



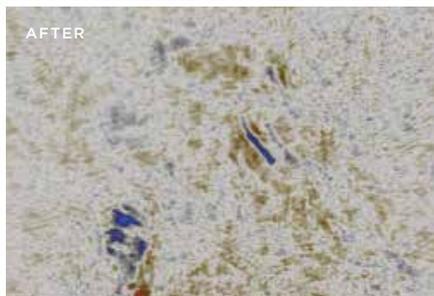
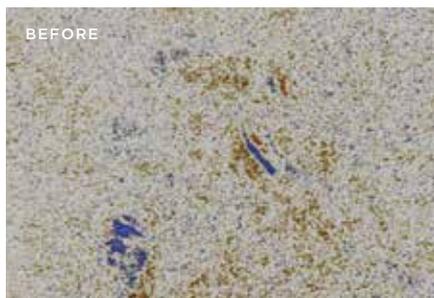
Time-lapse Processing

Our complete time-lapse processing and imaging toolkit can really make a difference.

This includes:

- › Comprehensive time-lapse attribute maps and volumes
- › Deterministic deghosting
- › Shot-by-shot designature
- › Time-lapse co-denoise
- › Global and local time-lapse matching
- › Multi-attribute time-lapse binning
- › Time-lapse de-stripping

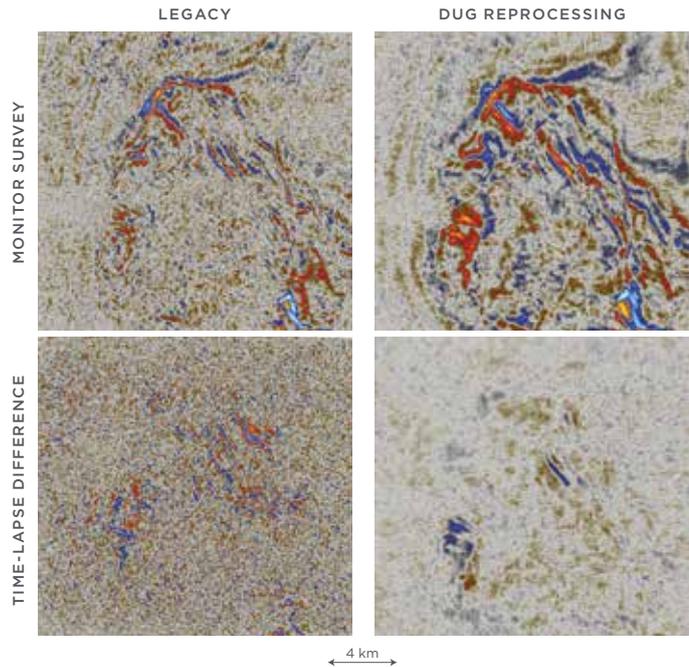
TIME-LAPSE CO-DENOISE



← 4 km →

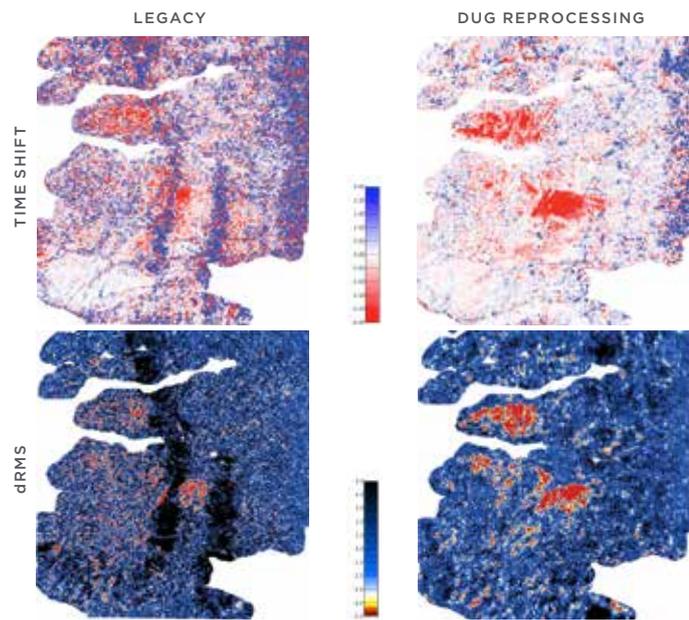
01. (top) Difference timeslice (baseline - monitor) before time-lapse co-denoise. (middle) Difference timeslice after time-lapse co-denoise. (bottom) Difference between the top and middle images highlighting the removed noise. Our algorithm describes a model such that baseline and monitor share a "common signal" while each contains a unique "innovation signal". The data misfit not explained by this model is treated as noise. The signal components are simultaneously recovered using an inversion algorithm.

SUPERIOR IMAGING OF TIME-LAPSE SIGNALS



02. (left column) Legacy processing results showing a full-stack time slice through a monitor survey (top) and a difference (baseline - monitor) time slice (bottom). (right column) Our time-lapse reprocessing results highlight much improved signal-to-noise ratio and clearer imaging of the time-lapse signals.

SUPERIOR TIME-LAPSE ATTRIBUTES



03. (left column) Legacy processing results showing time shift and dRMS attributes for a target horizon. (right column) The same attributes after our time-lapse reprocessing. Note the improved resolution and definition of the time-lapse response.

*Data courtesy of Equinor qualification project