

# **Effective Use of Geospatial in Border Management**

A VinayBabu



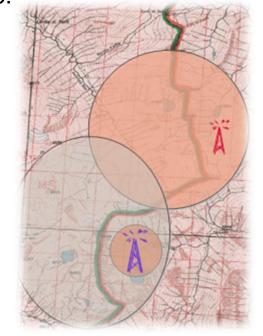
## Role of GeoSpatial...





Collecting data about enemy systems and their movements is a continues process through ELINT, ComINT, IMINT, Ground Based Electro-Optical / Radar Sensors – static and mobile.

Plotting the ORder of BATtle (ORBAT) on the electronic map is the key and building the tactical picture is the need of the hour

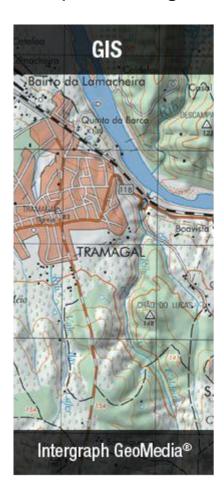


Thus the Continuing need of Geospatial content!

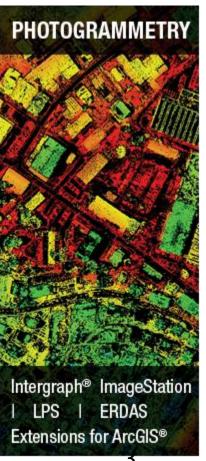
## Keeping the data up-to-date



 One authoring system for geospatial production and analysis, with products specializing in the following geospatial ingredients:

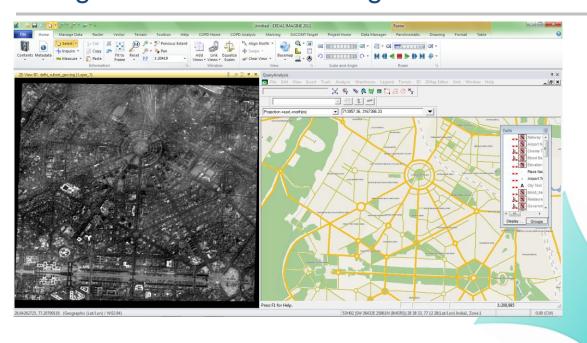


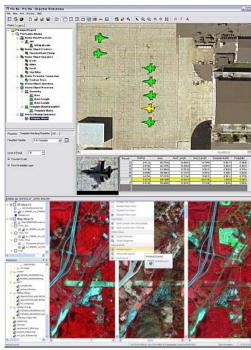


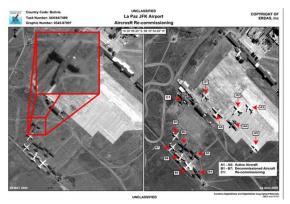


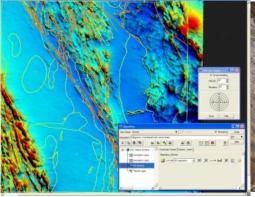
# Integrated Remote Sensing and GIS Solution













# **Interoperable Core Products**



Various
Enterprise &
External
Data
Sources

Oracle

SQL Server

**MS Access** 

**ESRI** 

MapInfo

Microstation

AutoCAD

.xml

.gml

WFS / WMS .....

Capture / Edit /
Analyse /
Manage
GeoMedia
Professional

**View / Analyse** 

**GeoMedia**<sup>™</sup>



View / Query /
Distribute / Capture

GeoMedia™ Smart Client



Publish View / Analyse Distribute

GeoMedia™ WebMap

Capture / Edit /
Analyse / Distribute
/ Routing

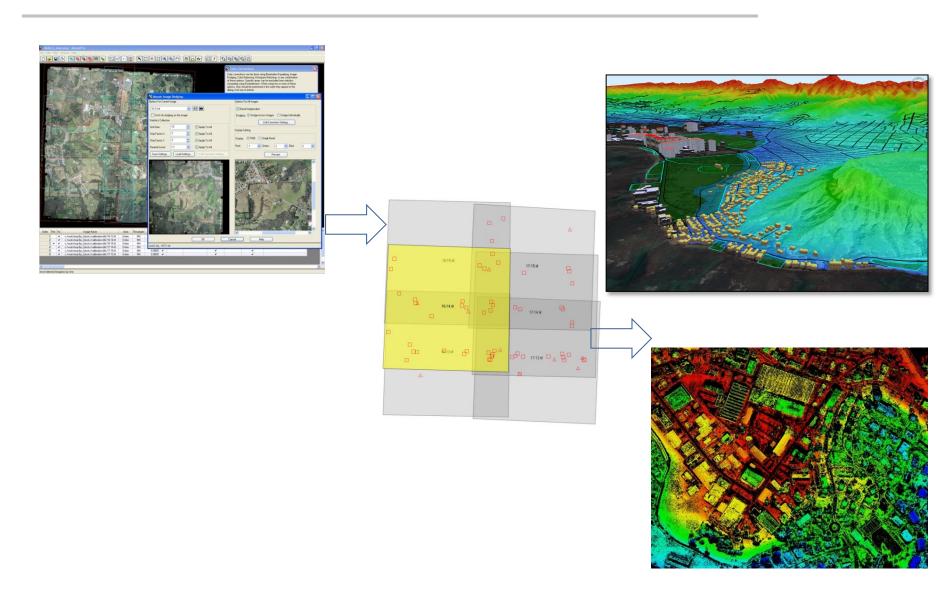
**GeoMedia**<sup>™</sup>

WebMap Professional



# Terrain extraction of the Changing world

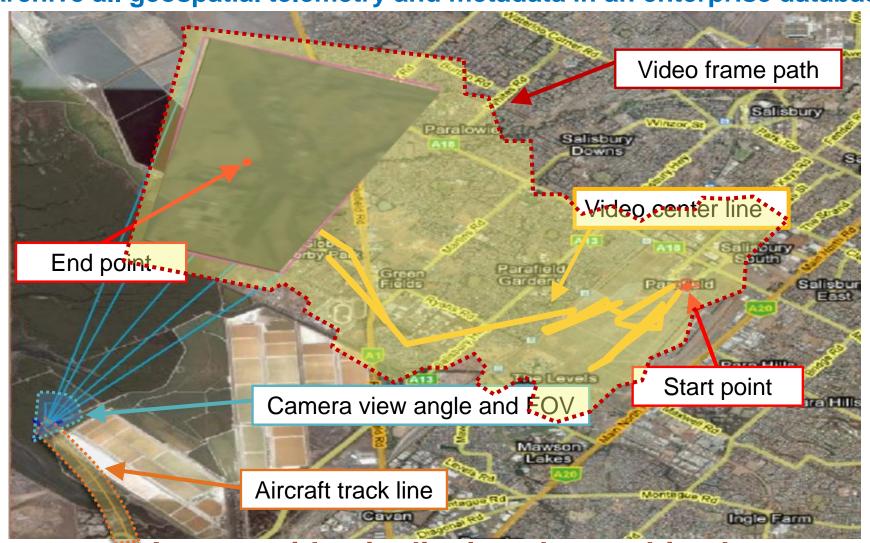




# Motion Video warehouse



Archive all geospatial telemetry and metadata in an enterprise database

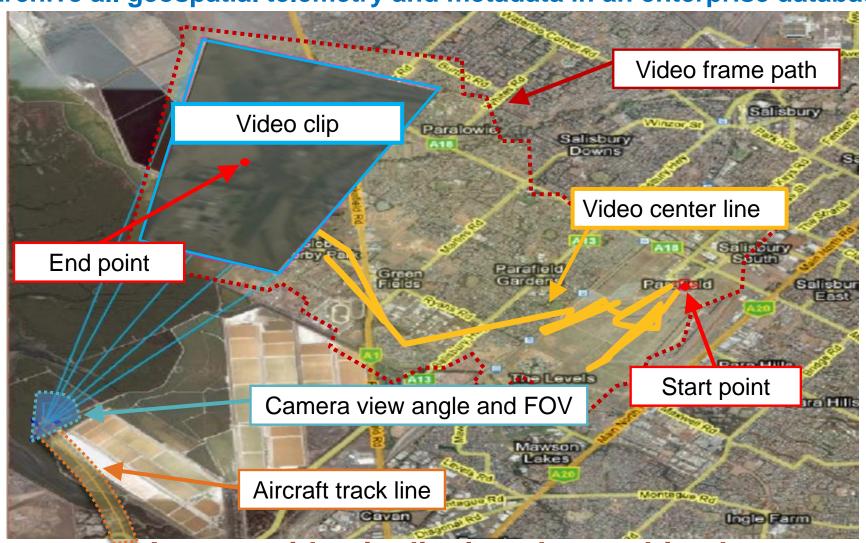


As your video is displayed or archived

# Motion Video warehouse



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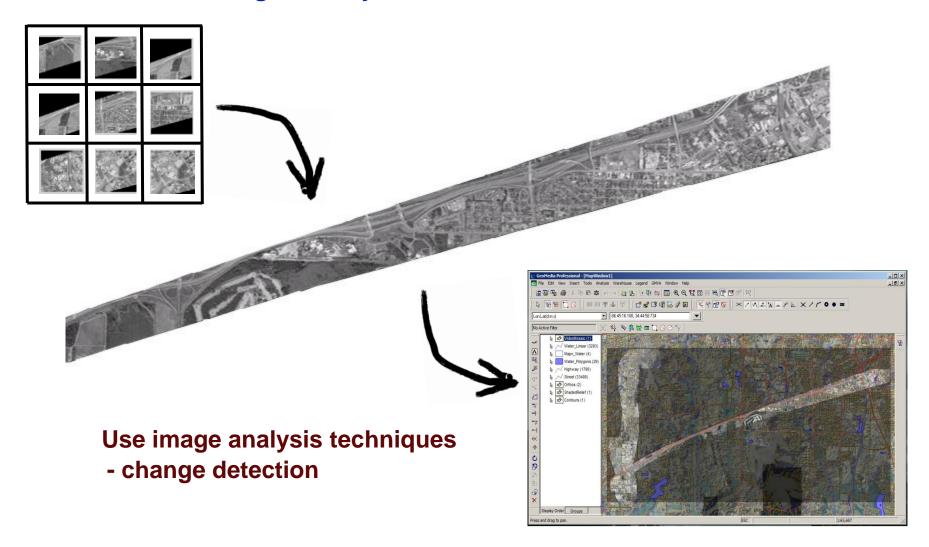


As your video is displayed or archived

# GeoMedia MVA Pro



#### Generate mosaic images from your video frames.



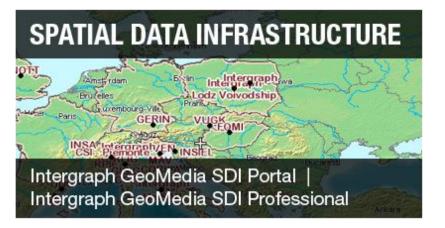
## Managing and Sharing the Data



 Extend the utilization of geospatial data and information across departments and organizations by leveraging the following technologies:





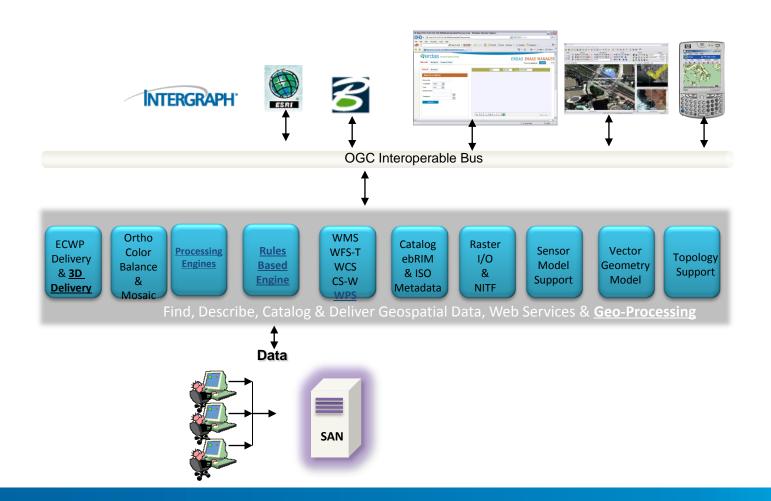




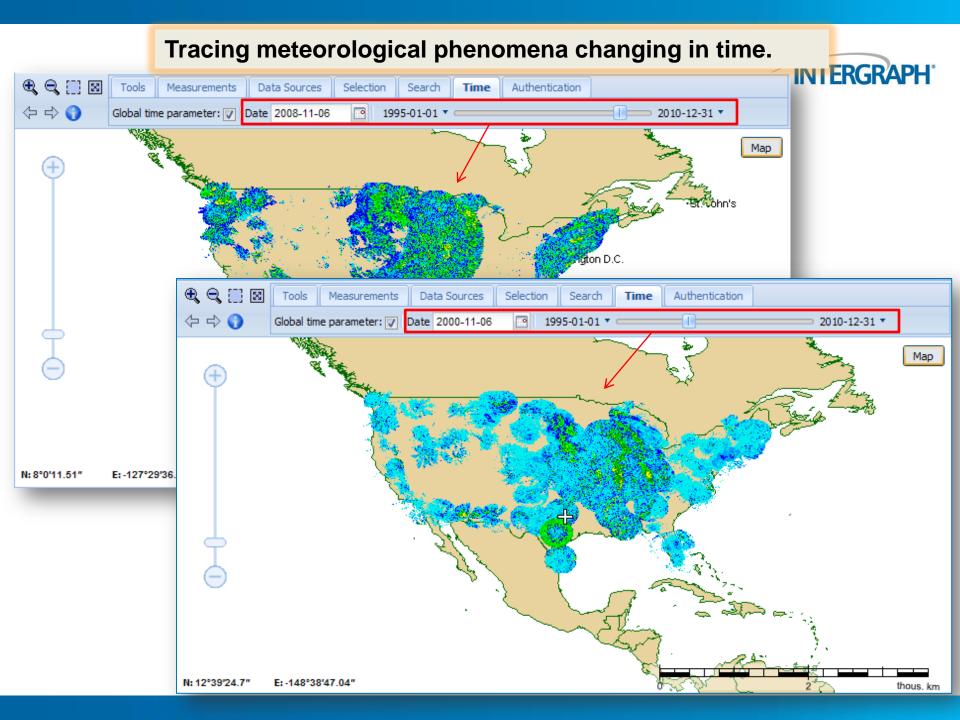
# Sharing the required Information



Defense SDI in line with NSDI



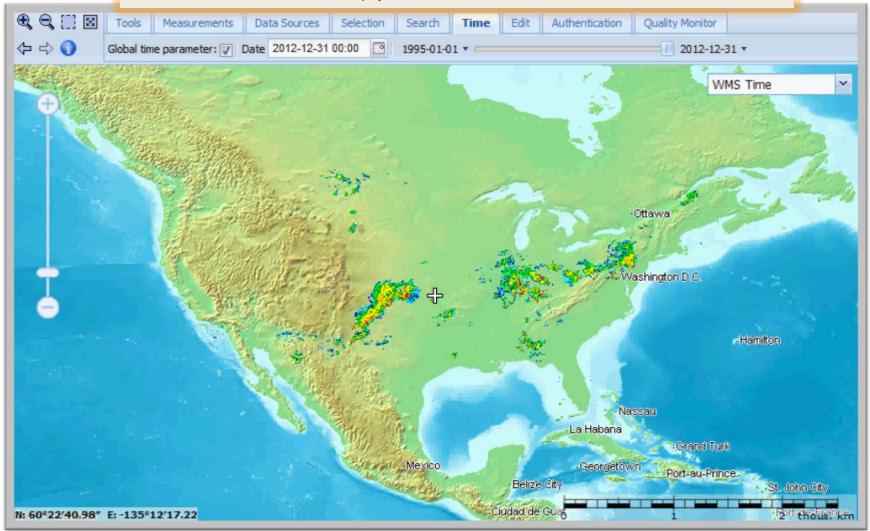
# CAN WE SEE THINGS MORE DYNAMICALLY?



#### Tracing meteorological phenomena changing in time



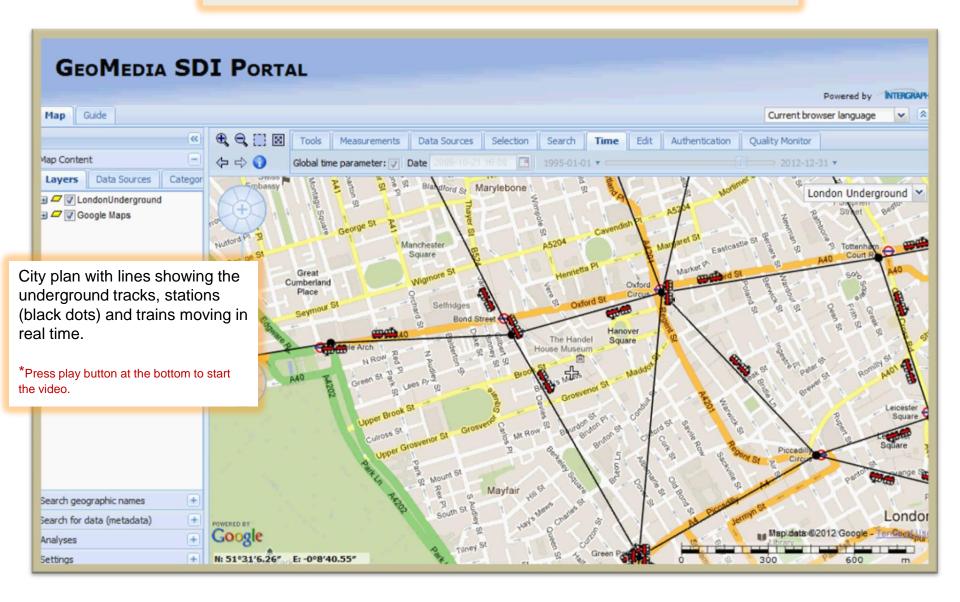
\*Press play button at the bottom to start the video.



more dynamically?

**Near real time?** 

#### London Underground train positions in real time

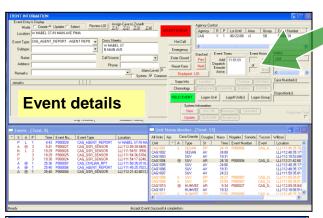


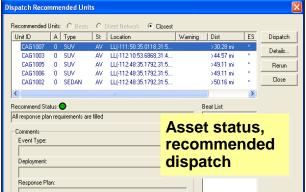
**Even more dynamic?** 

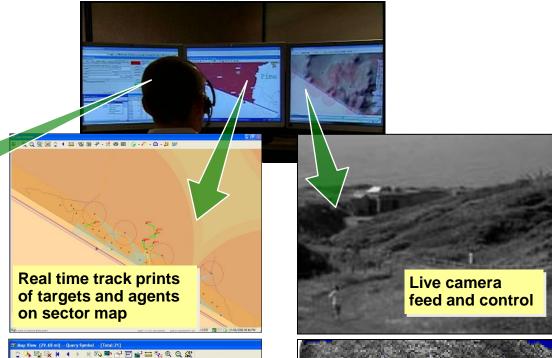
**Dynamic GIS...** 

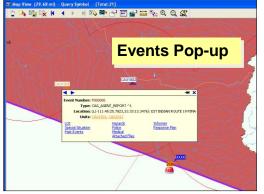
# A Border Station Operator has Full Visibility, Decision Support, and Control

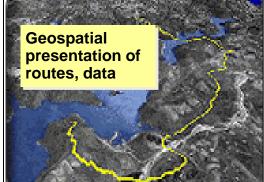












# Moving Static GIS to Dynamic GIS...



 Unleash the power of technology and enhance the coordination between the modern weapon systems







































# OUR SOFTWARE SOLUTIONS PROTECTS 1 IN 12 PEOPLE AROUND THE WORLD

WE ARE...



