

Space for National Development Space and the 4IR





How are 4IR technologies being up taken and impacting the space industry (SME) in advancing the delivery of innovation and timely products and services?

Growing pains

- SME's in the space sector founded and operated by experienced persons previously from industry and
- New entrants
- Disruptive technology
- Require upskilling and relearning
- Funding

Opportunities

- Competitive due to lower overheads
- Increased degree of automation
- Introduction of AI, deep learning, etc.
- Cloud based solutions
- Extent position on the value chain
- Long term project engagement
- De-risking
- International engagements



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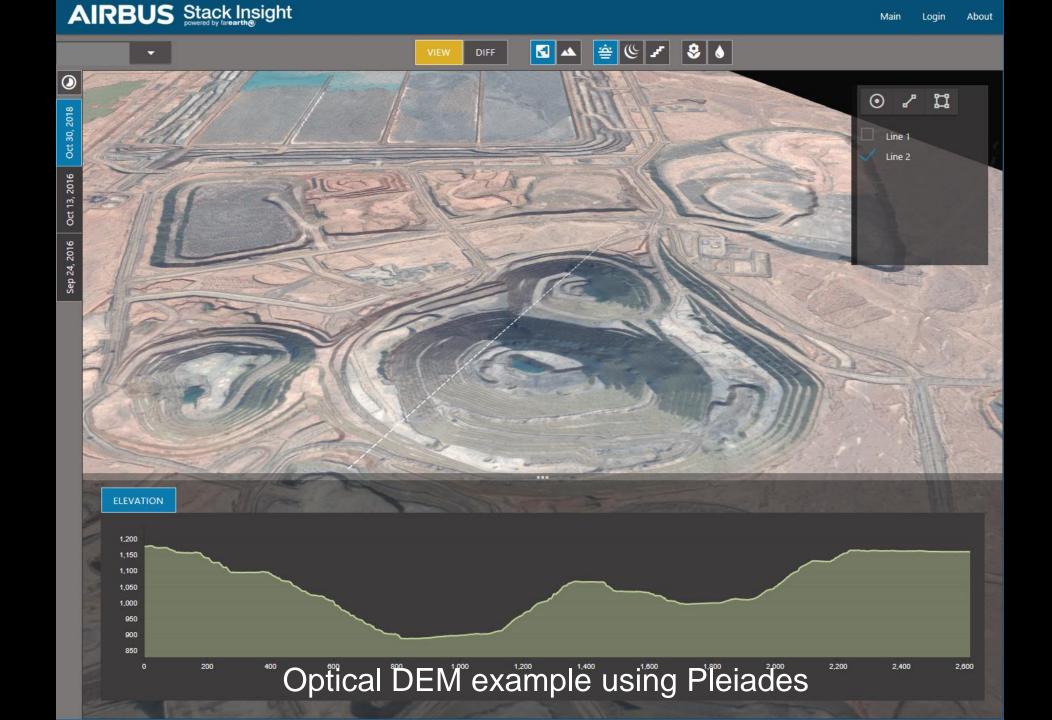


Real-time Fire Warnings

Landsat fire front images using early detection and warnings from FarEarth Realtime chain

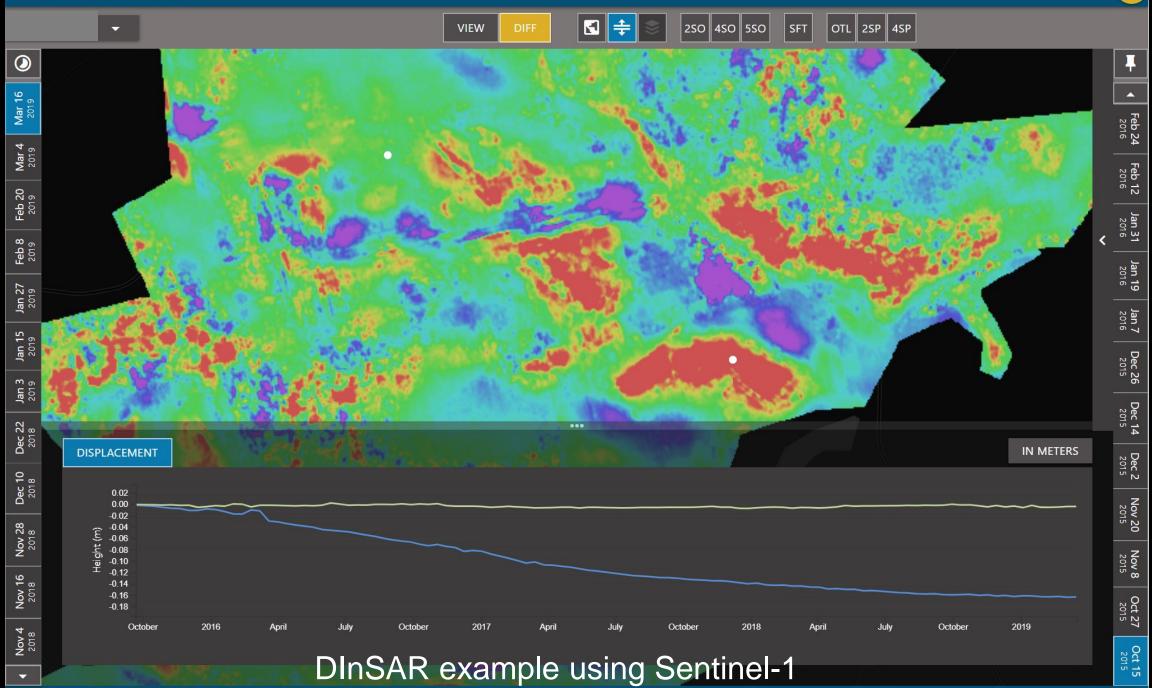


Results (7 of 7)



AIRBUS Stack Insight



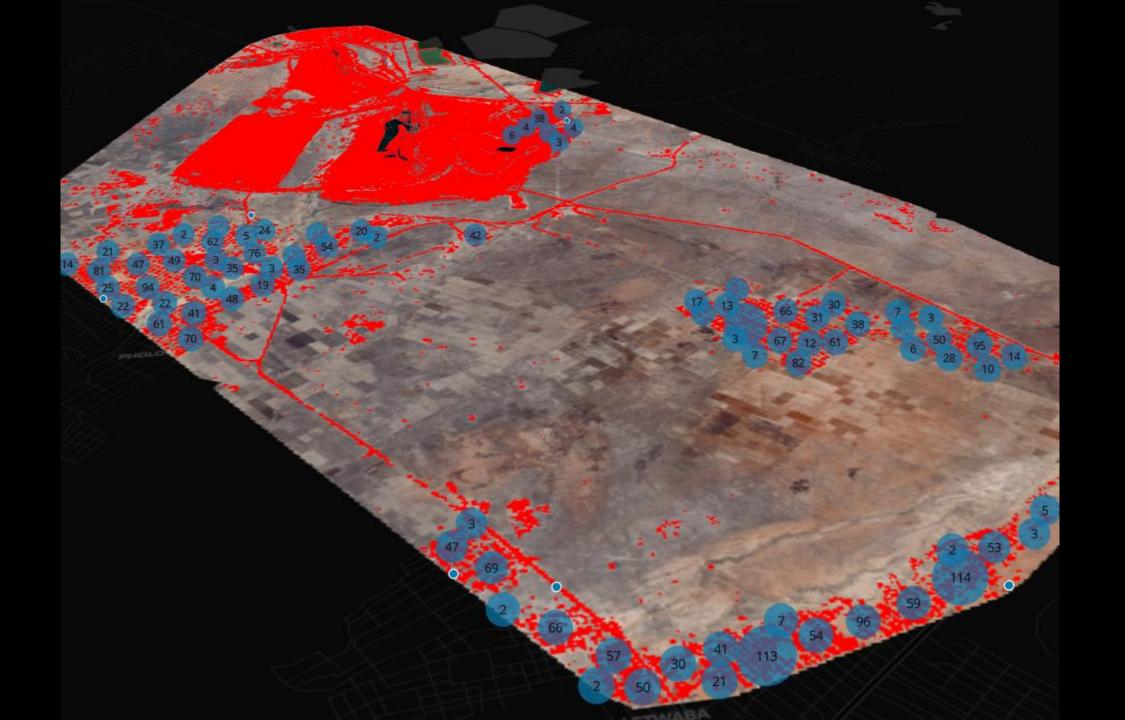


Artificial Intelligence Applications

- Building/structure detection & classification
- Corridor monitoring & encroachment detection
- Vehicle detection & counting (e.g. cars, planes, ships)
- Semantic change detection (what kind of change)









Dwelling detection



Dwelling count



Dwelling count change over time

Up Take Benefits

- Every question is a chance for innovation
- New niches and markets evolving
- Better handle on timely delivery of product and service
- Increased collaboration

"If you want to go fast, go alone. If you want to go far, go together"

- African Proverb

