

Ladies and gentlemen,

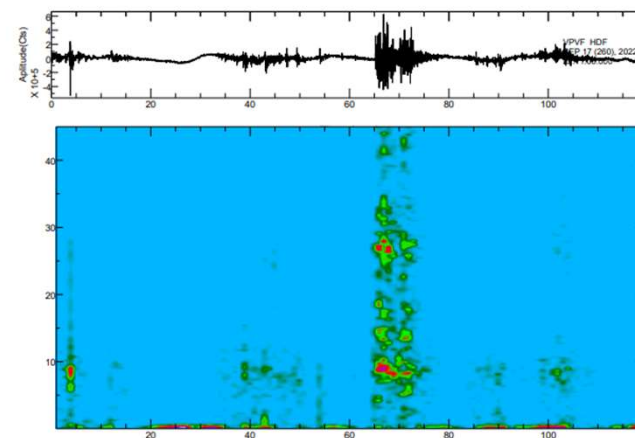
Thank you for being here today. On September 17th, 2022, a tragic landslide occurred in Costa Rica, resulting in a bus falling into a ravine. Through our research, we found a correlation between seismic activity and landslides in the area.

By examining the OVSICORI-UNA database, we discovered fifteen earthquakes with magnitudes ranging from 1.6 to 3.9 within the specified coordinates. Additionally, the Poas infrasonic station, located 36 km from the site, detected the event.

Our findings indicate that landslides in Central Costa Rica are primarily influenced by slope instability rather than local faults. The detection of the landslide by the Poas Volcano's infrasonic station further highlights the importance of monitoring such incidents.

I will present our methodology and data, providing insights into the seismicity records and the findings from the Poas infrasonic station.

Thank you for your presence. Let's explore the interplay between seismic activity, landslides, and the geological dynamics of this captivating region together.



**Fig. 1 Spectrogram of
infrasound station at
VPVF**