Automatic Seismic Image Analysis Tool

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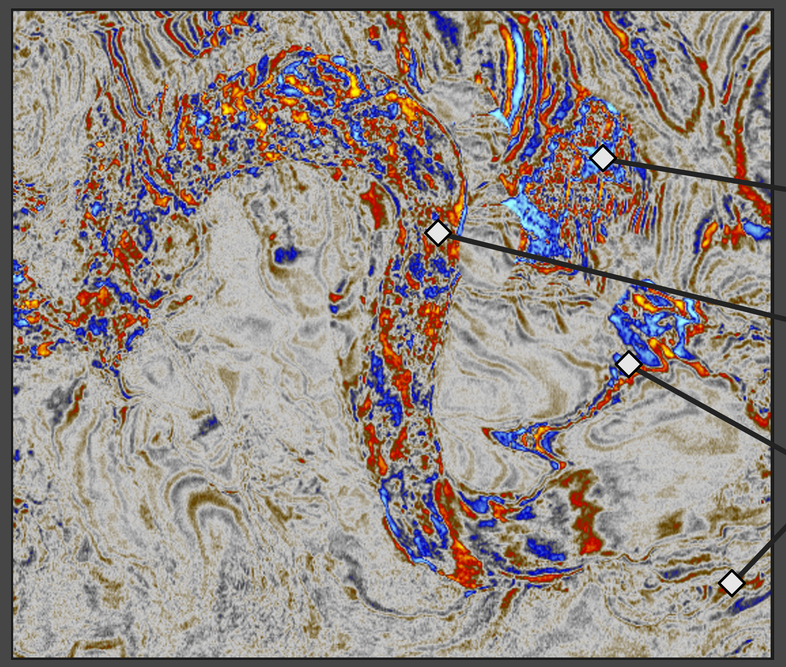
Our goal is to create a program that can analyse underground images automatically.

Today these images are analysed manually which is both expensive and time consuming.

Finding objects underground is done using reflection seismology. It uses sound waves to record a 3D volume, which is then divided into 2D images for analysis.

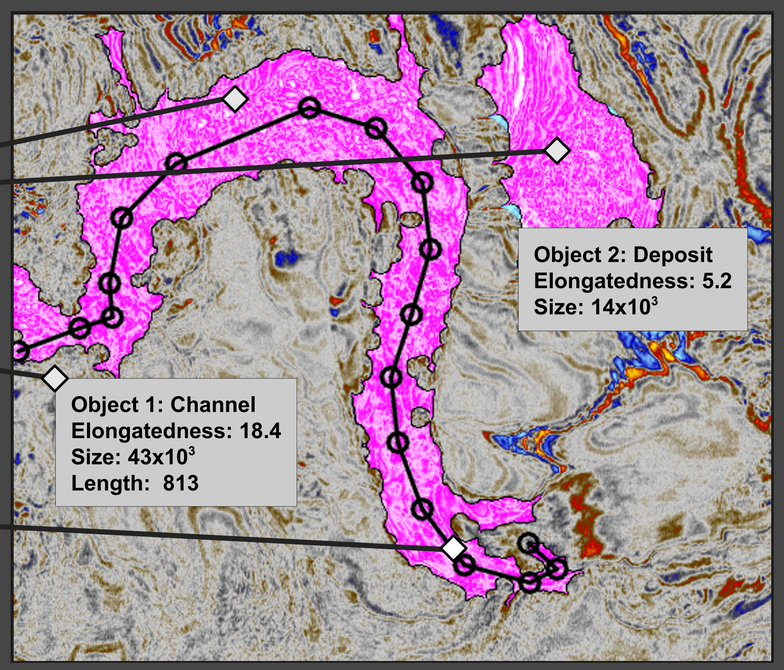


What we can do

Find and mark all objects.

Give information about each object

Give a vector representation of channels for advanced measurements



We have successfully created a prototype program that automatically finds and classifies underground objects in seismic images.

There are vast possibilities for improvements and extensions. Adding advanced geometric measurements, supporting different kinds of images and even do the analysis directly on 3D volumes.