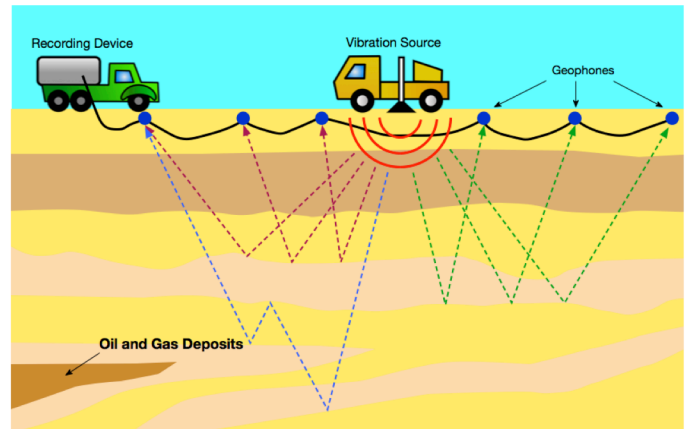


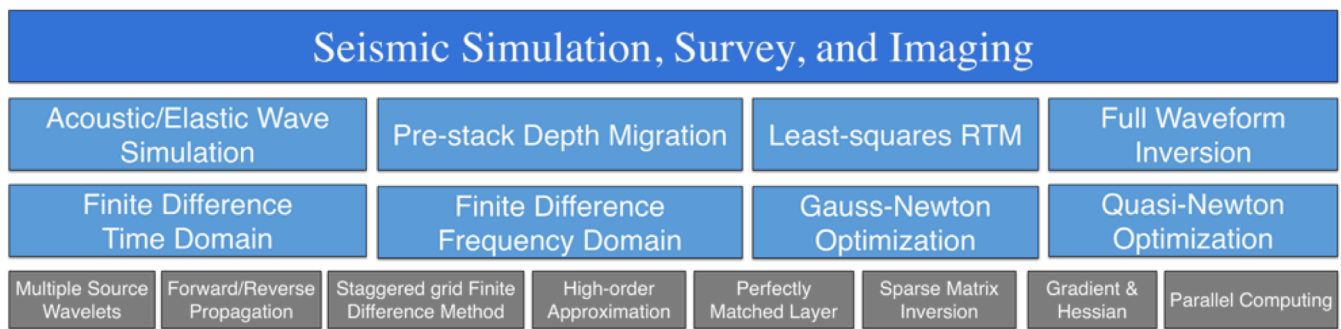
## Purpose of S3I

- Provides an easy MATLAB®-based library to simulate seismic imaging
- Produces synthesized data for any given velocity model
- Targets students as well as professionals in exploration geophysics
- Provides an efficient implementation of the processing pipeline for seismic imaging
- Provides a platform to build other features such as interpretation and reservoir modeling



Seismic Survey

## Structure of S3I Library



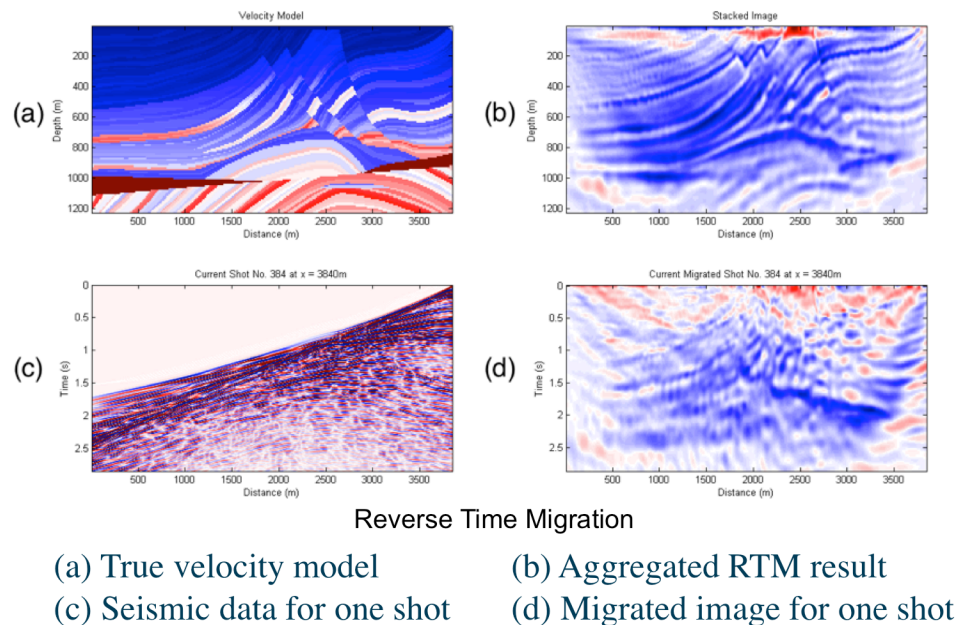
## Main Functions of S3I

- Acoustic/elastic wave simulation
- Pre-stack depth migration
- Least square RTM
- Full waveform inversion

## Other Features

- Open source
- Detailed user guide
- GUI for seismic survey
- C MEX-files enhanced
- Parallel computing

## Imaging Example



Download url: [cegp.ece.gatech.edu/s3i/](http://cegp.ece.gatech.edu/s3i/)