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McCORMICK SCHOOL OF  
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# Net-Centric Warfare, Geospatial Intelligence, and AI

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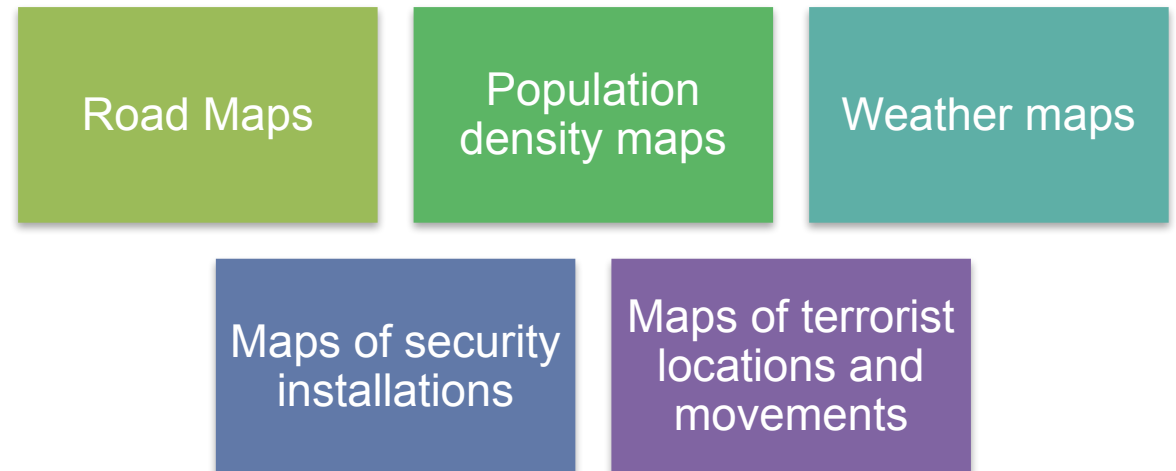
June 2 2026

IPGF Plenary 4, 2026

# GEOSPATIAL RISK: SCHOOL ATTACKS BY BOKO HARAM

## The Northwestern Terror Early Warning System (NTEWS) models can predict

- Potential future targets of threat actors: when, where
- Potential types of attacks



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**Prediction 4**  
*Al-Shabaab is likely to seize territory within the next one month.*

**Rationale:** Our predictive models indicate a 0.72 probability that Al-Shabaab will carry out a seizure of territory within the next one month if

- the group is receiving foreign aid,
- government forces are raiding militant facilities, and
- there are no communications discussing hostages.

**Historical Examples Validating This Rule:**  
On September 11, 2025, Al-Shabaab reportedly captured several villages in Somalia's Hiiraan region amid reduced government presence. While independent verification was limited, multiple local sources reported the withdrawal of government forces and the establishment of militant checkpoints. This aligns with Al-Shabaab's pattern of exploiting security vacuums following raids that temporarily displace state forces.

In this incident, the preconditions of the above TP rule were true one month earlier, as raids disrupted government control, no hostage-related messaging appeared, and external logistical support was reported.

**Prediction 5**  
*Al-Shabaab is likely to target civilians based on their profession within the next one month.*

**Rationale:** Our predictive models indicate an 0.85 probability that Al-Shabaab will target civilians based on their profession within the next one month if

- government forces raid militant facilities,
- there are no communications addressing the government, and
- no communications addressing other militant groups.

**Historical Examples Validating This Rule:**  
In August 2025, Al-Shabaab abducted livestock herders in the Hiiraan region following clashes with local militia. The victims were targeted specifically due to their occupational role and perceived cooperation

with rival actors. Such attacks demonstrate Al-Shabaab's systematic targeting of professions linked to local economies and security networks.

In this incident, the preconditions of the above TP rule were true one month earlier, as raids intensified, messaging narrowed, and no inter-group coordination was observed.

**Prediction 6**  
*Al-Shabaab is likely to target public transport within the next one month.*

**Rationale:** Our predictive models indicate a 0.73 probability that Al-Shabaab will target public transport within the next one month if

- government raids on militant facilities continue,
- the group does not use social media for communication, and
- the government is not reported as legitimately elected.

**Historical Examples Validating This Rule:**  
In January 2025, Al-Shabaab opened fire on a Southwest Special Police Forces officer traveling in a tuk-tuk in Diinsoor, Bay region, killing the officer and injuring others. Tuk-tuks are a primary form of civilian transport, and the attack reflects Al-Shabaab's use of everyday transit systems to carry out low-cost, high-visibility attacks.

In this incident, the preconditions of the above TP rule were true one month earlier, as raids continued, communication channels were restricted, and political legitimacy remained contested.

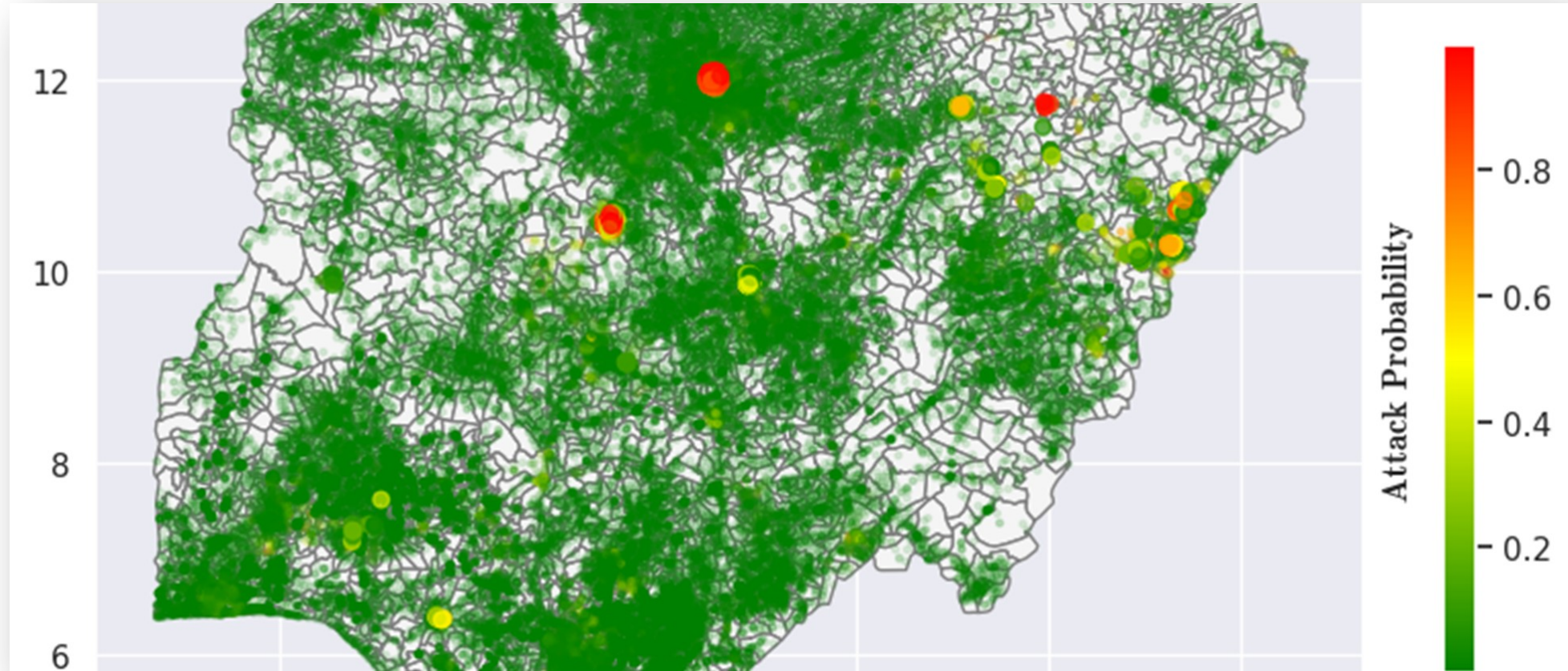
**Example from an NTEWS report**

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# REALTIME GEOSPATIAL RISK: SCHOOL ATTACKS BY BOKO HARAM

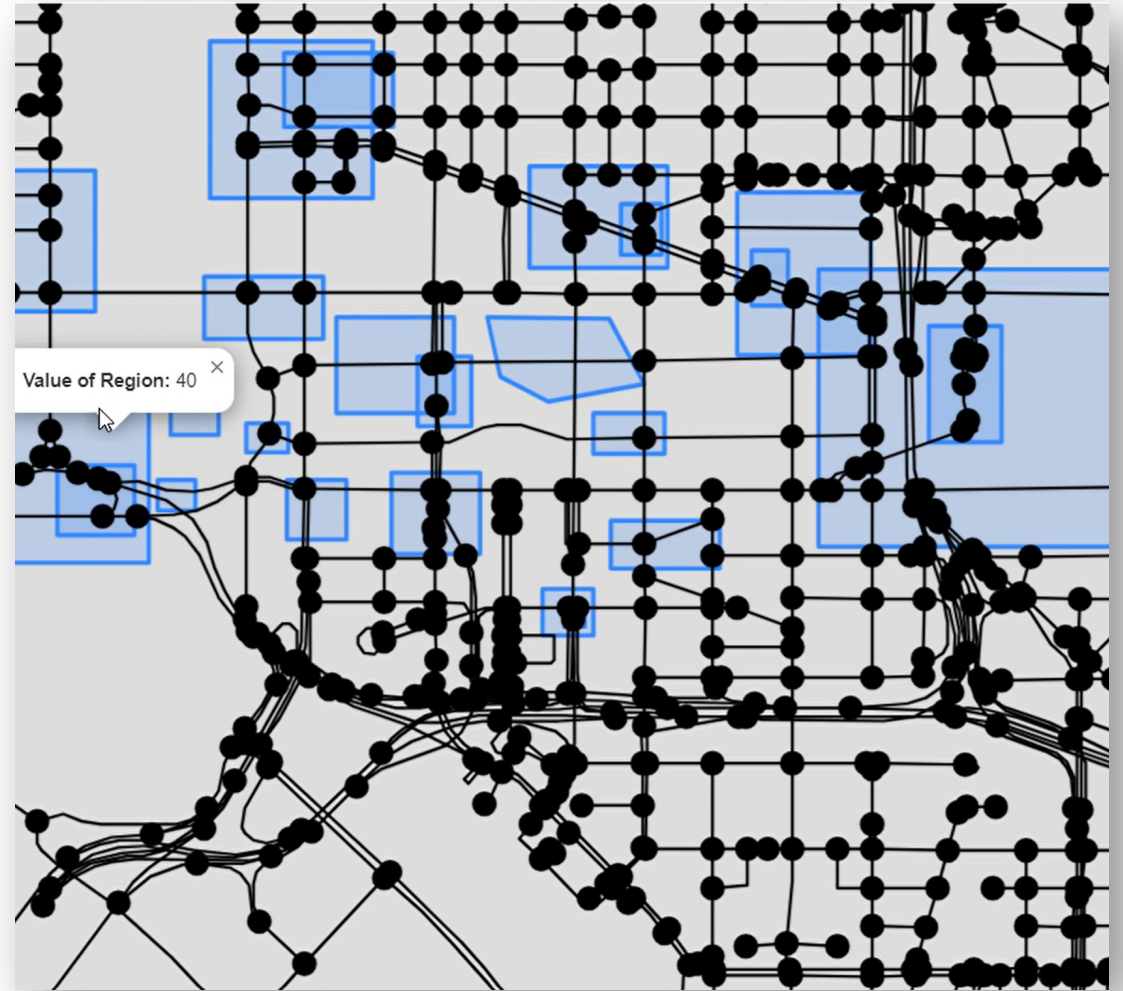


**Geospatial AI plays a central role in producing risk maps like these.**

# INTERCEPTOR DRONE BASED DEFENSE

- Interceptor drones can protect assets in
  - Air, land, sea, space
- Assets have multidimensional values
  - Tactical value, e.g., military HQ
  - Symbolic value, e.g., Parliament
  - Financial value, e.g. stock exchange
  - Catastrophic risk value, e.g. nuclear power plant

**Geospatial AI plays a central role in predicting the actions of threat actors and optimizing the defense.**

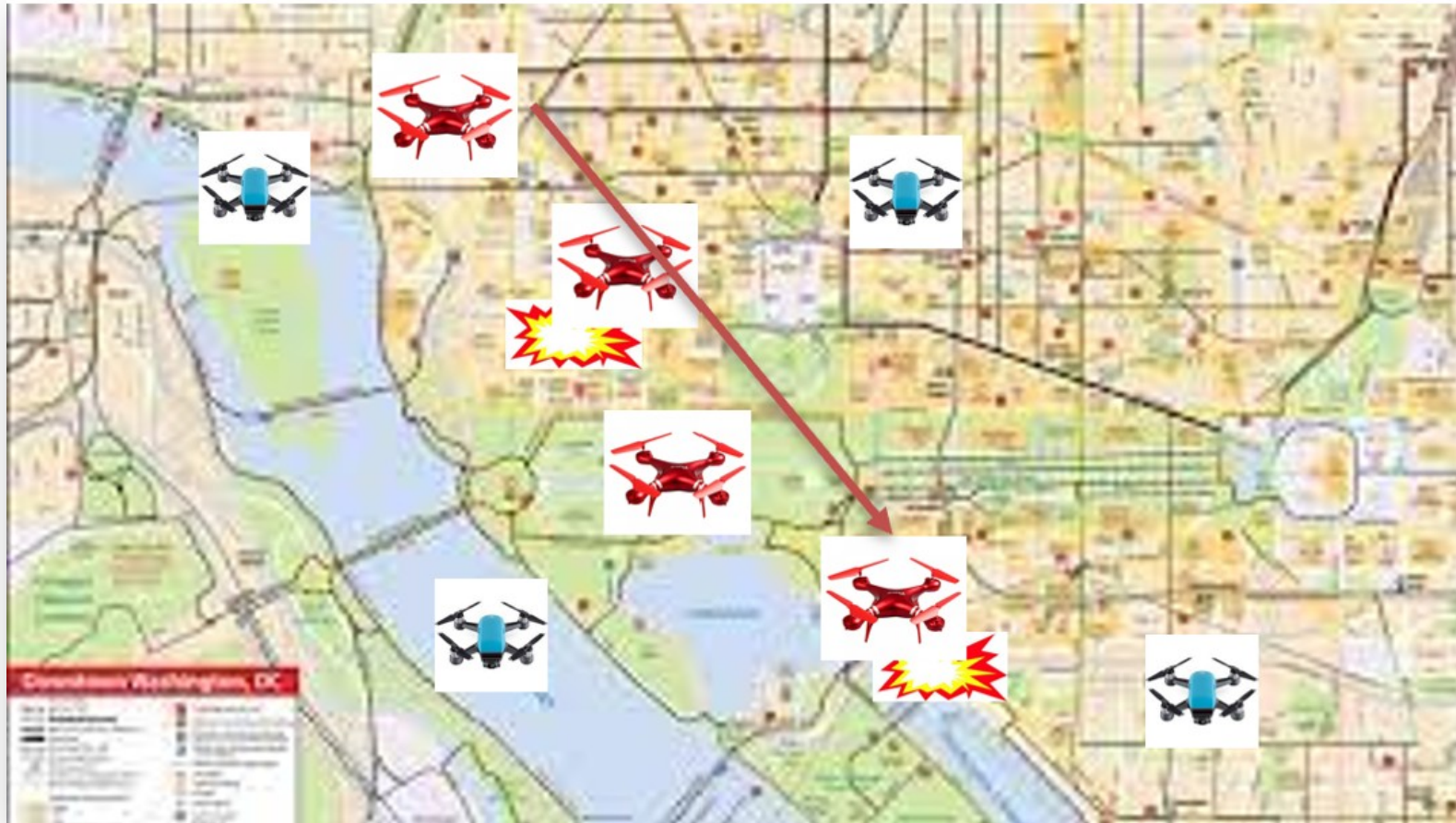


# INTERCEPTOR DRONE DEFENSE STRATEGY



**Given a picture like this, where should the BLUE interceptors go next?**

# ATTACKER STRATEGY



**Given a picture like this, what will RED do next? Where to move?  
Where to drop munitions?**

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