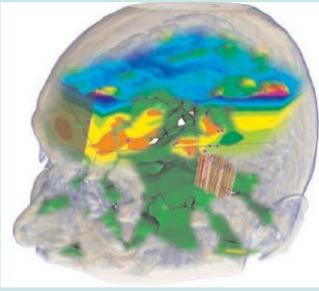
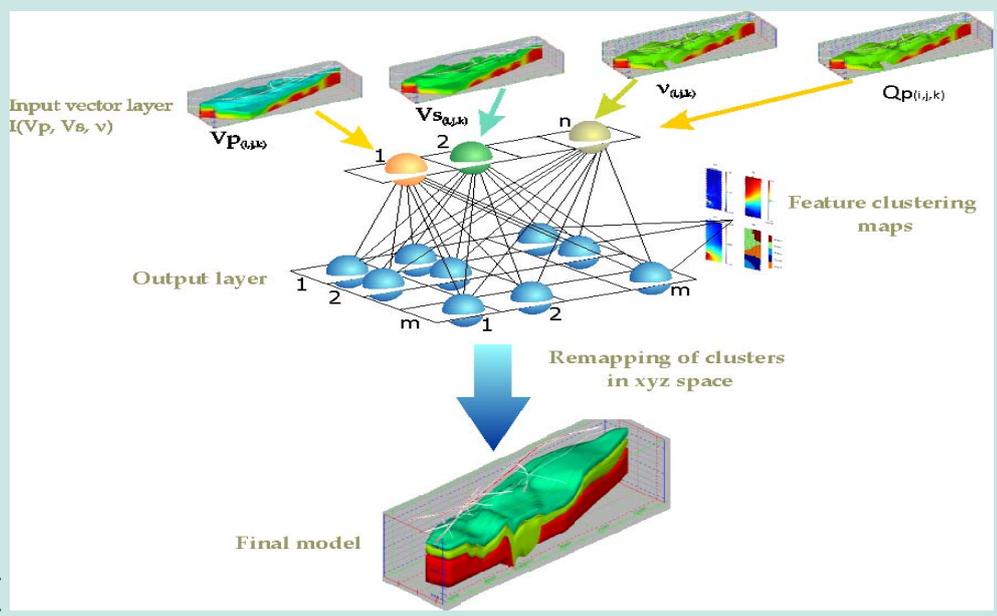




Lithology from Passive Data Passive Self Organizing Maps (PASOM)[®]

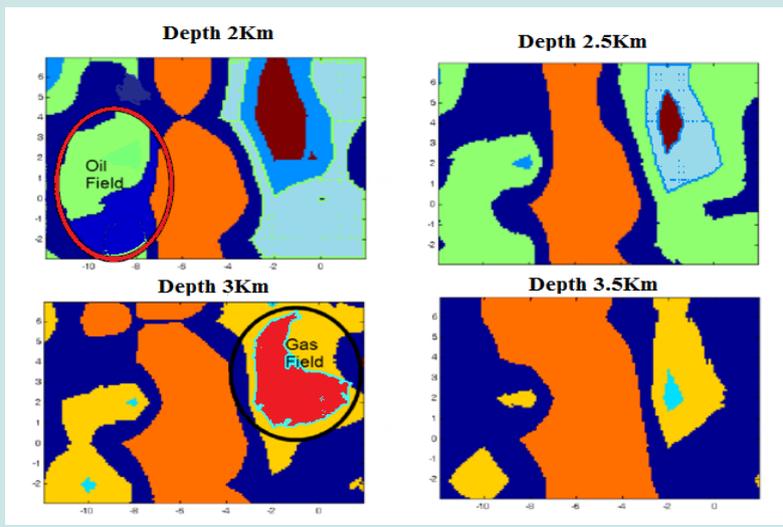


LandTech has recently developed a new revolutionary geostatistical methodology based on Kohonen neural networks and *Passive Seismic Tomography (PST)*[®] data attributes to derive **lithological** information of a region where a PST survey has been contacted. These attributes are V_p , V_s , Poisson ν 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 we present an example of a gas and an oil field in SE Albania where PASOM technique pinpointed the two producing zones.

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