



FIG Working Week 2024

19-24 May

Accra, Ghana

Your World, Our World:
Resilient Environment
and Sustainable
Resource Management
for All

Transforming Big Monitoring Data into Reliable Information About Movements

Lidija Špiranec

Product Manager Monitoring Solutions

Leica Geosystems

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Monitoring Technologies & Software



Geodetic



Geotechnical & Environmental



Remote Sensing



Software

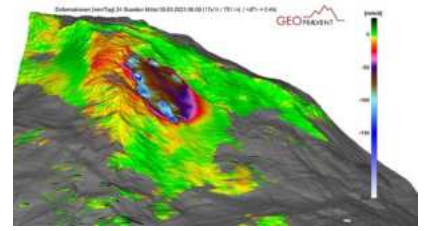




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Instrumentation Occurrence in Monitoring Projects

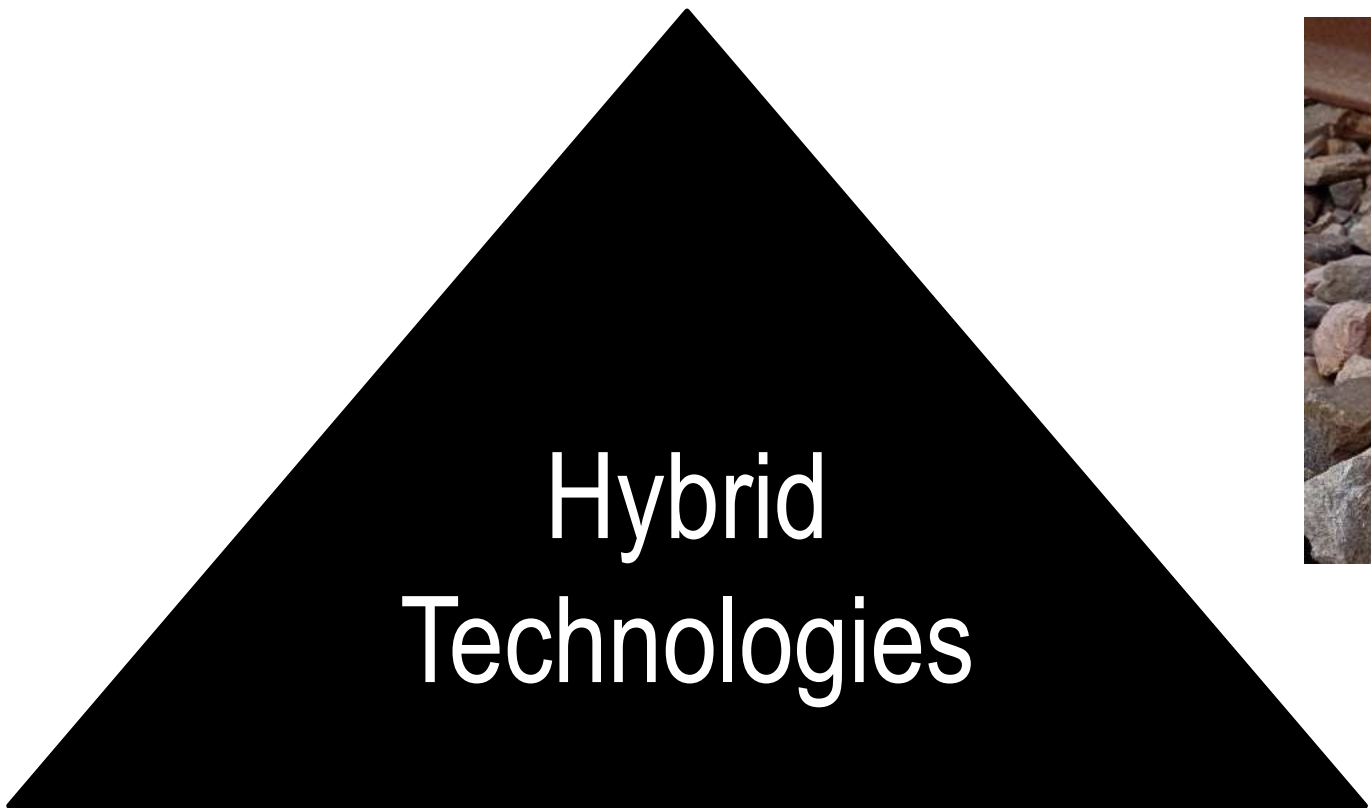




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Sensor Fusion



TPS + 3D Laser Scanning



GNSS + IMU



Tilt + Distance



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Data Integration

Observation	
4 Sensors	
Delta North	-2.7 mm
Delta East	-1.1 mm
Delta Elevation	1.9 mm
Displacement 1D	-2.7 mm
Displacement 2D	3.0 mm
Displacement 3D	3.9 mm
Velocity 1D	0.00 mm/h
Velocity 2D	0.00 mm/h
Velocity 3D	0.01 mm/h
Azimuth	198.885752 dd
Plunge	21.531126 dd

All Radars	
8511 Points	
Displacement	-4.3 mm

IDS project	
8511 Points	
Displacement	-4.3 mm

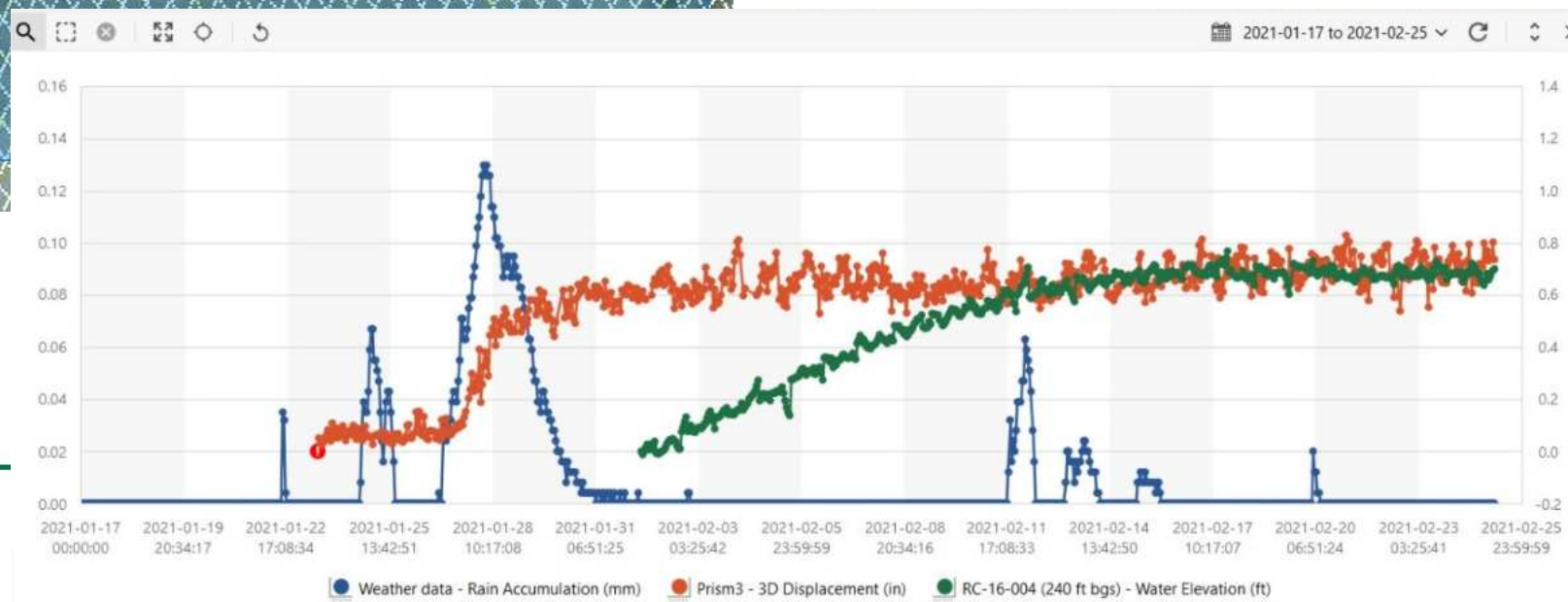




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What is the magnitude and direction of movements?

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GEOSA
Geomatics Engineering Society of Ghana
General Authority for Surveying
and Geospatial Information





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SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals

Commission 6

Engineering Surveys

Serving Society for the Benefit of People and Planet

