LandTech has recently developed a new revolutionary geostatistical methodology based on Kohonen neural networks and Passive Seismic Tomography (PST©) data attributes to derive lithological information of a region where a PST survey has been contacted. These attributes are $V_p$, $V_s$, Poisson $\nu$ and the attenuation quality factor $Q_p$. The use of unsupervised artificial Kohonen neural networks and Self Organizing Maps (SOM) algorithm in passive seismic data analysis proved to be a useful tool for delineating the structural and lithologic properties of the subsurface.

In the figure below we present an example from a gas and an oil field in SE Albania where PASOM technique pinpointed the two producing zones.