



SeisMike

**Rapid Multichannel Analysis of Surface Waves (MASW)
for non-destructive evaluation of asphalt and concrete pavements**

SeisMike platform uses cutting-edge microphone technology to provide a rapid evaluation of concrete and asphalt structural integrity using advanced **ParkSeis-X** surface wave data analyses.

SeisMike is a joint development by **Park Seismic** (Leader in MASW seismic processing software), **Seismic Source Co.** (leader in **Seismic Acquisition Technology**) and **Olson Instruments** (Leader in NDE Pavement scanning technology).



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Park Seismic



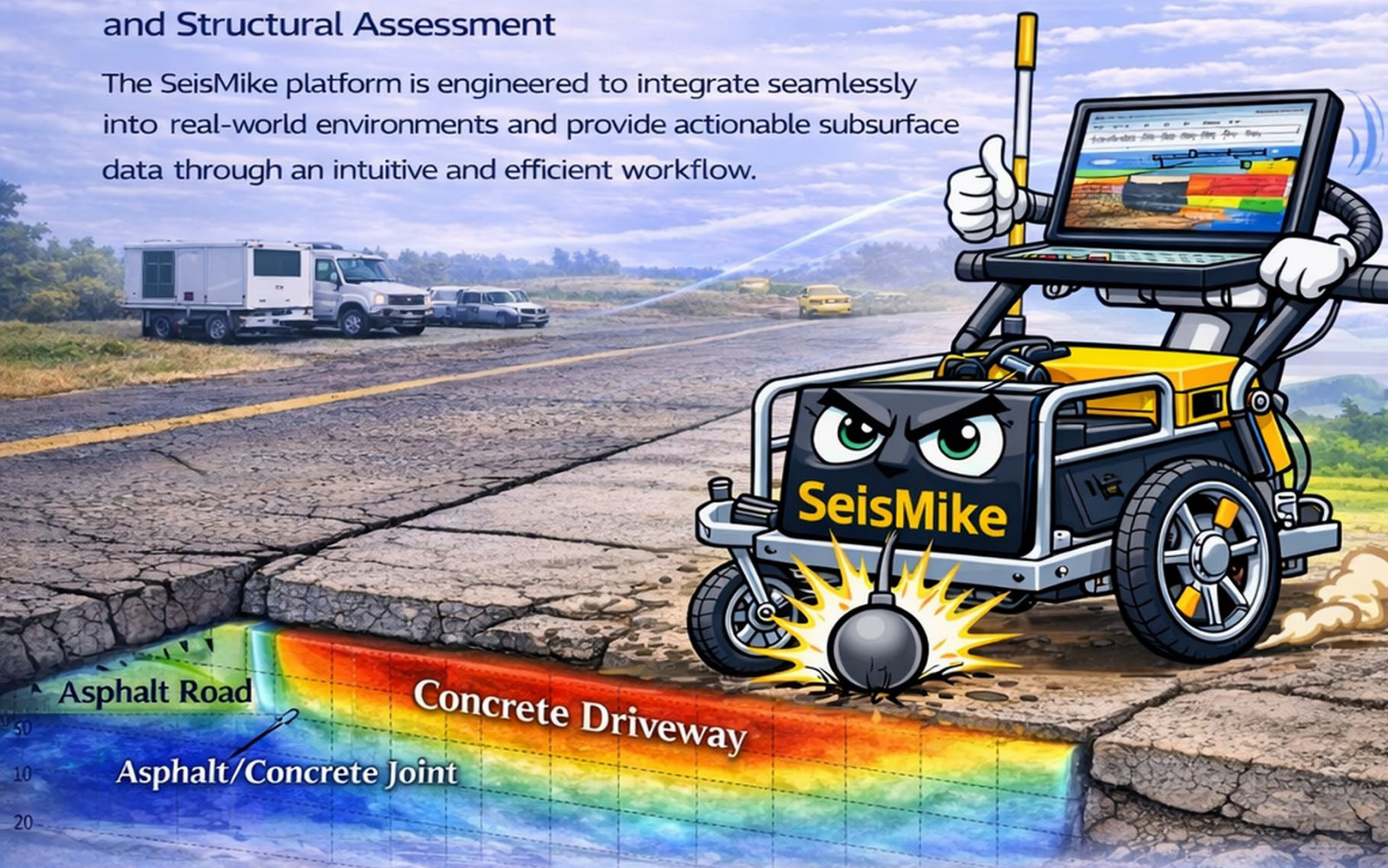
www.parkseismic.com www.seismicsource.com www.olsoninstruments.com



Field Integration

SeisMike in Action: On-Site Subsurface Analysis and Structural Assessment

The SeisMike platform is engineered to integrate seamlessly into real-world environments and provide actionable subsurface data through an intuitive and efficient workflow.



Subsurface Insights

Deploy the DAQLink cart along various test areas to collect crucial subsurface data, precisely identifying asphalt, joint, sub-base, and concrete properties.

- Asphalt Pavement Damage / Deterioration
- Joint Uniformity / Weakness
- Concrete Driveways / Sidewalks

Measurement Analysis

Receive real-time subterranean imaging on your mobile command unit, PSX Software provides detailed condition maps for targeted repair and assessing structural integrity.

- ✓ S-Velocity / Rigid Layer Depths
- ✓ Empirical Density / Compaction
- ✓ Poisson's Ratio for Elastic Behavior

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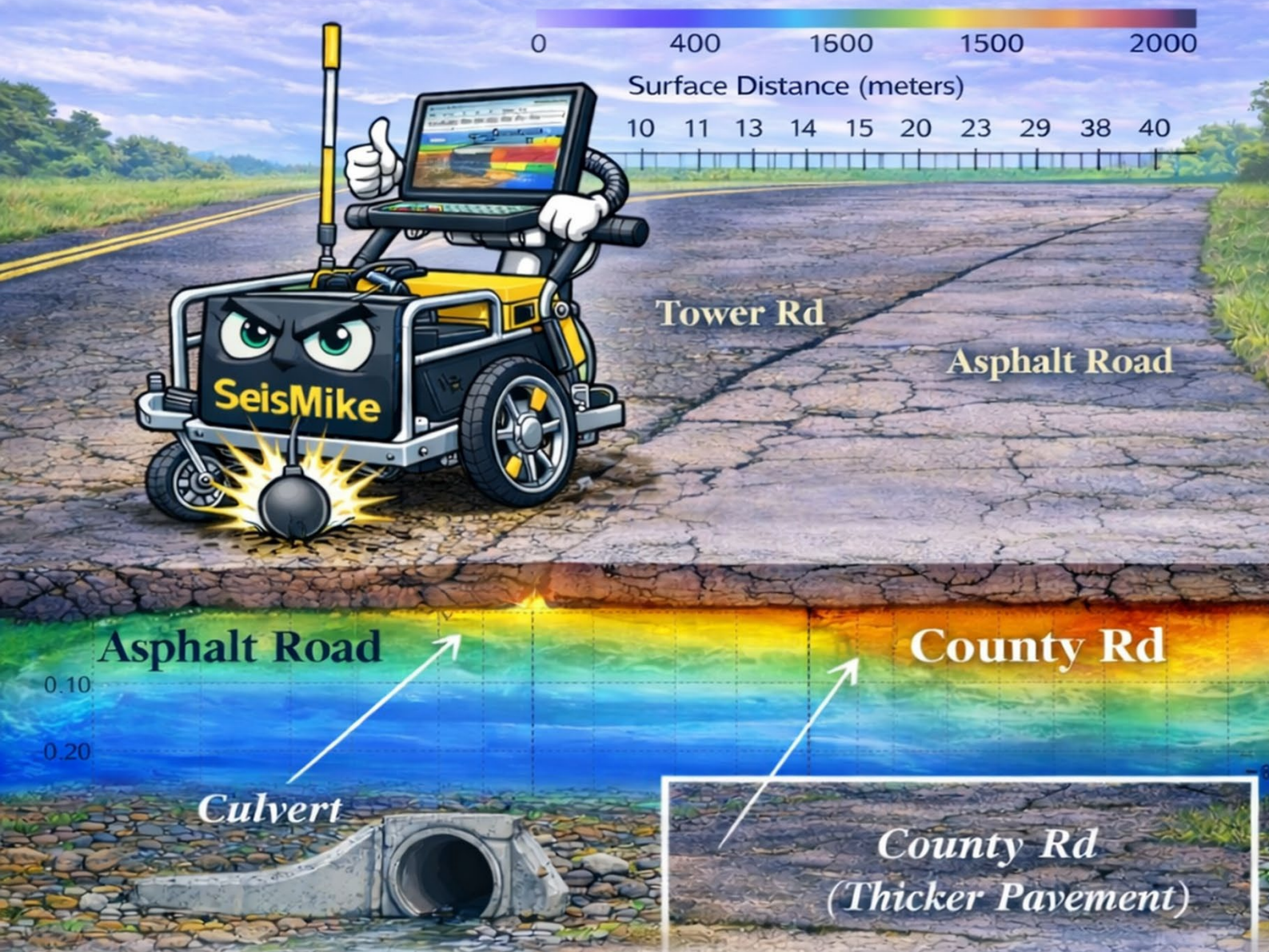
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Field Application – Direct Pavement Assessment

On-site Structural Evaluation of Asphalt or Concrete Surfaces



Direct surface scanning
of asphalt pavement

Rapid non-invasive structural profiling

Interpreted S-Velocity structure

Clear separation of concrete, base layers and subgrade

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Seismic Source

Layer differentiation and
stiffness contrast detection

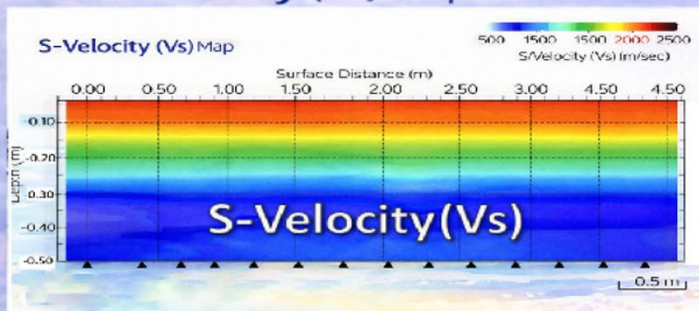
Identifies variations in pavement thickness
and subgrade condition

Park Seismic PSX Processing Software

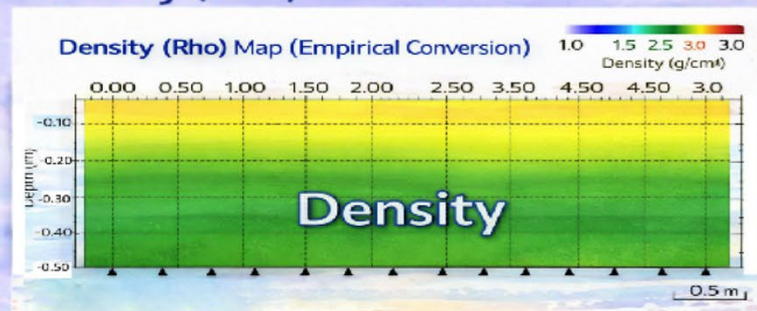
Engineered for speed. Designed for clarity.

This is where speed meets precision.

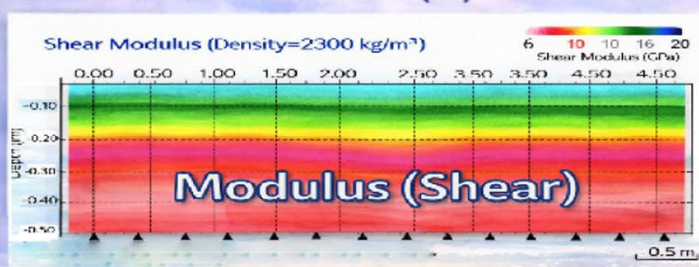
S-Velocity (Vs) Map



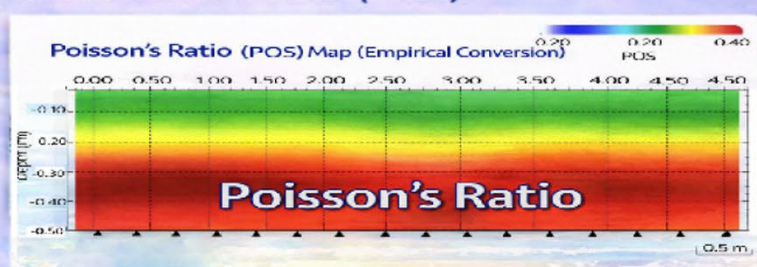
Density (Rho)



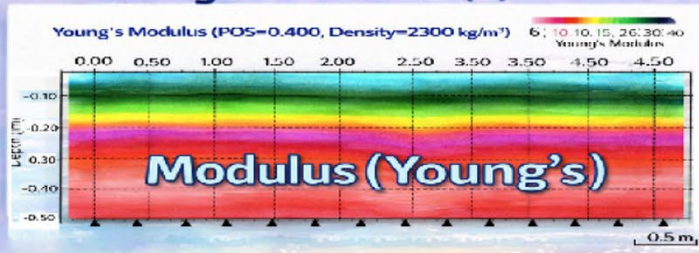
Shear Modulus (G)



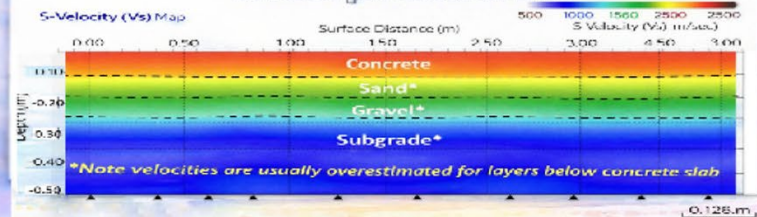
Poisson's Ratio (POS)



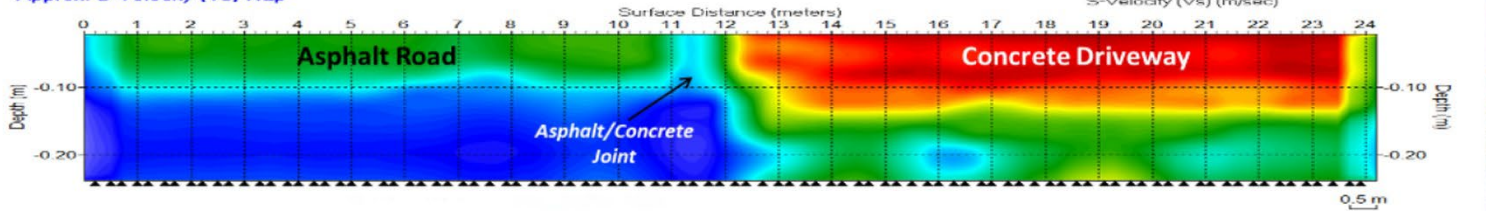
Young's Modulus (E)



Interpretation



Approx. S-Velocity (Vs) Map



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