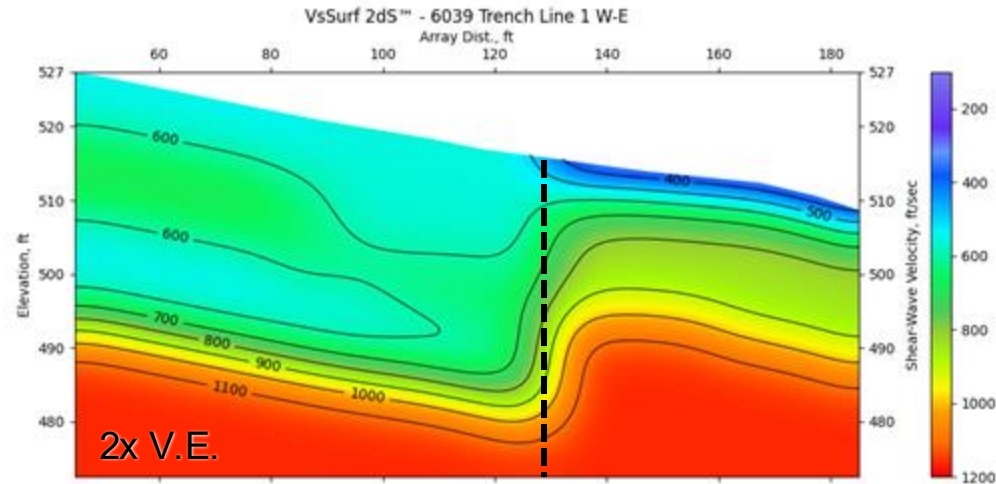


# Dozens of Terēan Clients in California and Nevada: *30-min Survey Locates Calaveras Fault in Pleasanton*



- ReMi 2dS<sup>®</sup> survey on 230-ft-long 24-chan geophone array took 30 minutes

- Active strike-slip fault projected to 100-ft-wide zone
- Lateral Vs discontinuity locates fault to 10 ft accuracy
- Targets paleoseismic trenching

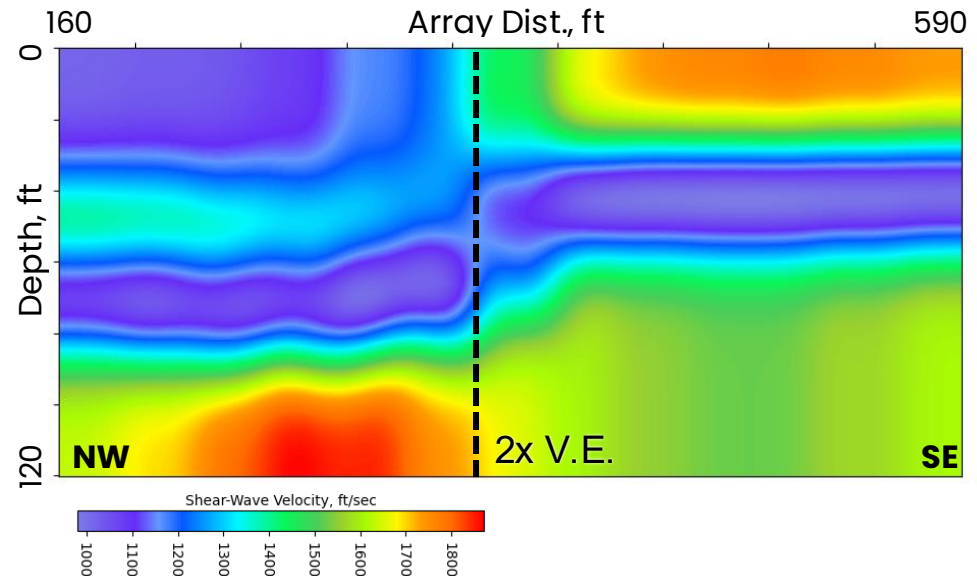


# Las Vegas Valley, NV Fault Strands from Terēan Client Work



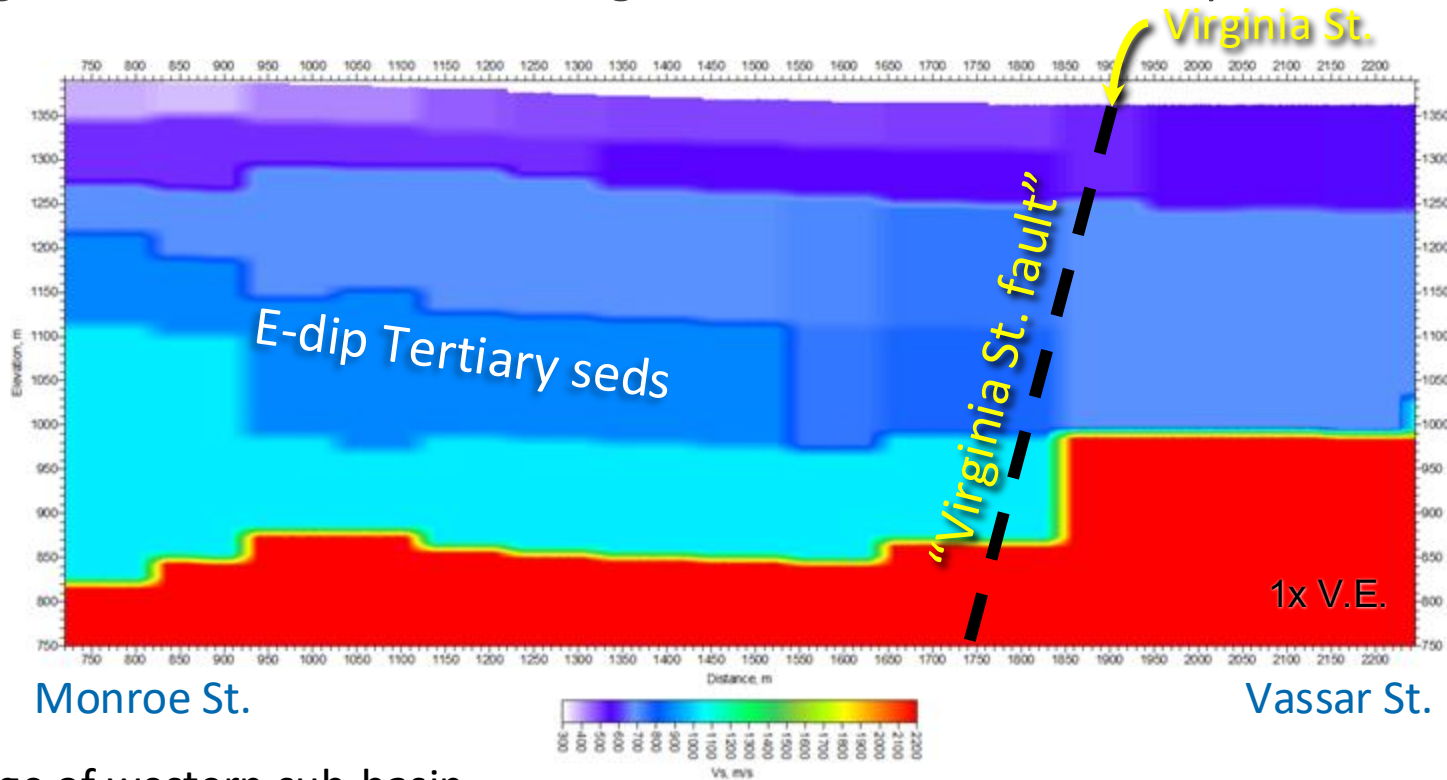
- ReMi® software 2D S-wave velocity image (right) from Las Vegas Valley. Caliche layer (orange and green) overlies displaced velocity reversal (blue)
- Fault manifests as a lateral velocity discontinuity at the center of the line, confirming dePolo's location.

- Inferred fault locations (dePolo)
- 24-channel ReMi™ array 230 m long; 75-min survey



# One-Day Surveys Show Basin-Floor Faulting to 1 km Depth

Imaging Structure Below Reno: “Virginia Street Fault” – USGS Sponsored



550 m depth

2015 Line 2

Across east edge of western sub-basin

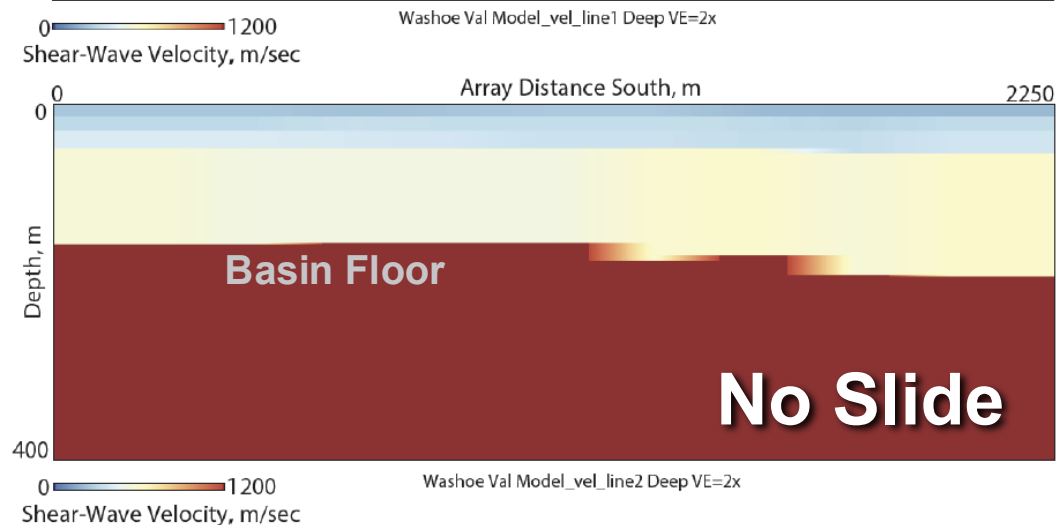
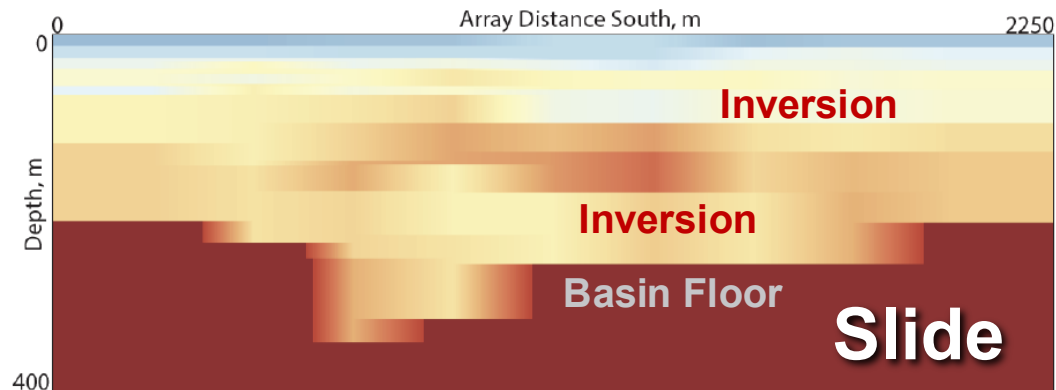
# 1-Day Surveys in Washoe Valley, NV

VsSurf ReMi<sup>®</sup> 2dS software  
velocity cross sections at 2x V.E.

Track basin-floor topography in  
Washoe Val. at 200-400 m  
depths

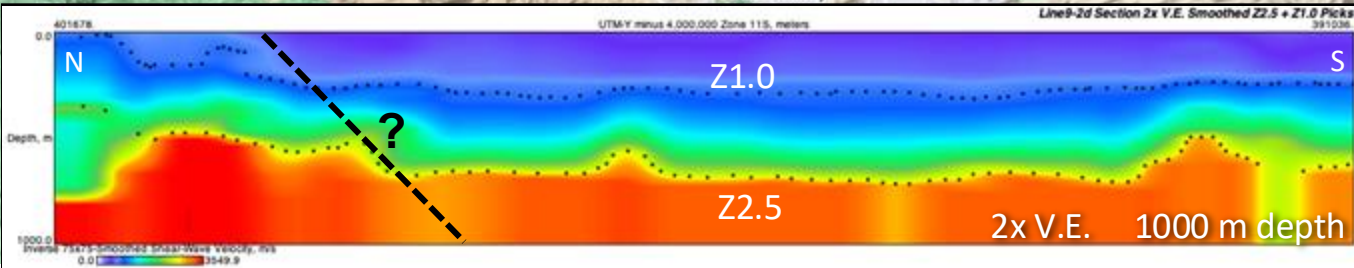
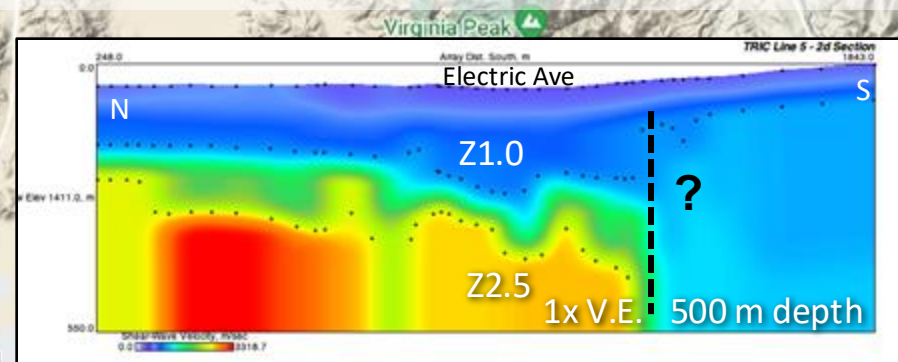
Higher-velocity blocky slide  
deposits create velocity  
inversions in fill

Small grabens in basin floor?



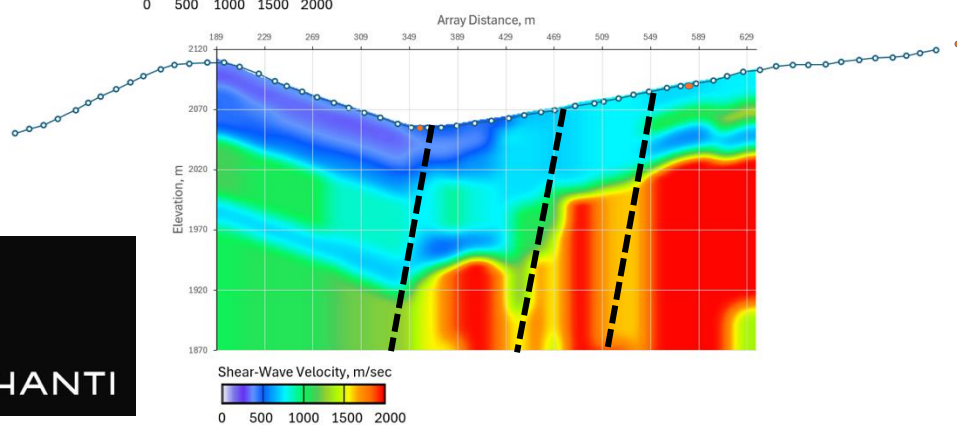
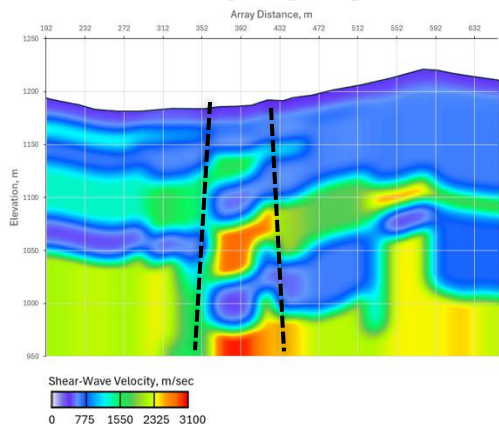
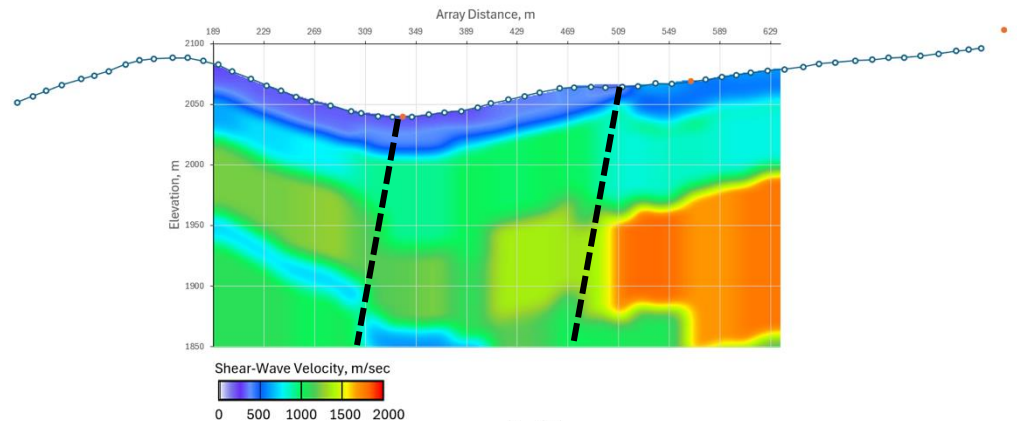
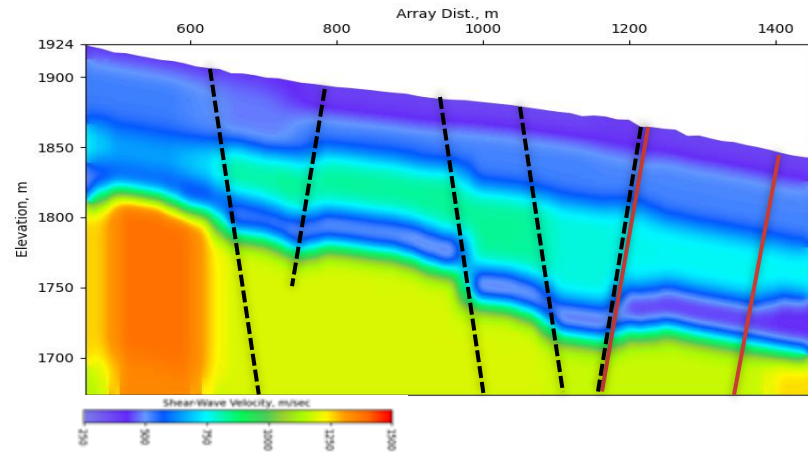


# USGS-Sponsored Basin Profiling N and E of Reno



*The Univ. of Nevada in collaboration with the Univ. of Cincinnati profiled the 700 m deep 2-level basin below Lemmon Valley (Reno-Stead); and several complex, smaller basins in the Tahoe-Reno Industrial Center (TRIC). Deep ReMi shear-wave velocity sections from Terēan analyses.*

# ReMi® 2dS Sections >200 m Deep at Basin Margins (2x V.E.)



# 350-m-Deep ReMi in South Reno for Truckee Meadows Water Authority – *Limits Offsets of Mapped Quat. Faults*

