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- Organizations: Oracle National Security Group and VRICON LLC

- Lead Investigator: Dan Johnson, Oracle NSG

- Current Team Members
  - Barry Tilton, VRICON
  - Isaac Zaworski, VRICON

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Research Area of Interest

Oracle National Security Group and VRICON seek to:

- Demonstrate multi INT exploitation on tactical airborne platform to detect, identify, and characterize changes to highways, buildings and sensitive sites with precision accuracy in NRT

- Integrate tactical store and compute nodes integrated to Oracle Cloud Infrastructure with commercially viable industry partners to distribute operational operationally relevant context

- Use Relevant Sources: Theater ISR, national, and commercial imagery coupled with social media

End State:

- Develop ML tools that generate change detection, precision coordinates, 3-D models for characterization, and bi –directional information/intelligence sharing

- Leverage Theater ISR to integrate, process and distribute onboard high-definition full motion video (FMV), static optical sensors, and Radio Frequency (RF) data as layered 3-D model delivered in near real-time (NRT) for site characterization

- Leverage Oracle onboard tactical compute and storage, we will prove the ability to conduct streaming tactical 3-D overlay on existing foundational 3-D products at extreme ranges for dissemination in NRT.
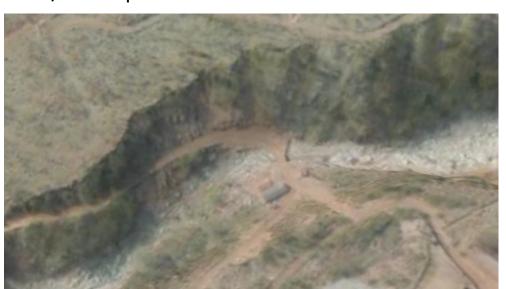
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- Unique Qualifications and Capabilities--provide a new approach for a global broad area search capability to detect newly constructed buildings and bridges—support both IC and Federal Interagency Partners
  - Data management
  - Cross Domain Solution
  - Streaming analytics
  - Supply chain security
  - HPC & AI/ML
- Pilot/Demo Oracles Cloud Infrastructure w/ a complete stack on a real world "use" case
  - Mission planning and rehearsal
  - High-resolution situational awareness
  - Geo-referencing of sensor data
  - 3D GEOINT foundation at a global scale
  - Realistic visualization of the battle space
  - Global targeting grid
  - GPS denied navigation
  - Change detection in 3D
  - 3D Storytelling

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- Partnership Sought:
  - Oracle and VRICON seek to partner with NASA, IC, and Federal Interagency partners on solving information gaps concerning warning scenarios for detection, identification, and characterization as well as consequence management solutions for Humanitarian Assistance and/or Disaster Relief and Environmental trends

Contact Information

Your Logo Here

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