SEISQUARE

optimize &
quantify
UNCERTAINTY

Through Stochastic, Fast & Consistent Conditioning
to best calibrate your seismic & well data

BRONZE
$10K

- One-time project
- including **5 maps**
we apply SQA & SDC on
- Your 2D Time/Depth
interpretation
- Your 2D PSDM interval Velocity
derived from your 3D cube

SILVER
$30K

- 12 months contract
- including **30 maps**
we apply SQA & SDC on
- Your 2D Time/Depth
interpretation
- Your 2D PSDM interval
Velocity derived from your 3D
cube

GOLD
$50K

- 12 months Contract
- including **100 maps**
we apply SQA & SDC on
- Your 2D Time/Depth
interpretation
- Your 2D PSDM interval
Velocity derived from your 3D
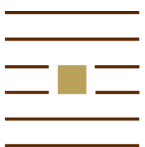cube

Ask Your Free Test

SERVICE OFFERING

SQA & SDC ON

TIME & VELOCITY MAPS

SEISQUARE

SPATIAL QUALITY ASSESSMENT (SQA)

Definition

SQA is about assessing the spatial consistency of seismic data by computing Spatial Quality Indexes.

Identification of spatial correlated and random noise, on one hand, and spatial correlated signal, on the other.

Service

Quantifies the reliability of geophysical processing outputs at the time of processing supervision and/or before engaging in further geophysical interpretation or modeling steps.

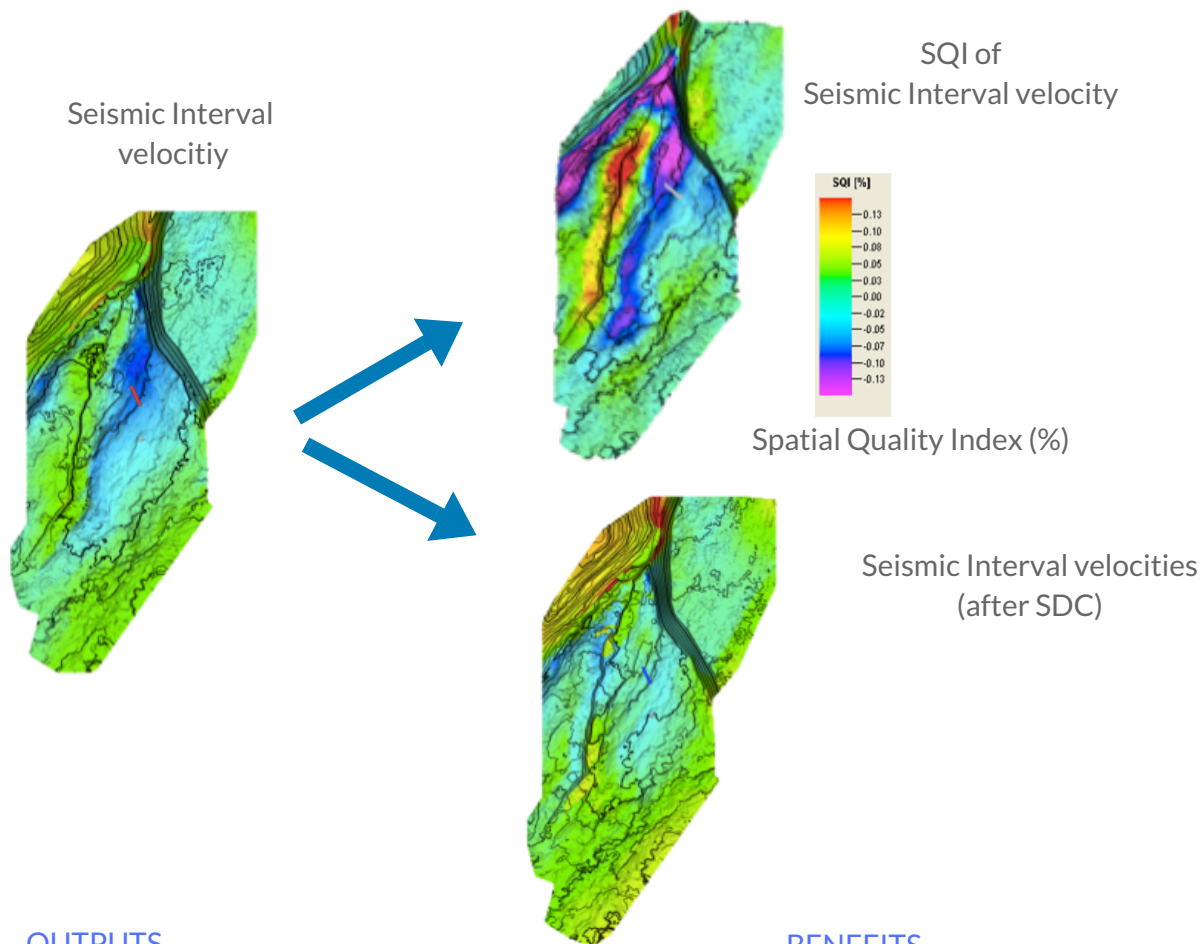## SPATIAL DATA CONDITIONING (SDC)

Definition

SDC is based on:
- "best estimating" of the spatial components from geophysical data sets that contribute to a considered geophysical processing, interpretation or geomodeling workflow
- "filtering-out" spatial components from geophysical data sets that are irrelevant to a considered geophysical processing, interpretation or geomodeling workflow.

Service

Optimizes the contribution of geophysical data to further geophysical processing, interpretation and workflows. SDC outputs are systematically associated with reliable and quantified confidence intervals, for fast and easy assessments by the geophysicist.

OPTIMIZE & CHARACTERIZE BOTH PSDM/PSTM VELOCITY FOR DEPTH CONVERSION

TRHOUGH SQA & SDC

Seismic Interval velocitiy

SQI of
Seismic Interval velocity

Spatial Quality Index (%)

Seismic Interval velocities
(after SDC)

OUTPUTS

- 2D Spatial Quality Index on seismic interval (layer) (spatial noise/signal ratio)

- 2D conditioned (filtered) seismic interval (layer) velocities («best estimation» of the PSDM velocities that are consistent with time interpretations)

BENEFITS

- Fast turn around times
- Optimizing calibration to well velocities
- Optimizing input to velocity modeling and depth conversion
- Consistent uncertainty characterization and propagation

QUANTIFY THE RELIABILITY OF 2D TIME INTERPRETATION MAPS

TRHOUGH SQA & SDC

Time Interpretation

Spatial Quality Index (%)

Time Interpretation (after SDC)
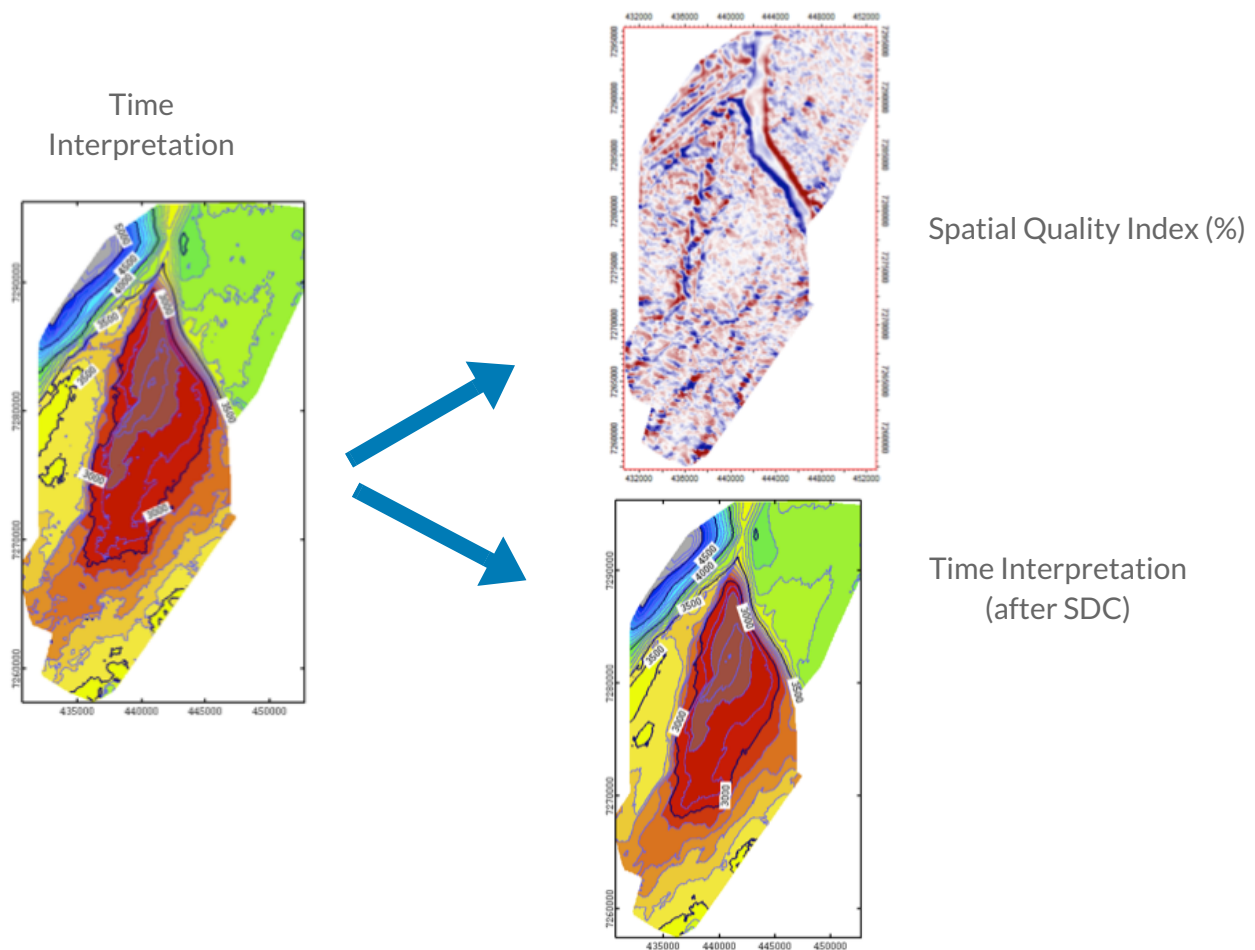
OUTPUTS

- Spatial Quality Index on time interpretation maps (spatial signal to noise ratio)
- Conditioned (filtered) time interpretation maps (« best estimation » of the spatial components that are contributive to interpretation)
- Contributive to the process we want to use the Time interpretation (TDC)

BENEFITS

- Ensure structural consistency
- Control on picking artefact smoothing