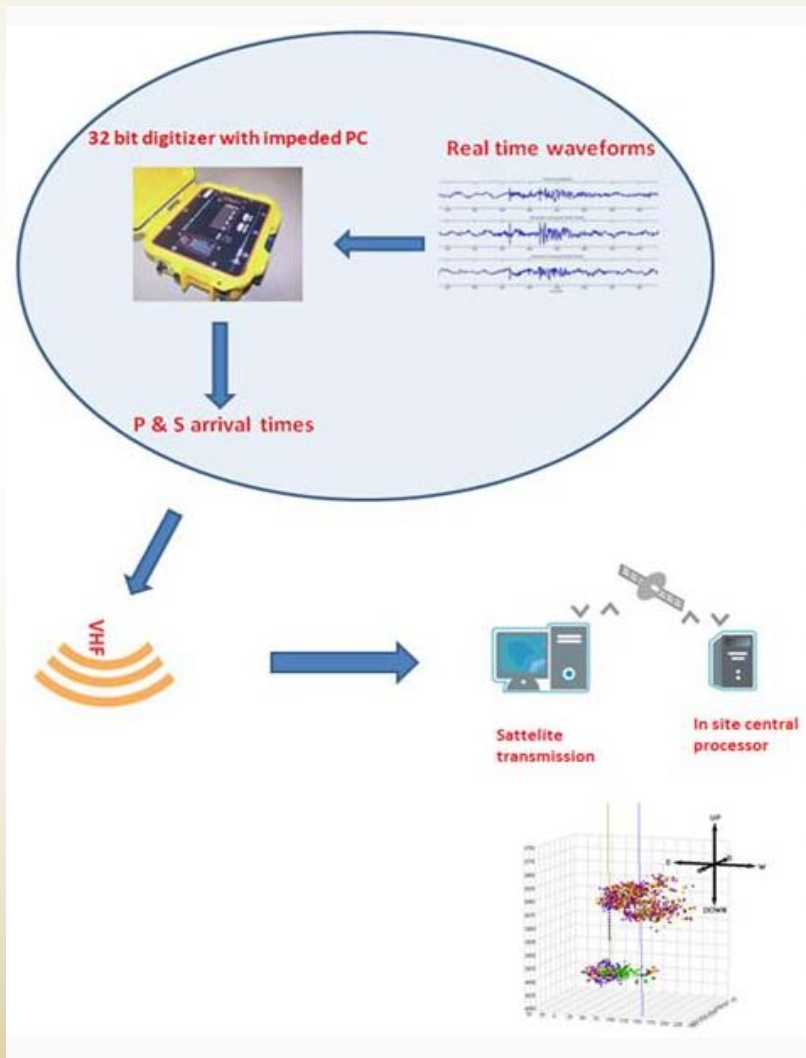
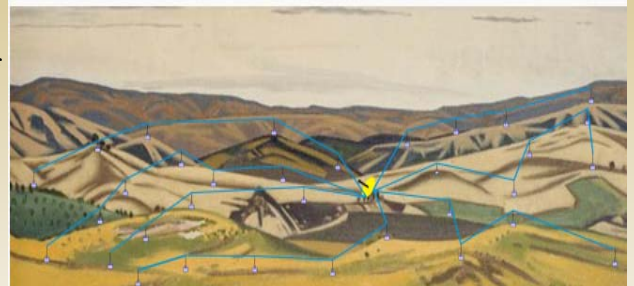




Wireless Surface Monitoring of Hydraulic Fracing

LandTech recently introduced a new revolutionary reservoir monitoring technique, based on the wireless transmission of the data recorded at a surface microseismic monitoring network to a central processing station and then throughout satellite telemetry to the clients office, all in real time. For monitoring we use the new SR32 digitizers together with the specially designed ultra sensitive FS seismometer. There are two telemetry options of the system.



One is based on Wi Fly technology (which is much better than the conventional Wi Fi). The characteristics of this system are: Real time data (full waveform) transmission, Station connections in chains – manual addressing mode, Ability for repeater usage if not clear line of sight, Error correction transmission algorithm, Satellite transmission of the network data in near real time.

In the other system developed by LandTech, instead of collecting all the waveforms from the deployed surface network to a central processing unit, each 32 bit seismograph has an embedded PC with auto-picking algorithms and we send via VHF to the central processing unit only the arrival times of the P- and S- where 3D real time plots of the seismicity are generated.

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