



ENVIRONMENTAL INFORMATICS

in Kuopio Science Park

*Measuring, analyzing and modeling of Environmental Information
- State of the Art Tools and Services for Decision Making*

Environmental Informatics is one of the fastest growing areas of environmental science and technology. To understand the complex nature of environmental phenomena there is a need to have access to cutting edge knowledge and technology

- highly specific sensors
- top-level measuring systems
- real-time monitoring
- multidimensional analysis
- optimization methods

It is important to capture the whole picture with all its spatial relationships to understand how global phenomena interact with each other.

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University of Eastern Finland and local high-tech companies represent an internationally recognized centre of expertise in Environmental Informatics, which is applying information technology to environmental issues. The size and complexity of environmental data demand advanced computational approaches to integrate information from a variety of sources. With Environmental Informatics, new solutions to environmental problems can be found more quickly and effectively. The users and clients can benefit from the gained higher level of information by more targeted actions and comprehensive view of the phenomenon.

The actors in the network of Environmental Informatics provide a broad range of high quality services and products

- waste collection optimization and logistics
- bioprocess monitoring
- process development and troubleshooting in process industry
- emission and air quality measuring
- air pollution and noise modeling
- design, development and manufacturing of detection products and systems
- geographic information systems

The research group of Environmental Informatics at the University of Eastern Finland focuses on research and education using modern computational methods, e.g. neural networks, genetic algorithms and spatial analyses. These methods are useful for analyzing and modeling environmental problems as well as in the development of systems for continuous monitoring of the environment.

The collaboration between companies, research institutes and international partners has given birth to successful innovations. There are companies focused on providing services that speed up the product development process and the creation of new services in the environmental field.

APL Systems Ltd.

www.apl.fi



APL Systems' primary field of business is long term environmental noise measurement. APL Systems has developed Aures, the wireless noise measurement device, capable of long term multipoint noise measurements. Aures has been designed with Civil Engineering, Energy and Traffic applications in mind. APL Systems also provides services for dealing with the wealth of acoustical data produced by Aures.

Ecomond Ltd.

www.ecomond.com/en



Ecomond Ltd. is a software company specializing in producing planning and control systems for waste management logistics. Its main products are TCS -Opti and Transport Control System (TCS), which are used for optimizing routes, cargo, and fleet. Furthermore, the products help in achieving the most efficient utilization of personnel and managing a company's logistics chain automatically and in real-time.

Environics Ltd.

www.environics.fi



Environics Ltd. is a high-tech enterprise providing a full range of services and products for chemical, biological, radiation, nuclear (CBRN) detection branch. Environics provides information about situational awareness and consequence management through its sensors, detection instruments, integrated networks and reconnaissance vehicles.

SYMO Ltd.

www.symo.fi



SYMO Ltd. offers services for air quality and noise research and measurement as well as for product development projects. SYMO's regulatory compliance services include emission and air quality monitoring, air pollution and noise modeling. SYMO also undertakes environmental consultation and the development of equipment and methods.

Visipoint Ltd.

www.visipoint.fi



Visipoint produces data exploration and visualization software for environmental and life sciences. Our data analysis and visualization software has been used to analyze soil types, forecast air quality, identify pesticides, and monitor sulphur emissions etc. Our virtual screening software can be used for assessing the potential types of bioactivity of interesting molecules found in environment.