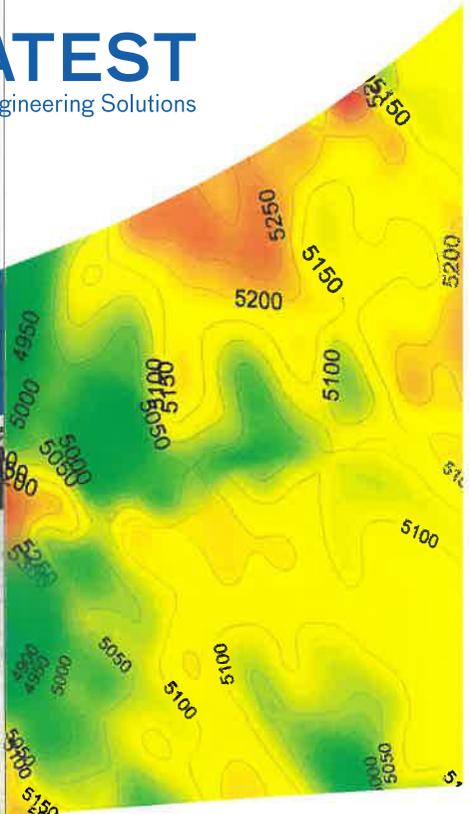


SOFTWARE BENEFITS

- + EASY AND QUICK TO USE
- + WIZARD PROCESSING PROCEDURE
- + ANY TYPE OF GEOMETRY
- + MANY APPLICATION FIELDS
- + IMMEDIATE EXPORTATION RESULTS
- + AUTOMATED DOWNLOADING PROCEDURE FOR SOLGEO EQUIPMENT
- + MULTILANGUAGE ITALIAN/ENGLISH



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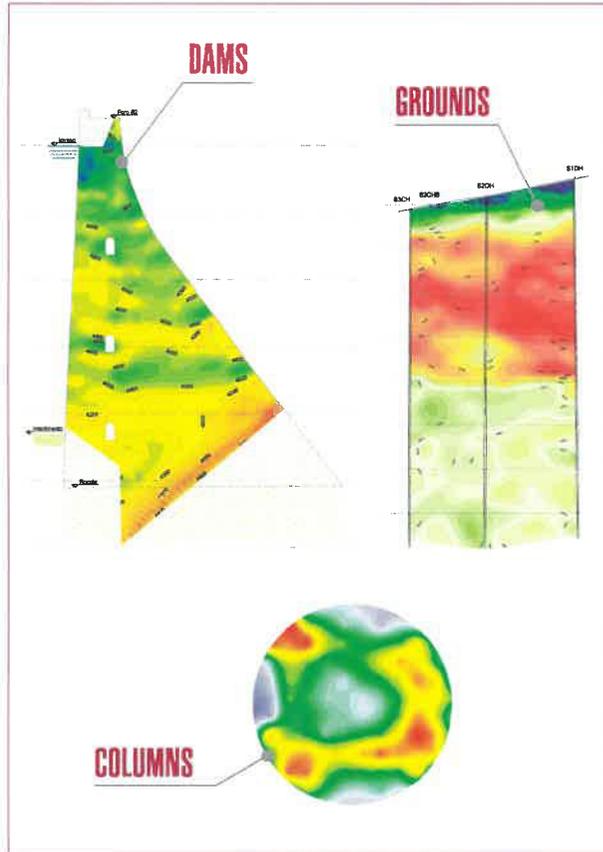
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aTOM
TOMOGRAPHIC
ELABORATION
SOFTWARE

WHAT IS aTOM

SOFTWARE AIMED TO TOMOGRAPHIC PROCESSING FROM ULTRASONIC, SONIC AND SEISMIC DATA



○ PRINCIPLE

Velocity fields are obtained running an iterative algorithm, SIRT (Simultaneous Iterative Reconstruction Technique)

○ METHOD

Tomographic processing allows to get 2D maps of velocity distribution of the waves, occupying an high number of travel times

aTOM'S WORKING STEPS



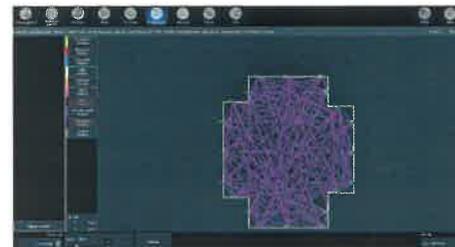
○ STEP 1 PRELIMINARY DATA ANALYSIS

aimed to select ray paths to be elaborated, excluding outliers



○ STEP 2 CREATE PERIMETER & MESH

investigated area to be processed is defined by transmitters & receivers points. This area is split as rectangular grid (each node has a specific velocities value)



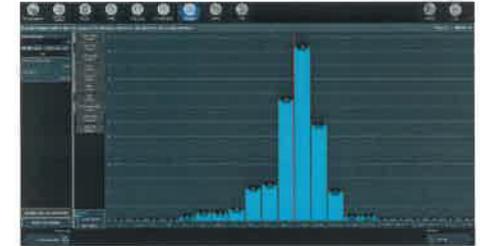
○ STEP 3 COMPUTING RAY PATHS

elaboration is iteratively performed and "best fitting" travel times from transmitters to receivers are computed

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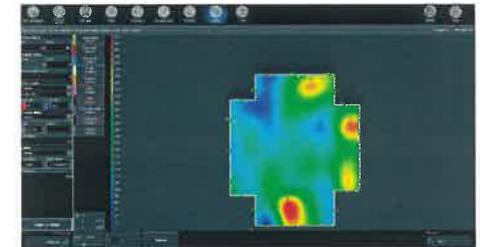
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○ STEP 4 CHECKING HISTOGRAMS

further, to get a more reliable calculated model, clearing histograms is also possible



○ STEP 5 TUNING RESULTS

results are showed as tomograms, which shows the variations of the velocity field

