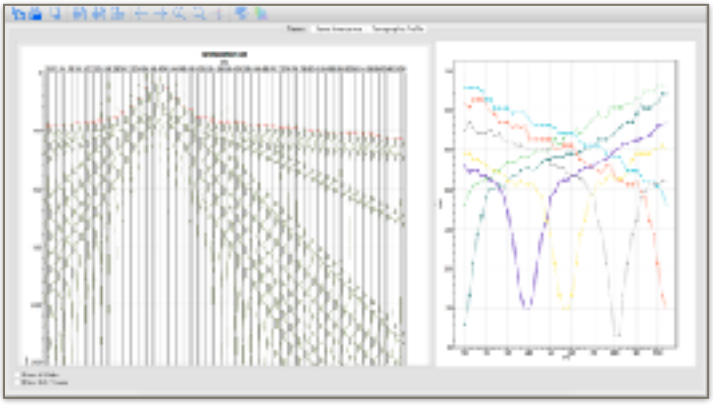
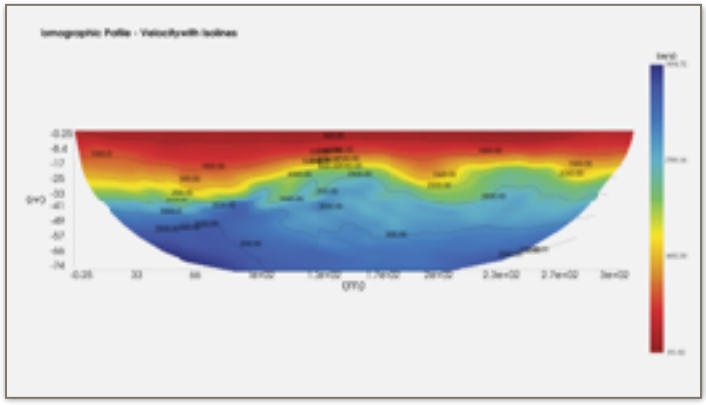
smartTomo 2022.0

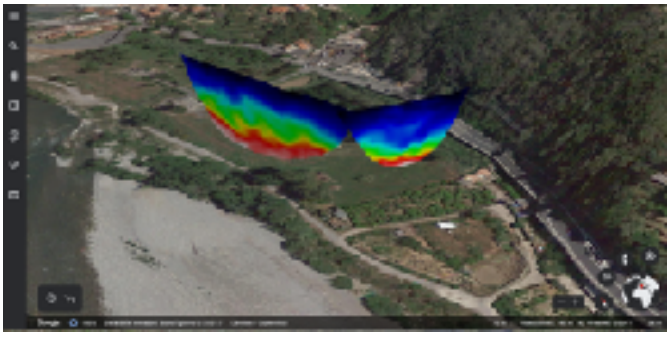
smartTomo is a software for travel time tomography that make possible a fast imaging of the underground distribution of velocity. The result model of velocity is the product of the iterative optimization of the starting model. The user can define the initial model to fit the knowledge of the geology of the area of survey. SmartTomo uses a parallel implementation of the studies of *Moser, T. J. "Shortest path calculation of seismic rays." Geophysics 56.1 (1991): 59-67* implements a Simultaneous Iterative Reconstruction Technique to optimize the result. All the implemented algorithms have been designed to fit modern multicore CPU and reduce memory usage.





Key points

- Both manual and automatic first brake picking.
- The computation of tomographic at leasts needs the check by the user of automatics pickings
- More seismic arrays can be put together to compose a unique seismic profile.
- The initial model of velocity can be user defined.
- The initial model does not influence heavily the result.
- The project size is limited only by memory size.
- Users can set limit to the velocity range and smoothing of the result.
- The result can be plotted using predefined or user defined color palettes.
- Both plot and data tables can be exported in different formats (**PNG, PDF, ODT**);
- The tomographic profile can be exported to XZ-Velocity file compatible with Golden Software Surfer and to KML compatible with Google Earth



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Requirement: Windows 10 (64bit) or newer; RAM 6 GB or more;
It is available for MacOS too.