# **MAXAR**

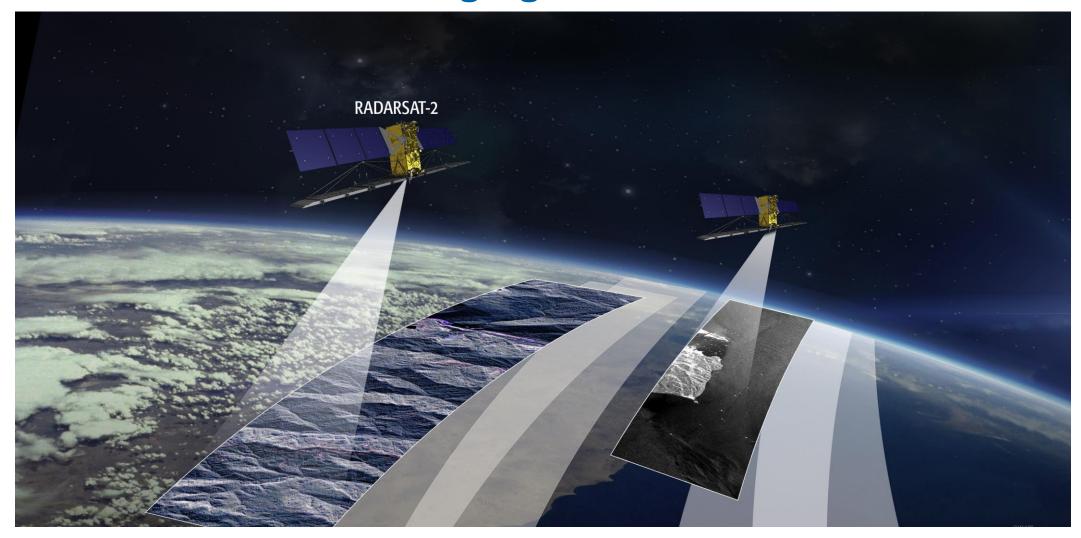
**RADARSAT-2 and RADARSAT-2 Capabilities** 

### **Outline**

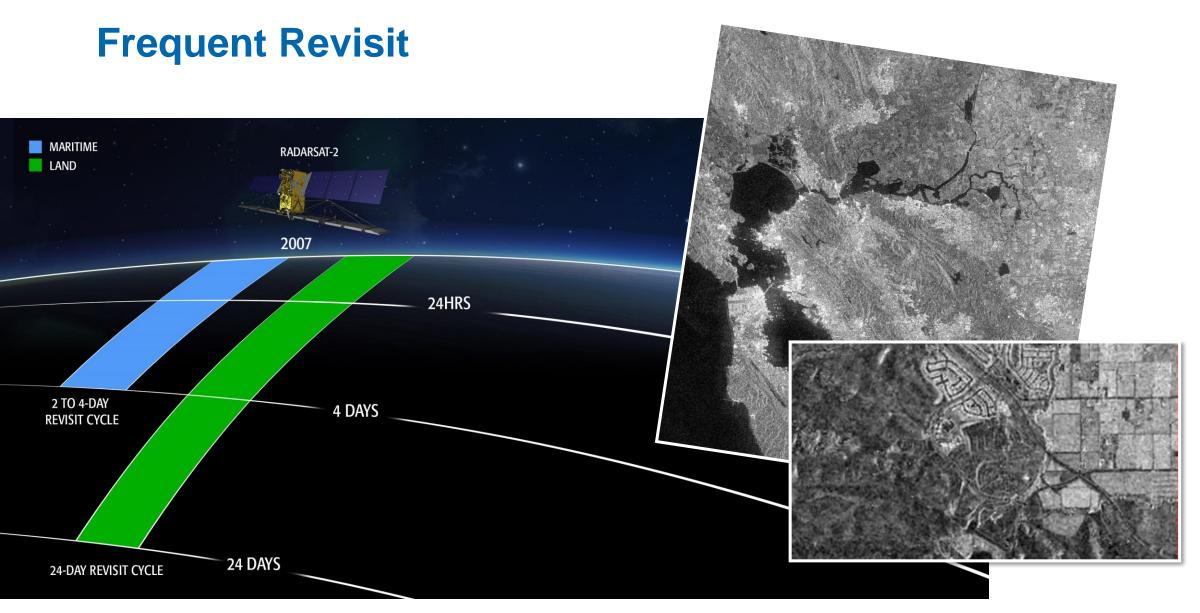
- RADARSAT-2 As An Enabling Technology
- Operational Radar Capabilities & User Stories



# Reliable Broad Area Imaging



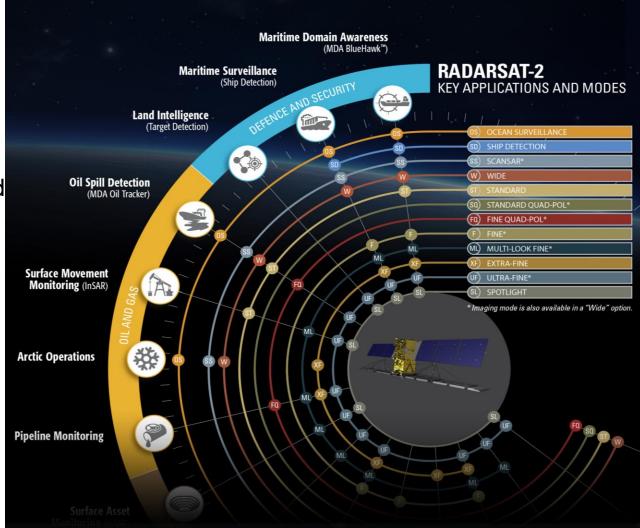






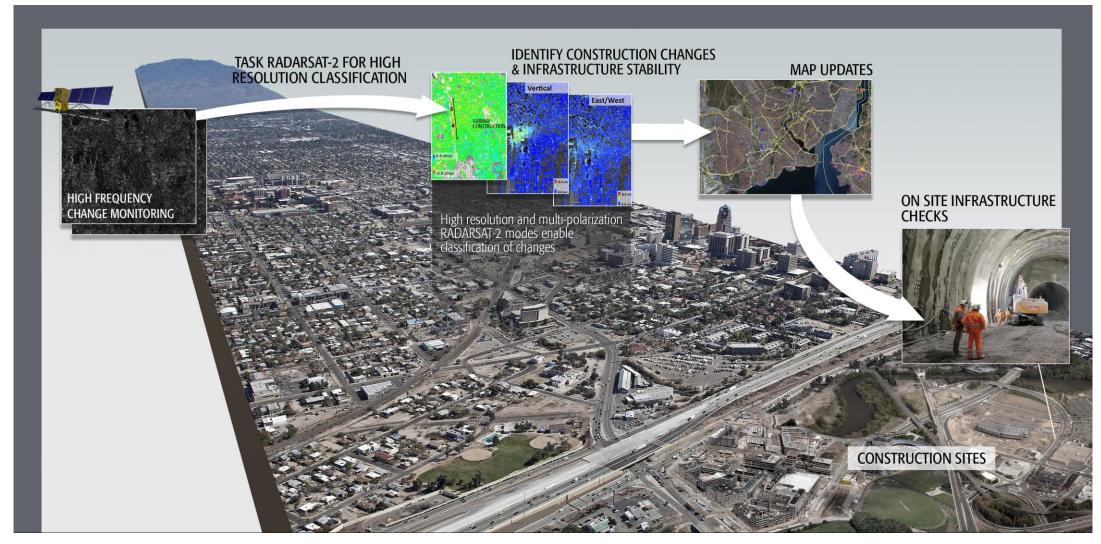
## **Superior Sensor Versatility**

- Programmable sensor enables superior imaging flexibility (20 imaging modes)
- Imaging modes tailored to specific wide area and target monitoring
- Unparalleled radar expertise to tailor & automate solutions



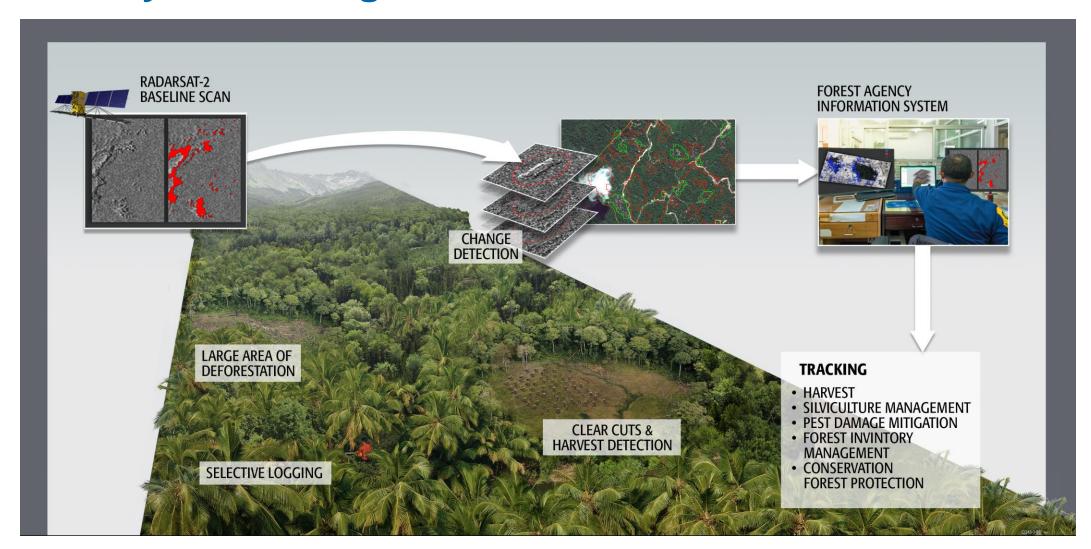


## **Urban infrastructure monitoring**

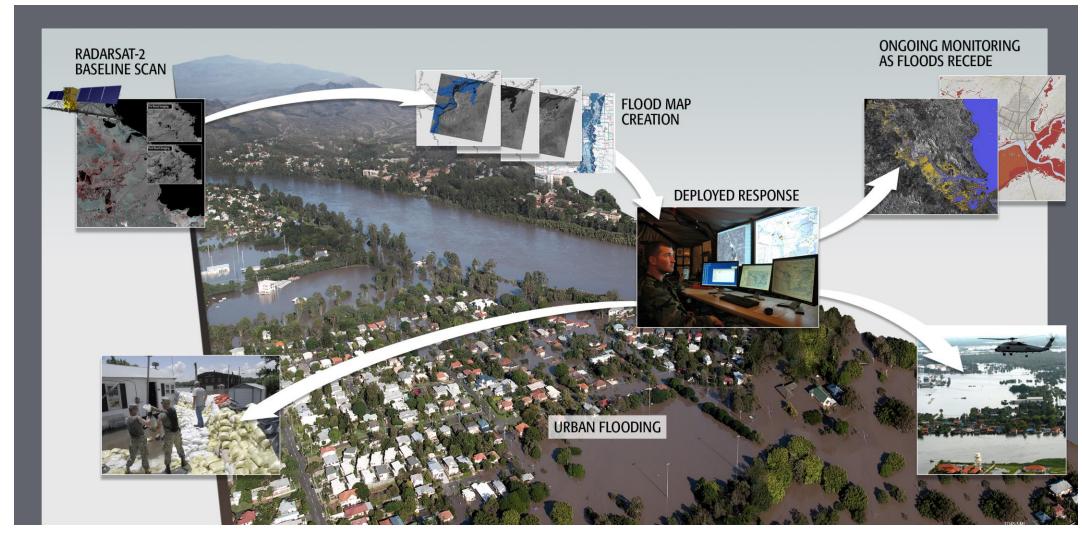




## **Forestry Monitoring**

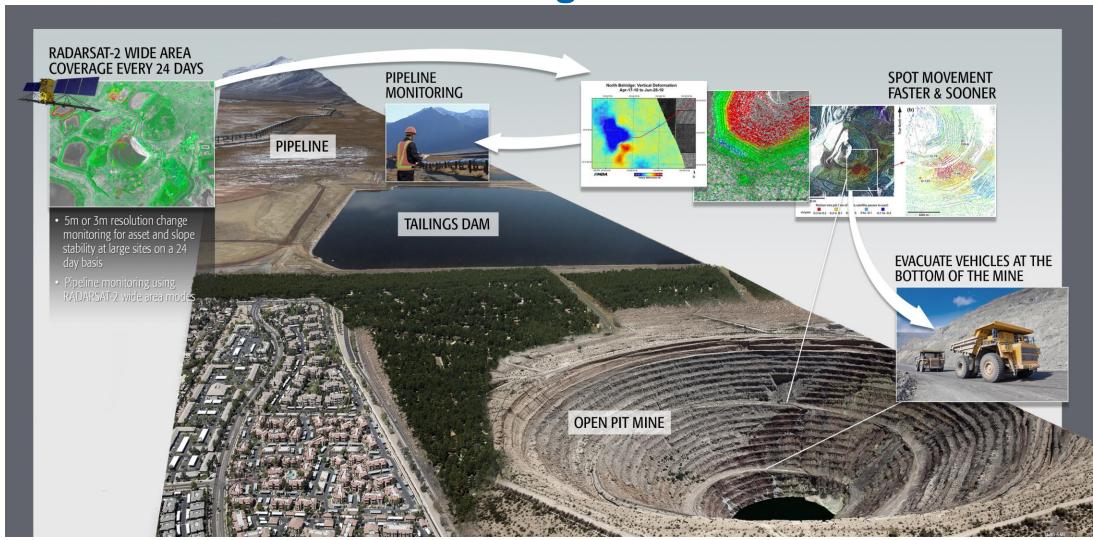


# **Disaster Monitoring**



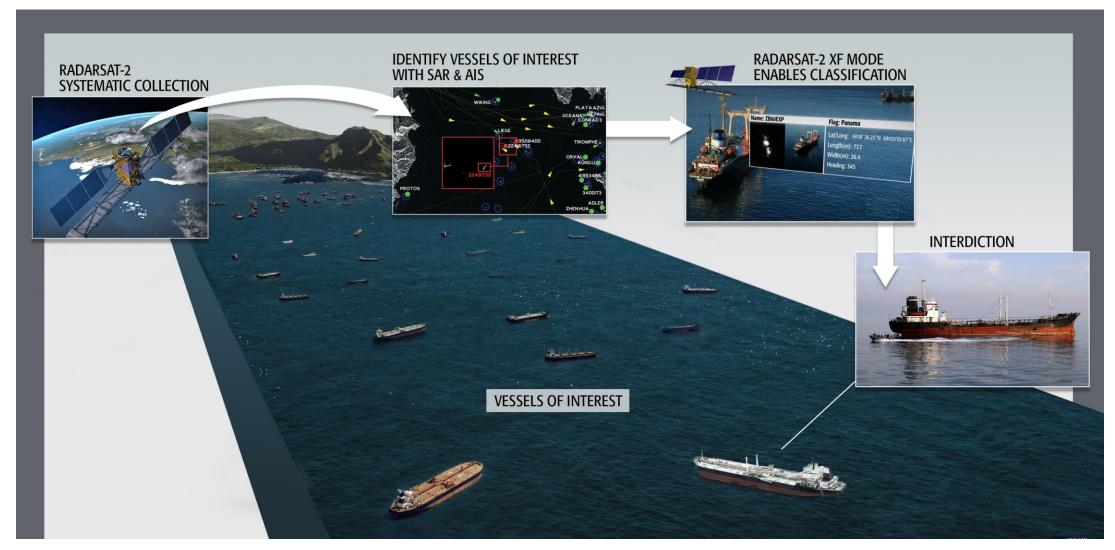


# **Surface Movement Monitoring**



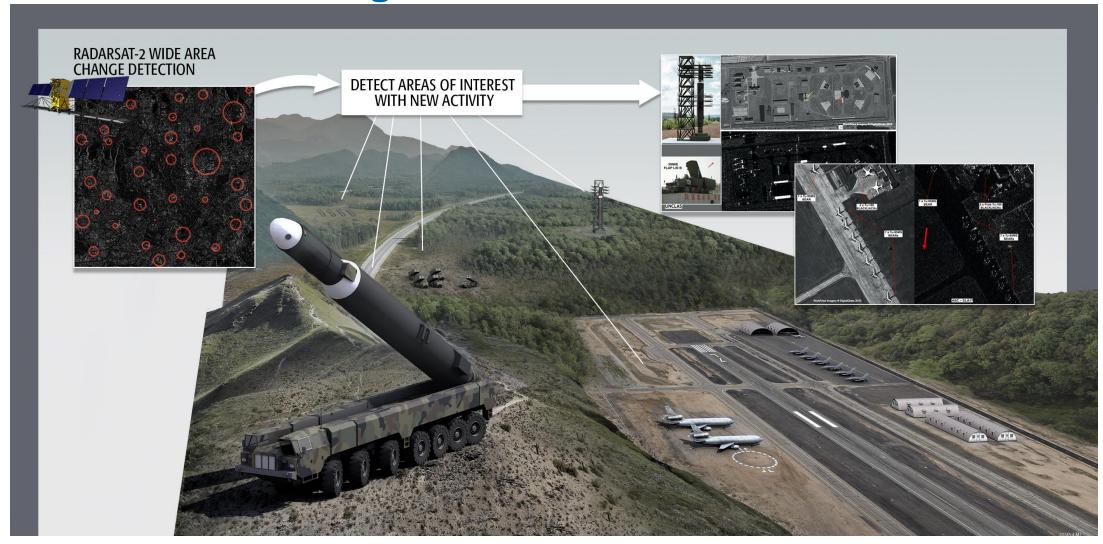


### **Maritime Domain Awareness**



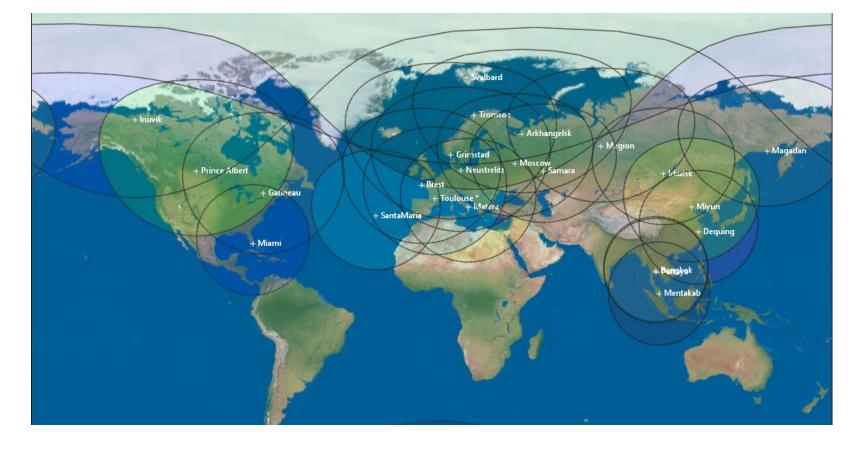


# **Defence And Intelligence**



## **Our Network Enables Near Real-time Operations**

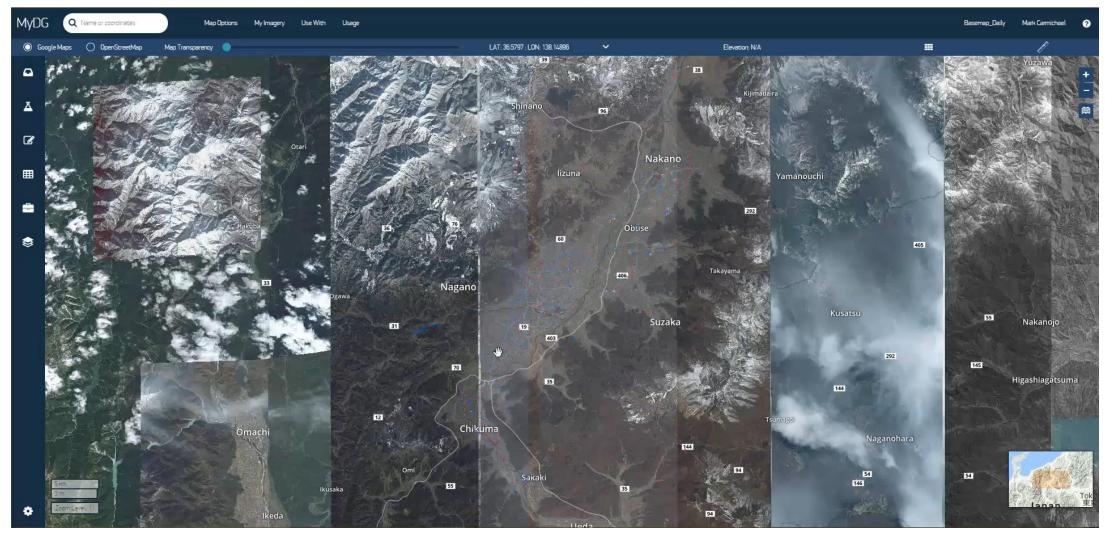
- Near Real-Time Monitoring & Tracking
- Seamless Delivery
- Anywhere...





**Operational Radar Capabilities and User Stories** 

# **Urban Change Monitoring – Nagano, Japan**



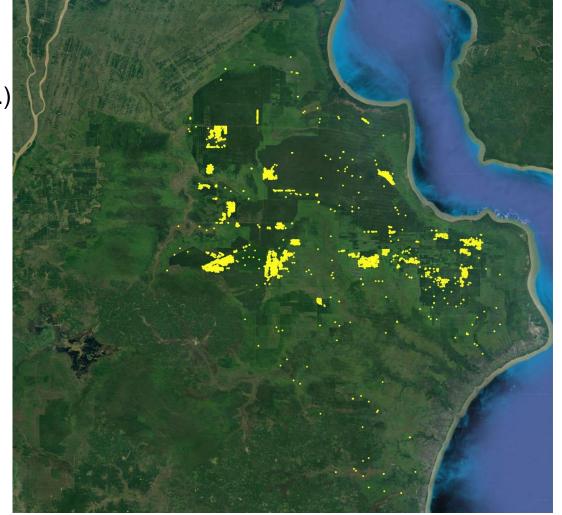


# **Forestry Monitoring**

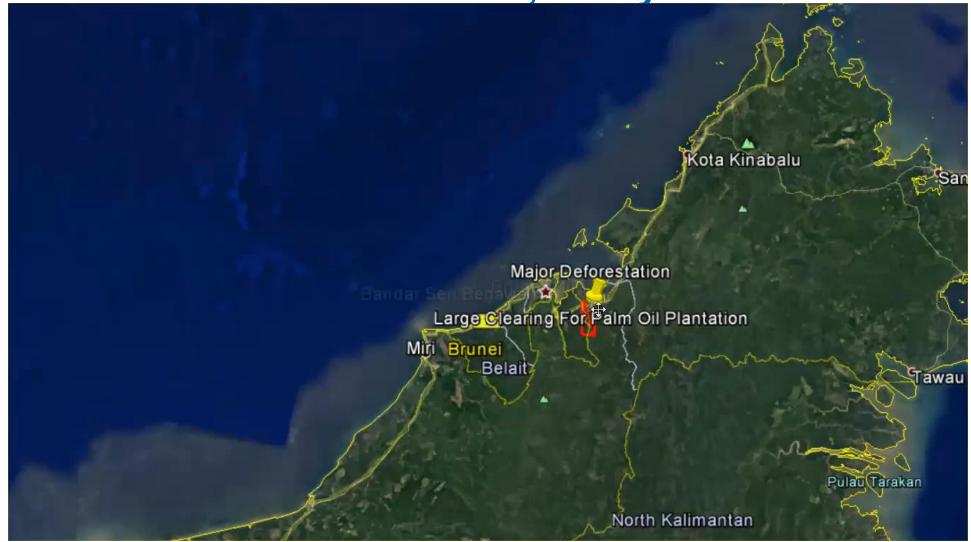
- Harvest tracking
- Silviculture Management (seed tree blown down, etc.)
- Pest Damage Mitigation
- Human activity monitoring over protected forest
- Plantation age group management

Conservation area management





Forest Alert Service - Sarawak, Malaysia



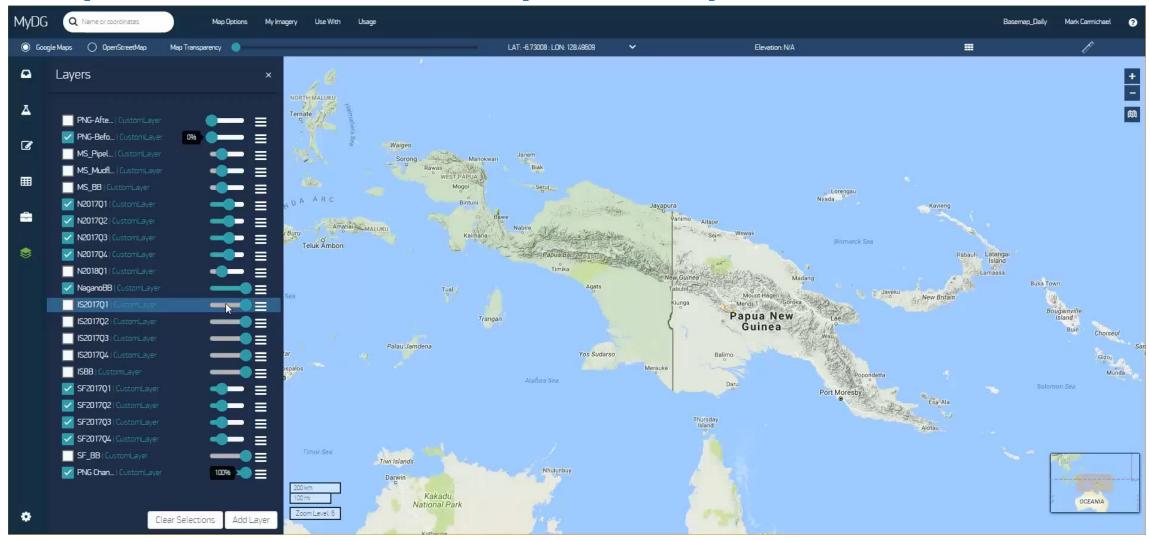


# Papua New Guinea Earthquake Response February 26, 2018

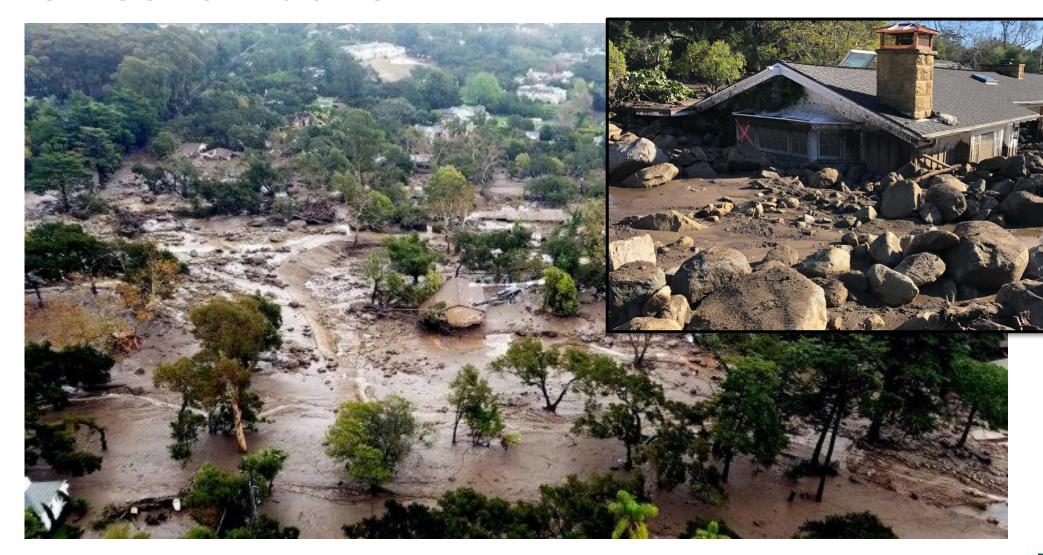




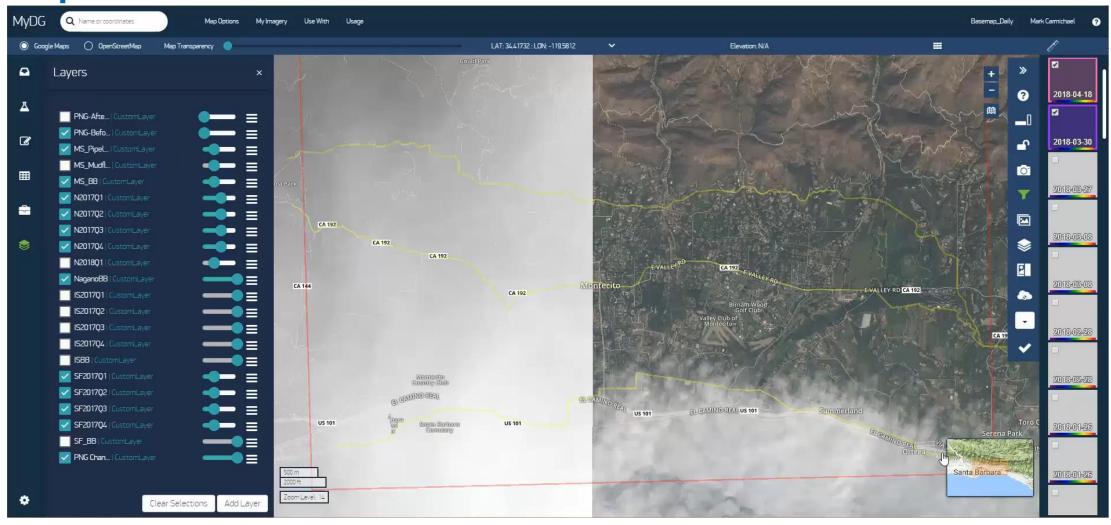
## Papua New Guinea Earthquake Response



# **Montecito Mudflow**



# Montecito Mud Slide Impacting Communities & Pipelines





# **Oil Supply Monitoring**

SLA25-30 Aug 09--Asc

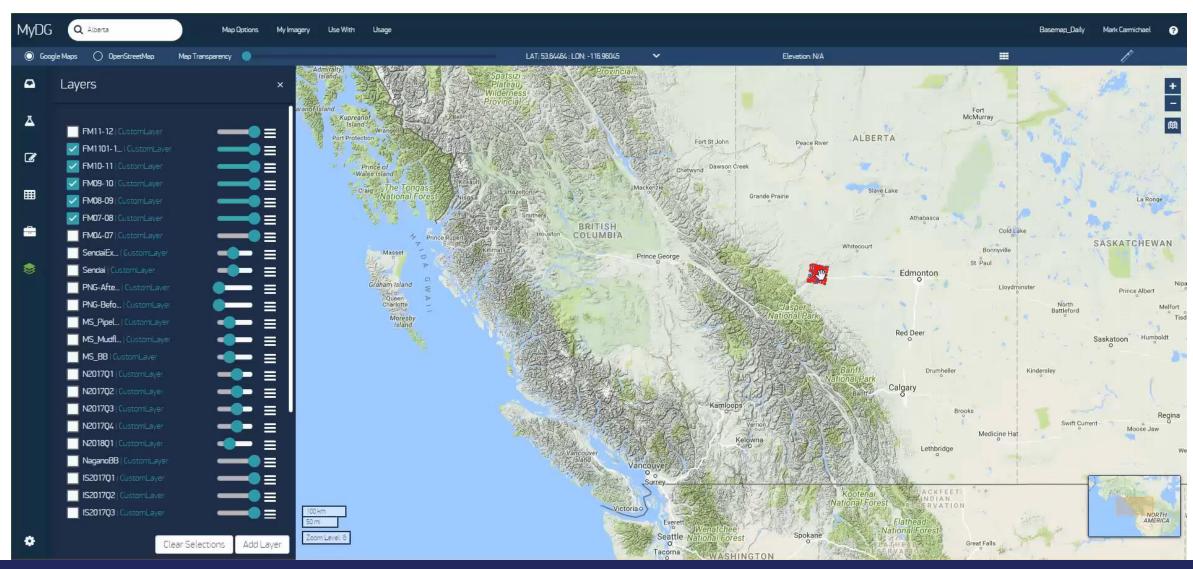
Huangdao Port, China June 25, 2017

# **Detect Fracking Activities Over Large Areas**

- Know Production Metrics Sooner
- Reliable Weekly Collections & Reporting
- Detection of Activity and Confirmation With VHR Optical



### FRACKING ACTIVITY MONITORING



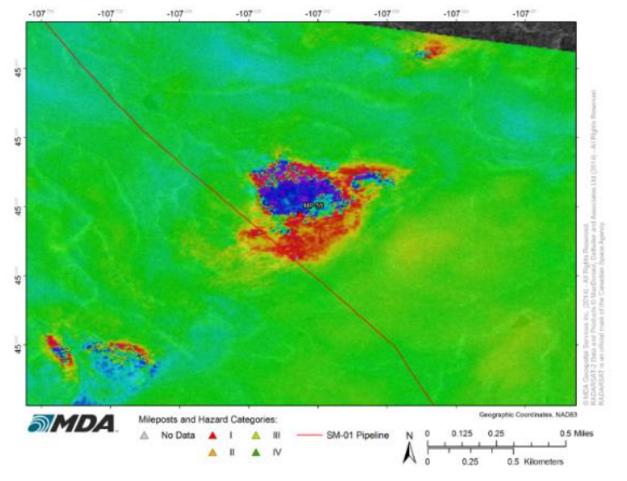




# **Pipeline Asset Monitoring**

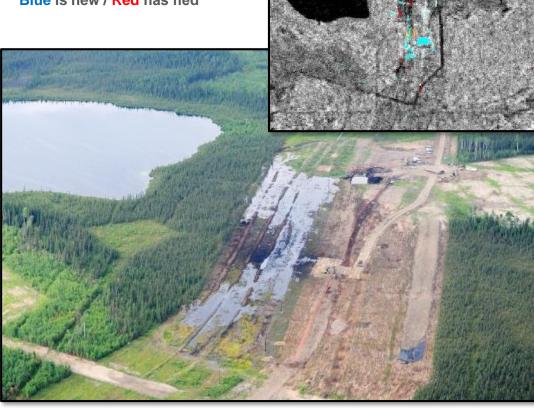
#### **Pipeline Stability Monitoring:**

Unstable ground below and near a pipeline corridor is a known cause of pipeline incidents.

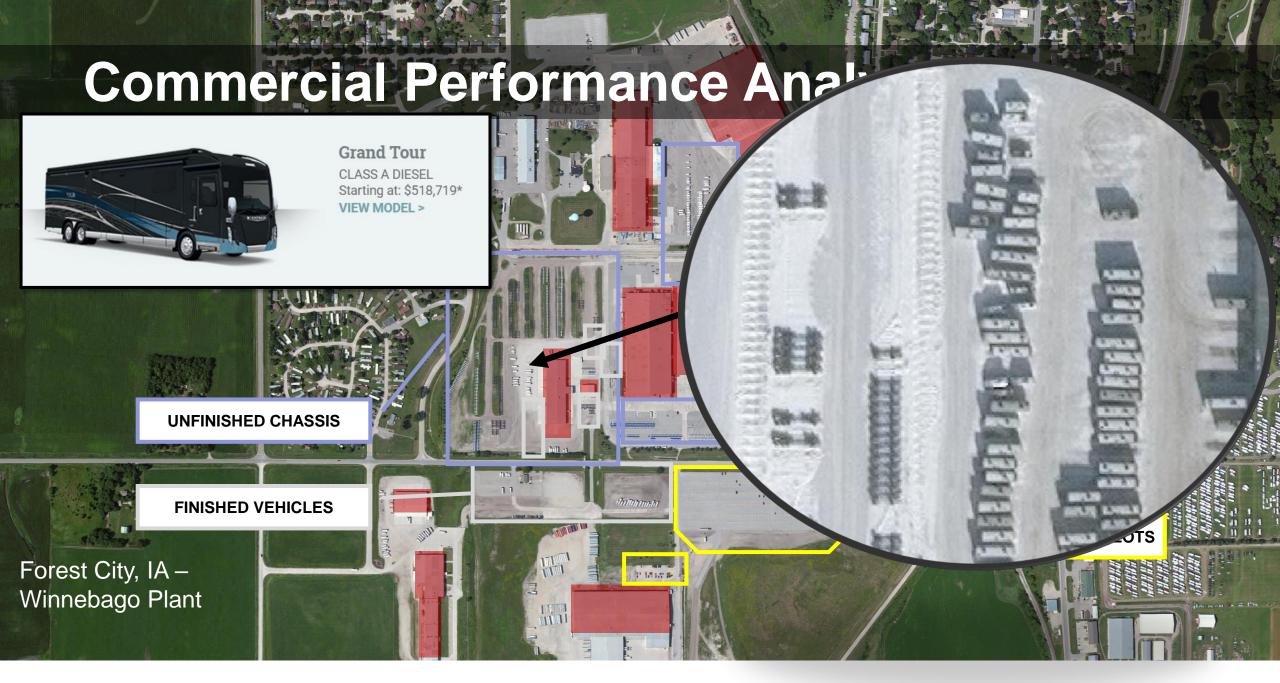


Encroachment Monitoring:
Change Detection product
with oil spill and activity on
ROW detected

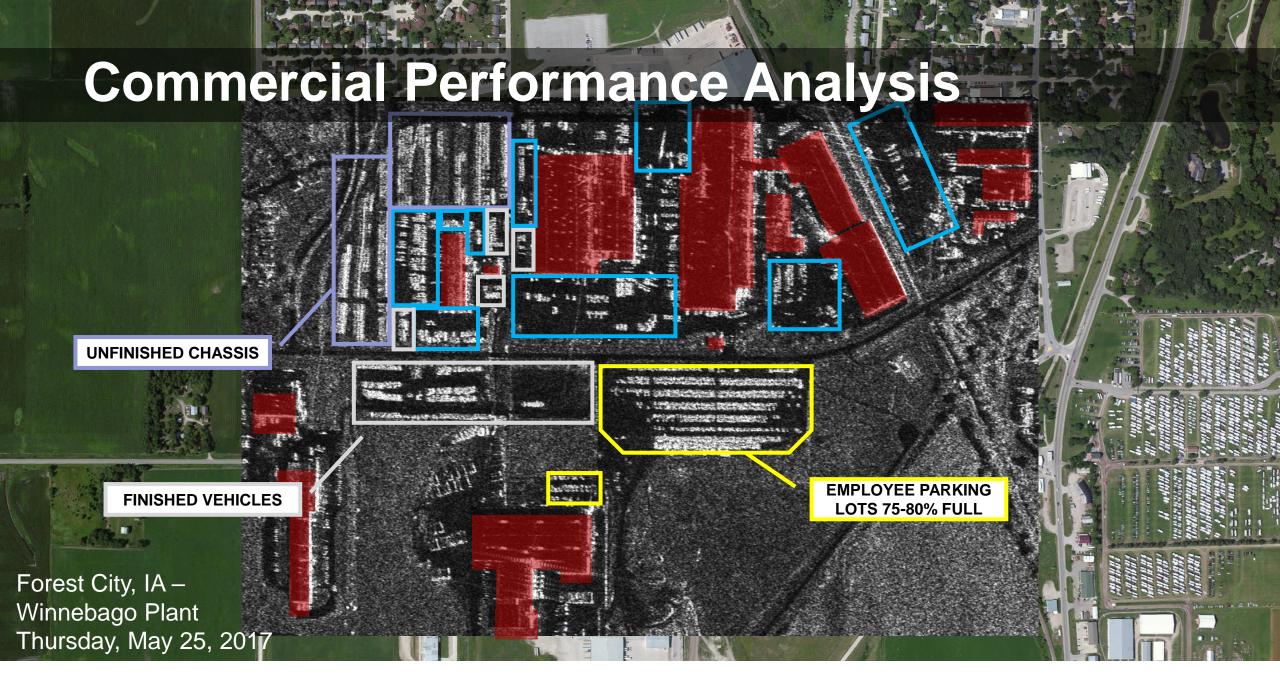
"Blue is new / Red has fled"

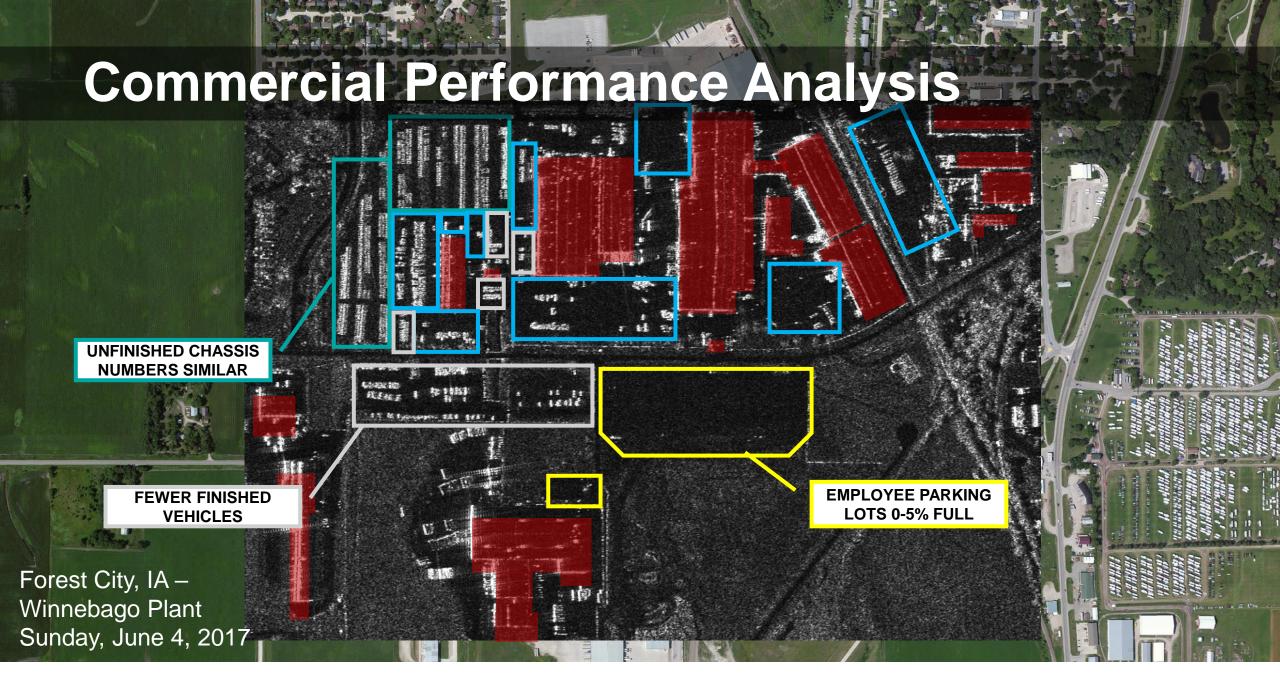












## Radar for Oil & Gas + Mining Production Monitoring

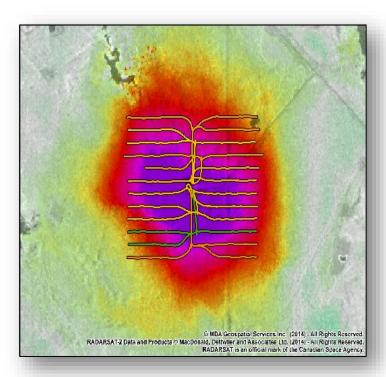
#### **Mine Stability**

Improve safety of mining operations, abandoned mines, open pits, underground mining, and tailings dams.



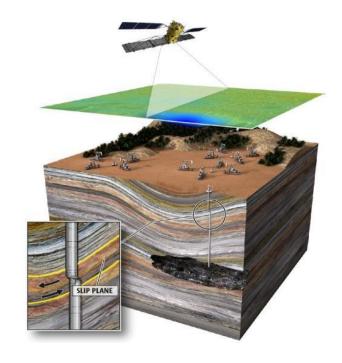
### **Enhanced Oil Recovery**

InSAR results used to compare behaviour with reservoir engineering models.



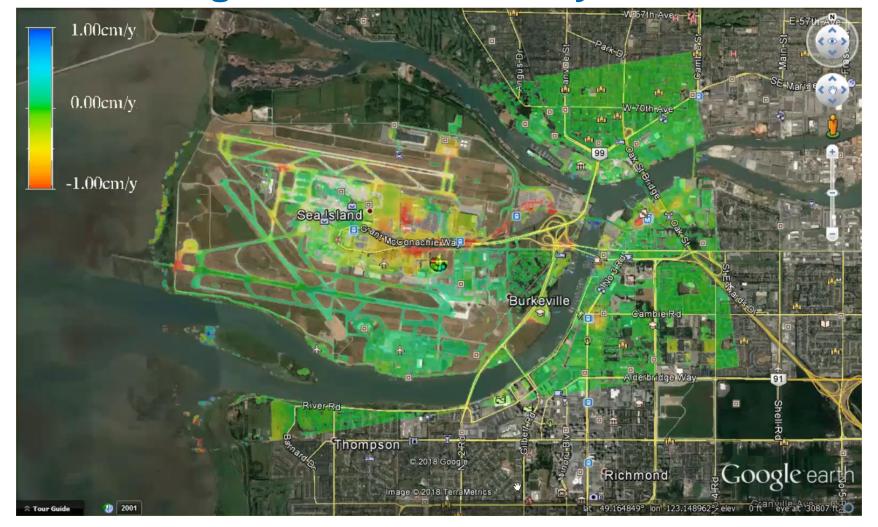
#### **Asset Protection**

Customers in California were able to significantly minimize damage to well pipes caused by ground movement.





# **InSAR Monitoring For Asset Security**



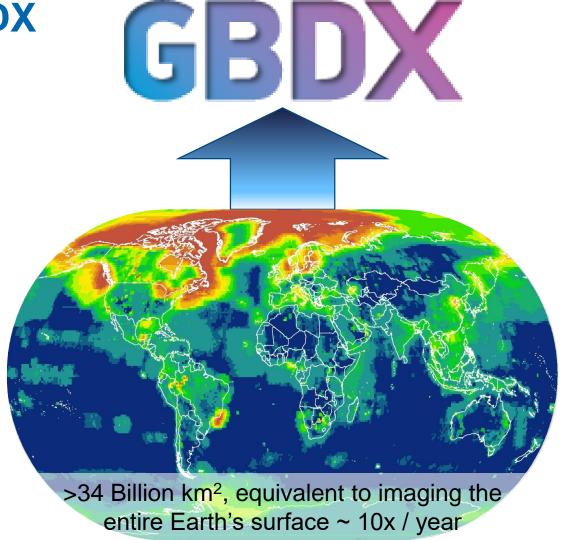
# **InSAR Monitoring For Asset Security**



### **RADARSAT-2 Available in GBDX**

RADARSAT-2 imagery in the cloud enables:

- At scale computing for machine learning, large area change monitoring and more
- Streamlined image delivery & access





# MAXAR

MAXAR.COM