

- **Dr. John Mahon – Infrasonic Ltd.**

- Irish owned acoustics and vibration consultancy

- Founded in 2008 by a team of post-graduate engineers from the Dept. of Mechanical Engineering, TCD

- Provide a wide range of consultancy services:
 - Environmental Noise & Vibration Monitoring
 - Occupational Noise & Vibration
 - Building Acoustics
 - Computer Modelling & Noise Predictions
 - Vibration Measurement, Testing & Control
 - Flow Induced Vibration

- The team at Infrasonic Ltd. have actively engaged in the following areas of research:
- **Environmental Noise (EU Directive 2002/49/EC)**
 - Innovation noise mapping methodologies
 - Environmental noise action planning techniques
 - Road traffic noise monitoring methodologies
 - Enhanced dissemination tools for environmental noise
 - Auralisation of noise in a virtual environment
 - 3D web based noise maps
 - Impact of using wind shield during external monitoring
- **Environmental Pollutants**
 - Combined Noise/Air pollutant analysis
 - Air Quality GIS Database



INFRA SONIC

Acoustic, Noise & Vibration Consultants

- **Instrumentation Development**
 - Microphone development
 - Software development

- **Data Analysis Techniques**
 - **Noise source identification and rejection techniques**
 - Coherent output spectrum, signal enhancement and Conditional spectral analysis techniques

 - **Microphone Array Techniques**
 - Near Field Holography
 - Beamforming
 - In-duct modal decomposition

- **Experience in the area of Flow Induced Vibration**
- **Competent in the use of Laser Doppler Anemometry and Hot-wire Anemometry**

- **Infrasonic Ltd. is also actively engaged in research;**
 - Awarded an Enterprise Ireland Innovation Voucher (Dec 2008)
 - Presented research findings at Internoise 2009