

# Websense



## Development of a Facility Monitoring System by using new generation equipments



### Your Issue

In the field of facility management, too many valuable human resources are wasted on tracking, recording, and analyzing physical parameters and data. The main challenge to companies is that data obtained from physical parameters on a given site is available for observation, control, and analysis only at the physical site and cannot be recorded and/or monitored from afar. Furthermore, this data cannot be accessed promptly, therefore resulting in delays and roadblocks in the manufacturing and/or delivery processes. Another significant challenge to the facility and/or manufacturing management process is presented by the skyrocketing costs of sensor installation.

### Our mission

- To develop an intelligent integrated solution for data management based on wireless equipment
- To install an advanced embedded system that is able to react instantaneously to the physical world (humidity, temperature, etc.)

- To implement a software solution that is tailored to the specific needs of your company, and that is able to collect, process, and analyze data gathered through our measuring and tracing systems (RFID technology)
- To make the processed data available on-line anywhere around the world at all times on a single, unified platform
- To allow for low-cost, highly accurate data-monitoring and for maximum flexibility in data management.

### Our research challenges

- Coming up with dynamic resource discoveries, semantics for service definition and for querying data,
- Assuring advanced control of environmental parameters allowing for proactive measurements,
- Providing an efficient, flexible maintenance system to enable low-cost monitoring of environment and of resources,
- Avoiding industrial accidents,
- Reducing maintenance time and cost, 100% plant availability.

### Objective of the project:

The goal of Régens' applied research and technology development project is to create a flexible, and easy-to-use telemonitoring structure by using embedded systems and portal technology for the advanced control of industrial environments.

### WebSense Solution

**Product Synopsis:** WebSense enables the automatic collection of reliable data and the analysis of data with sophisticated software technology. Thus, implementing WebSense will enable you to optimize your internal processes in order to better-manage assets, resources, and human security.

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## Benefits

- WebSense is a highly effective remote-sensing asset and data management solution
- WebSense allows for a high degree of flexibility in identifying and selecting the necessary parameters to be measured, such as temperature, humidity, pressure etc.
- WebSense, unlike its predecessor: the barcode system, makes it possible to identify and to trace objects throughout the delivery phase with interactive maps, charts, tables, analyzers.
- WebSense provides the software for collecting data on fixed assets, to be recorded and updated regularly, a method which is much more accurate and flexible compared to manual data in-put
- WebSense allows its users the ability to measure parameters concerning their facilities or production processes from a remote location
- WebSense reduces the demand for human labour in the monitoring processes, as well as the need to leave your location for monitoring purposes. It makes online and real-time monitoring and intervention possible.
- WebSense embedded systems are easy to install in physical facilities. There is no need for additional expenditures such as expensive cabling or for dealing with damages incurred in the process of cabling. (crucial in the case of an ancient monuments, historical sites).

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## Industrial Lab

With this project, Régens further enhanced its competencies in the fields of usage and integration of new and revolutionary technologies. Additionally, Régens had the opportunity to set up connections with European research institutes involved in this area of research.

Within the framework of our RTD project, Lufthansa Technik, one of the largest players in the aerospace service industry, has implemented WebSense as a first user and evaluator of the WebSense project outcome.

Lufthansa Technik was looking to implement a system for measuring real-time location and for collecting data on physical parameters within their workshops. A sensor- and RFID-based system, is ideal in a large airplane maintenance facility, where airplane parts need to be located and transported in a fast and efficient way.

Lufthansa Technik also needed to collect data on a portal system in order to enable the management to monitor physical parameters in the workshops. Temperature is a crucial parameter in the airplane maintenance process, and at the same time, it is a very costly factor. WebSense allows Lufthansa Technik to monitor the temperature, humidity, and other parameters at all times and to take the necessary steps, either lower or raise temperature, so that the workshops are kept under optimal conditions at an optimal cost.

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## The Future

Our aim is that, based on our project experiences, we can offer a flexible and customized service framework for facility management, with competitive financial conditions, and attractive ROI figures. WebSense is one of our most promising avantgarde projects, which combines our new-generation technologies with our software competencies to deliver maximal utility at an optimal price. The WebSense project serves as basis for the future research and development of our services and competencies.

### Financing

45 % EU + Hungarian Government

55% Régens

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