Cray customers

are amazing.

HPC User Forum – Chris Lindahl, Product Marketing Director, Supercomputing

Amazing transparency.

University of Illinois at Urbana-Champaign researchers Wendy K. Tam Cho and Yan Liu are restoring fairness to electoral district boundaries.

CRAY

Amazing forecasts.

NOAA, NCAR, and NCEP are saving lives and protecting property through accurate and timely flood forecasts

CRAY

Amazing clarity.

Sverre Brandsberg-Dahl and the team at PGS are generating high-resolution 3-D seismic images that more accurately locate oil and gas resources.
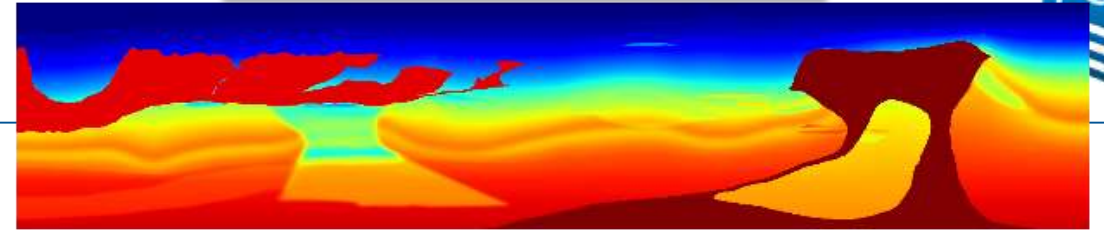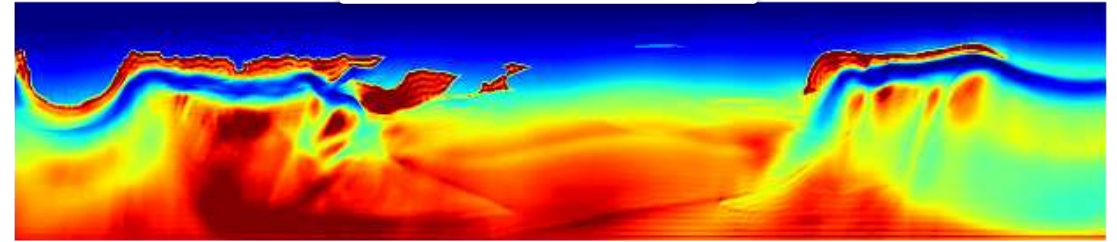
CRAY

A Smarter Machine

"Ground truth" Benchmark

$$\min_{m} \left\| F(m) - d \right\|^2 + / \left(\left\| Q \nabla(m - m_r) \right\|_{L^1} + \int_W P \cdot \nabla(m - m_r) \right)$$

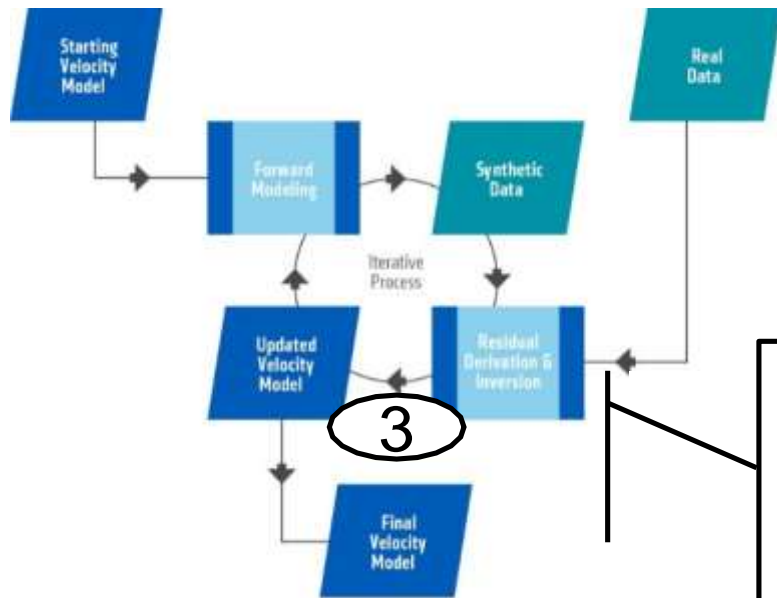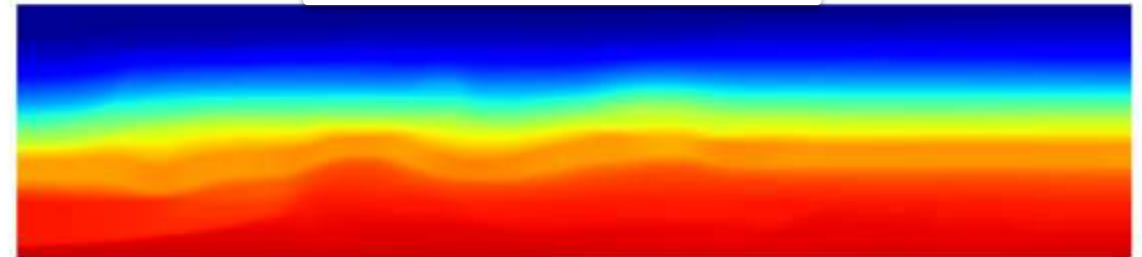| data misfit | weighted TV | Steerable Variation |

Conventional FWI

With Machine Learning

③

Abel for Machine Learning
A multi-dimensional, ill-posed optimization problem that is far from automated and requires lots of skilled resources' intervention — sometimes more art than science in many cases....
Implement state-of-the-art Machine Learning on Abel

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