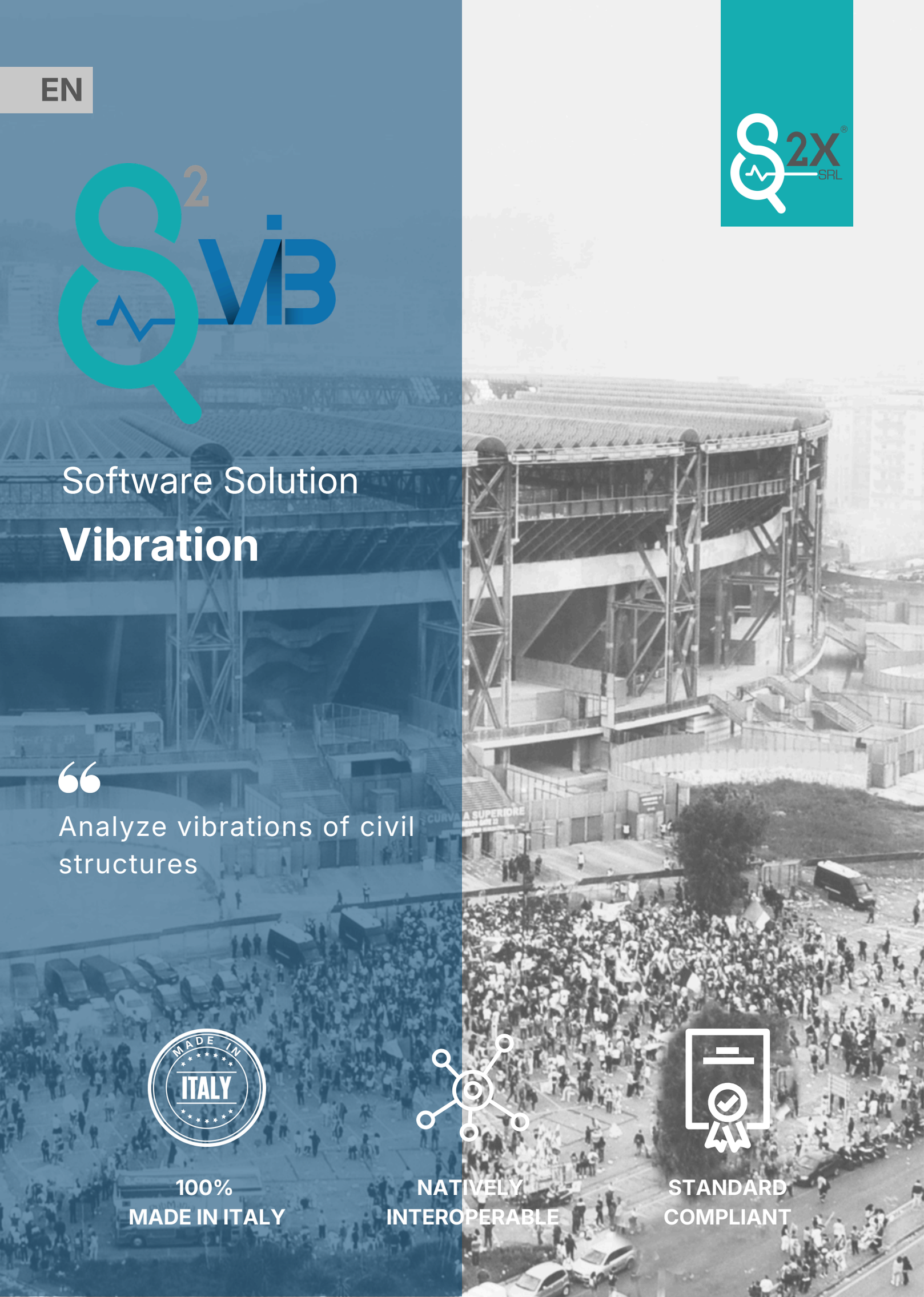
EN

S2VIB

Software Solution

Vibration

Analyze vibrations of civil structures



100%
MADE IN ITALY

NATIVELY
INTEROPERABLE

STANDARD
COMPLIANT

WHY MEASURE VIBRATIONS?

Building vibration measurement can serve various purposes: problem identification, verification or control, and dynamic behavior characterization for diagnostic or forecasting purposes.

WHEN TO MEASURE VIBRATIONS?

Vibrations can cause discomfort and apprehension to building occupants, cause damage or malfunction of equipment, or lead to a reduction in the value of the building through threshold damage in the form of cracks or damaged architectural elements.

DEEP TECH



WHY S2-VIB?

COMPLETE ANALYSIS

S2-VIB is the intuitive software to analyze structural vibrations. The software guides the user through the application of appropriate data processing methods and checks of vibration limits to assess the effects of vibrations on buildings that might affect serviceability or even cause damage to finishes. The analysis of vibration amplitude has several applications in the civil engineering field, including:

01 The condition assessment of buildings located nearby construction sites

02 Checks of vibration levels induced on nearby structures by industrial facilities

03 Check of the isolation performance of industrial machines with respect to vibration transmission

CODE COMPLIANT

S2-VIB is a powerful and versatile software compliant with relevant standards for the analysis of vibrations effects on structures (UNI 9916, DIN 4150, BS 7385, SN 640312) and the effects on user comfort (UNI 9614).

USER-FRIENDLY

An intuitive interface guides the user through the entire analysis process: from data input and selection of the relevant standard to the evaluation of the analysis results.

MAIN FEATURES



CONFIGURATION AND STANDARD SELECTION

The software allows you to easily configure the installed system and choose the reference standard. You can view the acquired time series, filter and decimate them, select the relevant events, and perform the Fourier transform.



STRUCTURAL VIBRATION ANALYSIS

For each event and each measurement point, the software performs data processing and checks compliance with the threshold values specified by the selected standard.



USERS' COMFORT

In the same way, the software allows you to analyze vibration measurements and verify compliance with threshold values with reference to personal well-being.

DATA FORMAT

You can load data, both in terms of acceleration and velocity, from the most common file formats: ***.tdms, *.lvm, *.csv, *.txt, *.dxd**

BUILDINGS

Vibration monitoring under vehicular traffic excitation of residential buildings for the assessment of users' comfort.



CONSTRUCTION SITES

Monitoring the vibration levels induced by construction sites on nearby buildings.



INDUSTRIAL PLANTS

Monitoring the vibration levels induced by production machinery or industrial plants on nearby buildings.



TECHNICAL ASSISTANCE AND UPDATES

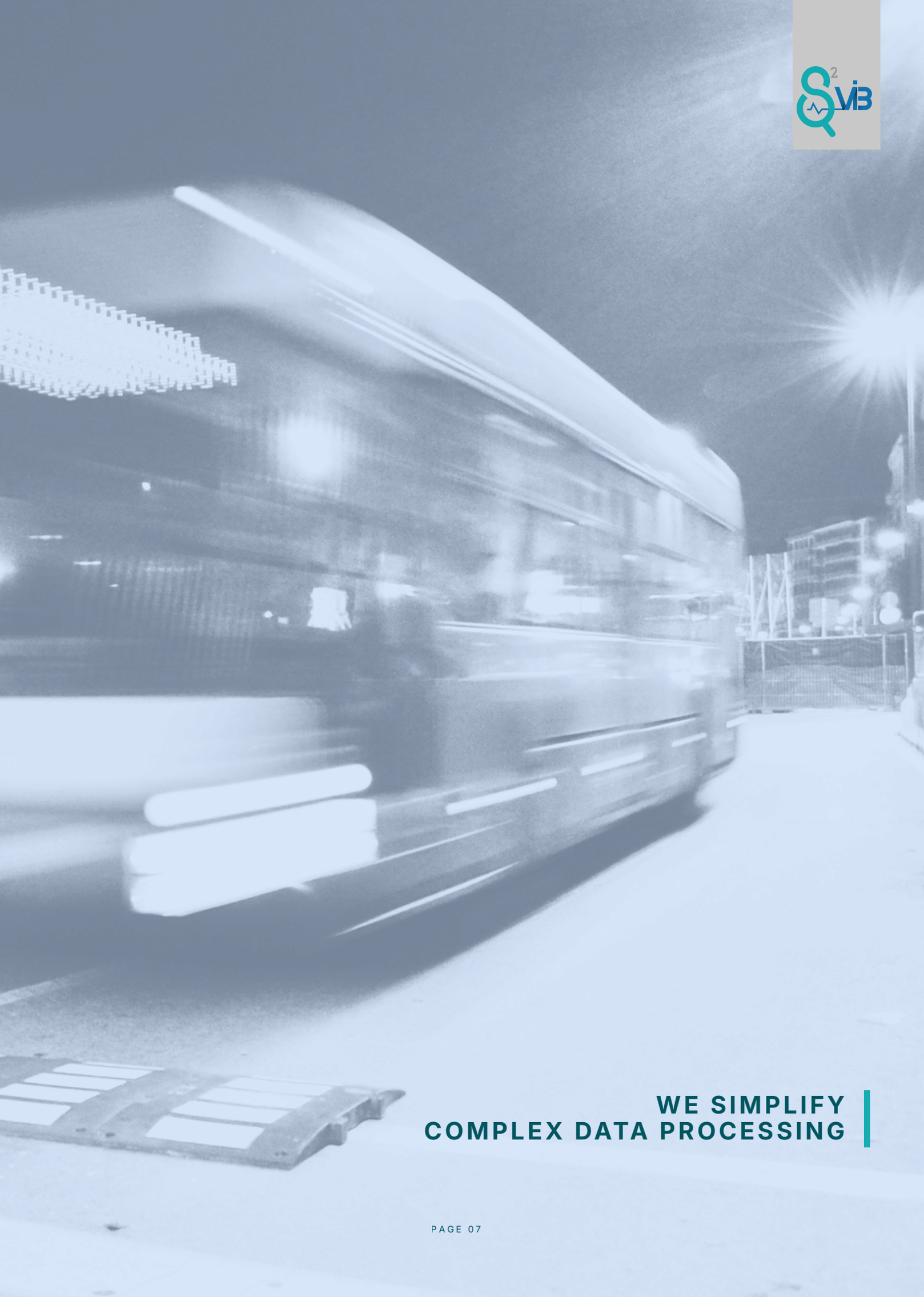
Technical assistance is available in Italian and English, via phone, e-mail or video call. Technical assistance and updates for one year are included for all licenses. Video tutorials are also available on the S2X YouTube channel.

TECHNICAL DETAILS

License type	STRUCTURES	COMFORT	FULL
Uploading data files			
Import data from files of various formats (.tdms, .txt, .csv, .lvm, .dxd)	✓	✓	✓
Regulations			
UNI 9916 (DIN 4150, BS 7385, SN 640312)	✓	–	✓
UNI 9614	–	✓	✓
Custom	✓	–	✓
Data processing and event selection			
Visualizing Time Series	✓	✓	✓
Automatic event selection	✓	✓	✓
Decimation	✓	–	✓
Data filtering	✓	–	✓
Weighted filter	–	✓	✓
Data analysis			
Data Statistics	✓	✓	✓
Numerical integration	✓	–	✓
Global analysis	✓	✓	✓
Analysis by event	✓	✓	✓
Analysis for single measuring station	✓	✓	✓
Checking the limit thresholds	✓	✓	✓

NATIVELY INTEROPERABLE

S2-VIB was designed and developed to be natively interoperable with other S2X software, such as S2-SHM for structural monitoring and S2-DDA for data acquisition. It also supports the main data formats returned by commercial measurement systems.



WE SIMPLIFY COMPLEX DATA PROCESSING



S2X® SRL

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