

**For Partner Search:** Please do not forget to fill the expected requirements for the possible project partner(s).

<b>Program Type</b> (If you are not sure, please do not fill)	
EUREKA	<input type="checkbox"/>
EUREKA Clusters	<input type="checkbox"/> If yes, name of Cluster
EUREKA Umbrellas	<input type="checkbox"/> If yes, name of Umbrella
EUROSTARS	<input checked="" type="checkbox"/>

<b>Contact Person Details</b>	
Title / Name Surname	Dr. Eng. / Mustafa Uysal
Position	General Manager
E-mail / Phone	muysal@teknotasarim.com / + 90 224 2808490

<b>Organization Details</b>	
Name	Tekno Tasarım
Address	Uludağ Üniversitesi Görükle Kampüsü Ulutek Uludağ Teknoloji Geliştirme Bölgesi -Nilüfer
City / Country	Bursa / Türkiye
Website	www.teknotasarim.com
Type of Organization	<input checked="" type="checkbox"/> SME <input type="checkbox"/> Large Company <input type="checkbox"/> University <input type="checkbox"/> Research Institution <input type="checkbox"/> Administration <input type="checkbox"/> Other: please specify:
Number of Employees	<input type="checkbox"/> <10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> 51-100 <input type="checkbox"/> 101-200 <input type="checkbox"/> 201-250 <input type="checkbox"/> > 250
Last Turn Over / Balance Sheet	/



# EUREKA - EUROSTARS



TÜBİTAK

## Project Pre-Application Form

EUREKA eurostars™

Describe the activities, products, services and expertise of your organization:

Our company gives services in design, engineering, testing, manufacturing, training, consultancy and software development. We have experience in local Tubitak funded projects. We have been in modernisation projects of F4 and F5. We worked in V227 Ford Otosan Connect project. We were supplied PSA Karsan Partner development program.

We developed products on aerodynamic calculation or automate for testing process. We also developed user interface for machine tools. We give consultancy to the local marine developers on structural and testing side. We use general purpose softwares to give solutions for their projects. We are generating engineering solutions to the companies with using state of the art technologies also we sell some equipments with adding softwares on it to increase their capability.

We have been in some EU projects as a part of EU Frame Work Programs.

<b>Project Details</b>	
<b>Project Title</b>	<b>Marine Environment Noise Detection System</b>
<b>Keywords</b>	<b>Marine environment, NVH, Noise detection, Hull vibration</b>
<p><b>Describe your project:</b></p> <p>Marine noise pollution undesirable as it affects swimmers, drivers and it can disorientate whales and other mammals.</p> <p>Minimization of radiated underwater noise requires source power monitoring and the ability to detect and recognise defects in machines generating the radiated noise. With MENDS, hull vibrations are detected using a technology based upon plastic diffraction grating and fibre optic cables. This allows vibration monitoring to take place in areas where there is a risk of explosion ie. the sensors are intrinsically safe. Fibre optic sensors can be used in areas of high radiation nad where strong magnetic fields exist. A micro-computer based data acquisition and analysis sistem will continuously monitor hull vibration patterns sampled at various locations on the hull. Advanced signal processing techniques will be deployed to allow machine causing the hull vibration to be located. The hull vibration to radiated noise transfer functions will be applied to calculate the far field radiated noise field including directionality. Software can be used from different locations.</p> <p>The system will be capable of linking to the main and auxiliary machinery control systems so as to enable optimal operation of all plant while controlling the total radiated noise.</p>	
<p><b>Describe the innovative part of your project:</b></p> <p>In this project a new software for NVH applications on marines will be developed. There will be a software development for enabling users to identify NVH characteristics definition of marines with quick installation, reporting units and easy user interface. All data will be presented as html pages using RSS feeds and hence allow any authorized person full access to the current radiated noise status.</p>	
<p><b>Describe the market expectations of your project:</b></p> <p>This project is focused on marine R&amp;D engineers but at the end of the program the product most probably will be preffered by maintenance department of the marine companies. By this product there will be direct and indirect sales targets. Direct sales will be as software selling, cosultancy selling and problem solving. Indirect sales will be computer selling for this purpose and also instrumentation will be potential market area. With this product we would like to cover 60% of the local markets and 15% of the European market. According to the performance of the program, that will be potential Far East and US countries as market.</p>	



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**Possible Partner Profile**

Type of Partner Needed  
*(multiple choices are allowed)*

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> SME | <input type="checkbox"/> Large Company                   |
| <input type="checkbox"/> University     | <input checked="" type="checkbox"/> Research Institution |
| <input type="checkbox"/> Administration | <input type="checkbox"/> Other, please specify:          |

Desired country(s) for partnership, if any

Describe the expertise of possible partner(s) required for your project:  
 In this project we are looking for partners who are expert and can support us for NVH applications on Navy on theoretical and practical aspects. Also Ship builders or engineering offices are welcomed to work with us

Describe the role of possible partner(s) in your project:  
 Our partners will identify the requirement of NVH testings at ships and will give the requirement. Also will arrange basic testing areas. We will be in cooperate with them to develop usefull engineering testing software together

