

Name of the Organisation	Técnicas y Servicios de Ingeniería, S.L.	
Organisation Short Name	TSI.	
Organisation Type	Private SME.	
Contact Person	Publio Beltrán. Raúl Salinas. Alfonso Moreno.	Position: Manager. Position: RDI Responsible. Position : RDI worker.
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Address	Tower II Pyomar building, 44 Pio XII Av., 28016 Madrid (SPAIN).	
Fields of Activities	<p>Vibration & Noise Engineering Solutions for Marine, Power Generation, Industry and Petrochemical:</p> <ul style="list-style-type: none"> - Noise and Vibrations Measurements and Consultancy. - Predictive or Condition Based Maintenance (CBM). - Protection and Condition Monitoring Systems. - Marine Test and Measurements: Sea Trial Test. - Noise and Vibration Comprehensive Management (Turnkey Vibro-Acoustic Engineering Solutions) from design stage to building and sea trials. - Acoustic Analysis (SEA). - Structural Analysis: Static and Dynamic (FEM). - Experimental Dynamic Tests (Modal Analysis, ODS, etc.). - Modeling and Measurements of Underwater Radiated Noise. - Start-up and Operation Support Services. - Breakdown Consultancy. - Research, Development and Innovation activities. 	
Skills and Expertise Offered	<p>Extensive experience in the areas set out above.</p> <ul style="list-style-type: none"> - Static and Dynamic calculations: Stress, Displacement, Stiffness, Thermal and Strength studies. - N&V prediction. Dynamic tests: Modal analysis, Eigenfrequencies, Mode Shapes, Damping, ODS. - Special Test: Pressure pulse, Dynamic tests with eccentric. Torsional, Axial and Lateral Vibration Measurements in Shaft Lines. - “Noise & Vibration Comprehensive Management” from design stage to building and sea trials. Full package including: N&V Prediction Calculations; Factory Acceptance Tests of Main Machinery and Equipment; URN Prediction Calculation, Onboard Dynamic Tests: Impedance measurements, Modal Analysis, etc.; and finally Sea Trial Tests. Its performance has allowed to get the quietest vessels of the European fleet. 	

	<p>TSI Research, Development and Innovation Department (RDI) is currently involved in three major projects within the FP7:</p> <ul style="list-style-type: none"> - BESST: Breackthroug in European Ship and Shipbuilding Technology - SILENV: Ship oriented Innovative soLutions to rEduce Noise and Vibrations. - AQUO: Achievement of QUIeter Oceans shipping noise footprint reduction.
Role in the Project	<p>Partner. Workpackage Leader.</p>