

HazNet has been developed specifically to reduce the risk and attendant costs of moving and managing Hazardous Materials. The key to the efficiency of this system was the integration of IRRIS.

IRRIS – developed in partnership with the U.S. Military – is a patented technology of which portions have recently been DOD declassified. It enables military users to obtain detailed, timely, and relevant information about road conditions, construction, incidents, and weather that might interfere with the movement of people and goods from forts to ports. IRRIS leverages the latest advances in information technology, geographic information systems (GIS), and location-based services (LBS) to provide decision makers with critical, timely, and relevant information necessary for efficient and rapid deployment of critical and high-security cargos between forts and strategic ports.

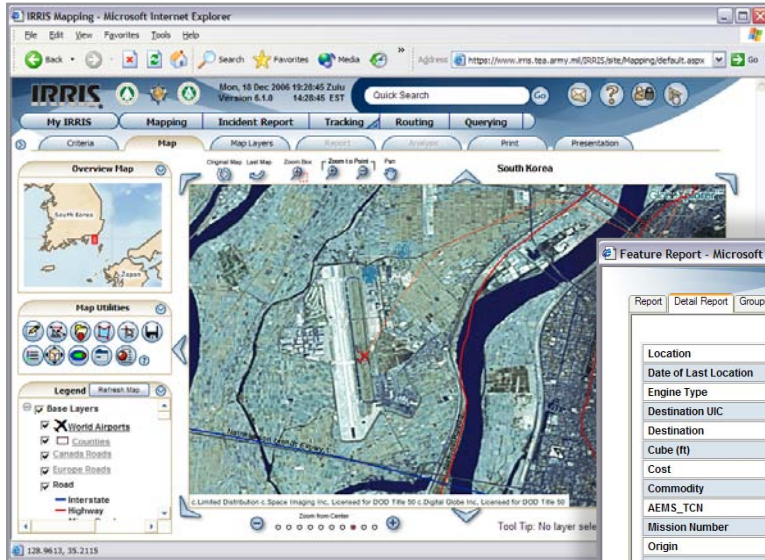
Additional features are being developed specifically for the HazNet Tracking and Notification System and will be announced.

Tracking

Track anything from relatively simplistic commercial GPS-enabled cell phones to complex military grade GPS signals.



- 1. Display full screen, dynamic maps that show the location and current status of domestic or global shipments



2. Build tracking reports from shipment data

Feature Report - Microsoft Internet Explorer

Report	Detail Report	Grouping	Analyze	Print
Location	RKPK			
Date of Last Location				
Engine Type	F402408B			
Destination UIC	09442			
Destination	HMM-262			
Cube (ft)	595.00			
Cost				
Commodity	999916/Z			
AEMS_TCN	R091125255G122			
Mission Number	TBCKU790F266			
Origin	MALS-12			
Origin UIC	09112			
Phase	Act			
Pieces in Unit	1			
Weight	6200.0			
Priority	19			
Project Code	707			
Date Received				
Receiver	N32434			
RFI	RFI			
RF Tag ID				
Shipment Mode	Air			
Shipper	N44399			
Ship Name				
STST	2160			

CarrierPerformance - Microsoft Internet Explorer

IRIS Mapping - Microsoft Internet Explorer

Phase III - Analysis

Timeframe (Optional): Past Year or 11/14/2005 to 11/14/2006

BOL (Optional):

Carrier (Optional): Select a Carrier

Disposition: Excused

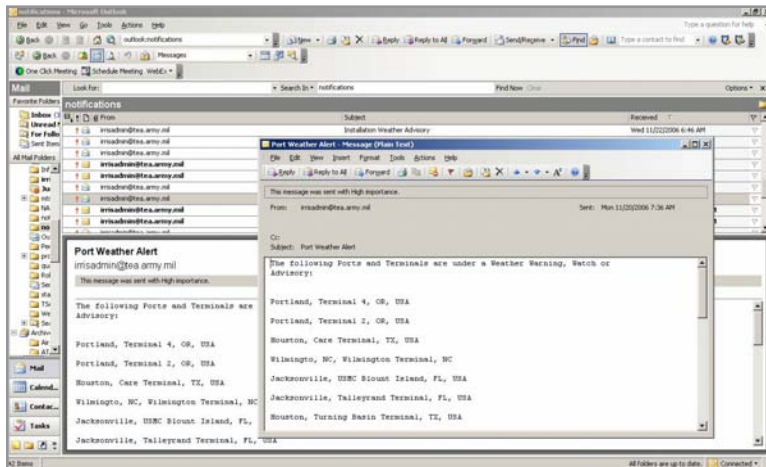
Reason: Mechanical Breakdown/Failure

Comments:

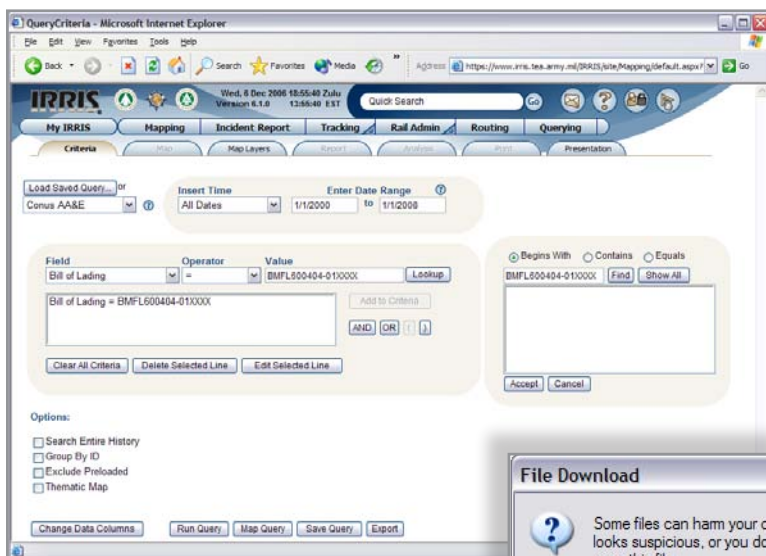
21 Records Found

Bill of Lading	Disposition	Reason	Comments	User ID	Date Modified	CAT	Carrier Name	Origin	Destination	S	O
CBL04967944-0100X	CP Actionable	Not Set	Driver failed to send correct code	Timothy Mitchell	2/8/2006 4:01:04 PM	II	BAGETT TRANSPORTATION CO.	DOA ANNISTON AD, AL	ST PAUL, MN	0	0
CBL188048RT-0100X	CP Actionable	Mechanical Breakdown/Failure	Back into guard rail, scratch the Cargo (Bradley)	Timothy Mitchell	2/16/2006 12:21:41 PM	II	LANDSTAR RANGER INC	DDO RED RIVER, TX	AFB CHARLESTON, SC	0	0
N001640012933-01X	DTTS Incompletely Reported	Not Set	Driver failed to send correct code	Brendan Weddock	1/5/2006 4:36:21 PM	II	PRESTERA TONG CO CHESAPEAKE OH	NSWC CRANE, IN		0	0
N001640013003-01X	DTTS Incompletely Reported	Not Set	Driver failed to send correct code	Timothy Mitchell	1/6/2006 9:51:03 AM	II	LANDSTAR RANGER INC	NSWC CRANE, IN		0	0

3. Mark questionable shipments for analysis of errors during shipping and generate report cards for a carrier



4. Assign a vehicle to a specified route, and receive notification if the vehicle deviates from that route

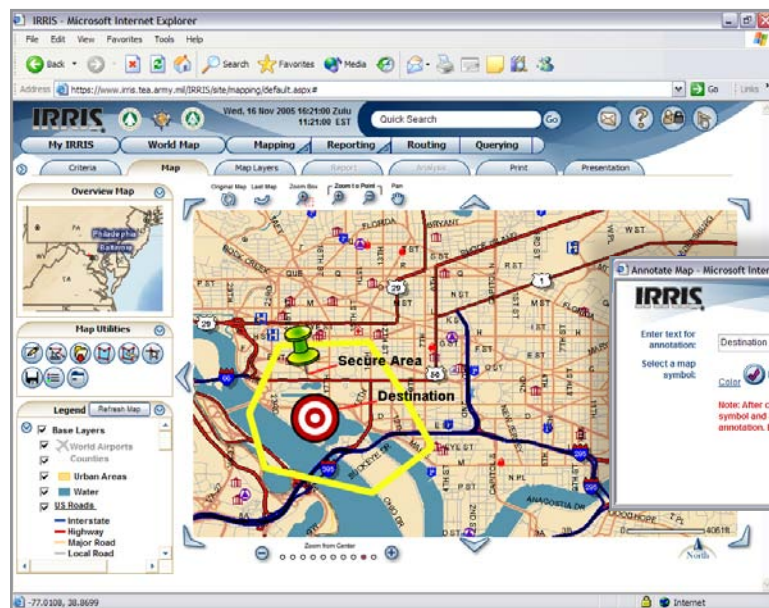


5. Obtain information about the status of shipments based on cargo details, such as bill of lading

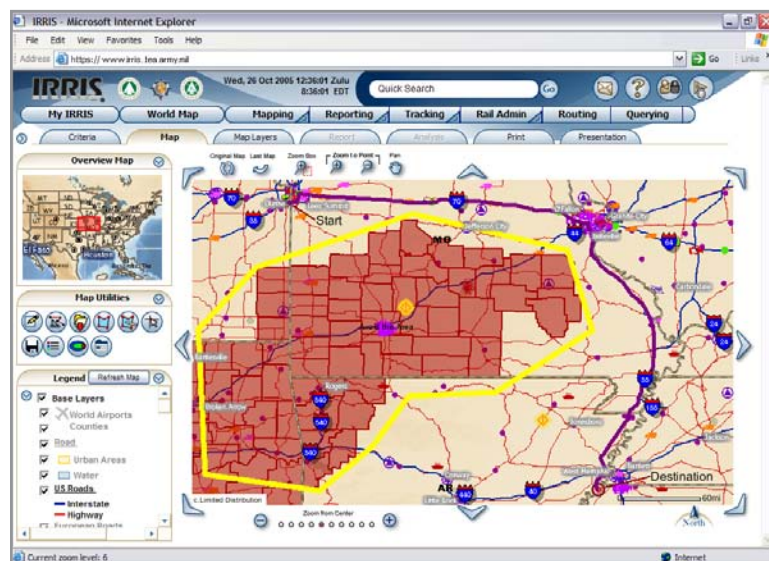
6. Export the query results to a Microsoft® Excel spreadsheet

Specialized Map Tools

Customize, save, and share map settings and layers to improve communication.

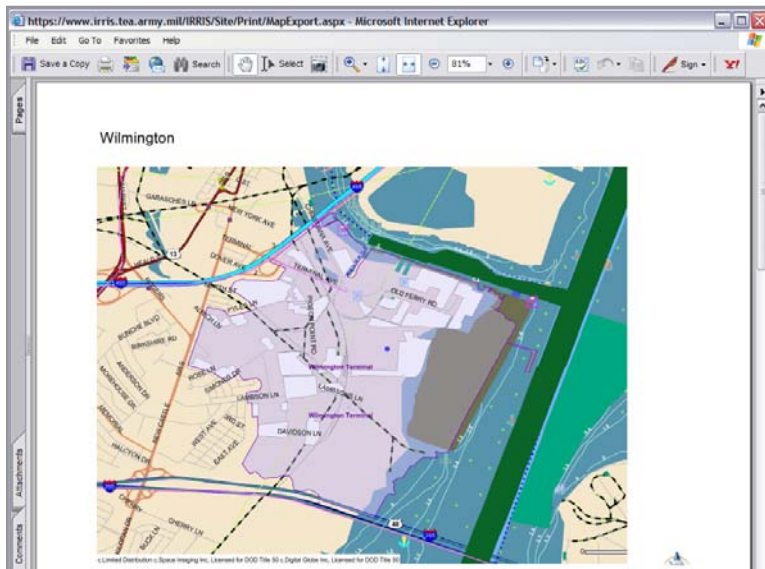


7. Add customized text to any map you build

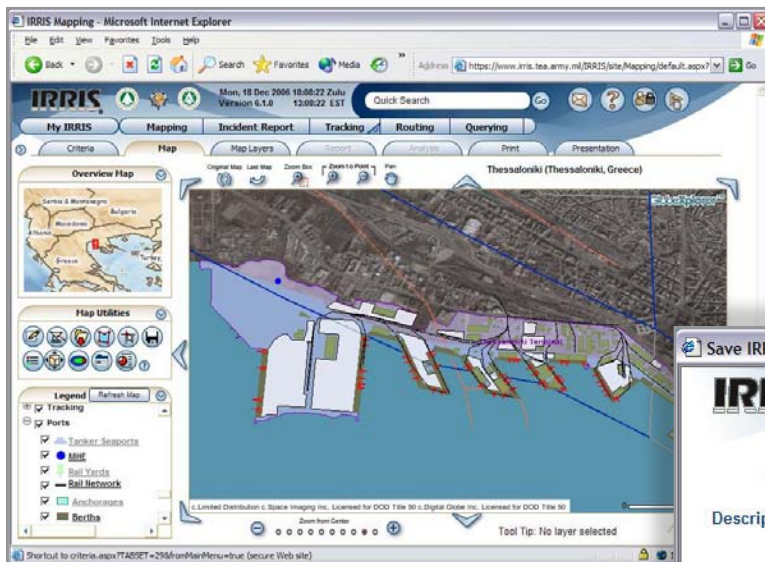


8. Draw closed polygons on your map and set them as restricted zones or "Geofences" for alert and notification purposes





◀ 9. Generate a PDF of any map



◀ 10. Save maps to preserve and share all map settings and layers



Save IRIS Map - Microsoft Internet Explorer

IRIS

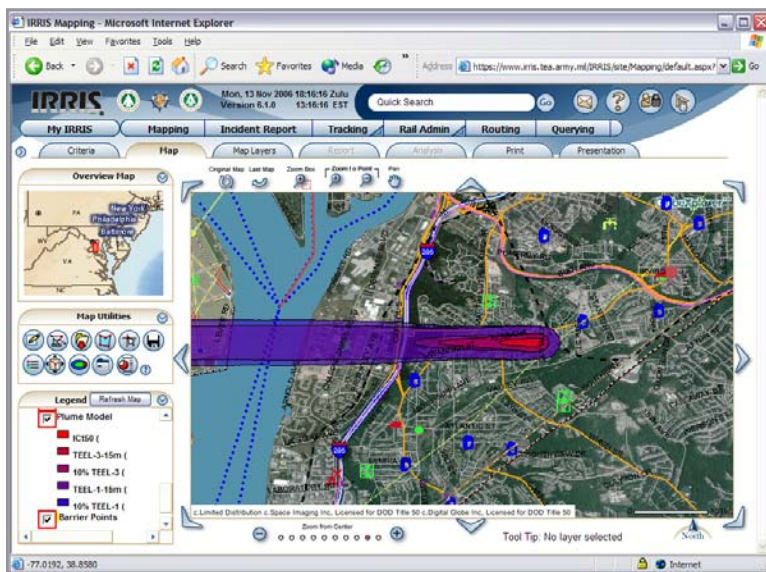
Title: Thessaloniki, Greece

Description: Strategic Port with Aerial Photography.

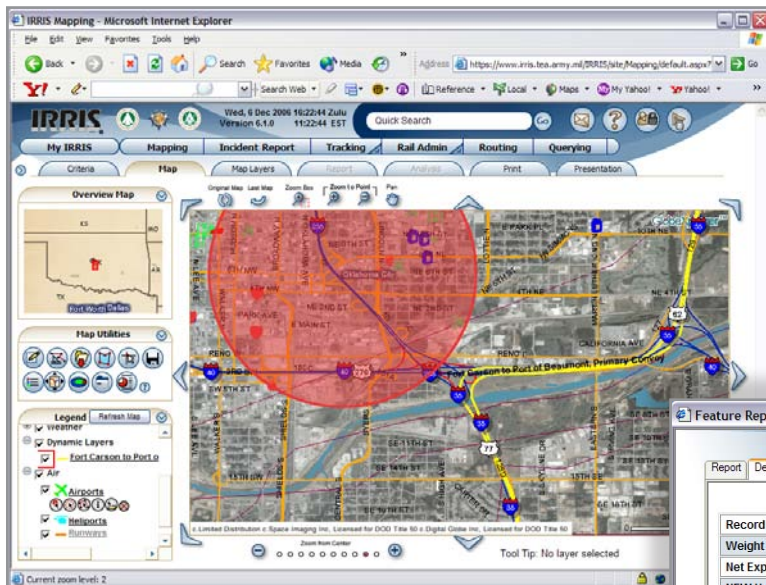
Category: MYIRIS

☐ Public ☒ Private

Save Close



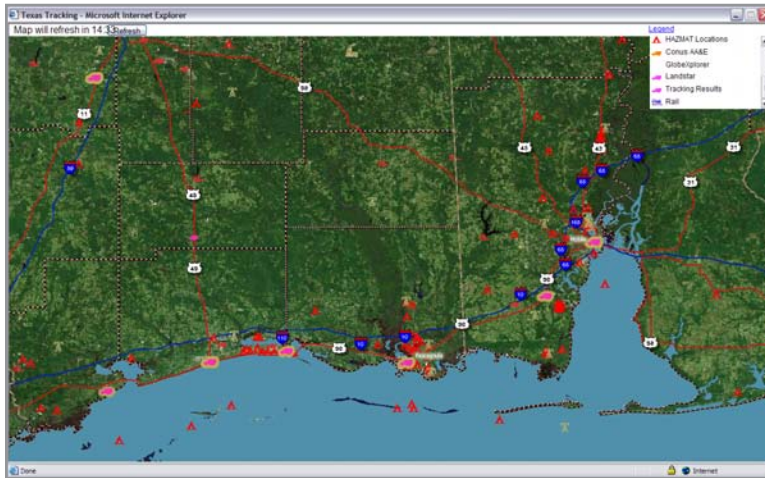
11. Predict the hazard area for a WMD chemical or biological attack



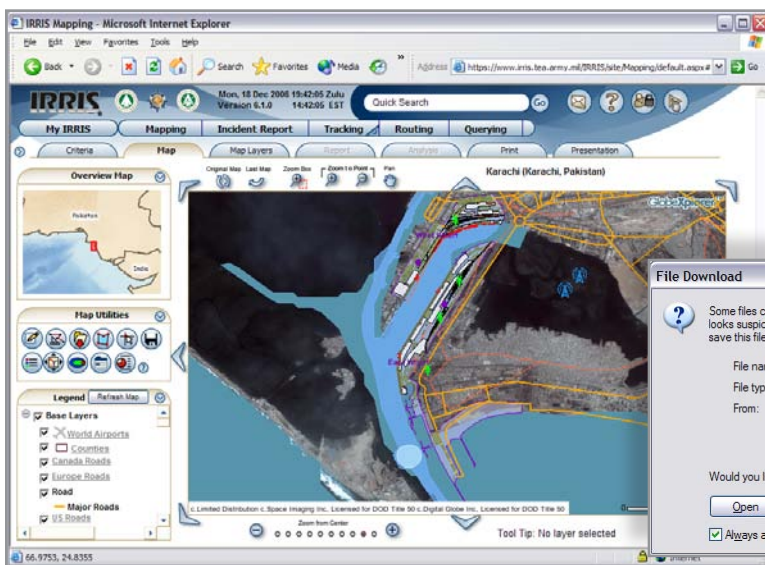
12. Select features by point, circle, polygon, or all to display reports containing detailed information about those features or view a tool tip for a feature



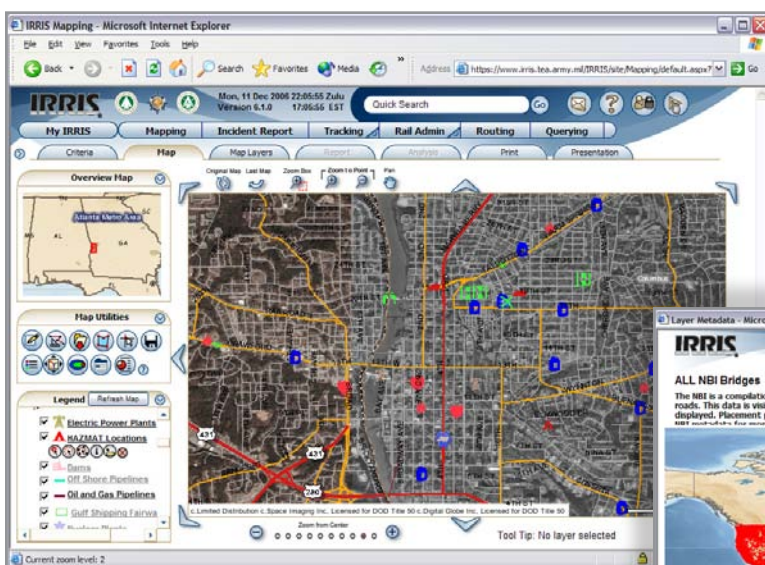
Feature Report - Microsoft Internet Explorer	
Report Detail Report Grouping Analysis Print	
Record ID	944598
Weight	1484
Net Explosive Weight	1.97
NEW Unit of Measure	LB
Date of Last Location	3/2/2006 9:34:00 PM
UN Number	0275
Longitude	-97.38944
Latitude	35.42972
GBLOC	FSFL
DROM Number	
DODIC	
Destination UIC	FB2039
Departure Date	3/2/2006 2:08:00 PM
Cube (ft)	170
Active Code	C
Action Event	C
Origin UIC	FB4608
Pieces in Unit	5
Project Code	
Required Delivery Date	3/5/2006 2:08:00 PM
Receiver SPLC	626200241
SCAC	RRUK
Shipper SPLC	653770240
Security Risk Code	4
Trail/Car Number	7810040
Truck/Locomotive Number	5777
Bill of Lading	FSFL600391-01XXXX
TCN	FJ4608600602HXXXX
CAT	IV



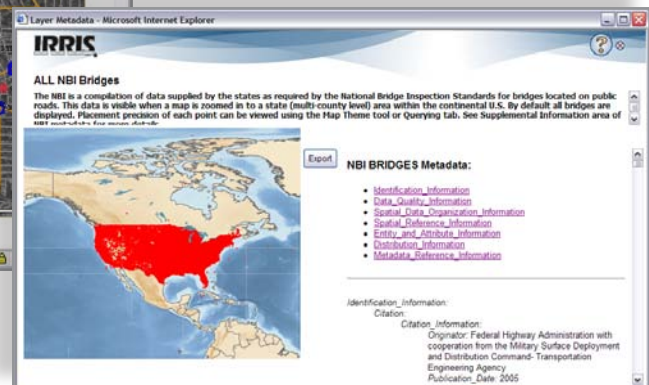
13. Create a full screen, dynamic wall map of any map you build—cities, highways, near-real-time data, or any other area of interest



14. View and/or export map layers into an ESRI® Shapefile (.shp) and save to a zip file for additional manipulation

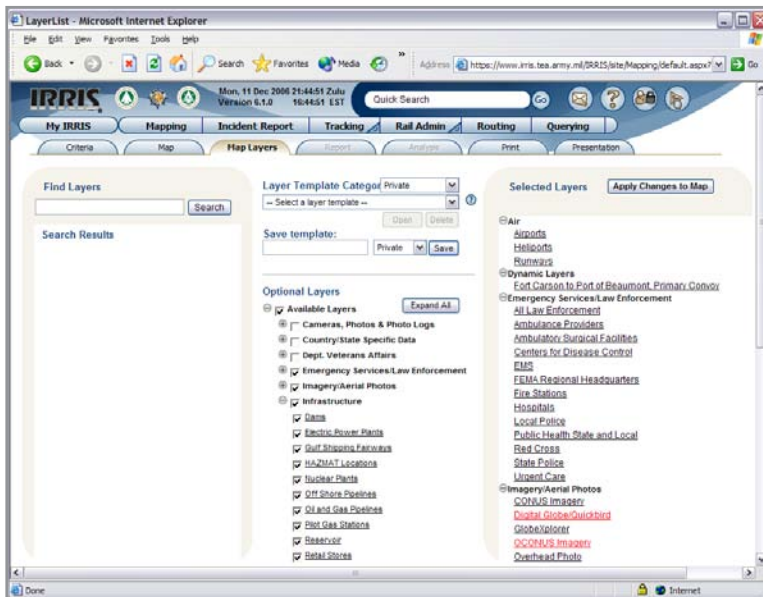


15. Display Federal Geographic Data Committee (FGDC) metadata about layers contained within the current map extents or from a list of optional map layers



Layer List

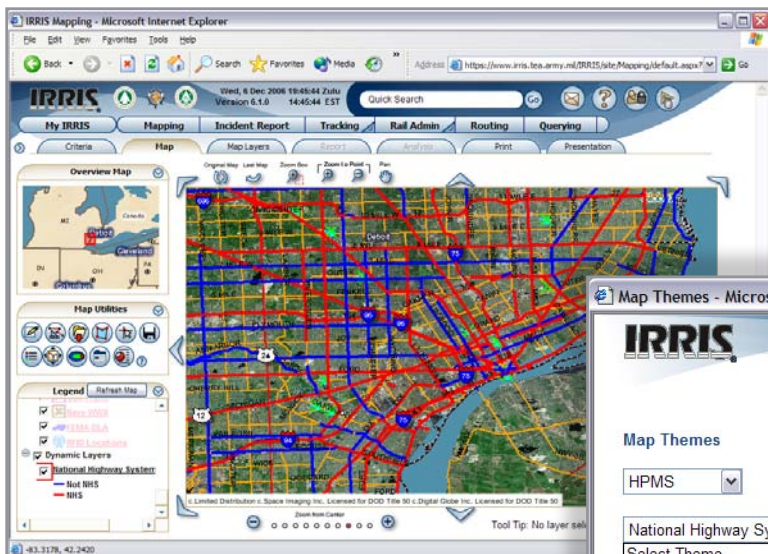
Add optional data layers, such as imagery, points of interest, infrastructure, or emergency services, to any map you build.



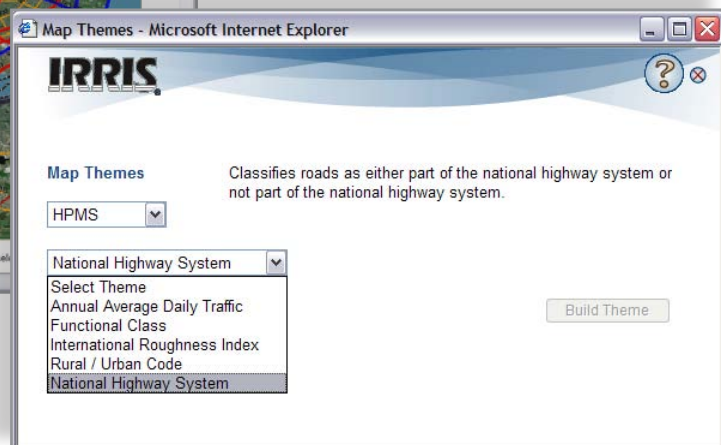
16. Select from a list of available layers or select layers to create custom layer templates

Thematic Maps

Layer data is divided into categories and color coded according to a specific theme, such as the number of lanes on a road, population density, land ownership, or geology.

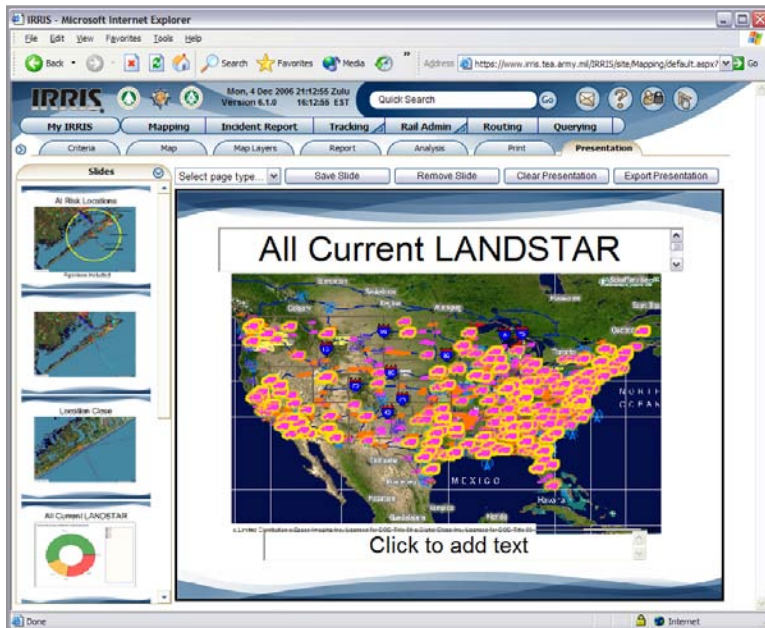


17. Build thematic maps based on pre-set attributes

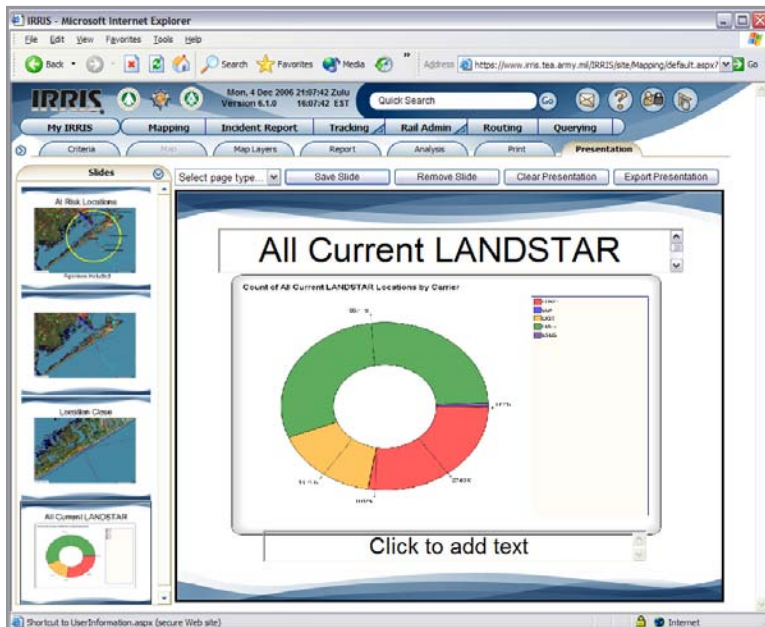


PowerPoint Builder

Create a Microsoft PowerPoint® presentation of a map or collection of maps.



18. Include maps from your session—current, previous, and/or original map—and add title and text pages to include specific information about the presentation



19. Analyze and chart report data, and include the chart in your presentation

Incident Reporting and Mapping

Manage and visualize incidents in near-real-time. Communicate data problems/issues, new construction, or any other type incident or information that needs to be disseminated. Incidents can be automatically generated following user-defined rules.

Incident Report - Microsoft Internet Explorer

Report Detail Report Print New Incident Traffic Cast Incident

Incident Information

Date: 12/04/2006
Time: 05:00:26 PM
Incident Type: 10-50 Traffic Incident

Location Information

Geometry Type: Point
Locating Method: Get Lat/Lon from Map
LatLon Datum: -80.205523,25.837509

Vehicle Information

Vehicle Make: Ford
Vehicle Model: Escape
License Number:
Vehicle State:
VIN:
Driver Name:
Secondary Driver Name:
HAZMAT Class:
Other HAZMAT Info:

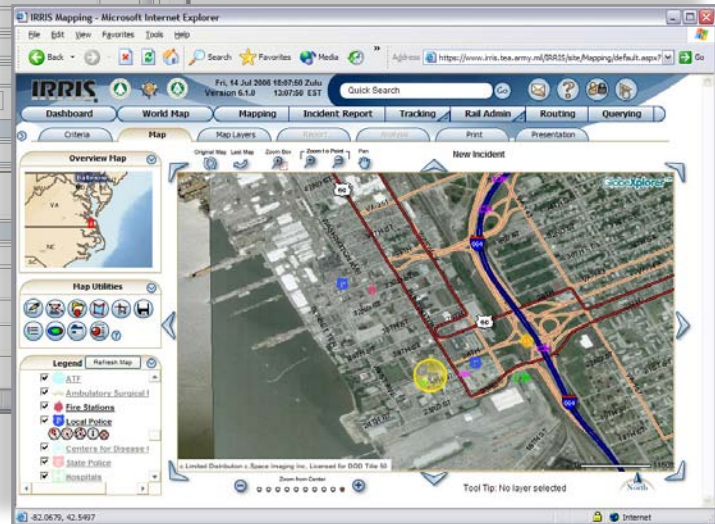
Process Information

Incident Status: Open
Process Comments:
Save Incident Map
Map Title:
Post Reset Save Map

Note: Columns with * are required fields.

Opening page NewIncident.aspx at irrstg.geodecisions.com (secure Web site)...

20. Build reports and maps of incidents such as traffic accidents, bomb threats, or HAZMAT incidents



Incident Report - Microsoft Internet Explorer

Report Detail Report Print Traffic Cast Incident

Incident List Report View will update every 5 minutes 69 record(s) found

Map Selected Map All Delete Selected New Incident

Optional Layer Template: Private Select a layer template

Go to Page 1 of 2 Page(s) 1 2

Selected	Detail	Incident ID	Incident Type	Incident Date/Time	Headline	Current Process Status	Location	Icons
<input type="checkbox"/>	Detail/Update	inc00021	10-50 Traffic Incident	12/04/2006 05:00:26 PM		Open		
<input type="checkbox"/>	Detail/Update	wan200007	10-89 Bomb Threat	04-DEC-06		Open		
<input type="checkbox"/>	Detail/Update	inc00020	10-78 HAZMAT	11/29/2006 02:41:58 PM		Under Control	Minneapolis, NY	

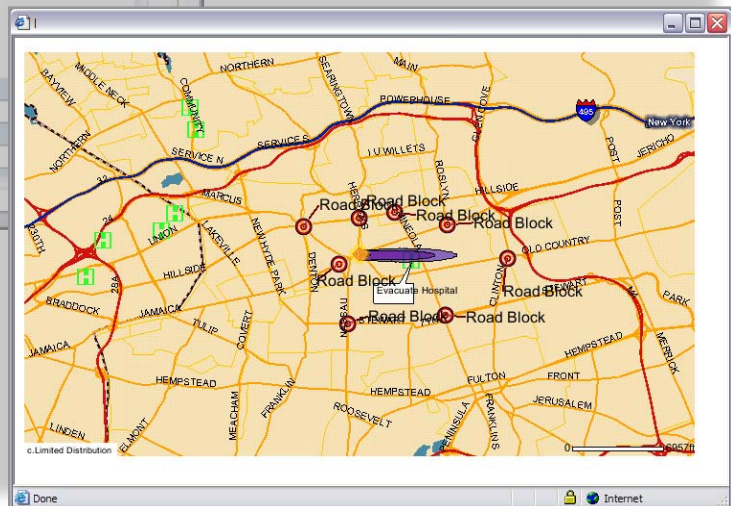
Process Status

Process Status	Comments	Update Date/Time	Incident Documents
Responding	Chemical Spill	12/11/2006 2:05:29 PM	
Responding	Chemical Spill	11/29/2006 2:56:59 PM	2.55 pm map
Responding	Roads Blocked	11/29/2006 2:55:32 PM	
Responding	Chemical Spill	11/29/2006 2:51:40 PM	
Responding	Chemical Spill	11/29/2006 2:44:06 PM	

Incident Documents

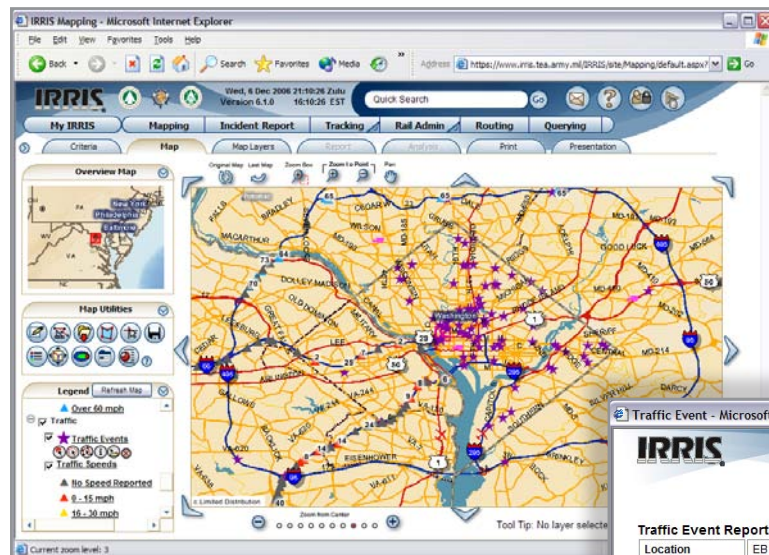
Incident ID	Incident Type	Incident Date/Time	Current Process Status
wan200005	10-89 Bomb Threat	08-NOV-06	Responding
inc00019	10-50 Traffic Incident	10/31/2006 01:58:59 PM	Open
inc00018	10-78 HAZMAT	10/30/2006 04:29:09 PM	Responding
wan200005	10-89 Bomb Threat	24-OCT-06	Open

21. Incident history can be captured for after-action review



Traffic Information

Display traffic information such as speed symbols, traffic events, and near-real-time highway conditions.



22. Display traffic sensor speed symbols on maps for several major U.S. cities

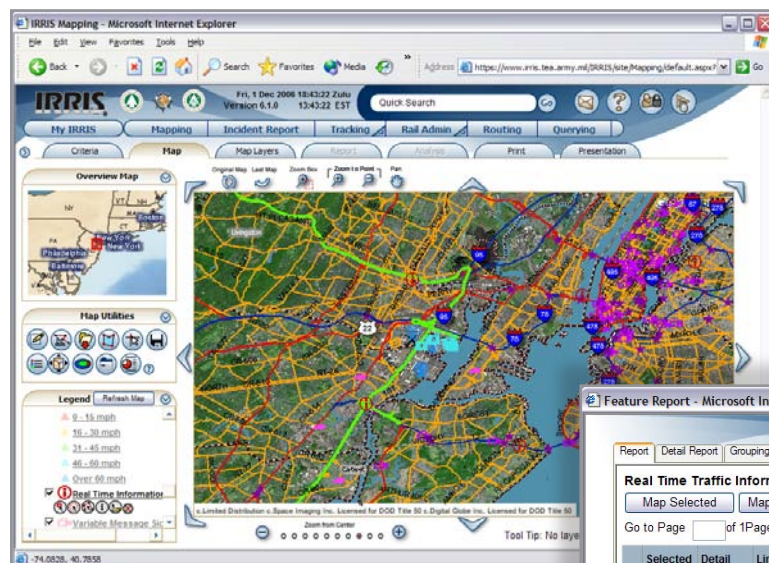
23. Report on construction, congestion, incident, and accident information for points on the road network

Traffic Event - Microsoft Internet Explorer

IRRIS

Traffic Event Report

Location	EB on Southeast Fwy near Francis Case Memorial Brg
City	Washington DC, DC
Severity	Medium
Message	Disabled vehicle
Detailed Description	DISABLED VEHICLE; EB SE SW FREEWAY ON THE CASE BRIDGE; DISABLED CAB BLOCKS THE RIGHT LANE.
Date/Time Reported	3/8/2006 8:59:01 AM
Date/Time Updated	3/8/2006 9:04:11 AM
Date/Time Ending	3/8/2006 9:34:13 AM



24. Display points that link to various Web sites that provide near-real-time information

Feature Report - Microsoft Internet Explorer

Real Time Traffic Information Feature Report

5 record(s) found

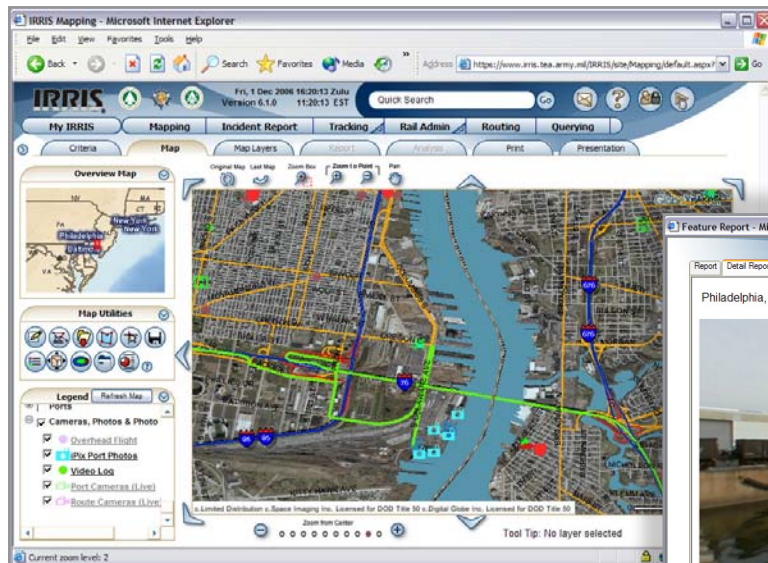
Map Selected Map All

Go to Page 1 of 1 Page(s) Go

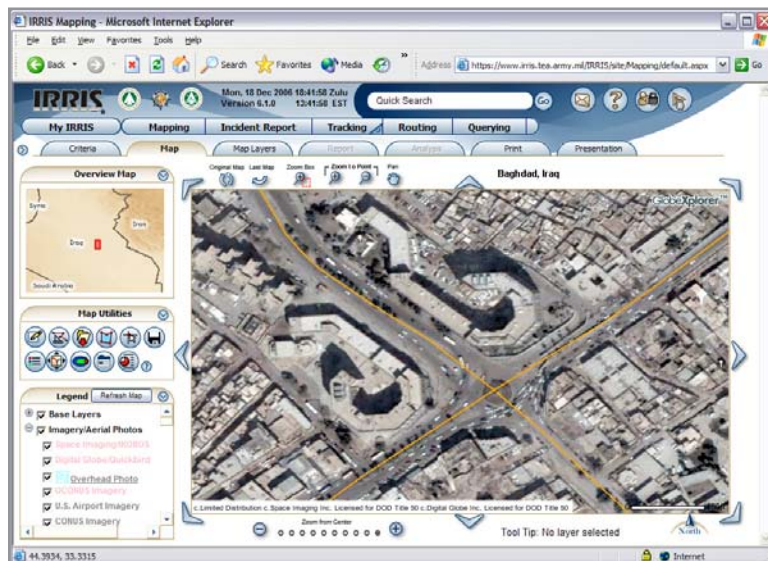
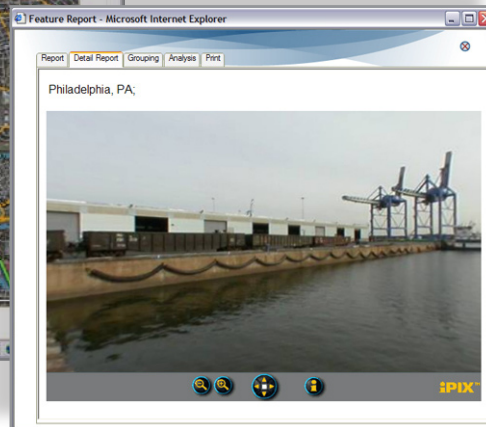
Selected	Detail	Link	Info Type	State	Route Name
<input type="checkbox"/>	Detail	http://www.hazecam.com/main/newark.ioq	Bridge Cam	New Jersey	Jackson Street Bridge - hazecam
<input type="checkbox"/>	Detail	http://www.slive.com/	Bridge Cam	New York	Verrazano-Narrows Bridge Cam
<input type="checkbox"/>	Detail	http://www.earthcam.com/	POI sites	New York	
<input type="checkbox"/>	Detail	http://webcam.mta.info/	Bridges and Tunnels	New York	
<input type="checkbox"/>	Detail	http://www.state.nj.us/conditions-cams.htm	Camera	New Jersey	NJ Turnpike

Cameras and Imagery

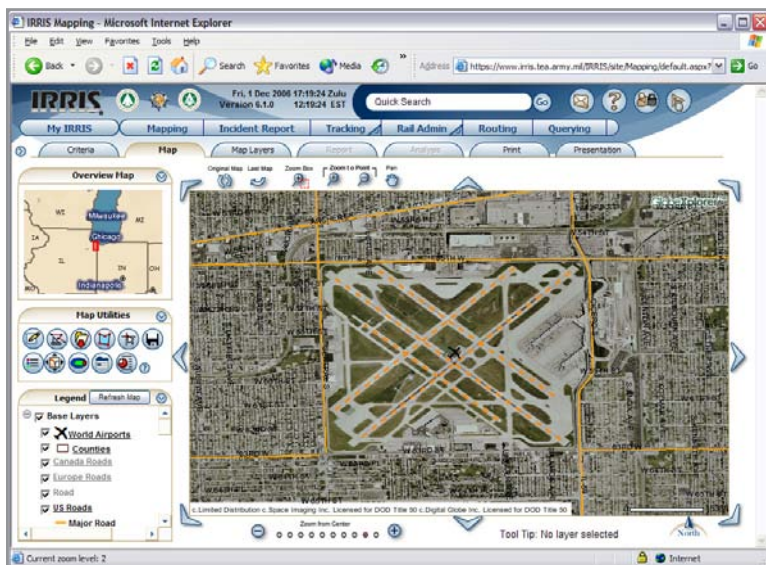
Camera sources are provided by various departments of transportation, news centers, and government agencies and link to geospatial data sets.



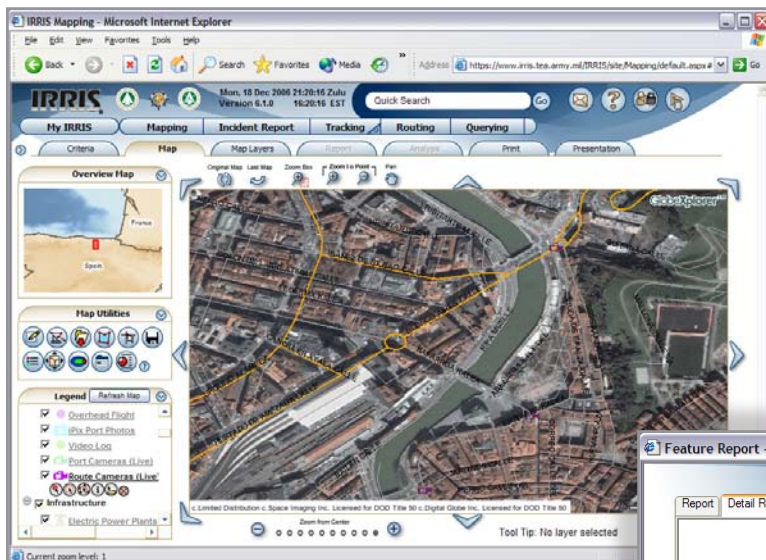
25. IPIX™ interactive imagery provides a 360° panoramic view of critical U.S. ports



26. DOQQ imagery provided by GlobeXplorer™ can be viewed on maps generated for any location in the world

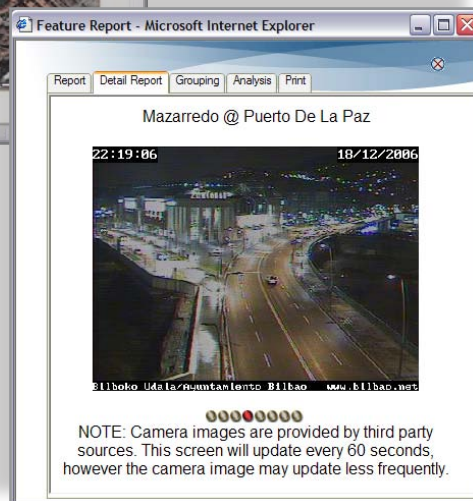


- 27. Satellite imagery layers, such as black and white or color satellite imagery of U.S. airports in select cities provide a high-level view of airports



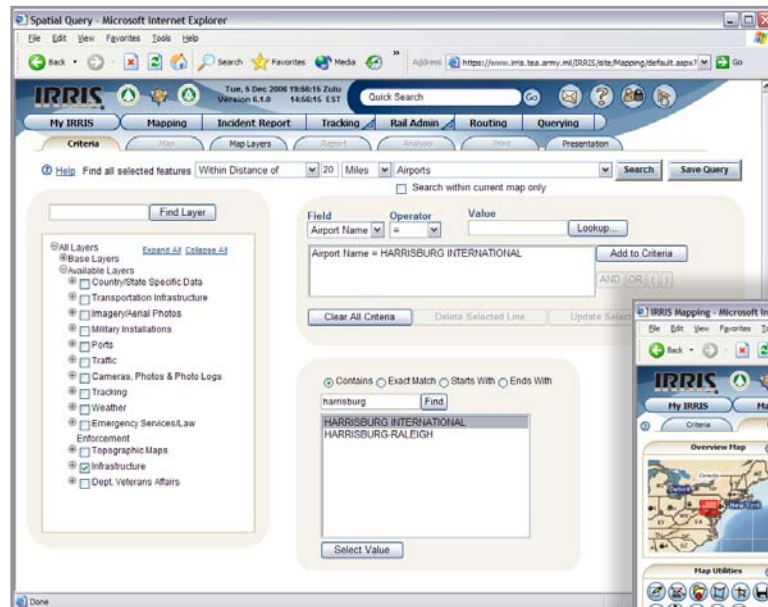
- 28. Route cameras link to live traffic cameras

- 29. Installation or port cameras located on most of the installations and ports associated with military routes

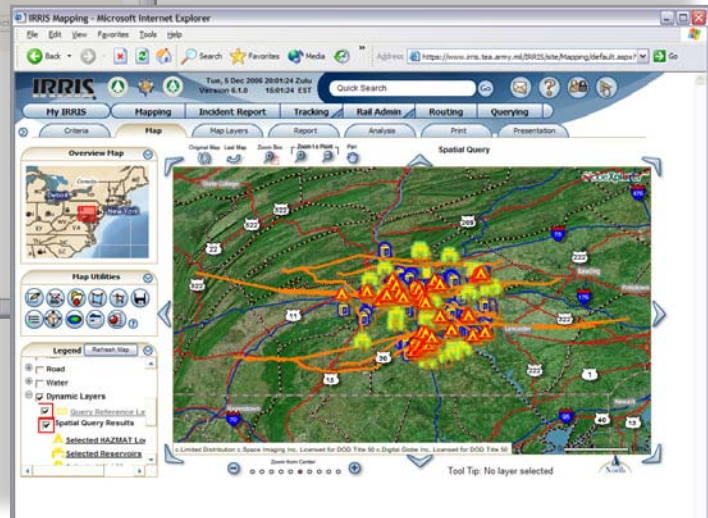


Querying

Build sophisticated queries to provide on-demand access to “narrowed-down” data sets.



- 30. Use the “wizard-like” tool to build queries and generate reports and/or maps



Reporting

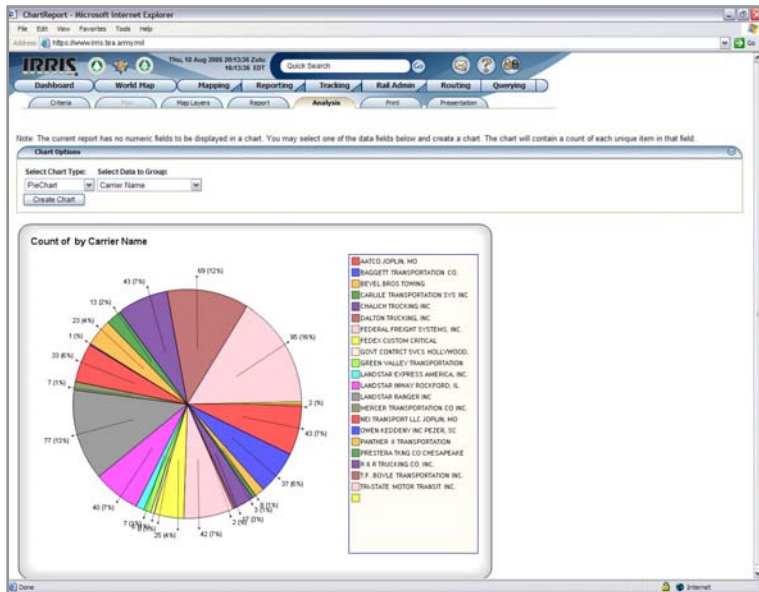
Generate reports based on specific criteria and analyze report data.

POD Name	DSCP Enroute	DSCP Onboard	DSC-EOC Enroute	DSC-EOC Onboard	DSCP-EOC Enroute	DSCP-EOC Onboard	AMF'S Enroute
TURKEY	0	0	0	0	0	0	0
TADUQU, TURKEY	0	0	0	0	0	0	0
AGALAR, LIBANI BNY, TURKEY	0	0	0	0	0	0	0
CHIROUT	0	0	0	0	0	0	0
AD DAMBAH, SAUDI ARABIA	0	0	0	0	0	0	0
SALALAH, OMAN	0	0	0	0	0	0	0
BHAWAN	0	0	0	0	0	0	0
AD DAMBAH, DOHA, QATAR	0	0	0	0	0	0	0
UMM SHAD, QATAR	0	0	0	0	0	0	0
AL KURVAT, KUWAIT	1	0	0	0	130	0	20
ASH SHAI, ATBANK, KUWAIT	0	0	0	0	0	0	0
KUWAIT AREA	0	0	0	0	0	0	0
MILITARY PORT, JEBEL ALI, U.A.E.	1	0	0	0	0	0	1
KARACHI, PAKISTAN	0	0	0	0	1	0	0
MUHAMMADIBRODAR, PAKISTAN	0	0	0	0	0	0	11
Totals:	2	0	0	0	141	0	42

- 31. Generate custom reports, such as tracking reports

Analysis

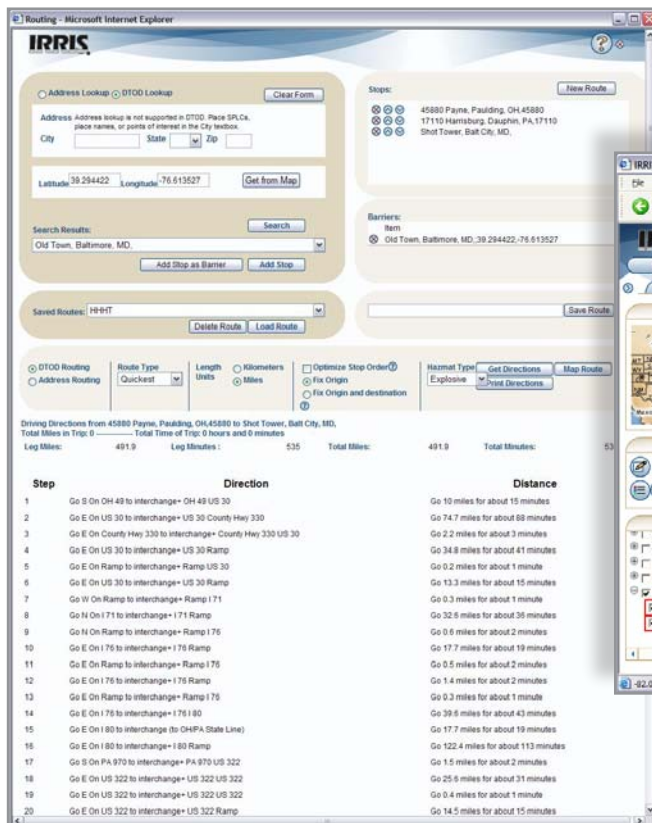
Analyze reports or queries and generate charts of the analysis results.



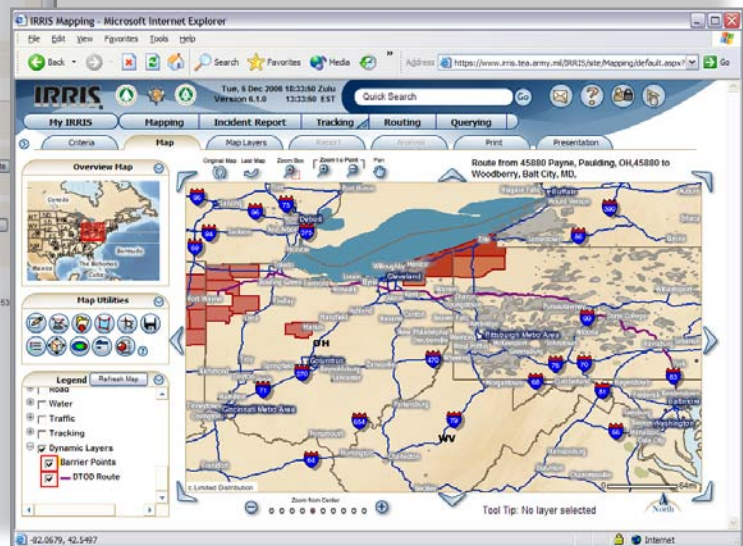
32. Build various types of charts—pie, bar, column—from report or query results

Routing

Identify a route to obtain accurate point-to-point distances, drive times, and detailed driving instructions.

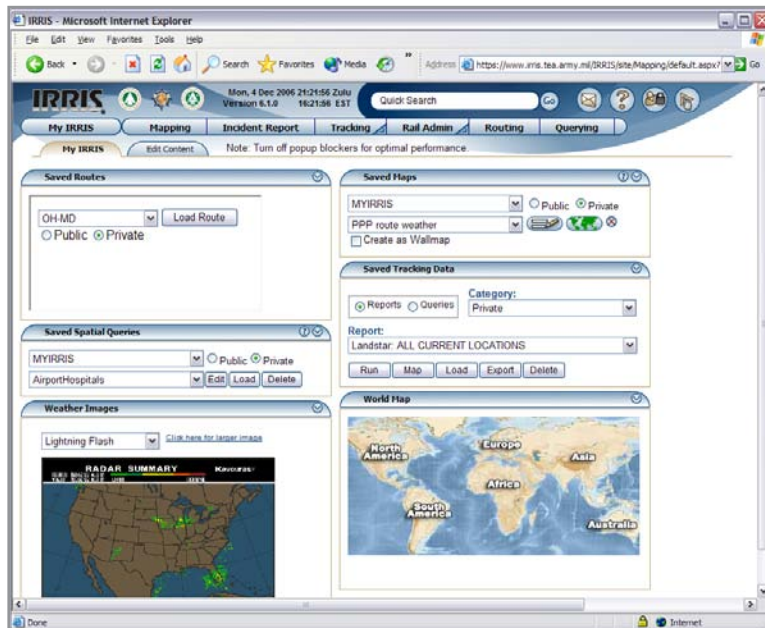


33. Display and print directions and/or a map of the route



Dashboard

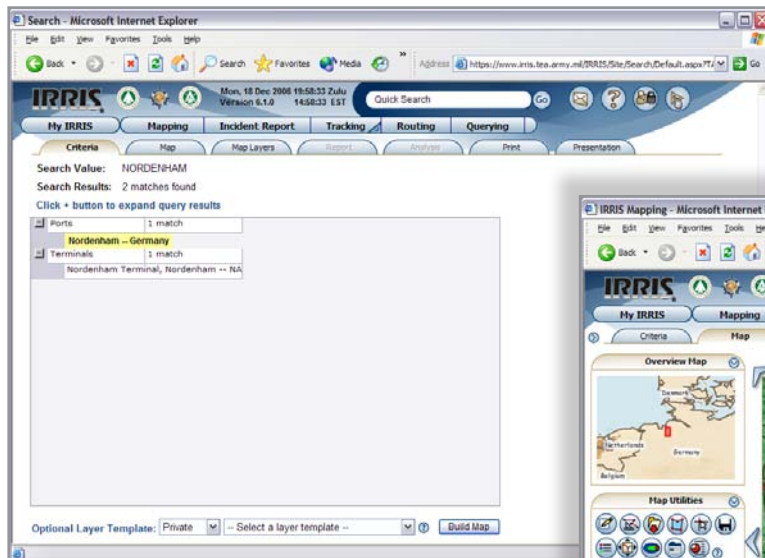
Customize your dashboard by adding components (widgets) that enable you to easily access live and/or saved data.



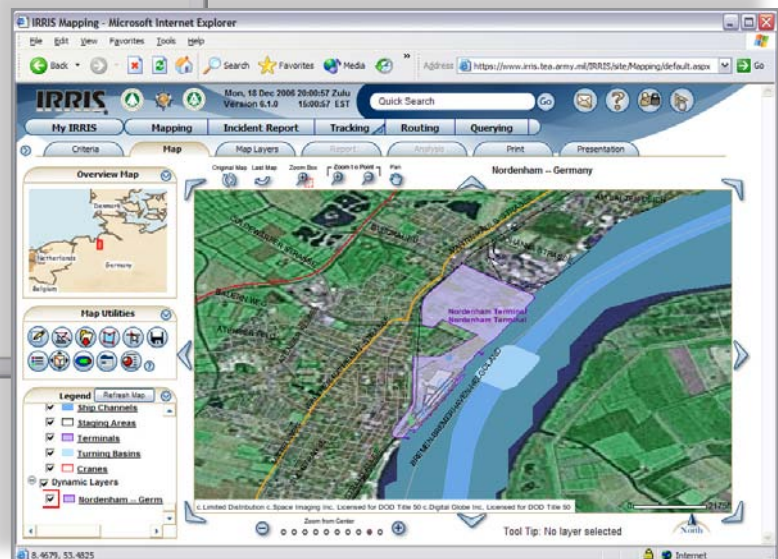
34. Quickly access data such as news feeds, weather information, or saved maps

Quick Search

Quickly locate and build maps of specific locations.

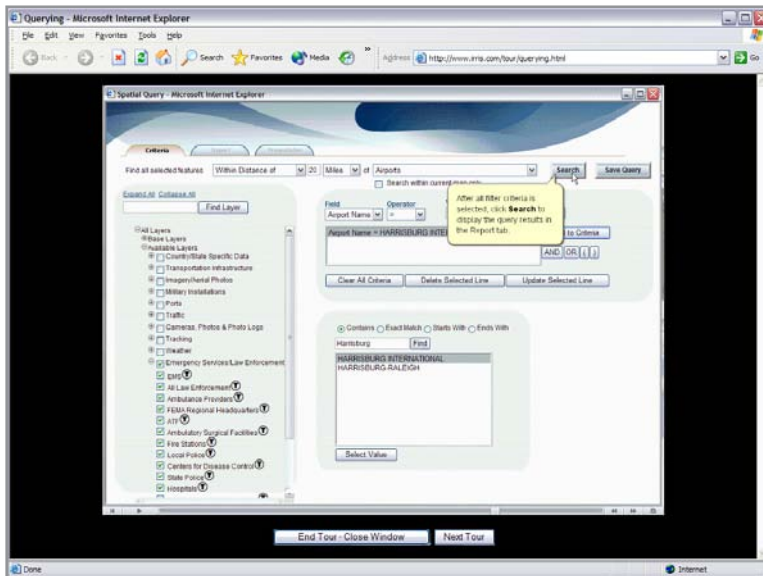


35. Build maps without accessing the mapping option



Guided Tours

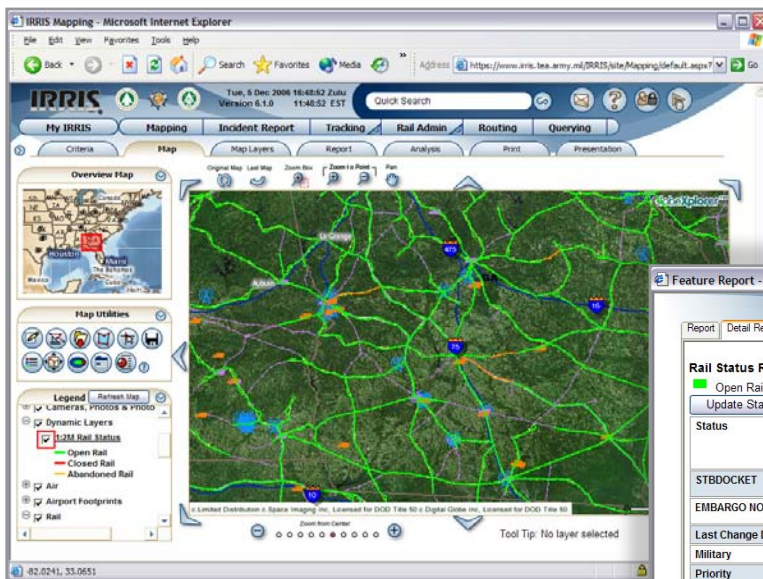
View animated tours that serve as a tutorial of key IRRIS processes.



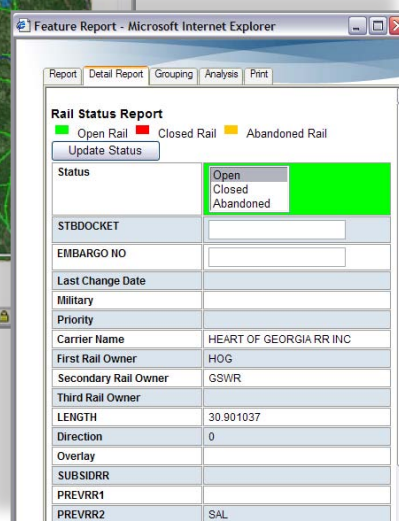
36. Select tours to quickly learn how to use specific IRRIS functions

Infrastructure Administration

View the status—open or closed—of a rail line, bridge, or roadway to plan routes to and from locations or to communicate closure/outages to a wide audience.



37. Users with necessary privileges can change/edit the status of assets online, instantly communicating status changes





Contact Information

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