

Good Morning  
Amsterdam  
Good Morning  
Geospatial World



Ali Alshehhi  
United Arab Emirates

# Defence & Internal Security



The Rise of Data Platforms & Fusion for Defence Intelligence



SAR for Defence and Security Applications



Real-Time Situational Awareness with EO & GD



Research & Innovation in Defence & Internal Sec.



# Data Platforms & Fusion for Defence Intelligence

- Huge amounts of geospatial data
- challenges to properly store, process, disseminate and analyse these big data sets
- Cloud computing and cutting-edge platforms
- Data fusion integrates multiple data sources to produce more consistent, accurate, and useful intel.
- Recent adoption of Technology by Défense and Intelligence Agencies open tremendous developmental opportunities to industry and research organizations.
- This necessitates working of government, academia, and industry partners closely to develop the next generation of advanced data fusion solutions



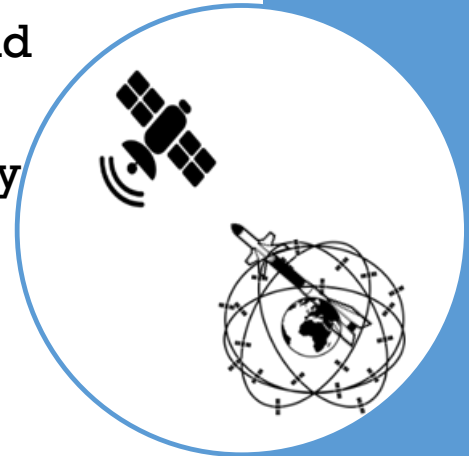
# SAR for Defence and Security Applications

- Advances in (SAR) technology with smaller SAR satellite Constellations opened enormous applications in Defence and Security areas
- (SAR) data contains a wealth of information, but it is not easy to visually interpret
- processing and analysis techniques to quickly and accurately extract actionable intelligence. (amplitude and coherent change detection, time series analysis, advanced differential interferometry, ship and automated target detection, and moving target detection)
- these techniques can provide intelligence that is often impossible to obtain with optical data.



# Enhancing Real-Time Situational Awareness with EO & GD

- The global and diverse nature of threats to our security
- The end-to-end approach of the TPED (Tasking, Processing, Exploitation and Dissemination) cycle, provides an agile and responsive service to the Security and Intelligence sectors
- ability to simultaneously integrate, analyse, and display streaming data from many sensors, devices, and social media feeds.
- High-performance systems: quality, availability , agility , coverage, capacity
- Global capacity trade with commercial operators to increase regional revisit
- Overall cost-effective partnership
- Revenue stream that can defray much of the investment



# Research & Innovation in Defence & Internal Security

- Accelerating the adoption of commercial technology
- Expanding Geospatial Through Innovation
- Partnering with the industry and Sharing
- investing in the human capital to fuel the future.
- Next NGA West, St. L is becoming a major hub for GEOINT activity and investment (\$1.7 billion)
- What are the strategies, capabilities, and partnerships we need to be safer, resilient and even better prepared??



- The world is not perfect ,Be comfortable with being uncomfortable
- When I started in this industry, I had no knowledge of Satellites and geospatial
- but I had confidence in the skills I had built over the years , and kept building more and more everyday
- **Keep connecting and Enjoy GWF ,Enjoy Amsterdam**

