



FROM VIBRATIONS
TO IDENTIFICATION

**FULL SERVICE
IN VIBRATIONS**

COUPLING

NUMERICAL SIMULATION

AND EXPERIMENTAL TESTING



FROM VIBRATIONS
TO IDENTIFICATION

FULL SERVICE IN VIBRATIONS

COUPLING NUMERICAL SIMULATION AND EXPERIMENTAL TESTING

NUMERICAL SIMULATION

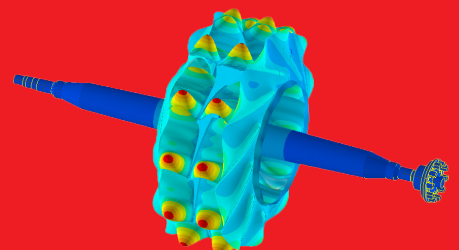
V2i provides a full range of services in the field of mechanical vibrations

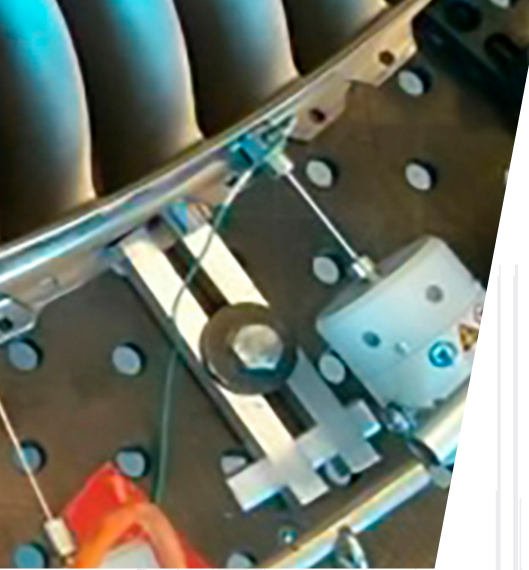
- Based on researches of international repute of the University of Liege in the field of structural dynamics
- Continuously improved and updated by massive R&D programs in close collaboration with Universities

Thanks to its **complementary expertise** in numerical modeling and experimental testing, and thanks to innovative tools, **V2i** offers to its customers the necessary integration of simulation and testing in customized solutions.

- All types of analysis: linear or nonlinear, static, dynamic, harmonic, time and spectral responses
- Fatigue: lifetime prediction, cumulated damage
- Virtual Testing
- Rotor dynamics
- Model correlation and updating thanks to experimental modal analysis and measurements

www.v2i.be





VIBRATION MEASUREMENT

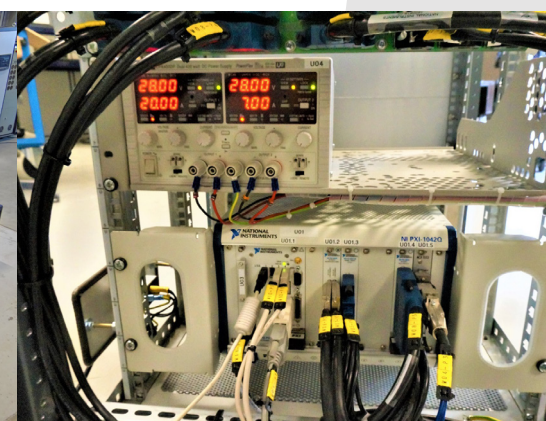
- On the field or in the laboratory
- Wide range of instrumentation and measurement systems
- Modal Analyses and Operating Deflection Shapes
- Rotating machinery diagnostics
- Link to Finite Element Modeling for updating or correlation

SHAKER & ENVIRONMENTAL TESTING

- Wide range of test facilities: hydraulic, electrodynamic and piezoelectric shakers – Climatic chamber
- Excitations: sine, random, combined, shocks
- Vibration standards: MIL-STD, RTCA, ISO 60068, IEEE 344...
- Test facilities developed for aeronautics
- Vibration tool design and manufacturing
- Definition of test specifications
- Link to Finite Element Modeling
- Pre/post testing campaign assistance

TURNKEY MONITORING SOLUTIONS

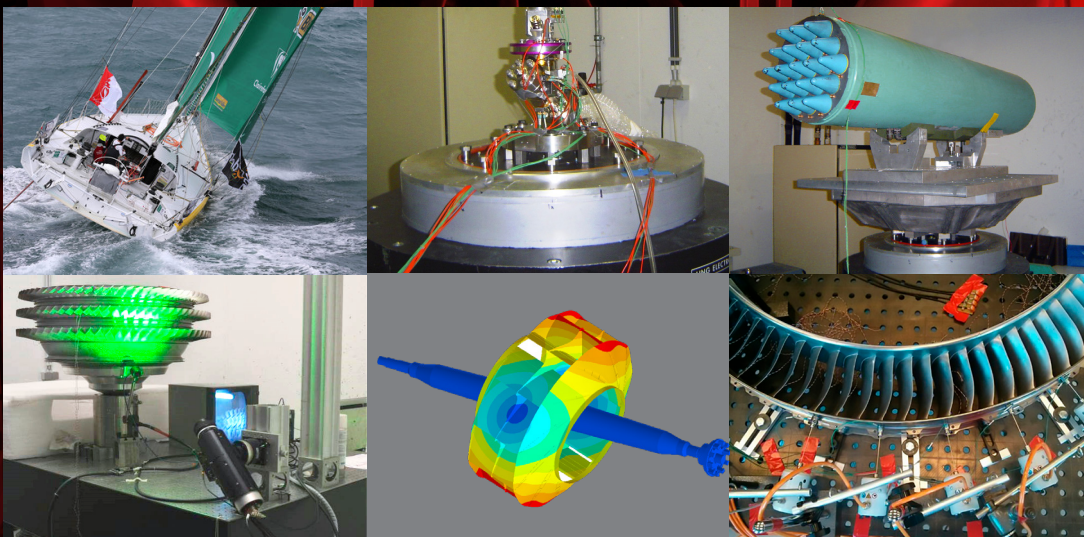
- Fully customized hardware and software for special applications
- End Of Line testing systems
- Measurement systems for test benches
- Condition monitoring: real-time, in-line, off-line
- Embedded softwares and fully autonomous systems
- Data acquisition, processing and analysis
- Various acquisition kind : accelerometer, temperature, strain, camera, I/V ...
- Strong partnership with National Instruments (Labview Certified Developers)





FROM VIBRATIONS
TO IDENTIFICATION

DO NOT HESITATE TO CONTACT US
TO STUDY WITH YOU HOW WE CAN
IMPROVE YOUR BUSINESS
WITH OUR SKILLS.



Contact : Christophe LOFFET, Business Development Manager

V2i S.A.
Avenue du Pré-Aily, 25
Liège Science Park
4031 LIEGE - BELGIUM

+32 (0)4 287 10 70
+32 (0)4 287 10 71
info@v2i.be
www.v2i.be

