

## **Istanbul finds peace in 'OBSERVER Remote Noise Monitoring & Alert System'. ECLIPSE provides solution against noise pollution in metropolises...**

"My eyes closed, I listen to Istanbul..." says Orhan Veli in his poem. Those, who lived in İstanbul years ago used to hear only birds chirping. The prayers from Sultanahmet used to leave its thereafter into silence and peace. Even the street sellers would not like to disquiet İstanbul, shouting their presence. The residents of İstanbul lived in silence and peace for years and the guests visiting İstanbul had the privilege to listen to İstanbul, as Orhan Veli once said.

Years went by; İstanbul grew and grew. The enchanting melody of İstanbul left itself to mere noise with its more than 10 million population.

Noise pollution has been an environmental issue in İstanbul, as it has been in the other global metropolises. To solve the problem in İstanbul, first Ministry of Environment and Forests, then İstanbul Metropolitan Municipality took measures. Yet, measurements taken by mobile noise measurement devices have been limited to inspection period. Continuous measurement, statistical analysis of these measurements and alert receipt was not possible in the systems available.

Eclipse has been commissioned by İstanbul Metropolitan Municipality for research and development work to prevent environmental noise pollution in İstanbul. As a result of this work, noise data that is collected by the noise measurement stations mounted at various locations, is analysed and transferred to Municipality's central server over Turkcell's EDGE infrastructure by Eclipse telemetry devices. The noise level can be monitored by cell phones, main server and internet through the control application developed by Eclipse. Furthermore, as the specified decibel limits are exceeded, the authorized inspectors are alerted by sending SMS messages directly to their cell phones.

Eclipse Remote Noise Monitoring & Alert System that has initially been tested in Ortaköy and Beylerbeyi has now been set up at 30 different locations in İstanbul. In case desired, the system's station locations can be changed. The system is an environmental application that operates on renewable solar energy contributing to the prevention of noise pollution.

### **About Eclipse**

Founded in 2002, Eclipse serves industry, consumers and research institutes in AMR (remote meter reading, energy automation) and M2M area. Eclipse is cooperating with Turkey's leading GSM operator Turkcell to provide the best of breed M2M solutions to our customers. In telemetry and M2M applications, we are Turkcell's "Corporate Solution Partner". Putting major emphasis on quality, innovation and creativity, Eclipse is mainly a research and development company. We have the flexibility to develop software and hardware to support our standard products in case business processes require.

Eclipse has realized many projects on real-time remote monitoring and control of

- radon gas, GPS and water resource analysis data for earthquake modelling,
- parameters like noise, heat, humidity, pressure, fume, vibration,
- server rooms, machine breakdowns,
- electricity and water meters, natural gas meter and correctors,
- flowmeters to prevent water leakages,
- reactive energy consumption.

Please visit

- İstanbul CeBIT Eurasia Bilişim 2007 Hall 1 – Eclipse Booth M1 or Hall 7 Turkcell Booth,
- [www.eclipse-tr.com](http://www.eclipse-tr.com) web-site

for more information on the products and solutions of Eclipse.