**Underexplored Seismic Geomorphology:**

**A Comprehensive Example from the Åre Play**

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This presentation will provide how seismic geomorphology can be used to enhance the depositional facies interpretation for underexplored plays.

Detection of structural and stratigraphic information based on seismic and spectral decomposition is one of the fundamental workflows

when it comes to interpreting subsurface features and seeking reservoir information from exploration data. A collection of high quality  RGB images

show remarkable details of the Åre reservoir and its depositional system that have not previously been imaged in this continental play.

Seismic geomorphology necessitates extremely high resolution seismic interpretation, over areas greater than 50.000 km²  from PGS PURE 3D data surveys,

what offers valuable insights about the depositional environment. As regional scale,  Åre depositional style varies amongst seismic surveys, the

majority of the seismic facies display a mosaic of large-scale fluvial depositional elements, such as oxbow fills or abandoned channels connecting

meanders system  characterized by lateral accretion and sandstone-filled channels in the Halten Terrace and Sør High;  an impressive system of entrenched

meandering belts near the Grønøy High; and a stunning unique lacustrine system with hundreds or even thousands  of ponds, in places reworked

by crossing and overlapping the next floodplains.

This new perspective on the evolution of the Åre depositional system has the potential of generating new exploration opportunities in this large wetland environment.