eye Labels <<



R H



Microsoft Virtual Earth™

30 yds

© 2006 Microsoft Corporation © 2006 NAVTEQ © AND © 2006 Blom

Locator-Type Applications

london executive **propertybird**

TO SUBMIT YOUR PROPERTY CALL US ON 0870 33 44 550

marylebone knightsbridge mayfair about us

Bird's eye views are available in this location [Close birdseye](#)

Search Options
Property Details
Local Area Information

Please select from the list below.

Schools
☒ Primary
☐ Secondary / Higher
☐ Nursery

Healthcare
☒ Hospitals
☐ Doctors Surgeries
☐ Dentists

Address Finder
Map Help

1 bedroom Flat
 £375 Weekly, Furnished

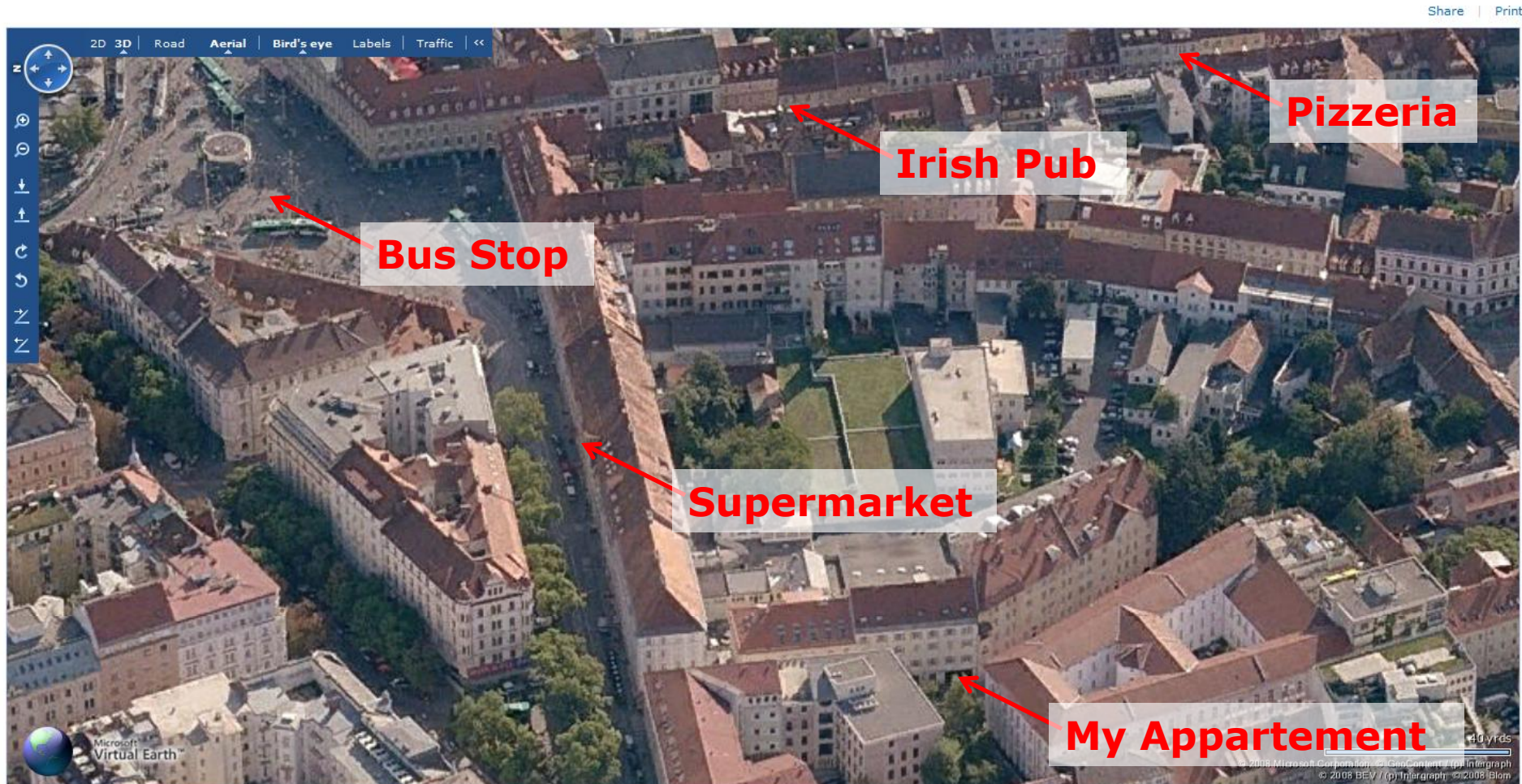
[view summary ::](#)
[zoom to street ::](#)

Approximate location based on postcode

Tools
 View direction
 Map Styles
 Road
 Aerial
 Hybrid
 Birdseye

<http://www.london-executive.com/propertybird/>

Real Estate



Directions

Microsoft

Bing Maps - Windows Internet Explorer

http://www.bing.com/maps/default.aspx?q=Stuttgart%2C%20Haus%20der%20Wirtschaft&form=MSNTLB#JnJ0cD1wb3Muc2F6a2JjaHR6Mms1X1VsbSUyYytCYWRlbi1XJWmZlWJcnR0ZW1iZXJnJ

Stuttgart, Hotel Unger

Bing Maps

Web Bilder News Mehr MSN Hotmail Anmelden Österreich Einstellungen

bing Stuttgart, Hotel Unger

driving directions Ulm, Baden-Württemberg, Germany to Kronenstr. 17, Stuttgart, Baden-Württemberg 70173

Print Send Map all Clear

Start: Ulm, Baden-Württemberg, Germany

A-B: 92.8 km, 59 min

1 Depart Neue Straße 0.7 km

2 Turn right onto B311 / Bismarckring 0.3 km

3 At roundabout, take 1st exit 7.3 km

4 Take ramp right for E52 toward Stuttgart 73.8 km

5 At exit 52, take ramp right for B27 toward S-Zentrum / S-Degerloch / Le-Echterdingen 10.0 km

6 Take ramp right for B27 / Friedrichstraße 0.7 km

7 Turn right onto Kronenstr. 0.1 km

8 Arrive at Kronenstr. 17, Stuttgart, Baden-Württemberg 70173

The last intersection is B27 / Friedrichstraße / Friedrichsplatz

End: Kronenstr. 17, Stuttgart, Baden-Württemberg 70173

Hotel Unger 0711/20990

Save this location Edit

Add to trip

Route options Round-trip Reverse

Shortest time Shortest distance

Bing Maps - Windo...

1:05 16:20

Games

Microsoft



<http://rbrundritt.spaces.live.com/Blog/cns!E7D>

Mashups & Community Sites

Microsoft

facebook
Search
Applications
Photos
Video
Groups
Events
Notes
MapMate
more
Sky+ HD Box only £150
Get the ultimate TV experience with Sky HD. Bring your HD-ready TV to life with sharper pictures and more vibrant colour.
More Ads | Advertise

Profile edit Friends ▾ Inbox (1) ▾ home account privacy logout

North America
South America
Pacific Ocean

Microsoft Virtual Earth™

Show friends in ▾ All networks ▾ MapMate friends ● All my friends

WAR ON GAZA

Home Reports Submit an Incident How to Help BETA

Click on the dots to view reports

Microsoft Virtual Earth™

From: Dec 2008 To: Jan 2009

Overview of reported incidents over time

This is an experimental web service. You may experience a few technical glitches but we are working to improve it

Submit an Incident

Submit via SMS | Twitter

Community Integration

The screenshot displays the Harley-Davidson Ride Planner web application. The interface is divided into several sections:

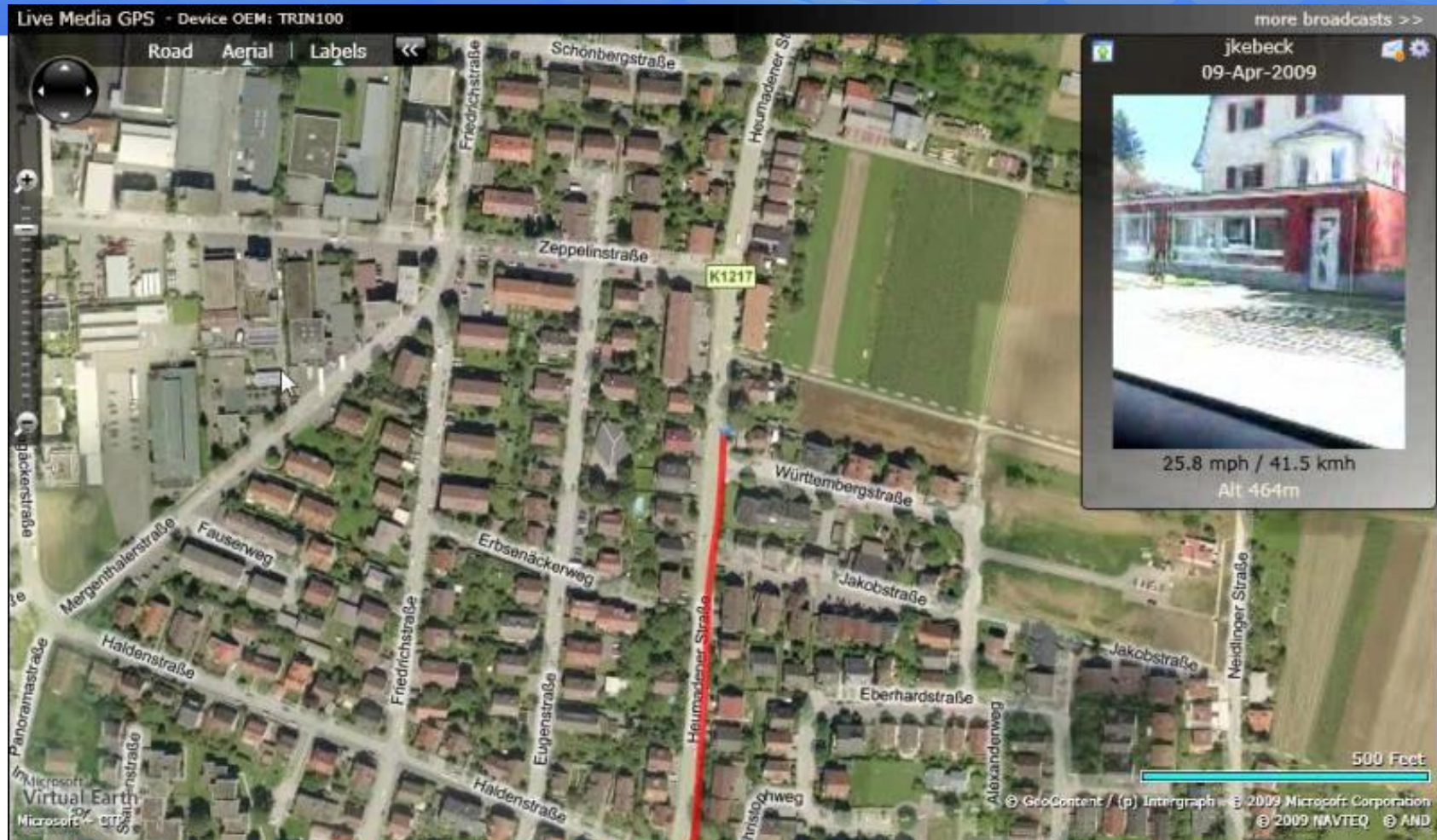
- Header:** Features the "HARLEY-DAVIDSON RIDE PLANNER" logo with the tagline "PLAN. RIDE. SHARE." and a "BETA" badge. Navigation icons for "ROADS", "DEALERS", "HOTELS", and "EVENTS" are present, along with a "SHOW ON MAP" button.
- Left Sidebar:**
 - My Ride:** Includes a "Start Location" field with "Kirkland, WA" and a "GO" button.
 - Roads:** A section titled "Roads within current map view" with checkboxes for "Show Great Roads" and "Show Rider Submitted Roads". It shows "1 to 10 of 190" results.
 - One Day'er:** A featured ride listing with an average rating of 5 stars, length of 426.2 mi / 685.9 km, and submission by "A Harley-Davidson Rider". It includes a "Hide road" option and details for "Start Location" and "Location 2".
- Main Map:** A map of the Pacific Northwest region, showing a blue route line. Numbered markers (1-10) are placed along the route. Various icons for dealers, hotels, and events are scattered across the map. Geographical features like "Mount Rainier National Park" and "Baker-Snoqualmie National Forest" are labeled.
- Right Panel:** A detailed view of the "Stevens Pass Greenway" showing an average rating of 4.5 stars, a length of 124.8 mi / 200.8 km, and links for "More Information", "Center here", "Zoom to show road", and "Show Road".

http://rideplanner.harley-davidson.com/rideplanner/ridePlanner.jsp?locale=en_USn

a Microsoft company

Tracking

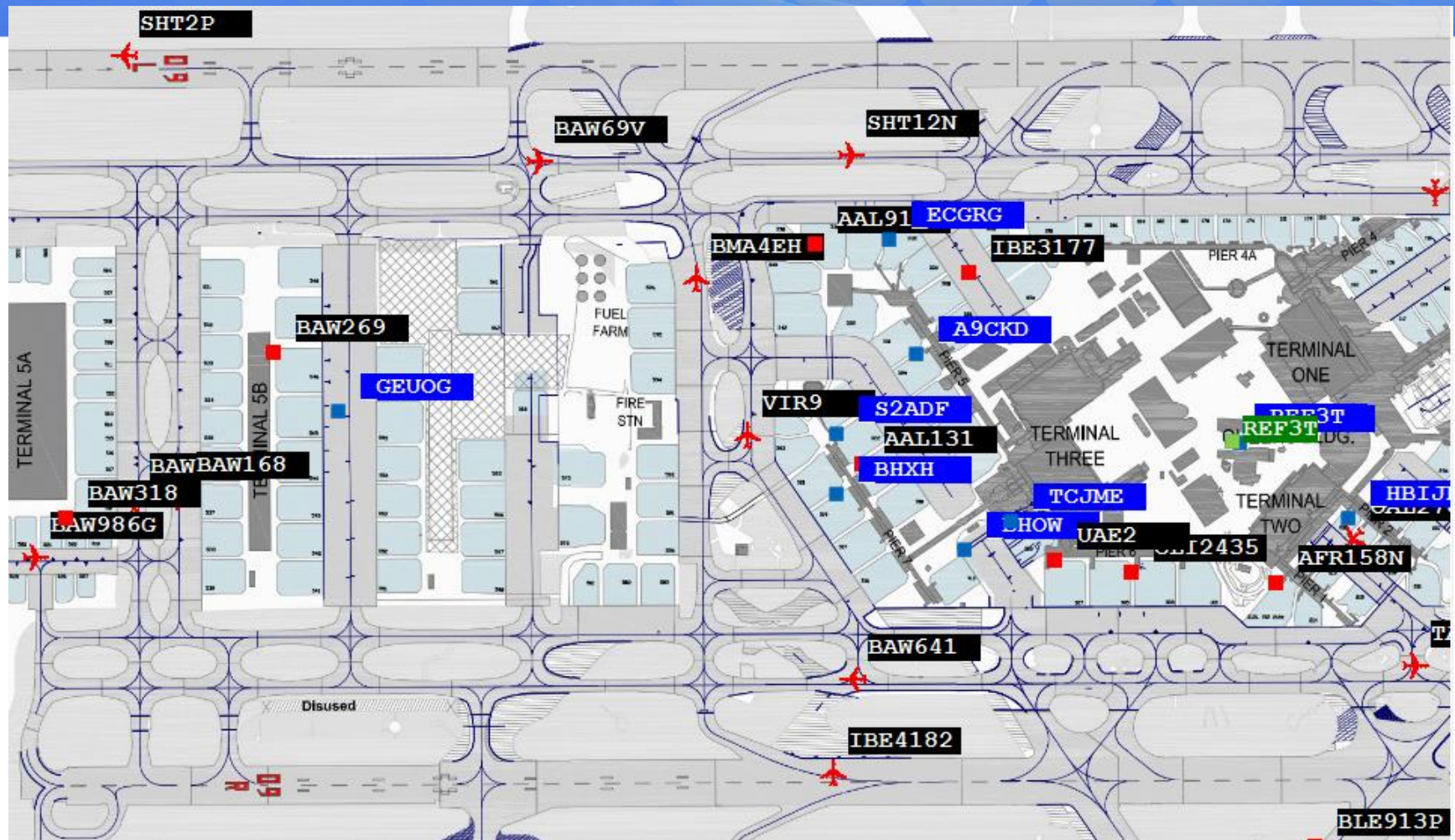
Microsoft



I M A G I N G GmbH

a Microsoft company

Tracking





idvsolutions™

BP HMS

Microsoft®



Hurricane Management System Strategic Response to Hurricanes and Loop Currents

Current Location

- Home
- Microsoft Demos
- HMS
 - Map Admin
 - Data Admin
 - Satellite Admin



Within Impact Probability Zones			Within Phase Regions	Draw Your Own Query Region
1 of 2			82 assets returned	export to Excel
Assets within Region	Type	People on Board		
GI 40 B	Shelf Platform	0		
GI 40 F	Shelf Platform	0		
GI 40 I	Shelf Platform	0		
GI 41 A	Shelf Platform	0		
GI 47 C	Shelf Platform	0		

thunder horse

1 of 5

People On Board: 362

Estimated Tropical Force Winds: 64 hours

Helipad: y

Lat/Long: 28.19100 -88.49570

Start Year: 2006

Design: Semisubmersible

Block: Mississippi Canyon 778/822

Operated By: BP

Type: Mobile Offshore Drilling Unit

Phase: Phase 0

Status: Shut Down

Production: 250,000 barrels of oil

Position Source: (3) Design center of structure

Bathymetry: C&C AUV Bath Survey

Comments: Include flotel TT = ? hours



Map Center

[Interactive Map](#)
[Map Catalog](#)
[Help](#)
[About](#)


Map Layers

[GeoRSS](#)
[WMS](#)
[KML](#)

Details

☐ Disaster Information

- ☒ Cyclone Path
- ☒ Alerts
- ☐ Aid Shipments
- ☒ Logistic Hubs

☐ Weather Conditions

- ☐ Weather Forecast
- ☐ Current Weather
- ☐ Recent Lightning Strikes

☐ Healthcare

- ☒ Advanced Hospitals
- ☐ Intermediate Hospitals
- ☐ Basic Healthcare


☐ Myanmar Information

- ☒ Railroads
- ☐ Roads
- ☐ Capitals
- ☐ Townships



City of Miami

Microsoft



City of Miami
www.miamigov.com

Property Search:

Enter an address

Welcome

Search Results

Property Details

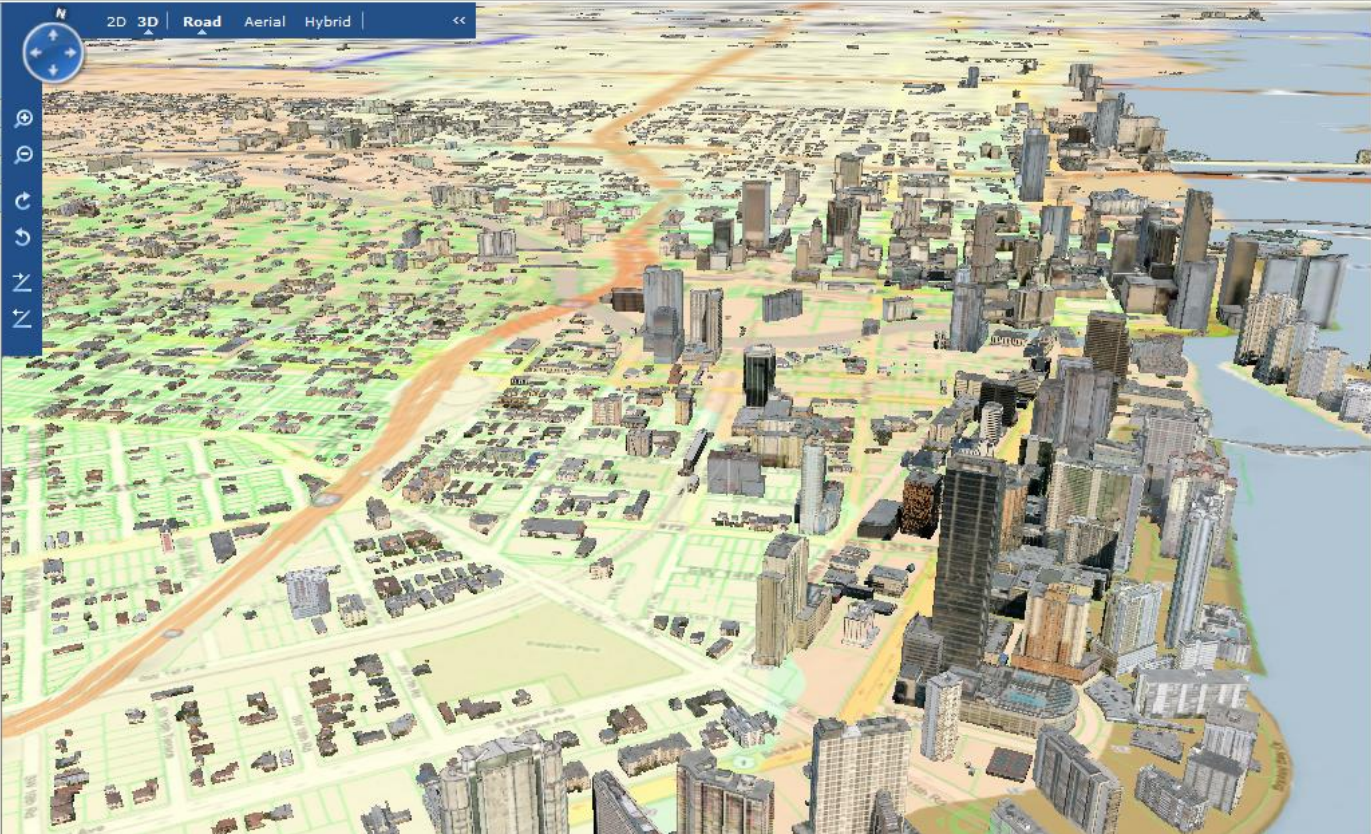
Zones & Districts

Select from the following options to display additional map details.

- ☐ Special Overlay and Neighborhood Conservation Districts
- ☐ Commission Districts
- ☐ Future Land Use
- ☐ Existing Land Use
- ☒ Flood Zones
 - ☐ Special Flood Hazard Areas
 - ☐ Coastal High Hazard Areas
 - ☐ Areas Located Outside Special Flood Hazard Area
 - ☐ Up To 0.2% Annual Chance Floodplain Boundary
- ☐ Primary Zoning

[Clear Selection](#)

2D 3D Road Aerial Hybrid



EMEA Customers

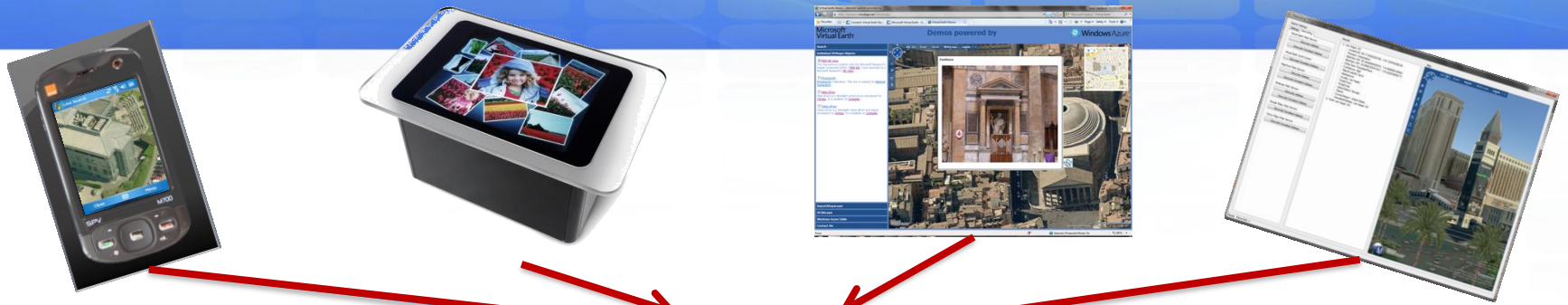


Extensibility & Integration

6 Examples how to interact



Bing Maps Platform



AJAX

SOAP

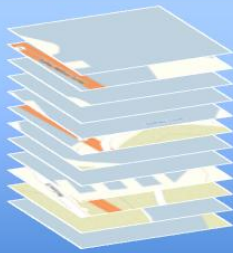
Not Supported

Silverlight

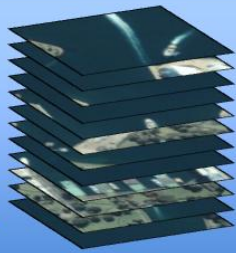
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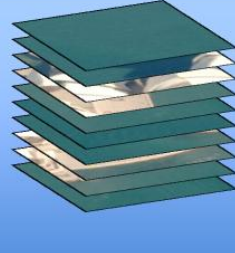
Content



Road



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Bird's Eye &
Hybrid



3D Models and Vegetation

Vector Data

POI


Weather

Traffic

Yellow Pages

Community


Microsoft Joined the OGC



Open Geospatial Consortium, Inc.

"Making location count"

OGC® Home | OGC Network™ | OGC User™ | OGC Forum



About Standards Programs Press Events Implementing Compliance

Search

Pressroom

- Email Lists
- Press Releases
- OGC Newsletters
- Press Coverage
- White Papers

HOME » PRESSROOM » PRESSRELEASES

Open Geospatial Consortium (OGC) Adds Microsoft as Principal Member

Release Date:
Sun, 2007-10-21 23:00

Contact:
Sam Bacharach
Executive Director, Outreach and Community Adoption
Open Geospatial Consortium, Inc
tel: +1-703-352-3938
sbacharach@opengeospatial.org

Content:
Industry Leaders Support Organization's Commitment to Geospatial Interoperability
Wayland, MA and San Antonio, TX, October 23, 2007 - Today, at the annual GeoInt 2007 Symposium, the Open Geospatial Consortium, Inc. (OGC) announced that Microsoft Corporation has joined the consortium as a Principal Member. Government agencies worldwide are realizing the power of geospatial applications to meet their missions in ways that are unprecedented - from public safety applications to famine and hunger relief.

GeoRSS / KML / KMZ / GPX

```
<?xml version="1.0"?>
<rss version="2.0"
  xmlns:georss="http://www.georss.org/georss"
  xmlns:gml="http://www.opengis.net/gml">
  <channel>
    <item>
      <title>Johannes Kebeck</title>
      <link></link>
      <description>
        <![CDATA[
          70 Robin Way<br />
          Tilehurst<br />
          RG31 4SW<br />
          UNITED KINGDOM
        ]]>
      </description>
      <georss:point>51.449139537118164 -1.0</georss:point>
    </item>
    <item>
      <title>Joannes Way to Work</title>
      <description>Length: 17.69 miles</description>
      <georss:line>51.46138386849263 -0.924</georss:line>
    </item>
    <item>
      <title>Microsoft Bldg 4</title>
      <description>
        <![CDATA[
          Perimeter: 218 yards<br />
          Area: 0.53 acres<br />
        ]]>
      </description>
      <georss:polygon>51.46221441192501 -0.924</georss:polygon>
    </item>
```



Getting Started Has Never Been So Easy

Microsoft

The screenshot displays the Microsoft Popfly web application interface. At the top, the Microsoft Popfly logo is on the left, and navigation buttons for 'Create', 'My Stuff', 'Gallery', 'Help', and 'Sign Out' are on the right. Below the navigation bar, a user profile for 'Johannes-K...' is visible. A central toolbar contains icons for 'save', 'save as', 'share', and 'help'. Below this, a 'Blocks' panel on the left lists various categories: New & Updated, Display, Fun & Games, Images & Video, Local Information, Maps, News & RSS, Shops, Social Networks, and Tools. The main workspace shows a workflow diagram with three red 3D blocks connected by blue arrows: 'Timer' -> 'RSS' -> 'Virtual Earth'. Each block has a small control panel with a lightbulb icon and a magnifying glass icon. The 'Timer' block has a clock icon, the 'RSS' block has a document icon, and the 'Virtual Earth' block has a globe icon. The workflow is titled 'Hannes News Map'.

<http://www.popfly.com>

VEXCEL
I M A G I N G GmbH

a Microsoft company

Microsoft Popfly

Hannes News Map



0



By Johannes-Kebeck

[See More From Johannes-Kebeck](#)

Modified: 02 October 2008 01:30:00
Views: 141



Tweak This



Edit This



Delete This

Description

News from Reuters, RSS2GeoRSS from Geonames and Maps from Virtual Earth

Tags

virtual earth, news

Update Preview Image

Square images (ideally 180x180px) work best. ([show current](#))

[Browse...](#)

[Save Changes](#)

Share



Bing Maps Interactive SDK

I want to:

- ☐ Show a map
 - Show the default map
 - Show a specific map
 - Use a callback
 - Show this map in 3D
 - Show traffic
- ☒ Control the map
 - Show/hide controls
 - Use default shapes
 - Customize shapes
 - Use shape layers
 - Import data into shape layers
 - Use custom tile layers
 - Find information (basic)
 - Find information (advanced)
 - Get a multi-point route and directions
 - Use birdseye images
 - Work with 3D maps
 - Use events and callbacks
 - Get map info

NEW

What's new in the latest release?

[Show Me](#)
[Source Code](#)
[Reference](#)
[Learn More](#)

[2D](#)
[3D](#)
[Road](#)
[Aerial](#)
[Bird's eye](#)
[Labels](#)
[<<](#)

bing

25 yds

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Bing Maps Interactive SDK

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- ☒ Work with 3D maps
- ☒ Use events and callbacks
- ☒ Get map info

NEW

What's new in the latest release?

Show Me Source Code Reference Learn More

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-tran
<html>
  <head>
    <title></title>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
    <script type="text/javascript" src="http://ecn.dev.virtualearth.net/mapcontrol/mapcontrol.ashx?v=6.2"
    <script type="text/javascript">
      var map = null;

      function GetMap()
      {
        map = new VEMap('myMap');
        map.LoadMap(new VELatLong(47.6, -122.33), 10, 'h', false);
      }
    </script>
  </head>
  <body onload="GetMap();">
    <div id='myMap' style="position:relative; width:400px; height:400px;"></div>
  </body>
</html>
```

Copy

Intellisense for JavaScript

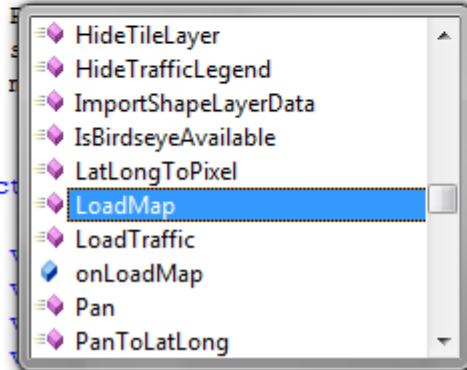
```
/// <reference path="VeJavaScriptIntellisenseHelper.js" />
```

```
window.onload = GetMap;  
window.onresize = Resize;
```

```
var map = null;  
var slSearch = new VEShapeLayer();
```

```
function GetMap()  
{
```

```
    map = new VEMap('divMap');  
    map.l
```



Loads the specified map. All parameters are optional.

```
    .elementById("divMap");  
    .elementById("Accordion1");
```

<http://www.codeplex.com/VEJS/>

Bing Maps Silverlight



What Type Of Data Can We Add?

- **Vector data**
 - Javascript
 - GeoRSS
 - KML/KMZ
 - GPX
- **Raster Data**
- **3D-Models**

Supported Formats for Data Import

Microsoft

- Caligari Object, *.cob
- DirectX, *.x
- StereoLithography, *.stl
- 3D Studio Binary, *.3ds
- 3D Studio Project, *.prj
- 3D Studio ASCII, *.asc
- Autocad, *.dxf
- Lightwave 5.6, *.lwb, *.lwo
- VideoScape, *.geo
- Wavefront, *.obj
- Imagine, *.iob
- Caligari Amiga, *.sob
- Adobe Illustrator, *.ai
- PostScript, *.ps
- Encapsulated PS, *.eps
- trueSpace Selection, *.sel
- To import 3D KML/KMZ and Collada see [Hannes Virtual Earth Blog](#)
- To import CityGML use 3rd party tools such as [Safe FME](#) to generate a Format that trueSpace understands (e.g. Wavefront)



Web Cams

Microsoft
Virtual Earth

Virtual Earth

Inspire Me

Search

Points of Interest

- ☒ Hotels
- ☐ PhotoSynth from LSM
- ☐ PhotoSynth (Recommended)
- ☐ Wikipedia from LSM
- ☒ WebCam
- ☐ HDView
- ☐ Our Recommendations

More Information

Itinerary

Contact Us

News



La Seu

balearn.com 2008-12-11 16:54:37



[Add to Itinerary](#)

2.5 miles

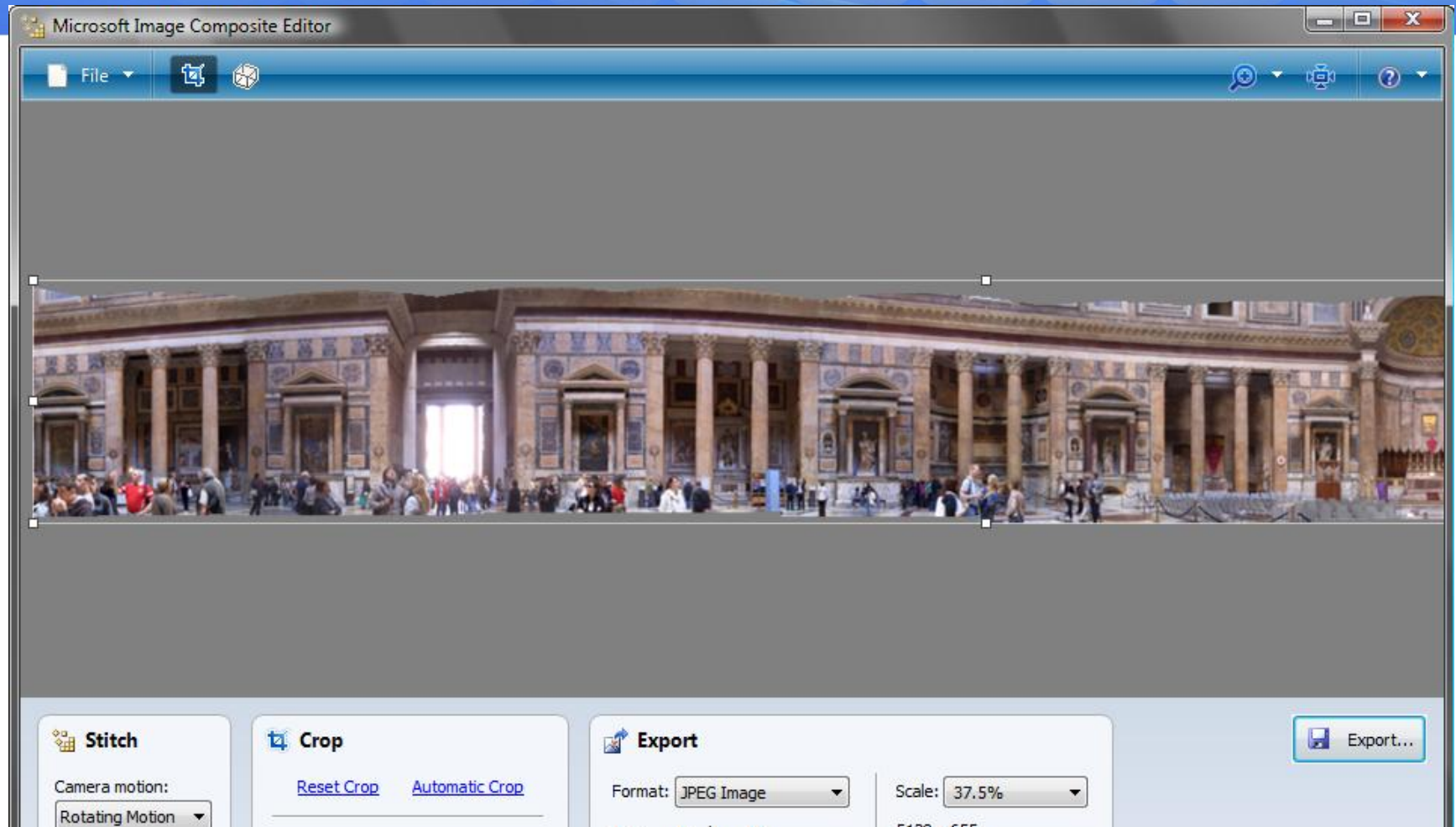
© 2008 Microsoft Corporation © 2008 NAVTEQ © AND

EL

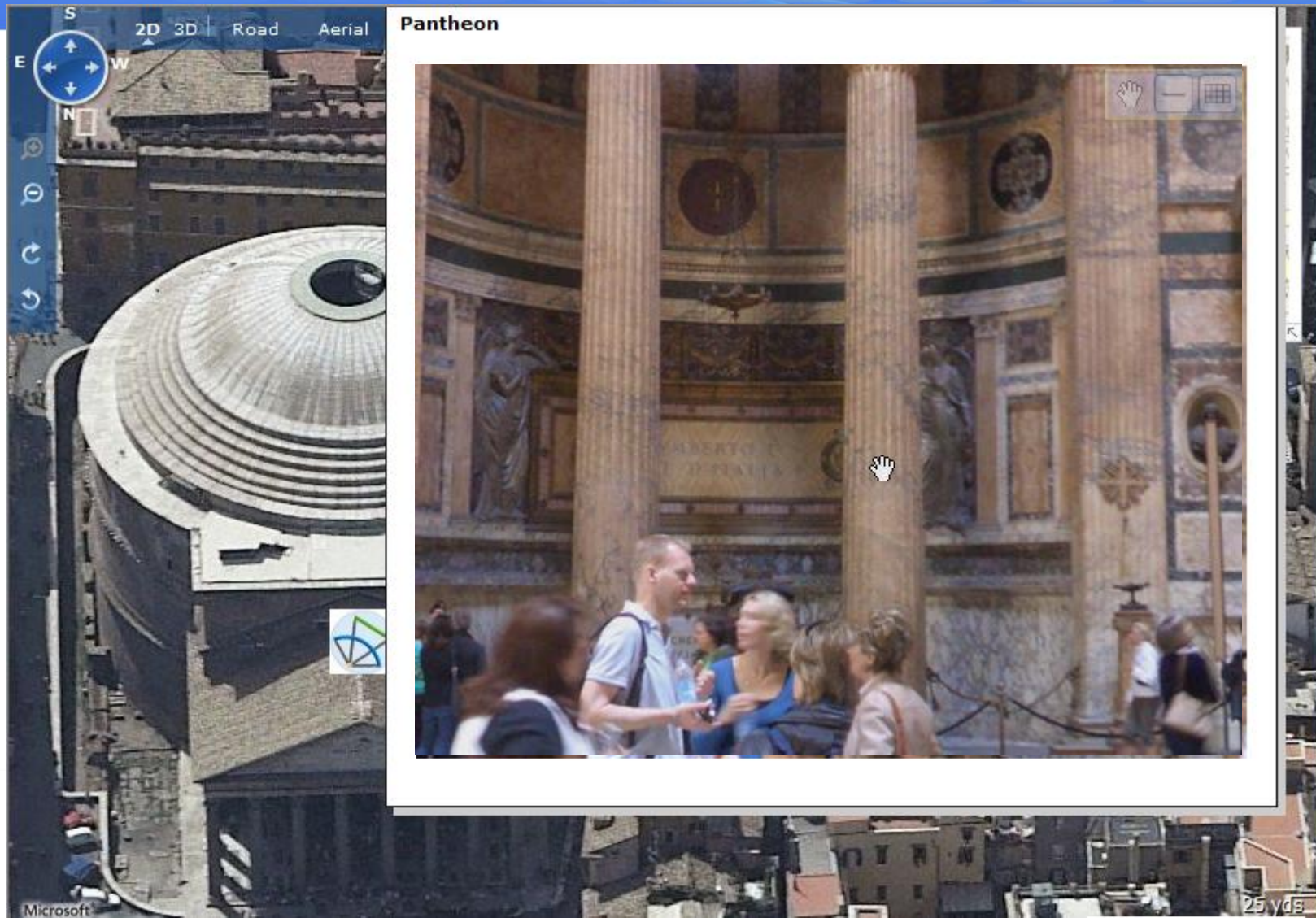
G GmbH

Microsoft company

MSR ICE & HD View



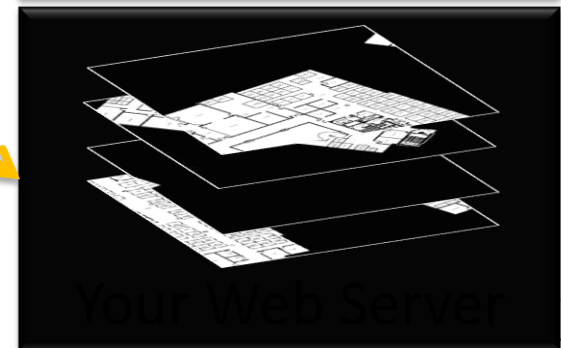
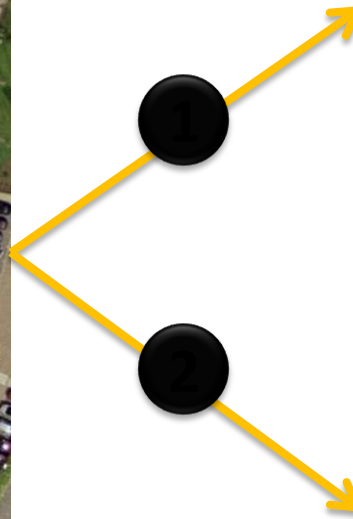
MSR ICE & HD View



Working with Layers

VETileLayer (Raster Data)

Microsoft

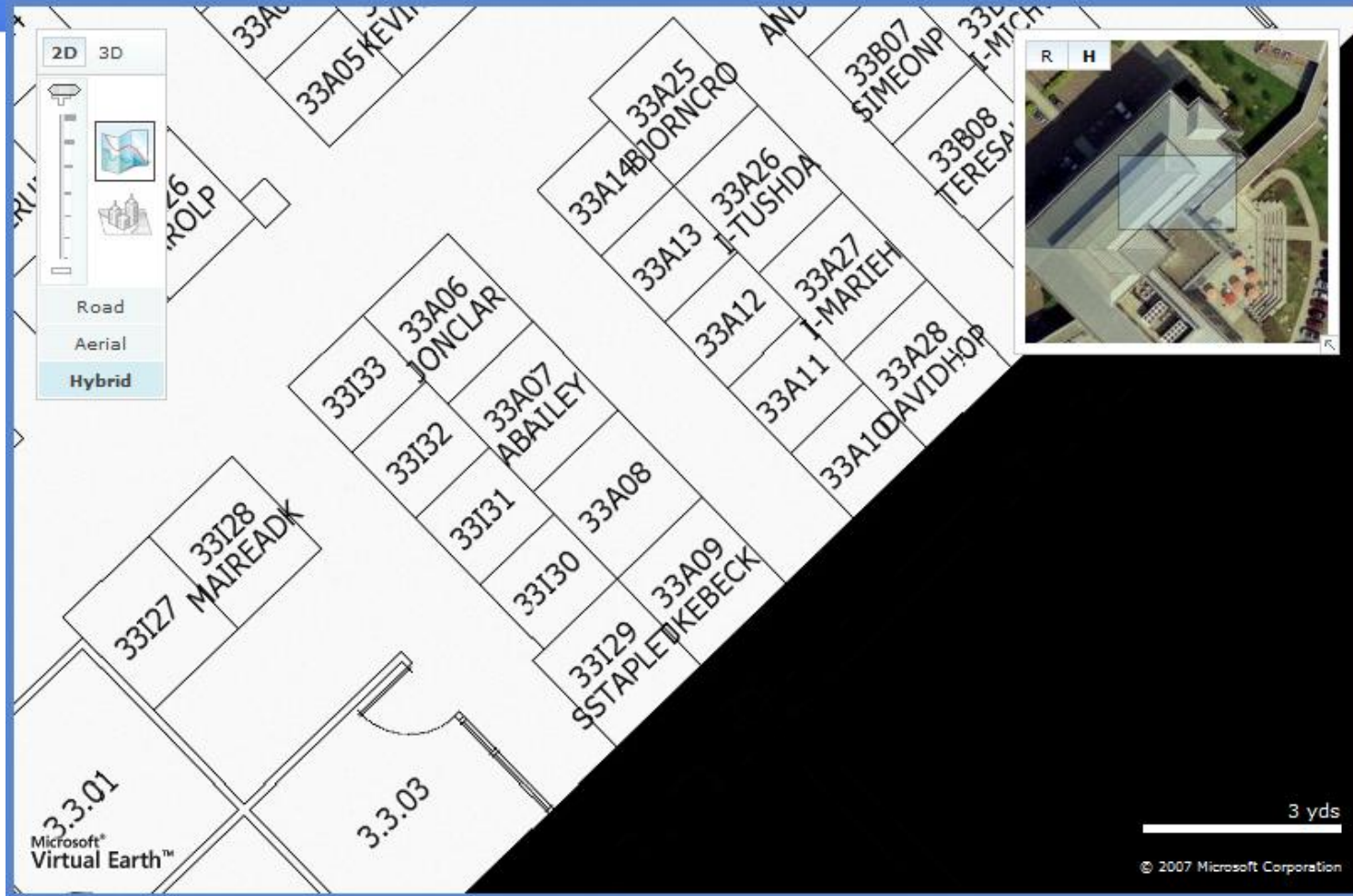


IMAGING GmbH

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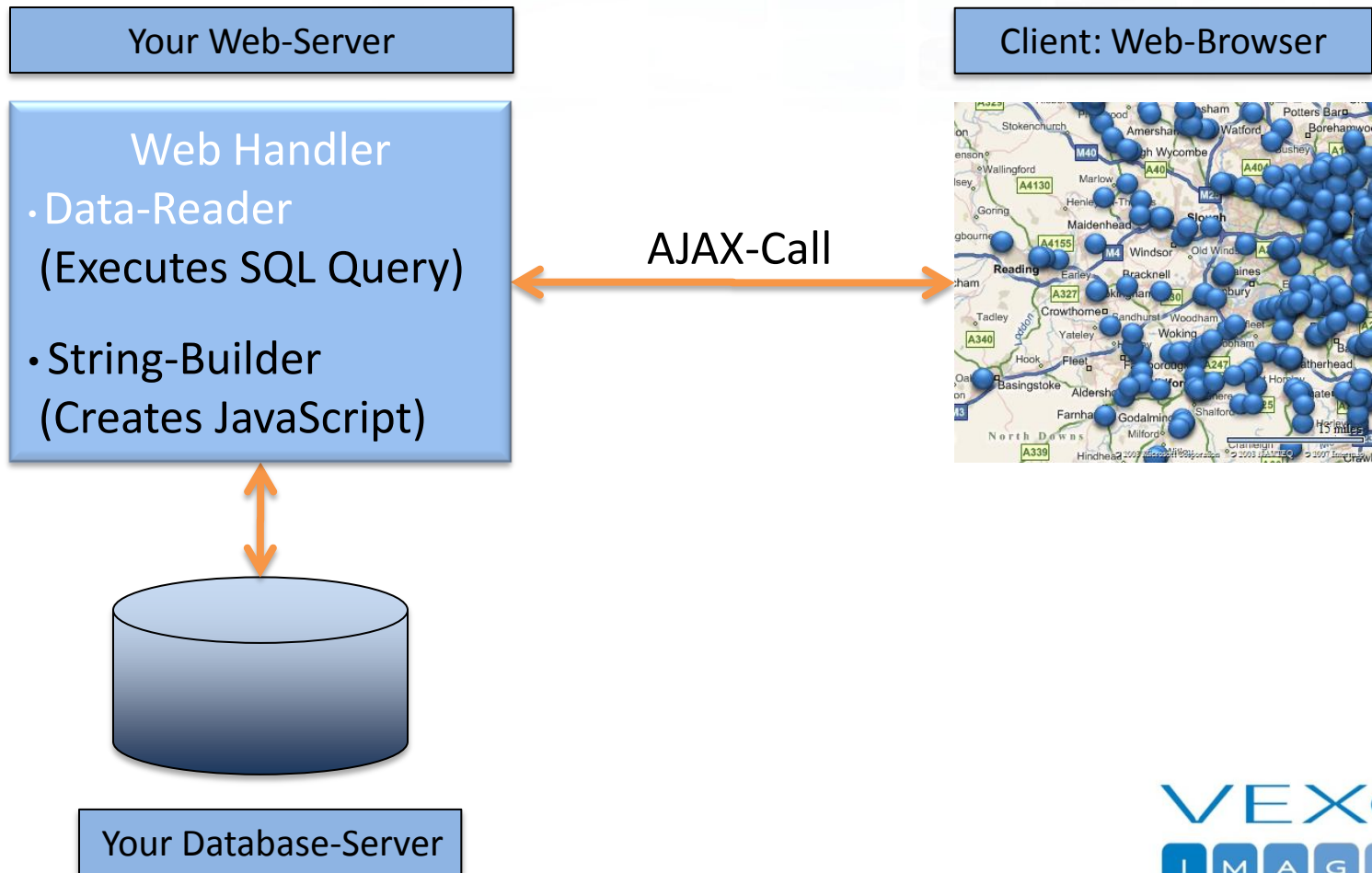
Exceed the Standard Zoom-Levels

Microsoft



Database Access with the AJAX Control

Microsoft



VEXCEL
I M A G I N G GmbH

a Microsoft company

Bing Maps & SQL Server 2008 *Microsoft*

- Analysis

Search

Floding Zones

Option 1: MapCruncher
☐ NR 75 (6-15)
☐ NR 100 (6-15)
☐ NR 250 (6-15)

☐ PH 75 (6-13)
☐ PH 100 (6-13)
☐ PH 250 (6-13)
Option 2: SharpMap
☐ NR 75 (6-19)
☒ NR 100 (6-19)
☒ NR 250 (6-19)


☐ PH 75 (6-19)
☐ PH 100 (6-19)
☐ PH 250 (6-19)
Check Address

Check

☒ Check by Click
Flood Risk 75: FALSE
Flood Risk 100: FALSE
Flood Risk 250: TRUE

Policies
Analysis

2D 3D Road Aerial Hybrid Bird's eye



Search

Floding Zones

Policies

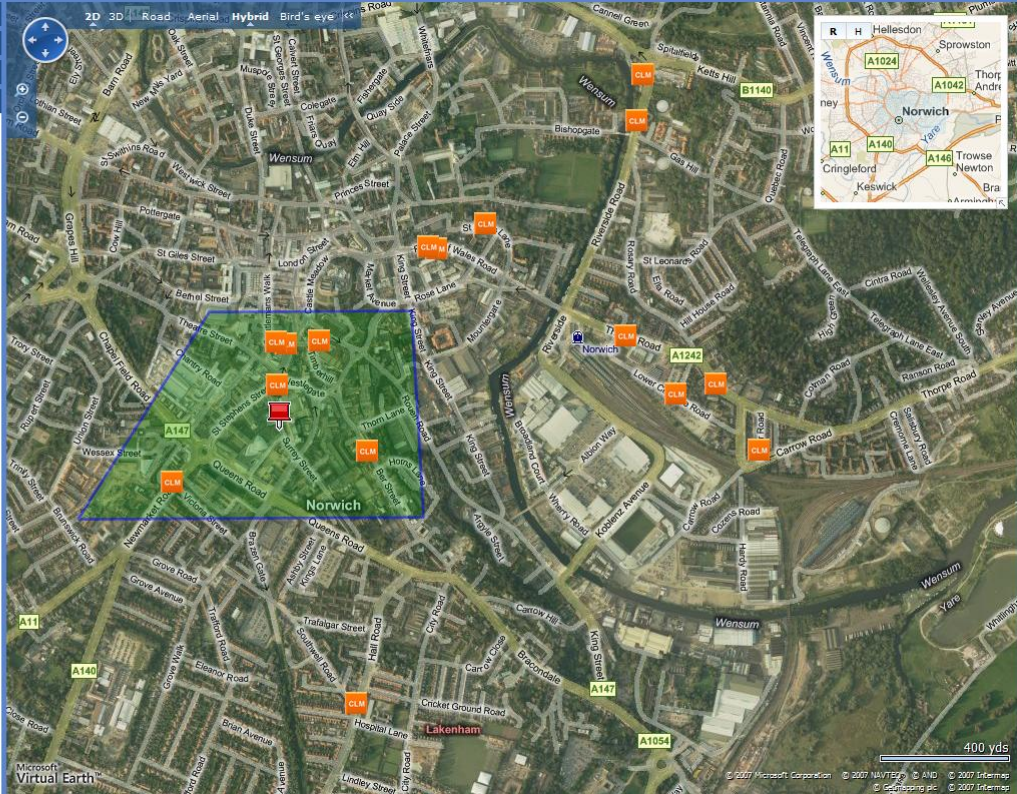
Analysis

Draw a region to analyze
Please make sure, you draw the polygon counter-clockwise

Polygon Circle

Lat: 52.62246085767366
Lon: 1.3000345230102428
Nr. Reinsurance: 66
Accidental loss: 808.28
Burst pipes - other causes: 2792.84
EL injury other: 7000
Malicious damage: 188.1
Not yet known: 0
Other cause not otherwise spec: 641.17
Products TP injury only: 0
Sprinkler leakage damage - frz: 565.46
Storm damage: 1281.06
Theft - FVE: 1843.86

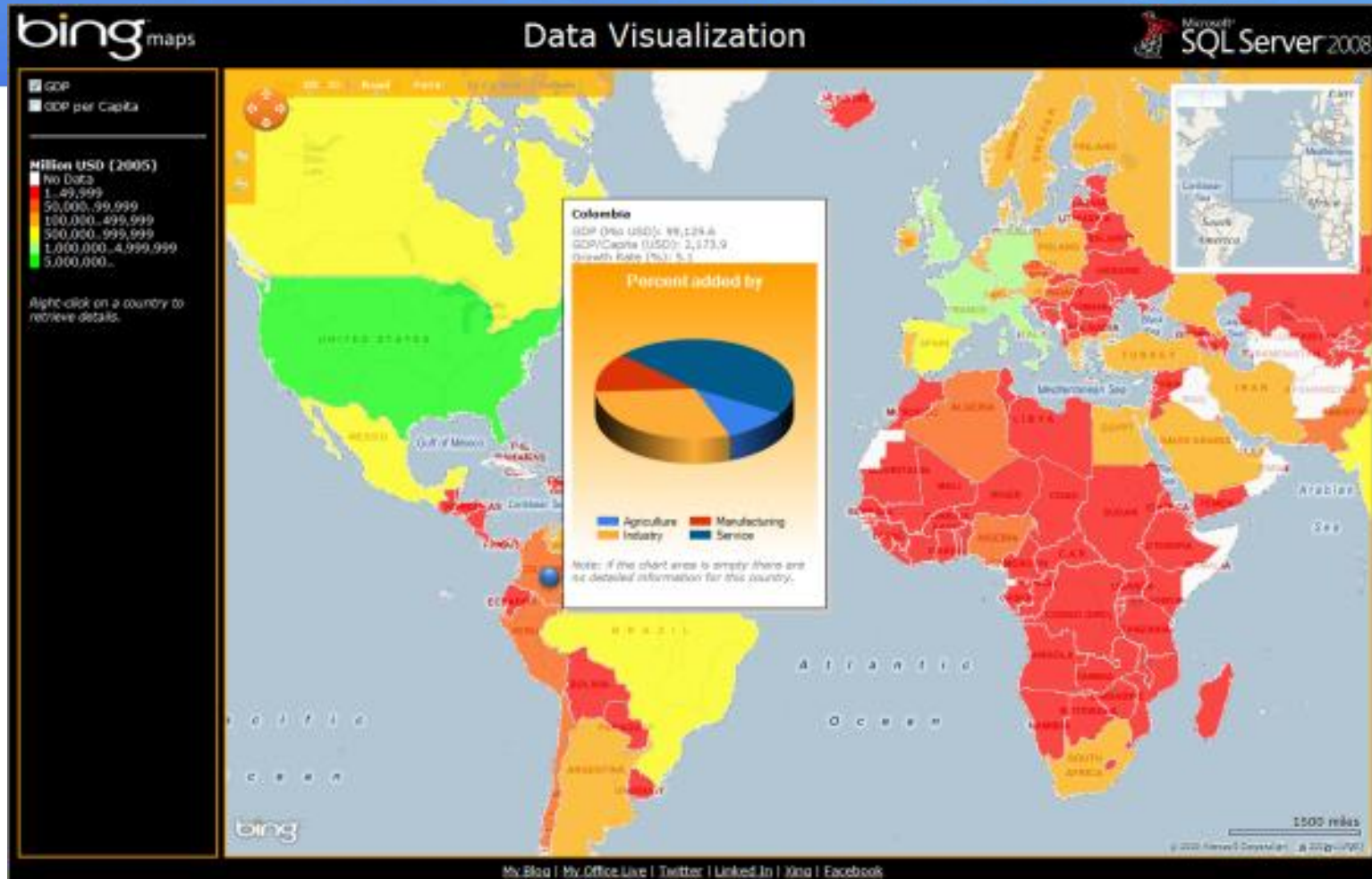
2D 3D Road Aerial Hybrid Bird's eye



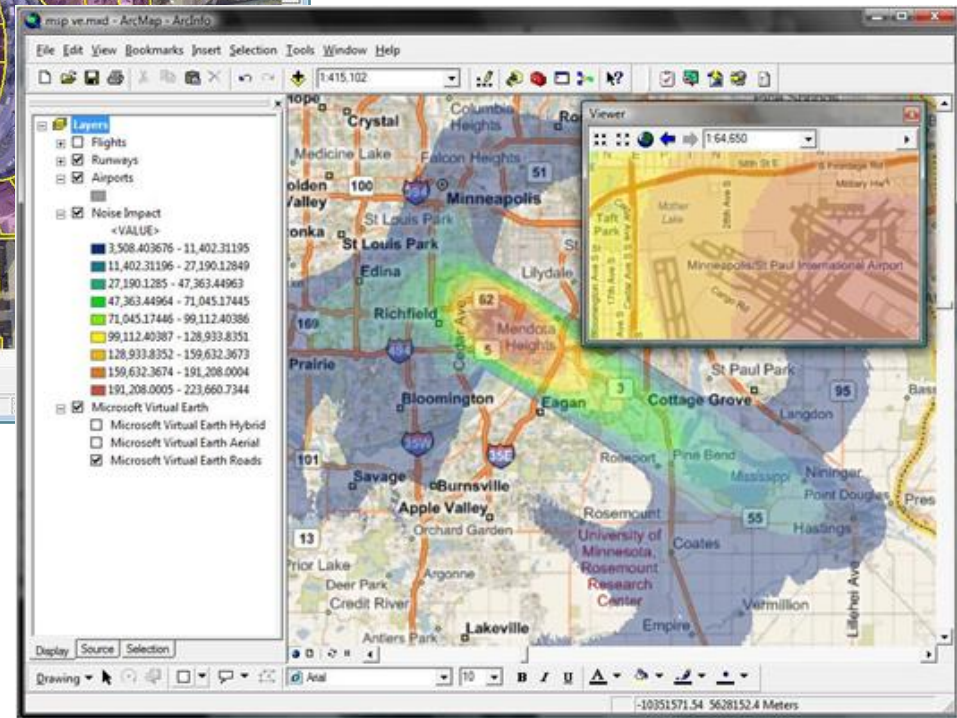
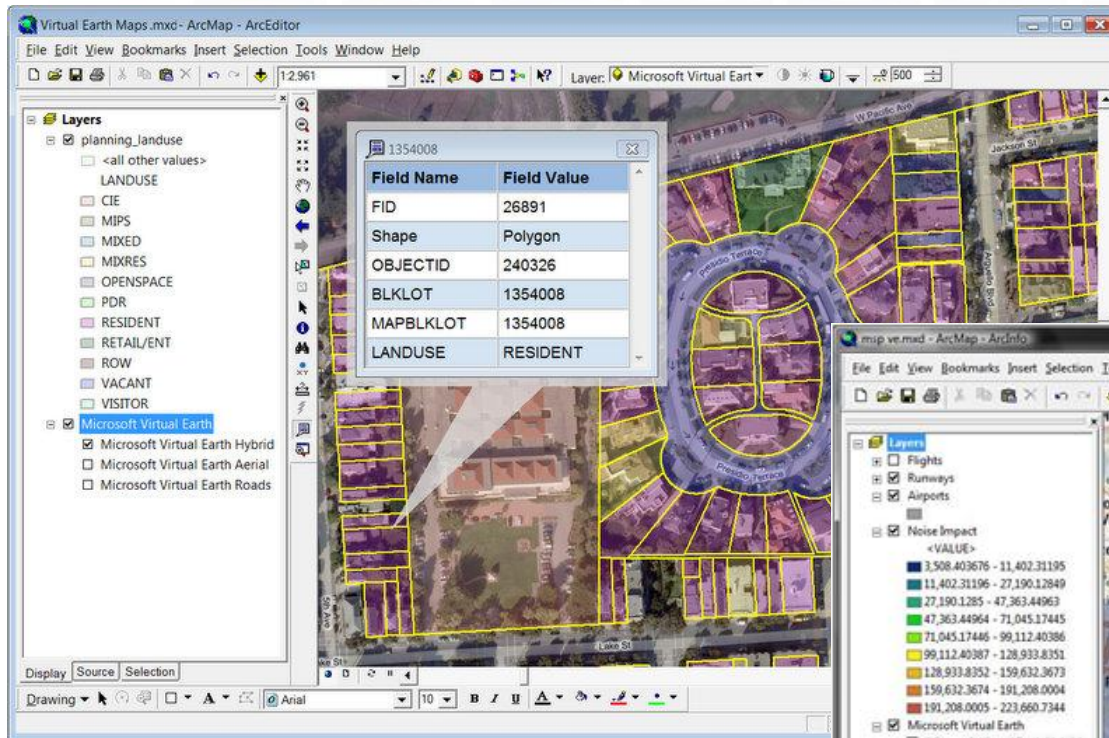
Microsoft Virtual Earth

© 2007 Microsoft Corporation © 2007 NAVTEQ © AND © 2007 Earthstar © 2007 Intermap © 2007 Intermap

Adding Charts

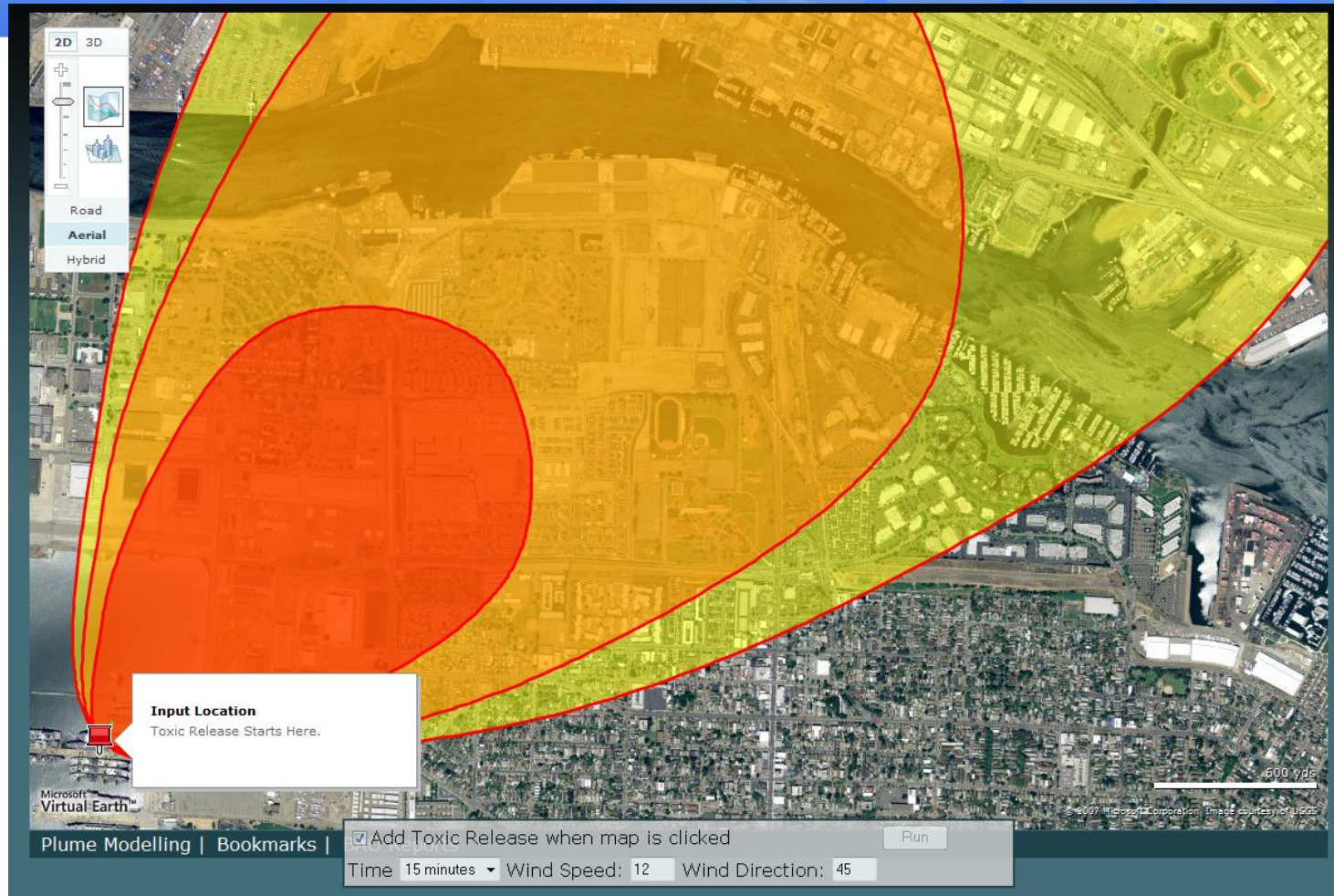


ArcGIS 9.3 - Desktop



ArcGIS Geoprocessing in Bing Maps

Microsoft



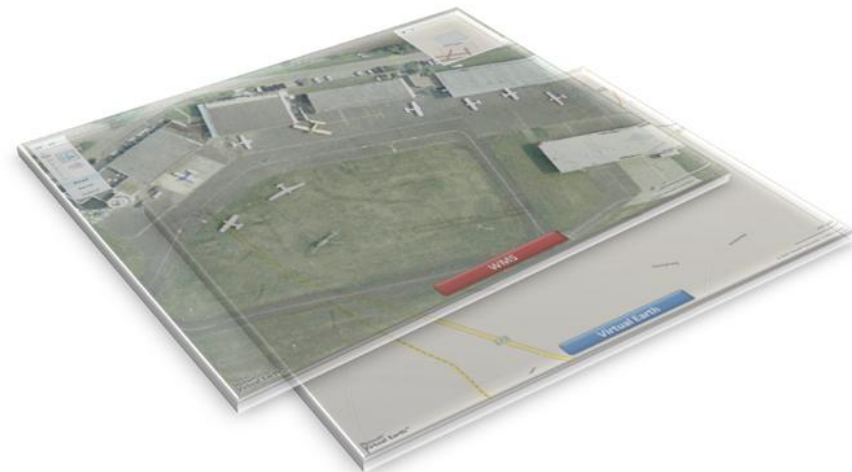
Dynamic Tile Layer (WMS)



Integrating OGC-Compliant Web Mapping Services into Virtual Earth

Last Updated: 02/05/2007

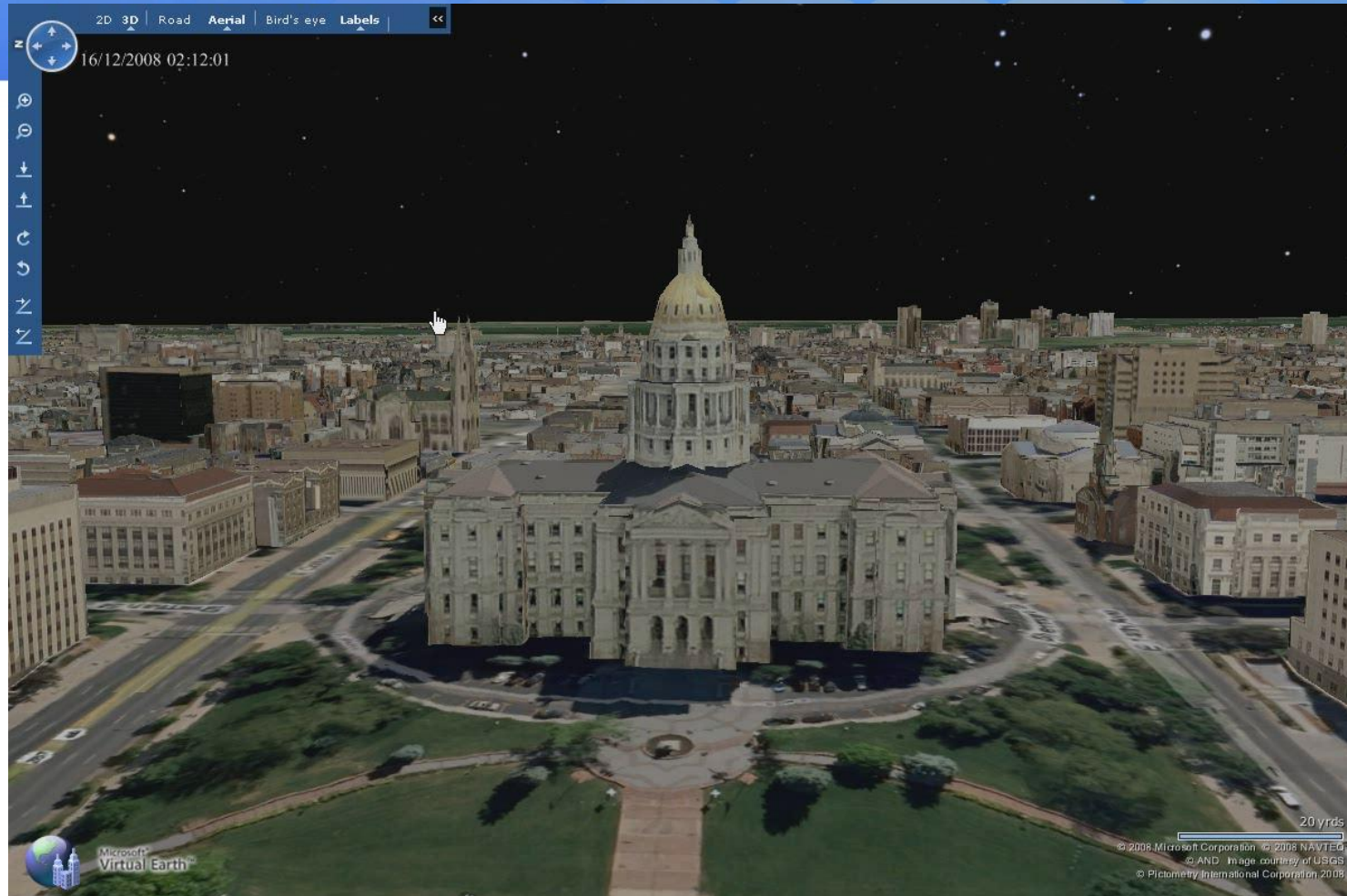
Author: Johannes Kebeck



Caligari trueSpace 7.6



Time Controls



Orientation Controls



Microsoft
Virtual Earth™

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The goal of BING maps is being the best platform and providing the best information and imagery to serve all the geographical aspects of any business

New Release: October 2009

WWW.BING.COM

