

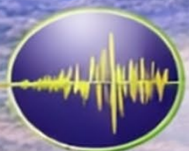
Seismic  
Source

# 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).



Park Seismic



[www.parkseismic.com](http://www.parkseismic.com) [www.seismicsource.com](http://www.seismicsource.com) [www.olsoninstruments.com](http://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

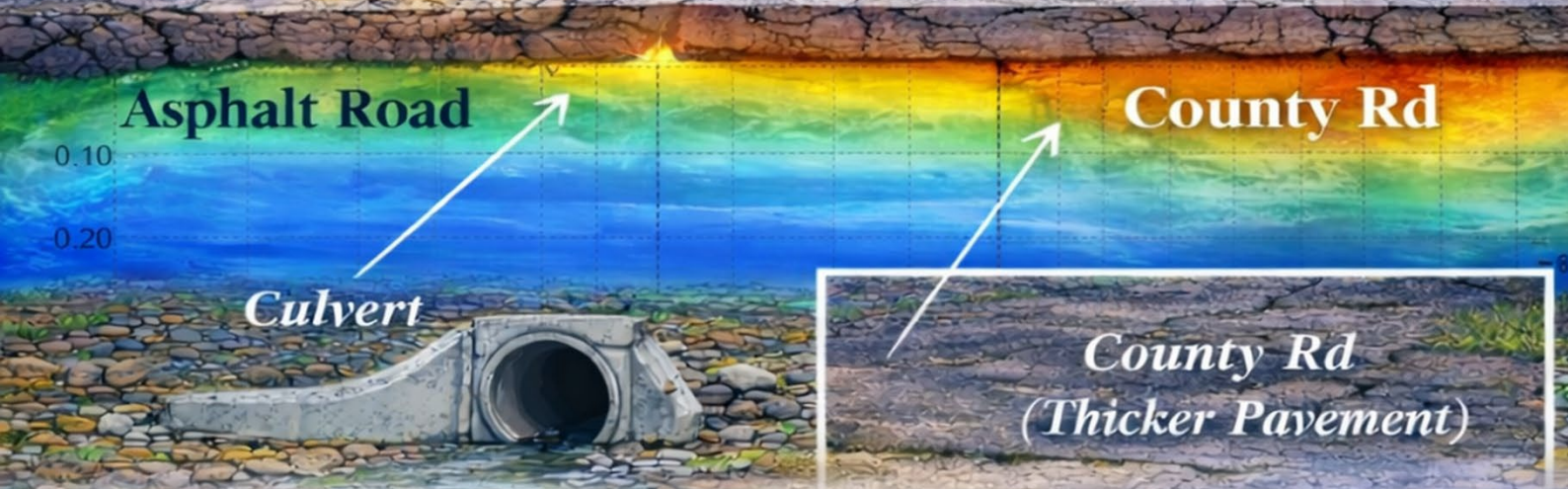
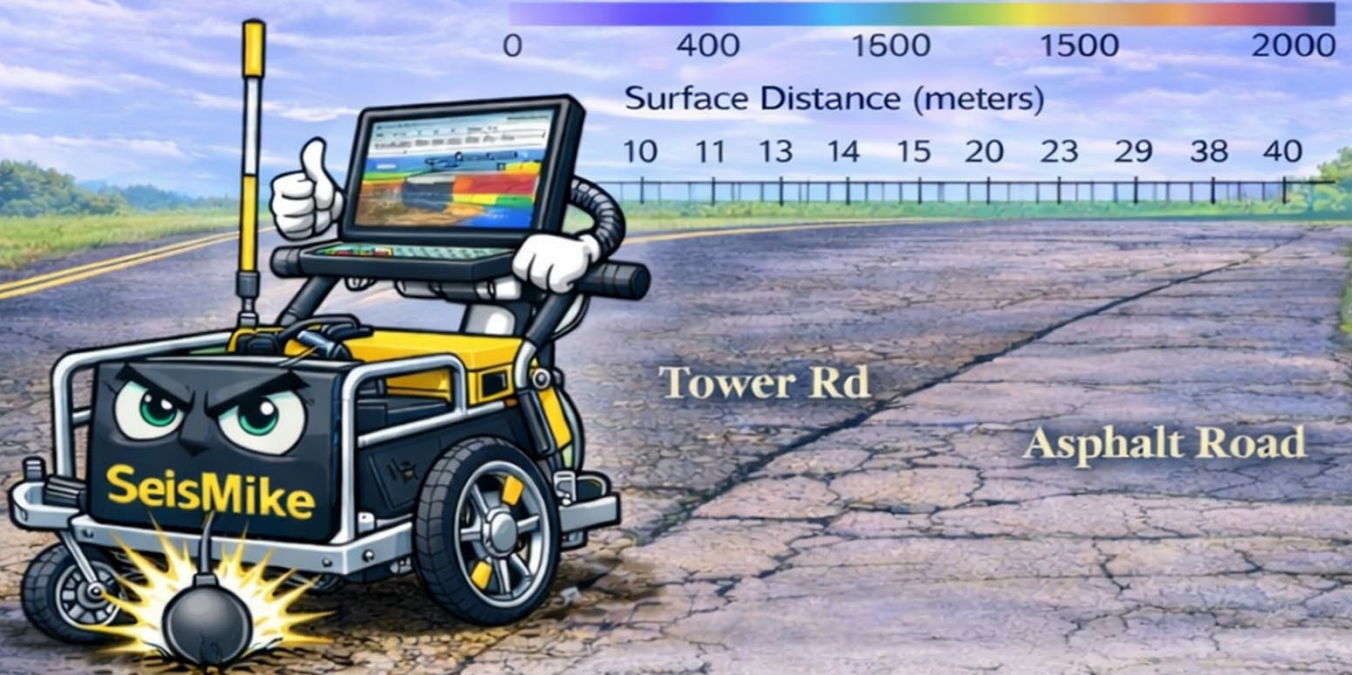
[www.seismicsource.com](http://www.seismicsource.com)





# 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

Layer differentiation and stiffness contrast detection  
Identifies variations in pavement thickness and subgrade condition

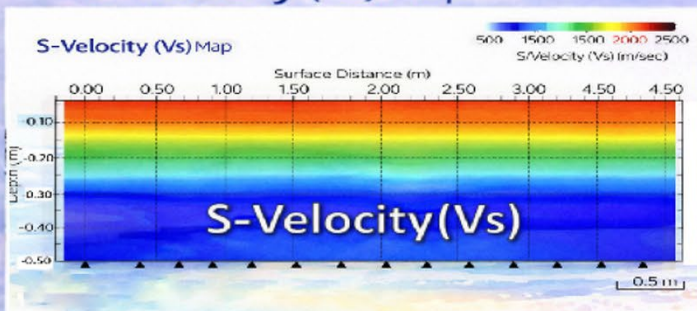
[www.seismicsource.com](http://www.seismicsource.com)



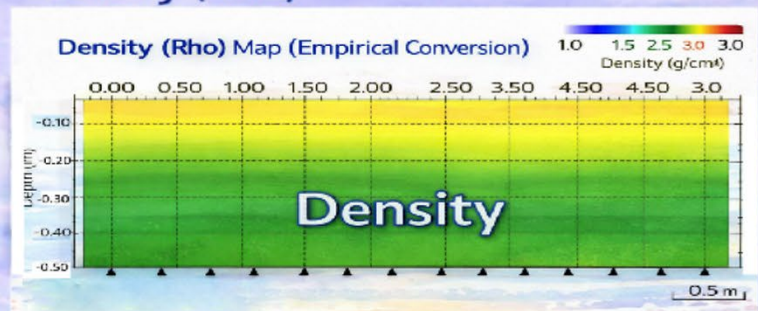
## Park Seismic PSX Processing Software

Engineered for speed. Designed for clarity.  
This is where speed meets precision.

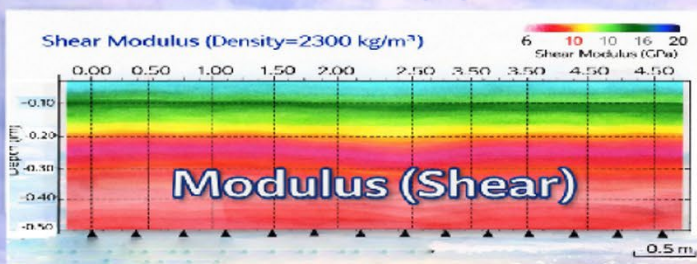
### S-Velocity (Vs) Map



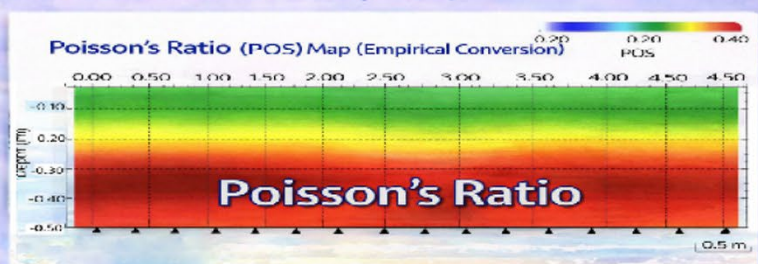
### Density (Rho)



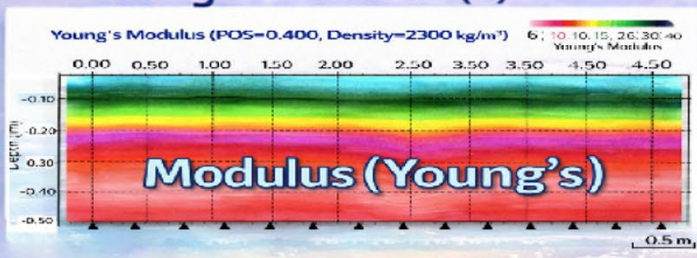
### Shear Modulus (G)



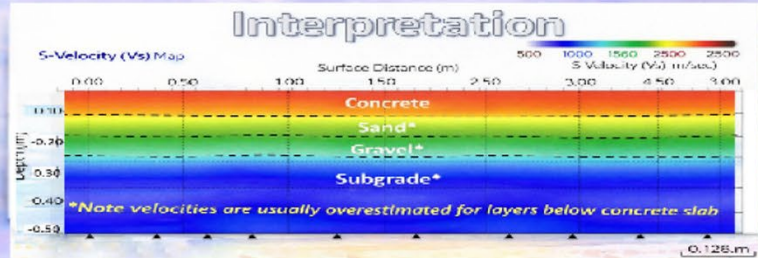
### Poisson's Ratio (POS)



### Young's Modulus (E)



### Interpretation



### Approx. S-Velocity (Vs) Map

