# Modeling using Grid Model



www.tesseral-geo.com

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### How to import a model grid (SEGY)



2. Activate panel, call "Open" dialog, push button "Viewer files", find folder with the model grid files (here, in SEGY format) to be imported into Tesseral package, select first file and push "Open" button. Initially "SegY Load Info" dialog is produced – click "OK" button.



Adjust prototype model area taking into account data from SEGY grid. And select *File/Import Grid model* 



Select available model SEGY grids. Push OK button Adjust boundaries in *Grid Model Boundaries Dialog (OK)* 4 Flip pictures using toolbar button to have prototype model as upper image

## In case if you already have model grid in internal format (\*.tgr, converted from source grid(s)):



3. Opened grid (Viewer mode) is overlain over Modelbuilder model (Modelbuilder mode). Use *Flip Pictures* button to make Modelbulder model upper (active).

#### Adjust model prototype surface. It can be done manually of imported in text format.



Proceed using modelbuilder options. For example, you can build over model grid other polygons...

## Building prototype model for FWM calculation using imported model grid



X Minimal Valocity: [Effective]=2545 584 m/s



Roughly modify upper boundary of the Modelbuilder model to the grid model relief and then magnify upper part



#### Magnified upper part of the prototype Modelbuilder model



Modify upper boundary of the Modelbuilder model to the grid model relief

Framework	Framework 🔀
Cross-section Source Observation Reflectors Signal   Image: Supervision Projected Computation Default Default Default Image: Supervision Image: Supervis	Cross-section Source Observation Reflectors Signal   Receivers Position Time Time   Cable Interval Projected Item Item   Default 201 Default 1219   Postaut 201 Default 0.125 s   Postaut 10 m Start: 0.125 s   Image: Interval: 25 m Starge: 5 s   Image: Interval: 25 m Starge: 0.004 s   Image: 10 Image: 98 Image: 98 Image:   Image: 10 Image: Starge: 0.05 s   Image: 10 Image: Starge: 0.05 s   Image: 10 Image: Starge: 0.05 s
OK Cancel Help	OK Cancel Help

#### Use "Framework" dialog to enter survey parameters



Move receiver line and source line upper the observation surface – they automatically adjust to the surface relief



Magnify area where must be first source position and move first source icon to its position (upper surface) You also can more precisely set observation surface



Use "Transparency"->"Opaque" button to see foreground picture only



Use "Transparency"->"Transparent" button (or intermediate slider position) to see foreground and background pictures



model rectangle. Save ready for calculations model.



You are ready for calculations with the model grid

