

NATIONAL SECURITY SUMMIT Establishing a Rapid Geospatial Support Capability

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Malaysian Airlines flight MH17 departed Amsterdam with 298 people, from 10 countries on board 17 July 2014 at 1014h (UTC)









"For a soldier trained at West Point as an Engineer, the idea that a problem has different solutions on different days was fundamentally disturbing. Yet that was the case."

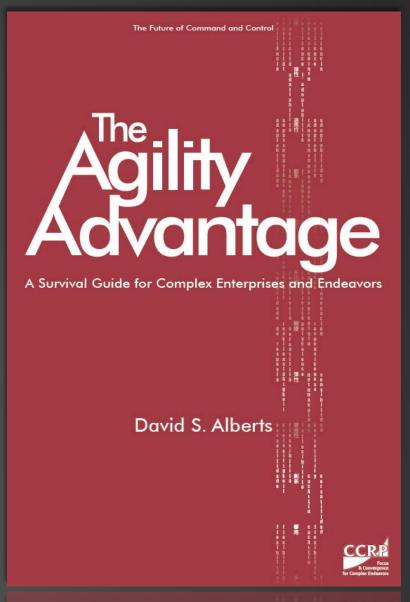
General Stanley C. McChrystal, 2014

On countering Al Qaeda operations in Iraq in 2003

Agility:

the ability to successfully effect, cope with, and/or exploit changes in circumstances.

Flexibility
Adaptability
Innovation
Resilience
Robustness
Responsiveness





National Security Mission Space

Complexity Uncertainty Risk

Principles of Geospatial Support?

Organisational Agility

Flexibility
Adaptability
Innovation
Resilience
Robustness
Responsiveness



Embedded GIS Team



In-country Op's – BGSP, Malaysia

2 Agile Support to Operations



- Foundation Data
- Application Templates
- Organizational Structure
- Publically Available Information

- Continuous User Engagement
- Hourly Sprints (initially)
- User Driven Development
- Continuous Content Management



- Identify Stakeholders
- Team structure
- ArGIS Online Config
- Order Imagery
- Security



- Initial User Needs
- Identify Essential Info
- New App Configuration
- Develop COP
- Content Management

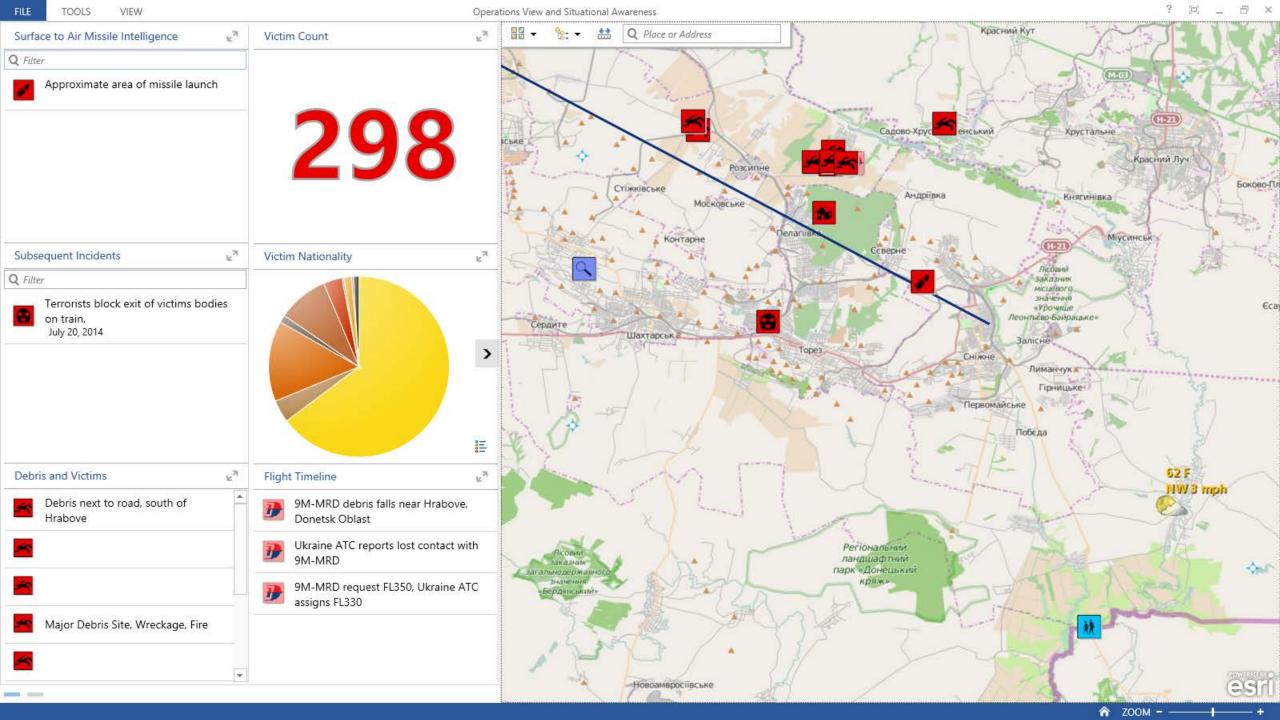


- Refine COP
- App Release
- New App Configuration
- Content Management

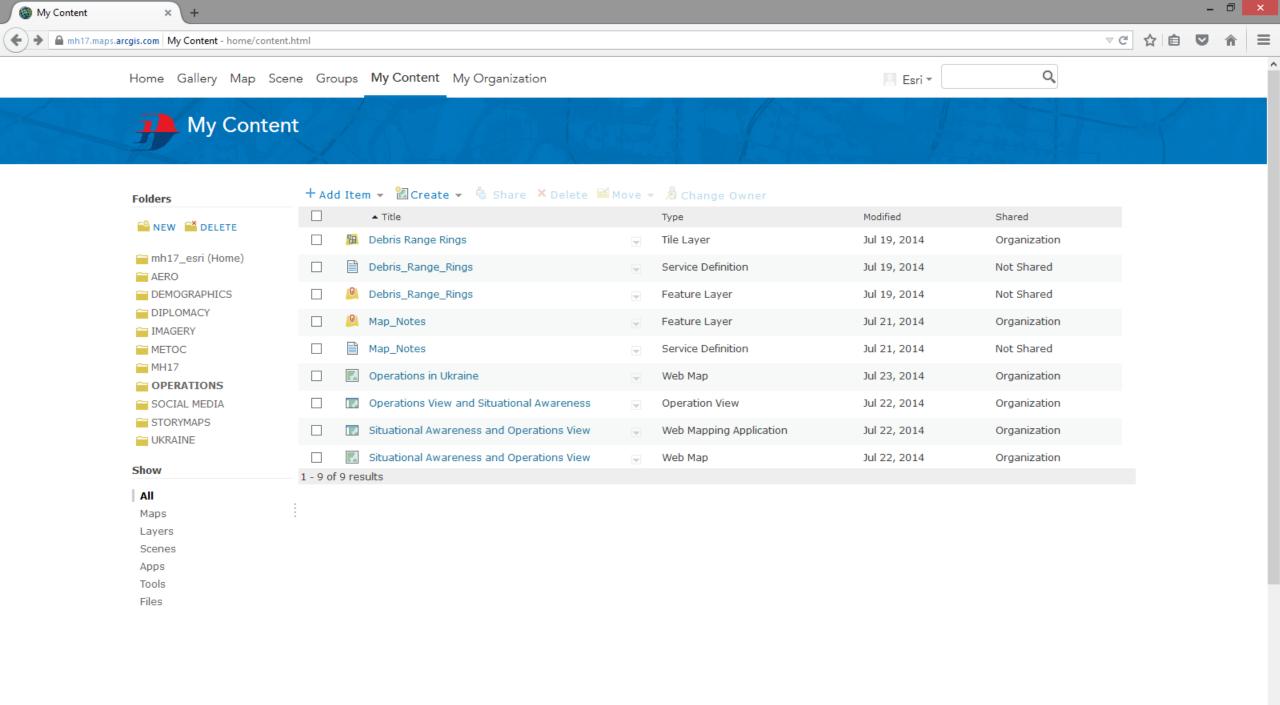


Malaysia Airlines flight 17 (MH17 or MAS17) was a scheduled passenger flight from Amsterdam Schiphol airport to Kuala Lumpur airport. The Boeing 777-200ER operating this service on 17th July 2014 disappeared from radar at 13:15 hours UTC, and crashed in the Ukraine.

This portal presents historical, contextual, geospatial and briefing materials to assist in the response and understanding of the incident. It is owned by the Defence Geospatial Division (BGSP), Department of Survey and Mapping Malaysia (JUPEM).



Content Management









Instagram



Flickr photos filtered by: mh17



Twitter tweets filtered by: mh17



YouTube videos filtered by: mh17



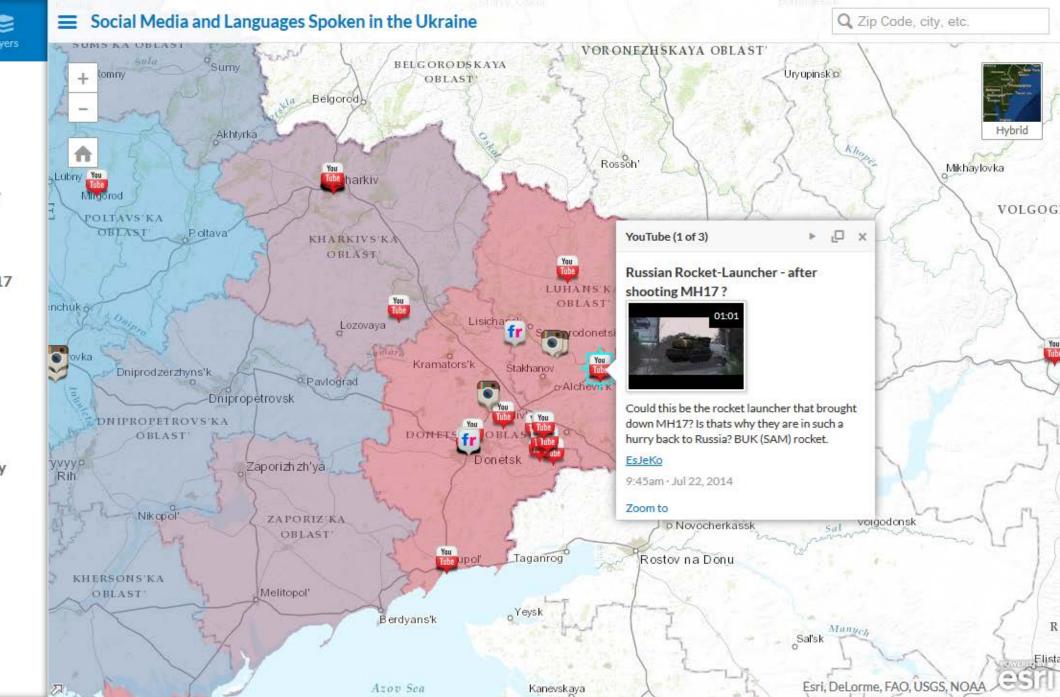
Russian Language Spoken (% by province or oblast)



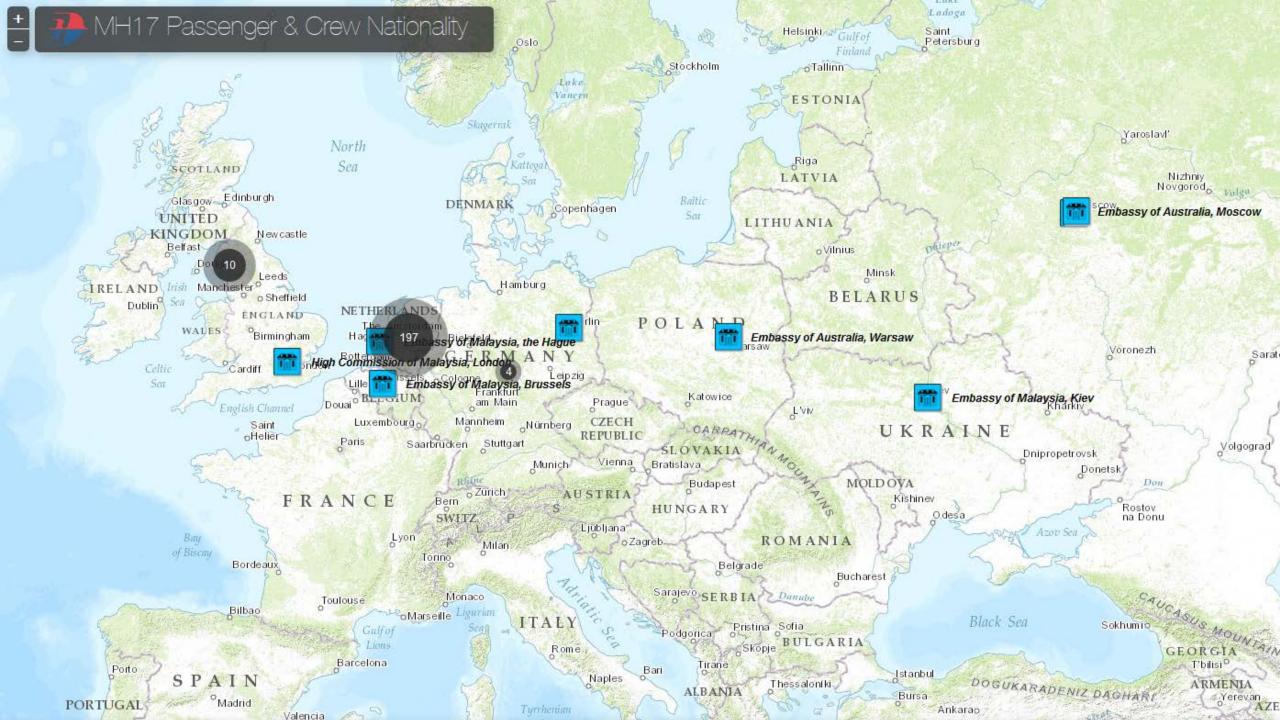
11% - 37%

37% - 64%

64% - 90%



4 Continuous User Engagement

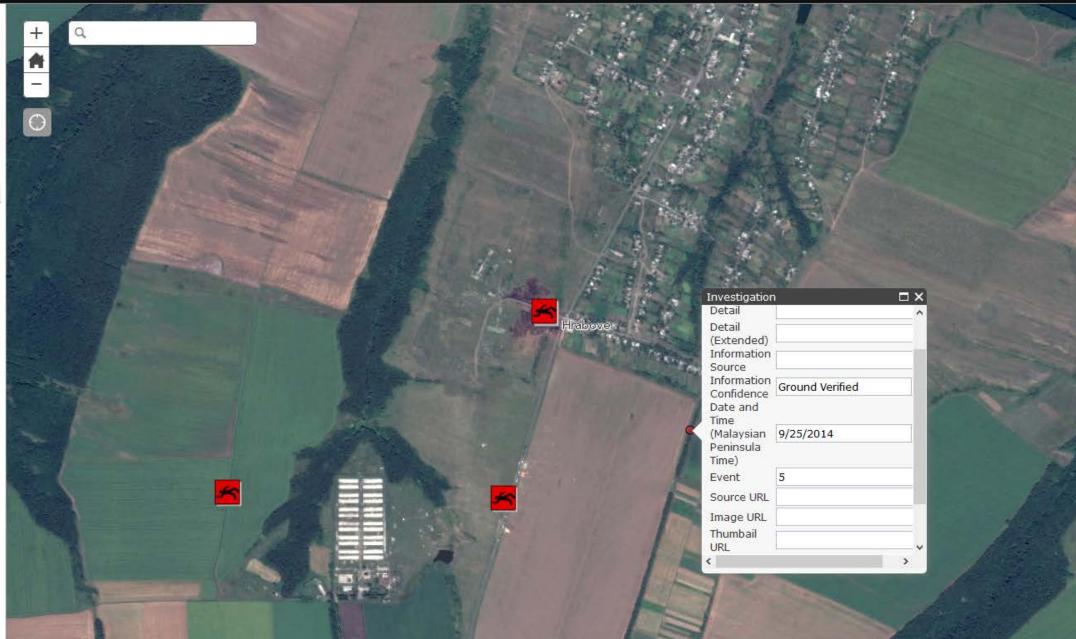


5 Mission Specific App's

Post-Incident Imagery and Analysis

Presents pre-incident and post-incident imagery. Image analysts can examine the imagery for debris and other useful intelligence.

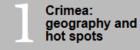




6 Empower the User

Following a change of government in Ukraine, Russian forces effectively seized control of the Crimea, an autonomous republic with historical ties to Russia. Explore locations and events in Crimea, and language differences in Crimea and throughout Ukraine.



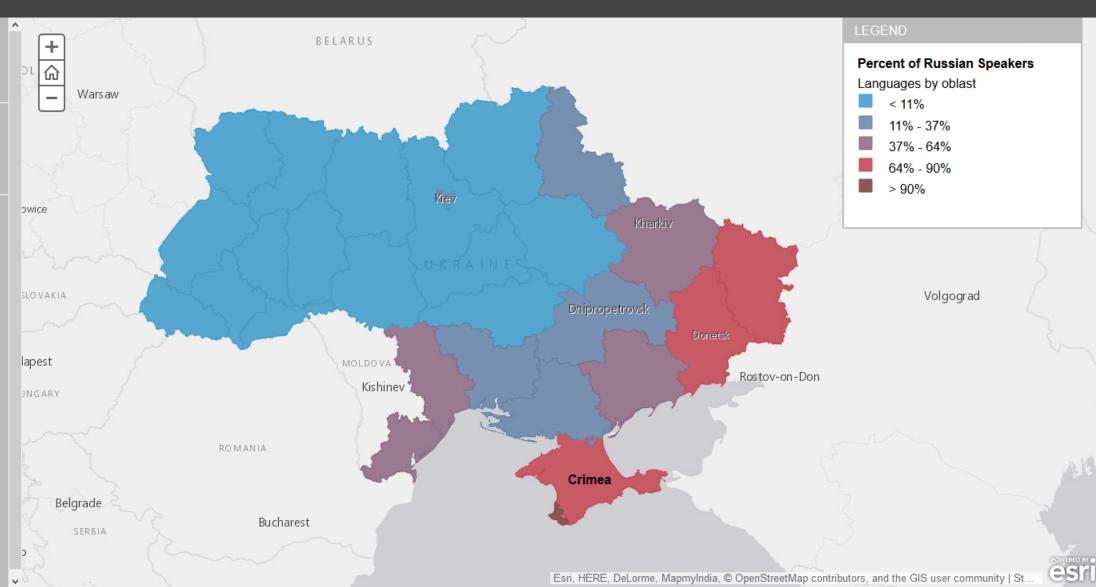


Crimea: Russian majority, but diverse ethnicity

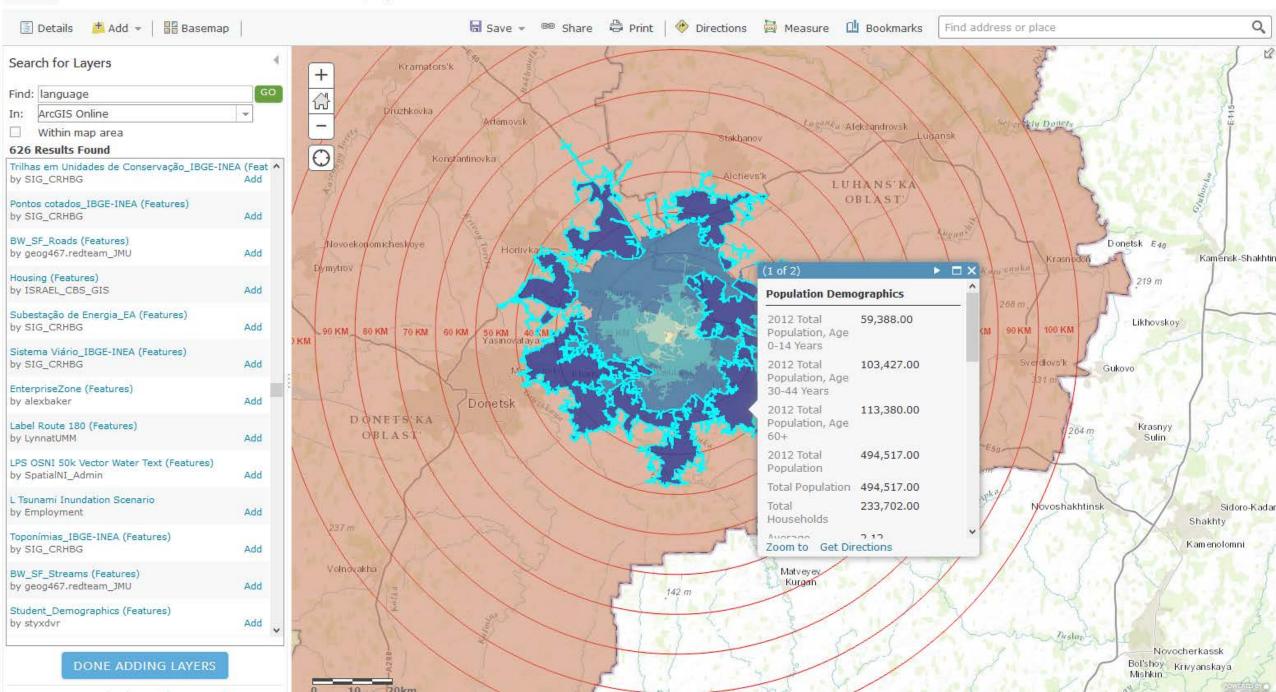
Ukraine: Russians in the east and south

Ukraine's 2001 census--the most recent conducted by the nation--reveals a dramatic difference between eastern Ukraine, where Russianspeakers predominate, and its western regions, where Ukrainian is the primary language and allegiances favor European Union over Russia.

Tap the map for additional detail.



HOME - Ukraine Controlled Areas and Demographics



National Security Mission Space

Complexity Uncertainty Risk

Principles of Geospatial Support

- 1. Embedded GIS
 Team
- 2. Agile Workflows
- 3. Content Management
- 4. Continuous User Engagement
- 5. Mission Specific App's
- 6. Empower the User

Organisational Agility

Flexibility
Adaptability
Innovation
Resilience
Robustness
Responsiveness

"Without agile leaders who can recognize when things are not going as planned, challenge their own preconceptions, change their own behaviours, and shape those of their subordinates, it will be impossible to increase the agility of organizations or forces."

C2 by Design: A Handbook for Putting Command and Control Agility Theory Into Practice
US DoD, Command & Control Research Program, 2014



Understanding our world.