



RealityVision

A REAL-TIME CONNECTION BETWEEN THE FIELD AND OFFICE

Instantly There.



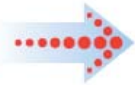
Communications Centers Today

- Radio, Maps, and Photos
- Not Much Live Video or Geospatial Data

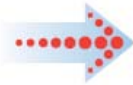


RealityVision – An Entirely New Way to Share Information

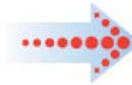
INPUT
SOURCES



HOW
TRANSPORTED?



REALITYVISION
SOFTWARE



INSTANTLY
THERE



IP Camera
Feeds



Phone Camera
Feeds



Image
Files



GPS



Sensors



Other
Data



Commercial
Carriers



WiFi



LAN



Private IP
Wireless
WANs



Satellite
Networks

Mobile Phone
Client



Remote
Desktop
Client



Server

Console



See Events As They Happen



Arrival of the Thanksgiving Turkeys for the Presidential Pardon



Quality Imagery From the Video

All video is timestamped and stored with GPS data (when available) on a *frame by frame* basis.

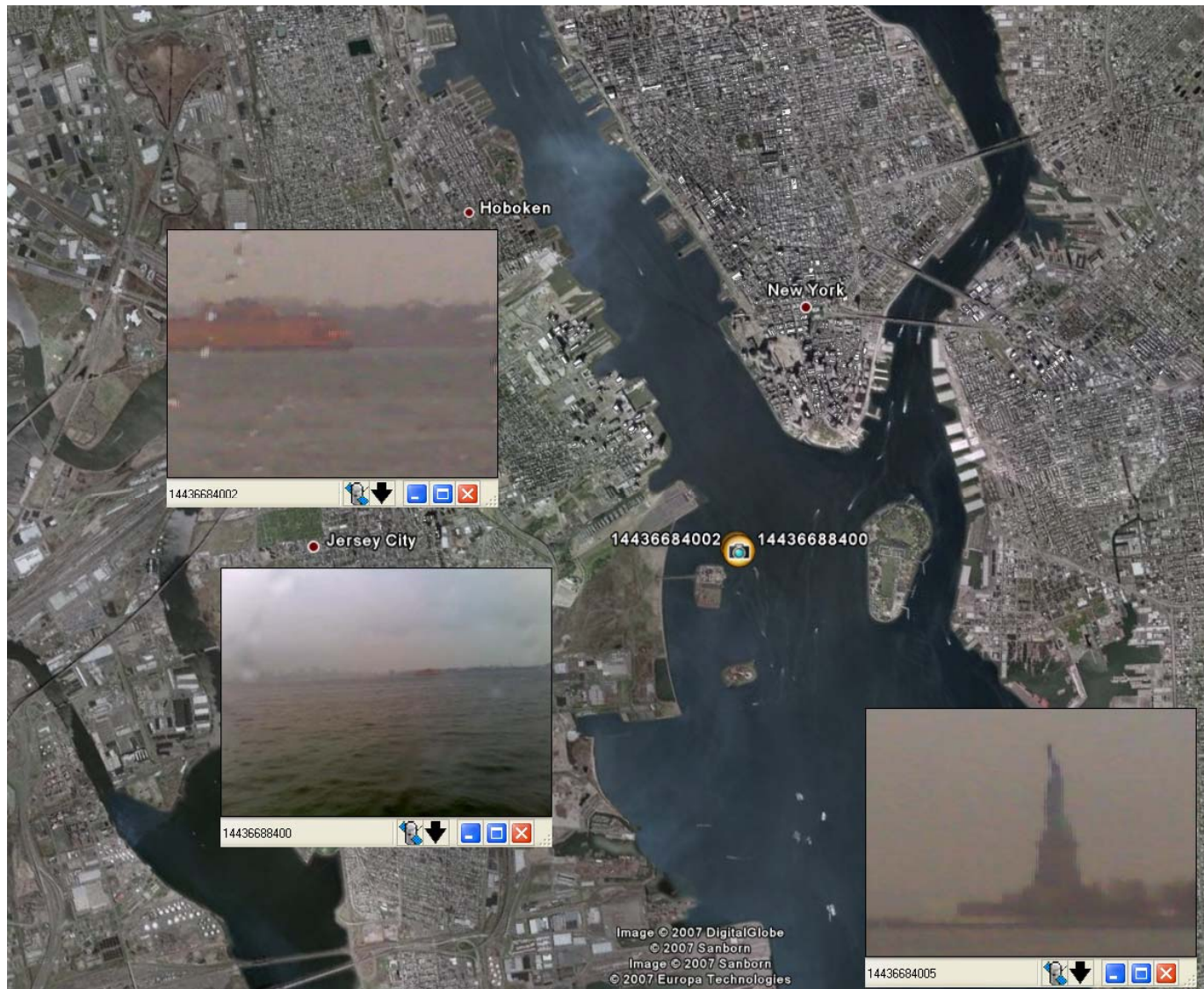
In effect, this means that video becomes easily accessible raw data that can be run through other processes such as facial recognition.



Gain the Perspective of Your Field Personnel



Multiple Perspectives Through Live Video Streams at Land or at Sea



Flexible – Anywhere There is a Data Network, See What Happens at Any Speed

The screenshot displays the Google Earth interface. The main window shows a 3D model of a train track curving through a landscape. In the top-left corner, a small video window shows a live stream of the interior of a train, with passengers seated and standing. The video window has a title bar with the ID '14436688003' and standard window controls. The Google Earth interface includes a search bar, navigation tools, and a compass. The bottom status bar shows the coordinates 'Pointer 40°44'30.49" N 74°08'18.48" W elev 7 ft', the text 'Image © 2007 Sanborn © 2007 Sanborn', '© 2007 Europa Technologies', 'Streaming || 20%', and 'Eye alt 945 ft'. The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time '2:34 PM Thursday 12/13/2007'.





RealityVision in Washington, DC

Capitol Hill Area

Jan 10, 2008

A REAL-TIME CONNECTION BETWEEN THE FIELD AND OFFICE

Instantly There.



Sending Out Textual Data

RealityVision Management Console

File View Tools Actions Help

Mobile Devices Fixed Cameras

Filter: Auto-Tracking Enabled Active Devices Only

Group	Description
All	14436680013
Boston	14436681300
DC Metro	14436684002
NY	14436684005
	14436688003
	15714312279
	15714312282
	17034317766
	17036290058
	3fb\5000-7351-0801-3543-840103915550
	443-668-0017
	443-668-8400
	Agt. Brown
	Agt. Hunt
	Agt. Kite
	BACKPACK-2\demo
	JBW Tilt
	NCMECAD\dadmin
	REALITYMOBILE\Desktop\Backpack
	REALITYMOBILE\Desktop\Scanner
	REALITYMOBILE\Desktop\SOsborne
	REALITYMOBILE\drensin
	REALITYMOBILE\jwildman
	REALITYMOBILE\Mobile\SOsborne\703-474-52...
	REALITYMOBILE\scotts
	RVDEMO2\User
	Test Tilt



Tracking Agent Kite into DC

Google Earth

Edit View Tools Add Help

Independence Avenue Southwest
Huntington Drive
Washington Boulevard
4th Street Southwest
5th Street Southwest
6th Street Southwest
7th Street Southwest
8th Street Southwest
9th Street Southwest
10th Street Southwest
11th Street Southwest
12th Street Southwest
13th Street Southwest
14th Street Southwest
15th Street Southwest
16th Street Southwest
17th Street Southwest
18th Street Southwest
19th Street Southwest
20th Street Southwest
21st Street Southwest
22nd Street Southwest
23rd Street Southwest
24th Street Southwest
25th Street Southwest
26th Street Southwest
27th Street Southwest
28th Street Southwest
29th Street Southwest
30th Street Southwest
31st Street Southwest
32nd Street Southwest
33rd Street Southwest
34th Street Southwest
35th Street Southwest
36th Street Southwest
37th Street Southwest
38th Street Southwest
39th Street Southwest
40th Street Southwest
41st Street Southwest
42nd Street Southwest
43rd Street Southwest
44th Street Southwest
45th Street Southwest
46th Street Southwest
47th Street Southwest
48th Street Southwest
49th Street Southwest
50th Street Southwest
51st Street Southwest
52nd Street Southwest
53rd Street Southwest
54th Street Southwest
55th Street Southwest
56th Street Southwest
57th Street Southwest
58th Street Southwest
59th Street Southwest
60th Street Southwest
61st Street Southwest
62nd Street Southwest
63rd Street Southwest
64th Street Southwest
65th Street Southwest
66th Street Southwest
67th Street Southwest
68th Street Southwest
69th Street Southwest
70th Street Southwest
71st Street Southwest
72nd Street Southwest
73rd Street Southwest
74th Street Southwest
75th Street Southwest
76th Street Southwest
77th Street Southwest
78th Street Southwest
79th Street Southwest
80th Street Southwest
81st Street Southwest
82nd Street Southwest
83rd Street Southwest
84th Street Southwest
85th Street Southwest
86th Street Southwest
87th Street Southwest
88th Street Southwest
89th Street Southwest
90th Street Southwest
91st Street Southwest
92nd Street Southwest
93rd Street Southwest
94th Street Southwest
95th Street Southwest
96th Street Southwest
97th Street Southwest
98th Street Southwest
99th Street Southwest
100th Street Southwest

George Washington Memorial Parkway

© 2007 Tele Atlas
© 2007 Europa Technologies
Image © 2007 Sanborn
© 2007 Sanborn

© 2007 Google™

Agt. Kite

Agt. Kite

realityvision management console

File View Tools Actions Help

Send Message Send File View Live Video View Video History

Add to Tracking List Remove from Tracking List Clear Tracking List Zoom to Tracking List Center On

Mobile Devices Fixed Cameras

Filter:

Group	Description
All	Agt. Brown
Boston	Agt. Hunt
DC Metro	Agt. Kite
NY	

Auto-Tracking Enabled Active Devices Only

Device	Status	Since Checkin
[Icon]	[Icon]	21:36:53
[Icon]	[Icon]	00:06:19
[Icon]	[Icon]	00:00:11

Last Updated: 8:54:04 AM



Tracking Agent Brown into DC

The image displays a composite interface for tracking a mobile device. The top portion is a Google Earth window showing an aerial view of Arlington, Virginia, with a green pin labeled 'Agt. Brown' and a small camera icon. A video inset in the top right shows a first-person perspective of a street scene. The bottom portion is the RealityVision Management Console, which includes a table of tracked devices and their status.

Group	Description	Auto-Tracking Enabled	Active Devices Only	Since Checkin
All	Agt. Kite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	00:00:28
Boston	Agt. Brown	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	00:00:09

© 2007 Sanborn
© 2007 Europa Technologies
Image © 2007 Sanborn

© 2007 Google

RealityVision Management Console

Mobile Devices Fixed Cameras

Filter:

Last Updated: 9:11:47 AM



Switching Between Agent Brown and Agent Kite

The screenshot shows a Google Earth interface with two camera feeds overlaid on a 3D city model. The 'Agt. Kite' feed shows a street-level view of a parking lot. The 'Agt. Brown' feed shows a street-level view of a car. The Google Earth interface includes a menu bar (File, Edit, View, Tools, Add, Help), a toolbar with navigation controls, and a copyright notice for Sanborn and Europa Technologies.

© 2007 Sanborn
© 2007 Europa Technologies
Image © 2007 Sanborn

© 2007 Google

RealityVision Management Console

Mobile Devices Fixed Cameras

Filter: []

Group	Description
All	Agt. Kite
Boston	Agt. Brown
DC Metro	
NY	

Auto-Tracking Enabled Active Devices Only

Since Checkin
00:00:13
00:00:07

Last Updated: 9:18:24 AM



Perspective of Video

The image shows a screenshot of a computer application interface. The top portion is a Google Earth window displaying a 3D perspective view of a city. A camera icon labeled 'Agt. Brown' is positioned in the center of the city. A smaller inset window shows a different view of the same location, labeled 'Agt. Brown' and 'Washington D.C. ☆'. The bottom portion of the screenshot is a 'RealityVision Management Console' window. It has a 'Mobile Devices' tab and a 'Fixed Cameras' sub-tab. A 'Filter:' field is present. Below it is a table with columns for 'Group', 'Description', and 'Since Checkin'. The table contains three rows of data. To the right of the table are two checkboxes: 'Auto-Tracking Enabled' and 'Active Devices Only'. Below these are three rows of icons and a 'Since Checkin' column with timestamps.

Group	Description	Since Checkin
All	Agt. Kite	00:00:16
Boston	Agt. Hunt	00:00:13
DC Metro	Agt. Brown	00:00:16

© 2007 Sanborn
© 2007 Europa Technologies
Image © 2007 Sanborn

© 2007 Google

RealityVision Management Console

Mobile Devices Fixed Cameras

Filter:

Auto-Tracking Enabled Active Devices Only

Since Checkin

00:00:16

00:00:13

00:00:16

Last Updated: 9:27:36 AM



Managing Agents in the Field

The screenshot displays a Google Earth interface with a 3D city model. Two agents are visible: 'Agt. Kite' and 'Agt. Brown', each represented by a camera icon. An inset window in the top right shows a first-person view from Agt. Kite's perspective, showing a street scene with a yellow car. Below the map is the RealityVision Management Console interface, which includes a filter field, a table of agent data, and a status bar.

© 2007 Sanborn
© 2007 Europa Technologies
Image © 2007 Sanborn

© 2007 Google™

RealityVision Management Console

Mobile Devices Fixed Cameras

Filter:

Group	Description	Auto-Tracking Enabled	Active Devices Only	Since Checkin
All	Agt. Kite	<input checked="" type="checkbox"/>	<input type="checkbox"/>	00:00:13
Boston	Agt. Hunt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	00:00:25
DC Metro	Agt. Brown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	00:00:08
NY		<input type="checkbox"/>	<input type="checkbox"/>	

Last Updated: 9:45:41 AM



Instantly Distributing Photos

The screenshot displays a Google Earth interface with a 3D city model. Three agents are marked on the map: Agt. Brown, Agt. Hunt, and Agt. Kite. Below the map is a 'RealityVision Management Console' window. The console has a 'Mobile Devices' tab and a 'Fixed Cameras' tab. A 'Filter' field is present. The main area contains a table with columns for 'Group' and 'Description'. The table lists three agents: Agt. Kite, Agt. Hunt, and Agt. Brown. The console also includes a 'Last Updated' timestamp of 9:51:16 AM and several status icons on the right side.

Group	Description
All	Agt. Kite
Boston	Agt. Hunt
DC Metro	Agt. Brown
NY	



Panic Alerts

The screenshot displays a Google Earth interface with a 3D city model. Two yellow location markers are placed on a large, domed building, labeled 'Agt. Brown' and 'Agt. Hunt'. Below the map, the 'RealityVision Management Console' window is open, showing a table of device data. The table has columns for 'Group', 'Description', and a status column with green and yellow icons. The data rows are: 'All' with 'Agt. Kite', 'Boston' with 'Agt. Hunt', and 'DC Metro' with 'Agt. Brown'. The console also includes a filter field, a 'Last Updated' timestamp of '10:03:32 AM', and checkboxes for 'Auto-Tracking Enabled' and 'Active Devices Only'.

Group	Description	Status
All	Agt. Kite	Green
Boston	Agt. Hunt	Green
DC Metro	Agt. Brown	Green
NY		Green



The Same Level of Understanding

The screenshot displays the Google Earth interface. The main view shows a 3D architectural model of a large building with a prominent dome and arched windows. Two yellow circular markers with exclamation points are placed on the map, labeled "Agt. Brown" and "Agt. Hunt". An inset window in the upper left corner shows a video of a person, identified as "Agt. Brown", standing in what appears to be a transit station. The Google Earth interface includes a menu bar (File, Edit, View, Tools, Add, Help), a navigation pad, and a copyright notice at the bottom: "© 2007 Sanborn © 2007 Europa Technologies Image © 2007 Sanborn".

© 2007 Sanborn
© 2007 Europa Technologies
Image © 2007 Sanborn

© 2007 Google™

Google Earth

File Edit View Tools Add Help

Mobile Devices Fixed Cameras

Filter: []

Auto-Tracking Enabled Active Devices Only

Group	Description
All	Agt. Kite
Boston	Agt. Hunt
DC Metro	Agt. Brown
NY	

Last Updated: 10:04:17 AM



Surveillance – Multiple Perspectives


The image displays a surveillance system interface. The top portion features a Google Earth window showing an aerial view of a city area in Washington D.C. Three specific locations are marked with green camera icons and labeled: 'Agt. Hunt', 'Agt. Brown', and 'Agt. Kite'. A red star icon marks 'Washington D.C.'. Two inset windows provide zoomed-in views of the 'Agt. Hunt' location, showing a large building and a parking lot. The bottom portion of the interface is the 'RealityVision Management Console', which includes a 'Mobile Devices' and 'Fixed Cameras' tab, a filter input, and a table listing devices by group and description.

Group	Description
All	Agt. Kite
Boston	Agt. Hunt
DC Metro	Agt. Brown
NY	

Additional interface elements include a 'Filter:' input field, a 'Last Updated: 10:21:33 AM' timestamp, and a control bar with 'Auto-Tracking Enabled' (checked) and 'Active Devices Only' (unchecked) options.



Documenting Unexpected Encounters



The screenshot displays the Google Earth interface. The main view shows a 3D model of a city with a large green helipad in the foreground. Two police officers are marked on the map: "Agt. Hunt" and "Agt. Brown". An inset window in the top-left corner shows a street view of the same location, with a police officer standing on a sidewalk. The inset window has a title bar that reads "Google Earth" and a menu bar with "File", "Edit", "View", "Tools", "Add", and "Help". The main window has a title bar that reads "Google Earth" and a menu bar with "File", "Edit", "View", "Tools", "Add", and "Help". The main window also has a toolbar with various navigation and viewing options. The bottom of the main window shows copyright information: "© 2007 Sanborn", "© 2007 Europa Technologies", and "Image © 2007 Sanborn".

© 2007 Sanborn
© 2007 Europa Technologies
Image © 2007 Sanborn

© 2007 Google™

RealityVision Management Console

Mobile Devices Fixed Cameras

Filter:

Auto-Tracking Enabled Active Devices Only

Group	Description
All	Agt. Kite
Boston	Agt. Hunt
DC Metro	Agt. Brown
NY	

Last Updated: 10:28:55 AM



Tracking at 60 Miles per Hour

