

VH-RODA 2023 Workshop
27 – 30 November 2023 | ESA – ESRIN | Frascati (RM),
Italy

Agency Preferred Cal/Val Site List
Cody Anderson, USGS

CEOS Working Group on Calibration & Validation (WGCV) vice-chair

JACIE Lead

VH-RODA Affiliate

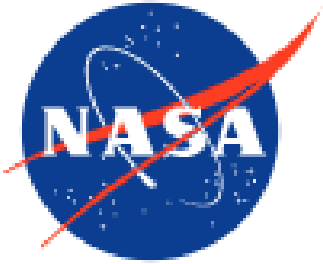


• Outline

- JACIE/VH-RODA Actions and Goals
- Radiometric Sites
- Spatial Sites
- Questions for the Audience



• JACIE Partner Agencies



• VH-RODA Agency





• JACIE/VH-RODA Actions

- Common Cal/Val Evaluation Sites
- Common data pool for commercial imagery over evaluation sites
- Database of high-res Ground Control Points (GCPs) and Digital Elevation Models (DEMs)
 - See Talk: GCPIX: a Proposal to Orchestrate GCP (Ground Control Point) Collection for Global Satellite Earth Observation

• Goals

- Coordinate/simplify requests to Commercial Vendors
- Limited Cal/Val Site list to reduce impact to Commercial Vendors
- Enable quicker assessments

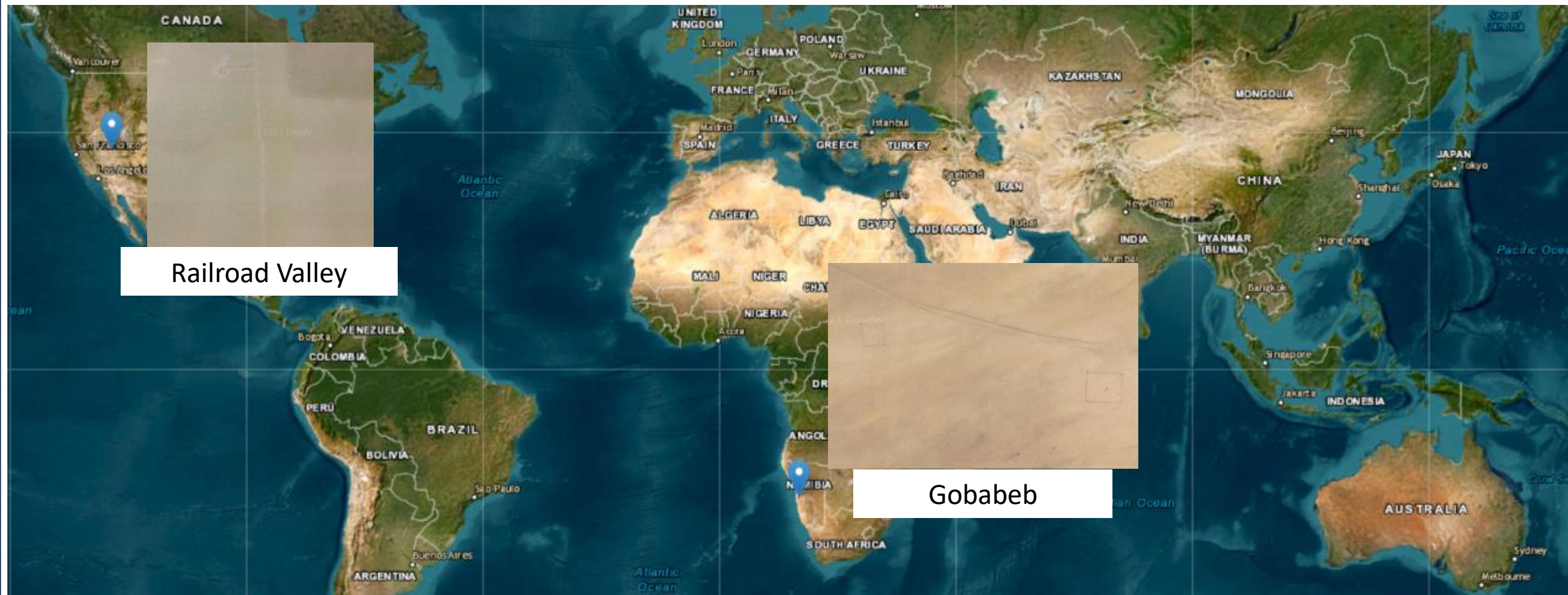


Radiometric Sites

| Site Name | Center Latitude | Center Longitude |
|--|-----------------|------------------|
| Instrumented Sites | | |
| Railroad Valley | +38.50 | -115.69 |
| Gobabeb | -23.60 | +15.12 |
| Lake Tahoe (Thermal) | +39.10 | -120.03 |
| Pseudo-Invariant Calibration Sites (PICS) | | |
| Libya 4 | +28.55 | +23.39 |
| Libya 1 | +24.42 | +13.35 |
| Algeria 3 | +30.32 | +7.66 |



Radiometric Sites – Instrumented - Reflective



Railroad Valley

Gobabeb

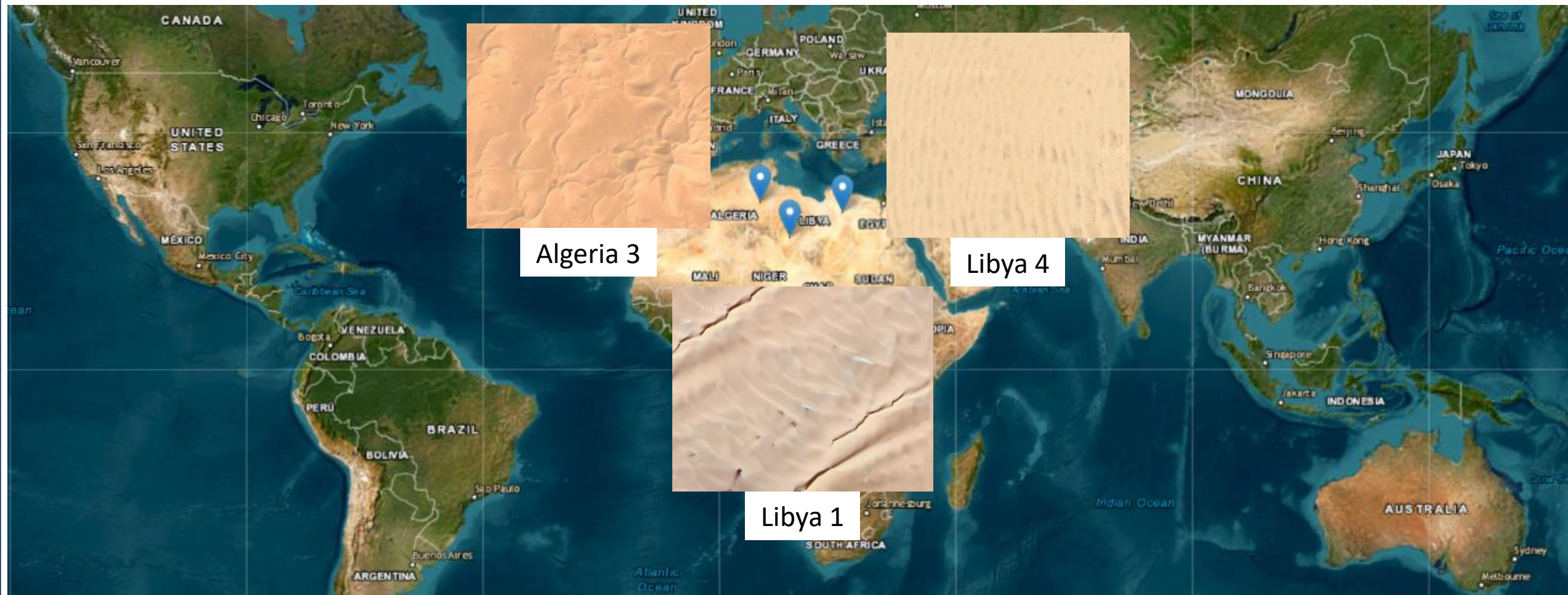


Radiometric Sites – Instrumented - Thermal





Radiometric Sites – PICS



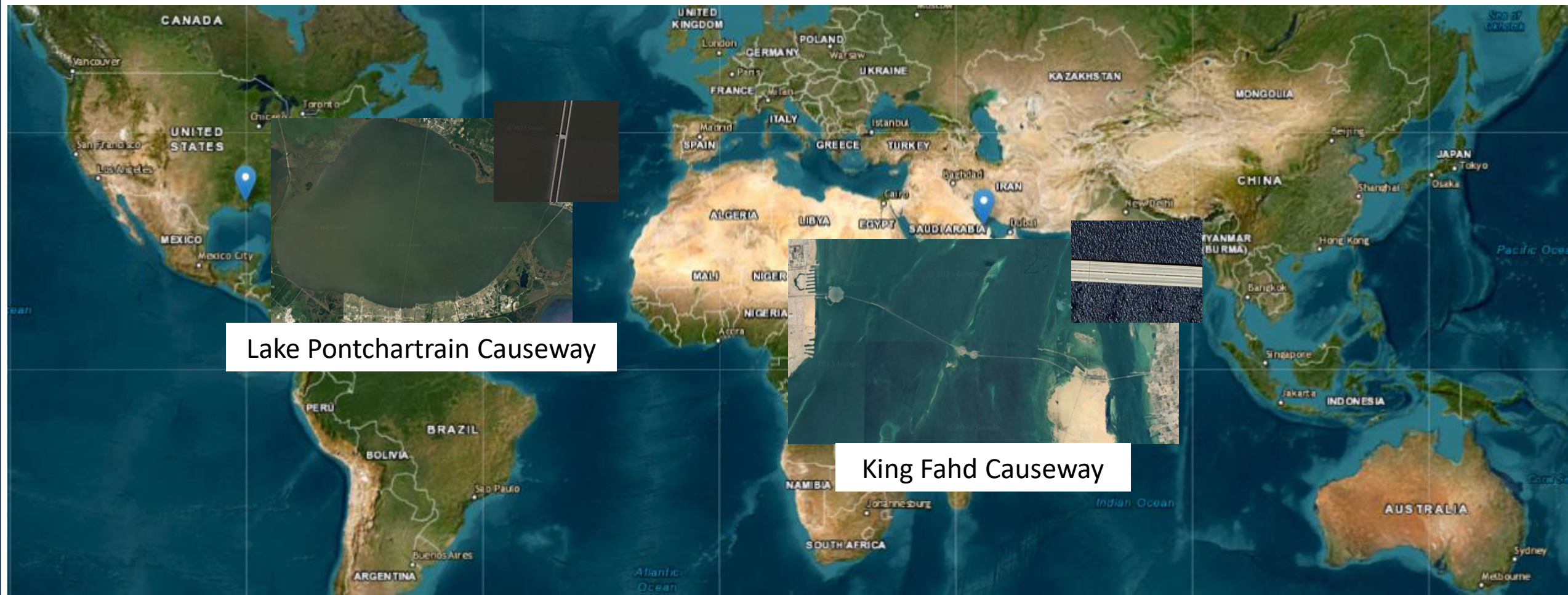


Spatial Sites

| Site Name | Center Latitude | Center Longitude |
|-----------------------------|-----------------|------------------|
| Medium Resolution | | |
| King Fahd Causeway | +26.20 | +50.34 |
| Lake Pontchartrain Causeway | +30.21 | -90.12 |
| High Resolution | | |
| Baotou Target | +40.85 | +109.63 |
| ISRO NRSC Target | +17.03 | +78.18 |



Spatial Sites – Medium Resolution



Lake Pontchartrain Causeway

King Fahd Causeway



Spatial Sites – High Resolution



ISRO NRSC Target



Baotou Target



• Questions for the Audience

- Are Commercial Entities open to delivering data over the selected Cal/Val for free?
- Are Commercial Entities open to providing their data publicly/openly over the selected Cal/Val sites?
- How would Commercial Entities prefer to engage with in-development products over the selected Cal/Val sites?