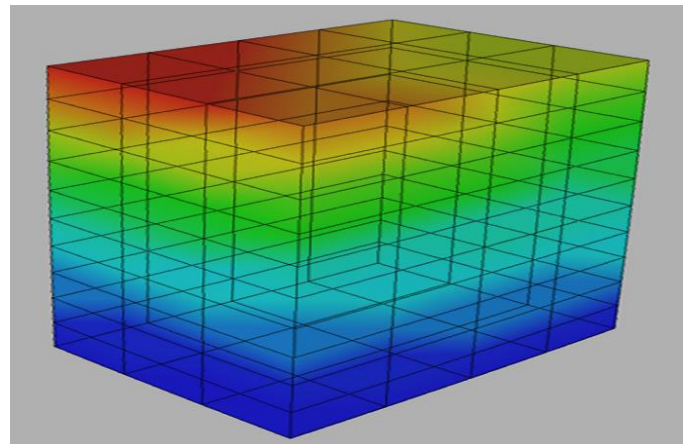


The MGO VMOD 3D Velocity Modelling software generates velocity models for depth conversion. This is the world leading software for regional high-quality velocity models, available commercially for the first time in 2021.

Method

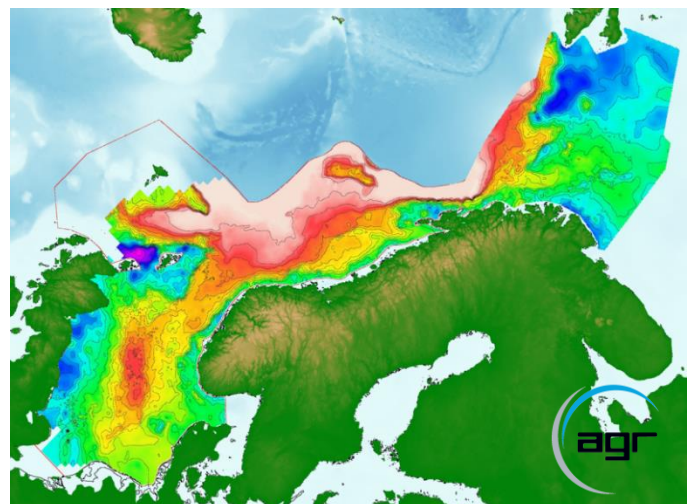
- Seismic processing velocities are balanced, filtered and gridded
- Scaling Factors (anisotropy) between well and seismic velocities are calculated and modelled
- The models are combined and tied to wells with 3D well tie, producing a 3D average velocity cube
- A default Scaling Factor model is used in frontier areas without well data



3D grid structure

Areas of use

- Frontier exploration studies
- Basin modelling, play and prospect evaluation in regional exploration and license round studies
- Detailed prospect, field development and redetermination studies (small models with selected data)
- Background model in seismic inversion and Velocity Inversion studies



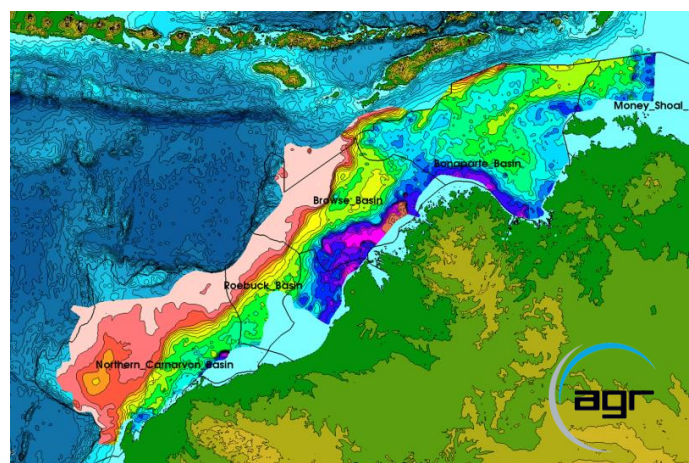
Regional velocity models NW Europe (from AGR)

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Regional velocity model Australia NW Shelf (from AGR)