100th Anniversary Oct. 2nd, 2015

Cataclysmic Earthquakes In the Western US

Probability and Consequences

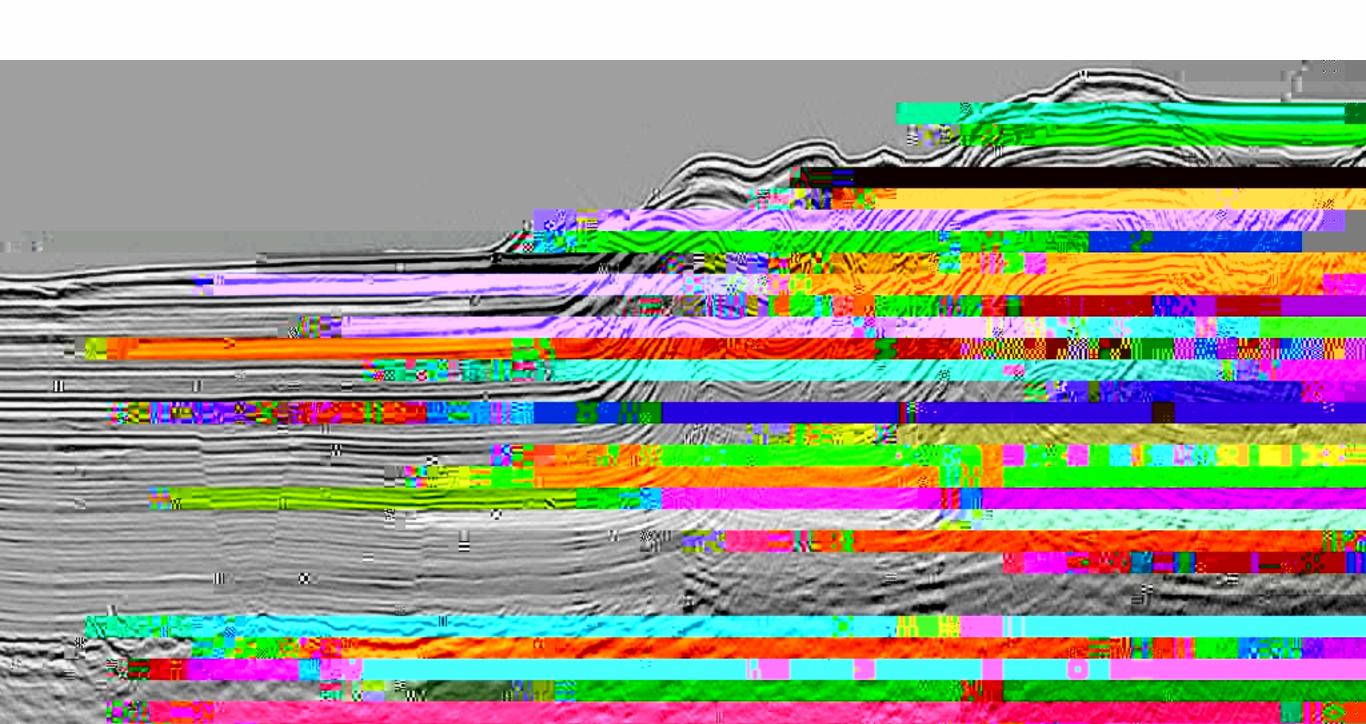
Drs. Graham Kent and Ken Smith

Nevada Seismological LaboratoryR

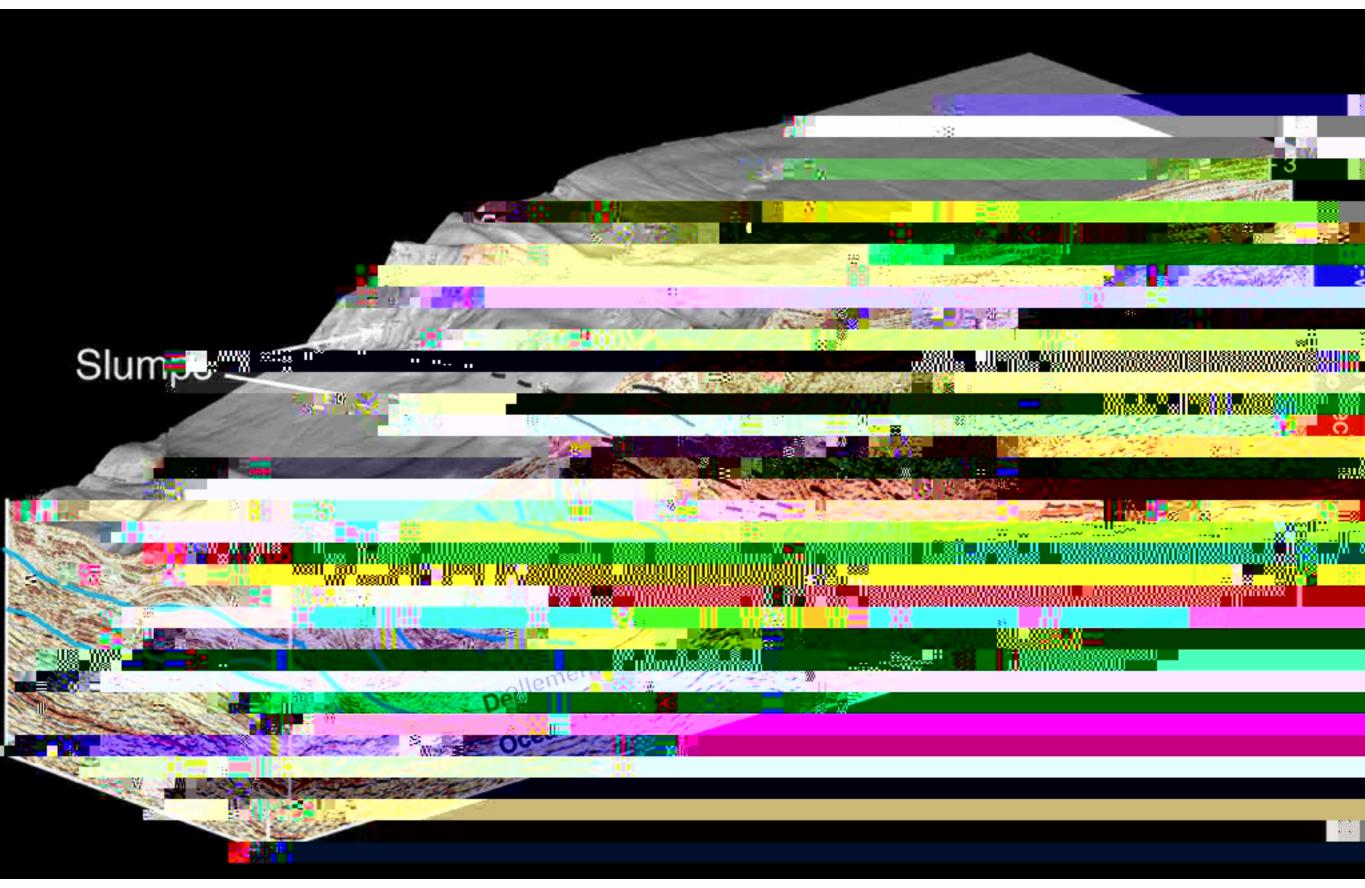
not a seismologist

seismologist

RV Langseth Cruise July, 2012



Nankai Trough in 3-D, Japan



Cascadia Chronology

100th Anniversary Oct. 2nd, 2015

OSU

Turbidites/debris flows

Tahoe turbidites too!

Orphan tsunami, 1700

TeraShake Project

~M8 Southern

Lake Cauhilla—Salton Sea

100th Anniversary Oct. 2nd, 2015

Faults connecting Imperial to San Andreas fault may trigger the big one!

H7 Fault Stratigraphy SaltonSea F3 T F9 Top riu lop F11 Top FATTER. section F13 Top Fire ·: 8

A 14 event earthquake record beneath the Salton Sea

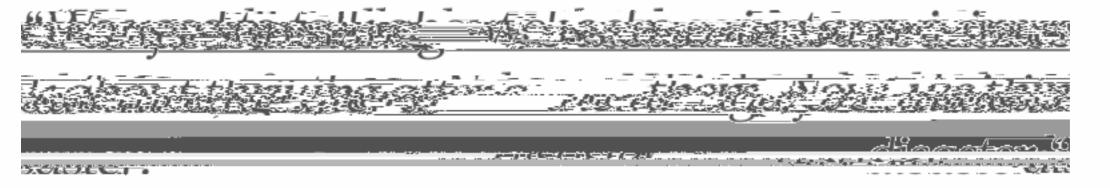
100th Anniversary Oct. 2nd, 2015





–All private equity \$\$\$

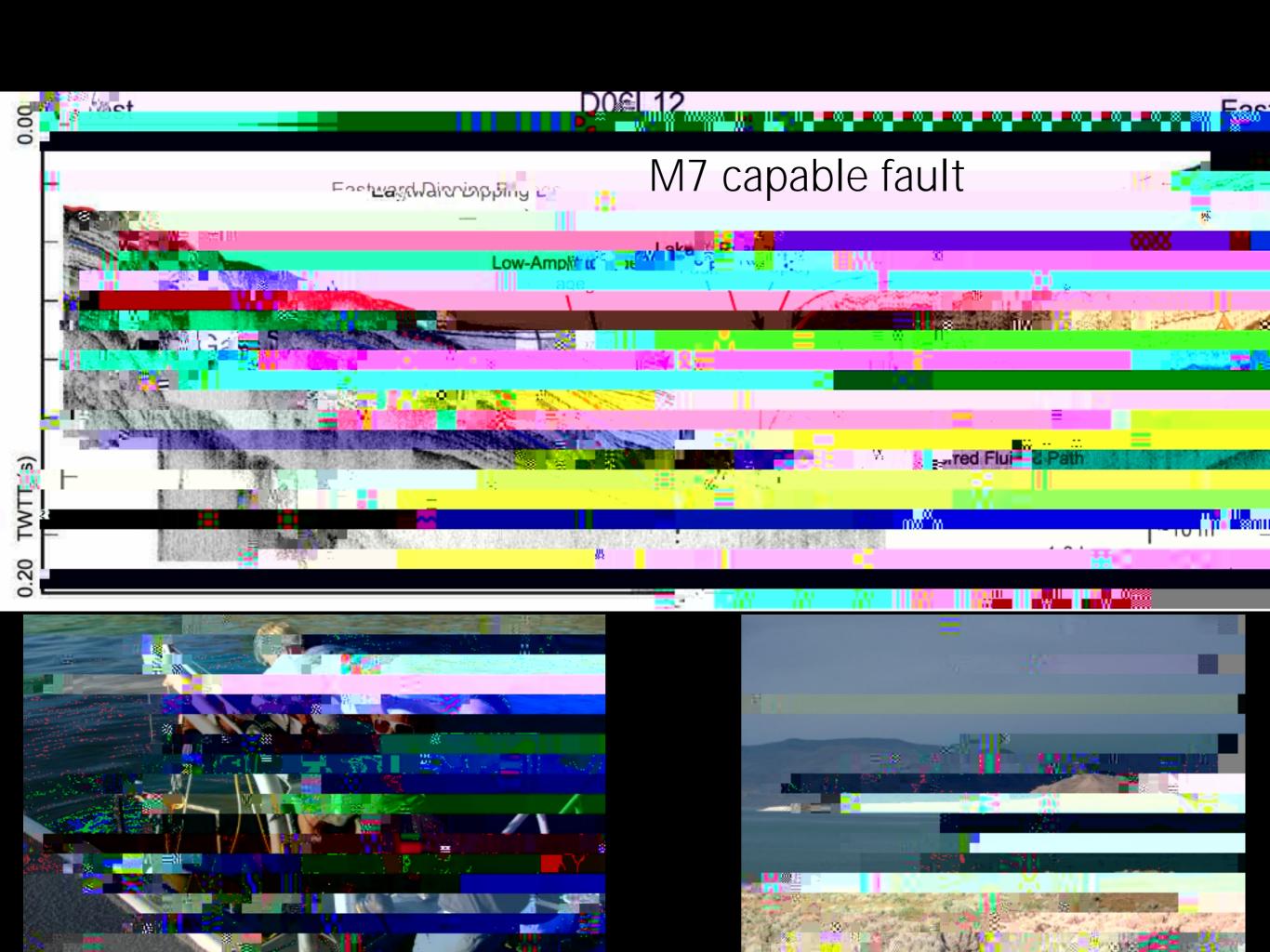




Pleasant Valley (M7.3) 1915 100th Anniversary Oct. 2nd, 2015



Farthquake Lake Farthquake Lake Fallen Leaf Lake

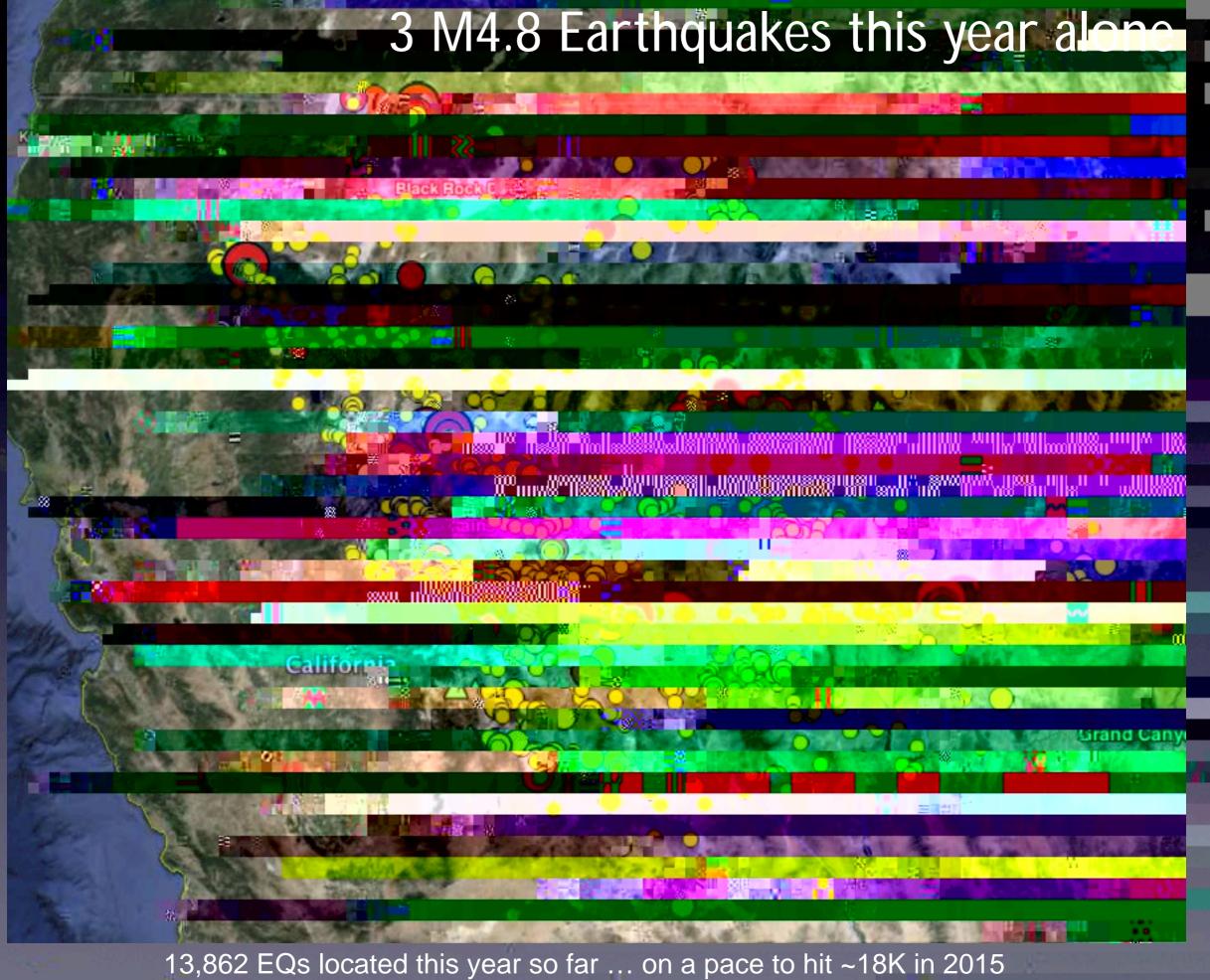


100th Anniversary Oct. 2nd, 2015

Mogul-Sommersett M5.0 earthquake, 2008



... has our community followed in Napa's footsteps? No!

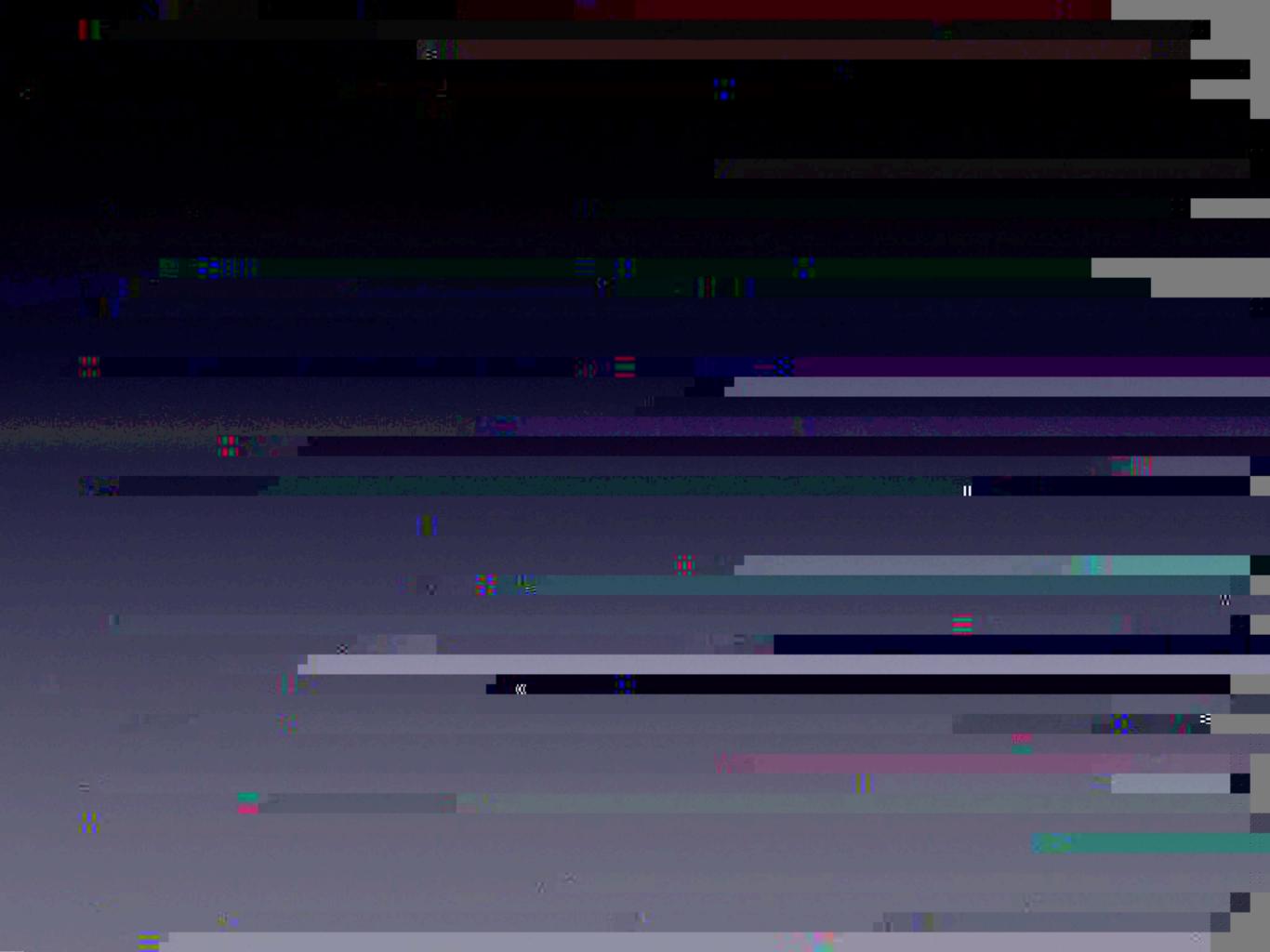


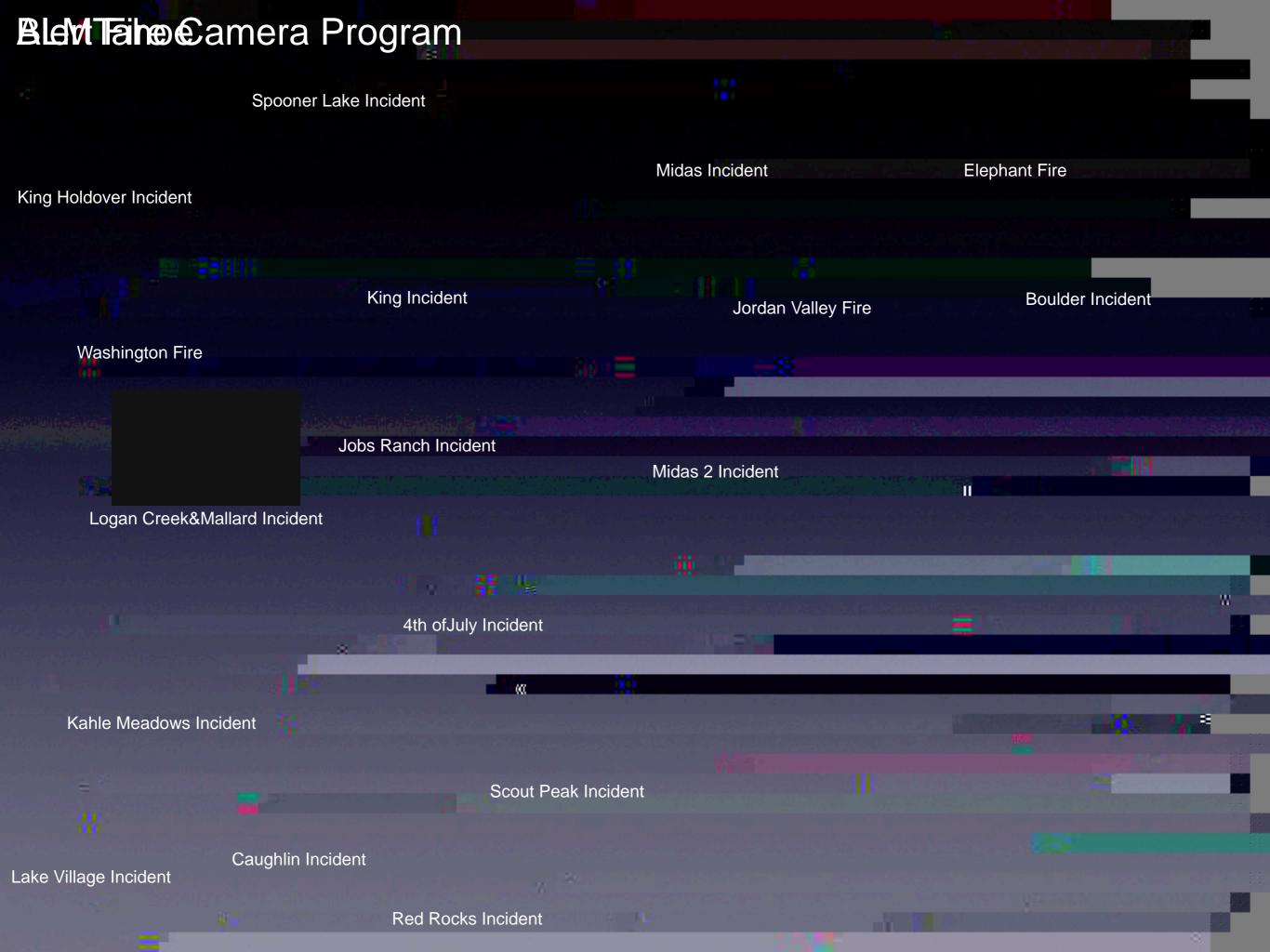
Alert Tahoe Seismin Existing Fire Camera 2015 TPC Early 2016 Camino Broadband Seismometr **Broadband Seismometer wit** Short Period Se State (Analog) A OptionalS

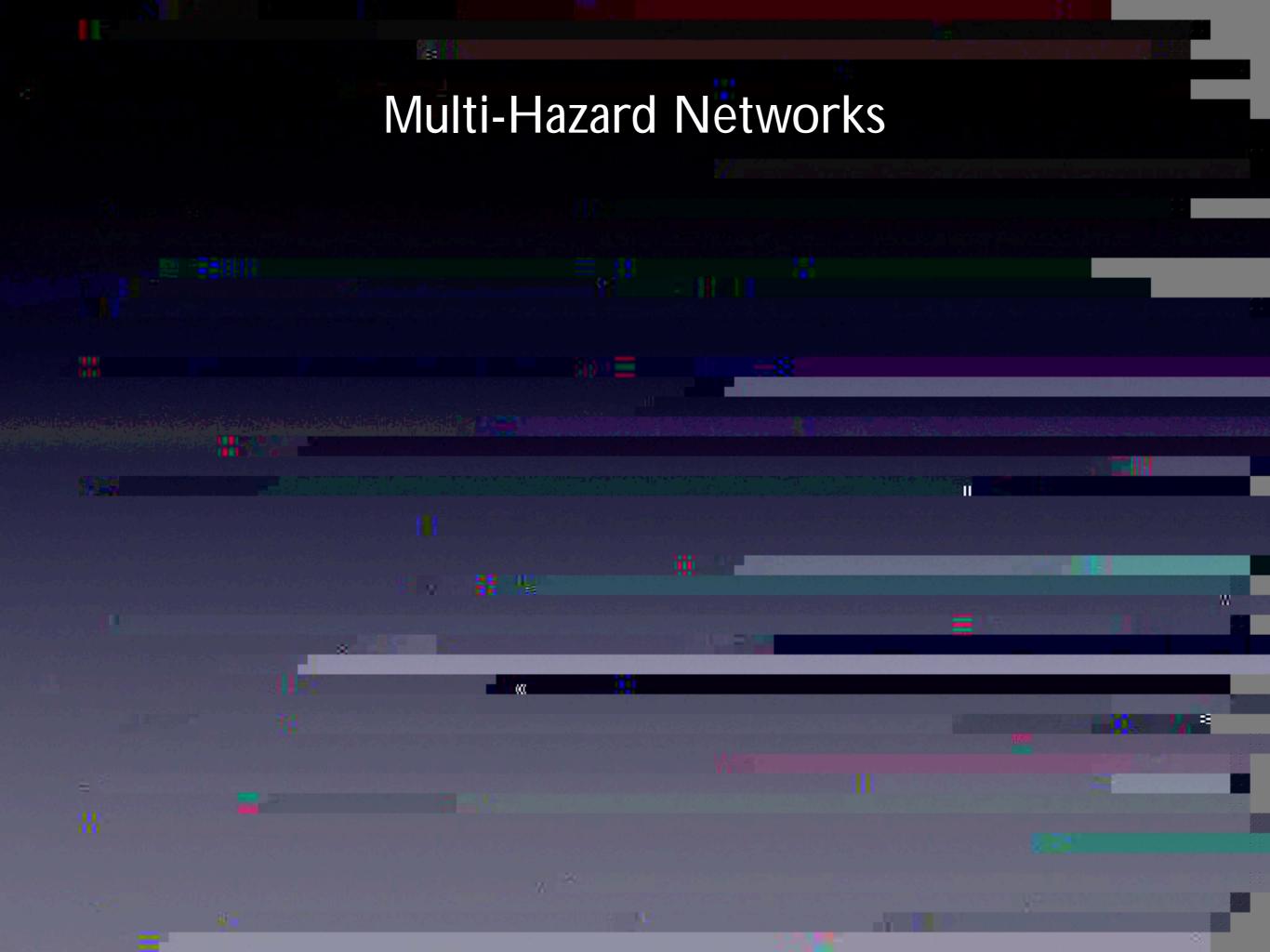
AlertTahoe

Multi-

Hazard







Next Steps... ShakeOut 2.0

- business resiliency (can we survive after Day 1)
- earthquake authority/insurance (stimulus after quake)
- hazard warning system aka Alert Tahoe (reduce losses)
- executf 4ne "Napa model" (start yesterday!)

Onto the panel ...

