

# Focusing regularization for 3D marine CSEM inversion and migration

3D marine CSEM inversion and migration is ill-posed, meaning that solutions are non-unique and unstable.

Unique and stable solutions are obtained by including a priori information about the properties of the inverse model. This is called regularization.

Conventional regularization such as Laplacian, Occam or minimum norm recover smooth conductivity models that have little resemblance to geology.

**TechnoImaging's unique patented suite of focusing stabilizers recover conductivity models with sharp conductivity contrasts. They also improve the convergence of 3D inversion and migration, so they recover more realistic models quicker.**

