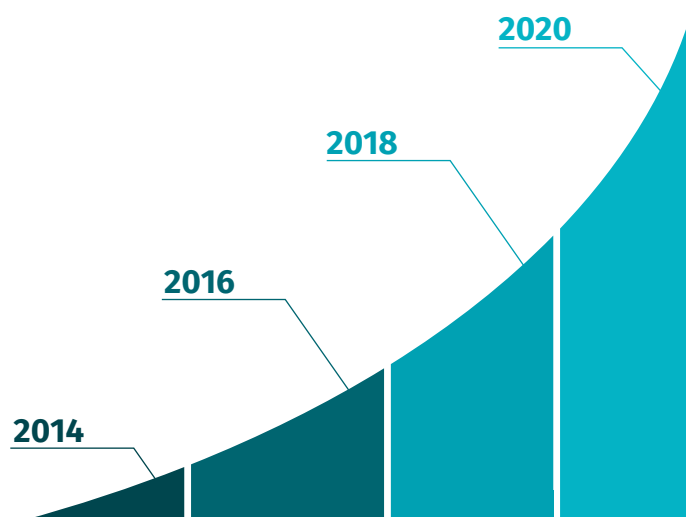




HEALTHCARE LOCATOR SUITE

The Ubiquicom proposal for Healthcare

“ In an environment where patients, staff, equipment and materials are continuously moving and interacting, with dynamic priorities that change as a function of new events and emergencies, optimizing processes and reducing the risk of errors is often extremely complex. It is in these situations that the potential for **RTLS technologies (Real Time Locating Systems)**, making position, status, interactions and criticalities of the various parties involved in processes always visible and thus easily monitored can be seen, as demonstrated by many successful examples around the world. **It is time for Italian hospitals to benefit from these now consolidated technologies, in order to drastically increase efficiency and quality**, while reducing costs and risks and therefore improving the service to patients and to the entire community. ”



Market surveys confirm the growth of RTLS applications in the sector: according to a study conducted by *ReportsnReports.com*, RTLS will grow by **32,9%** during the period 2014-2020.

Ubiquicom

Ubiquicom is a technology company focused on design and development of innovative solutions for both the localization and tracking of people and assets as well as for real-time monitoring of safety procedures in the work environment.

For more info, visit:
www.ubiquicom.com



Critical issues for the healthcare sector



EQUIPMENT AND DEVICE AVAILABILITY

- Difficulty and wasted time for medical and nursing staff to find available machines
- Impossible to understand when the device was last used
- More risks for patients in urgent cases



KNOWLEDGE AND CONTROL OF CONDITION AND USE OF EQUIPMENT AND DEVICES

- Difficult fleet monitoring
- Maintenance delays
- Oversizing of the fleet



ORCHESTRATION OF THE ACTIVITIES OF THE ACTORS INVOLVED IN THE DIFFERENT PROCESSES

(patients, doctors, nurses, support staff, maintenance specialists)

- Inefficiency in personnel management
- Increase in wait times, intervention times and hospital stays
- Negative influence on patient's satisfaction



RESPECT FOR REGULATIONS

- Absence of automatic procedures for verifying correctness of processes
- Lack of compliance with norms necessary to minimize the risk of errors



VISIBILITY OF INEFFICIENT AREAS

- Difficult to identify opportunities for improvement (identification of causes of wait times, procedure errors and work overloads)
- Lack of historical details and reports for analysis by management

BENEFITS OF RTLS SOLUTIONS

LOCALIZATION

- time for material search
- + personnel productivity
- risks associated with the lack of necessary equipment

KNOWLEDGE

- management costs for malfunctions and maintenance
- useless investments in machinery
- + efficiency in the asset usage

ORCHESTRATION

- + quality and results in patient therapies
- waiting times and management errors
- + patient satisfaction and hospital reputation

RESPECT

- + control on application of procedures and regulations
- risk of errors
- + speed in the timely management of incidents

VISIBILITY

- + efficiency in stocks and spare parts management
- + easy generation of reports for analyzing procedures
- thefts, losses, damages and improper investments

HOW TO SOLVE CRITICAL ISSUES? **THE ANSWER COMES FROM RTLS**

The systems for localization and tracking of people & assets are changing the hospital sector because they play an important role in solving problems and avoiding disruptions.

All of this can be reached by minimizing the impact on the existing infrastructure and using the communication tools that are already available, integrated with additional technologies (for example infrared sensors at the entrance to rooms, departments etc.).

Every hospital, from largest to smallest, in order to maximize efficiency, needs integrated solutions for the monitoring of operational processes and for efficient management of staff, patients and equipment.

Thanks to the potential of Cloud Computing and the Internet of Things combined with technologies like RFID, WiFi, BLE and UWB, the Ubiquicom RTLS suite allows you to take the best route towards the digitalization of the entire hospital.

Ubiquicom Healthcare Locator is the Ubiquicom proposal to answer the needs specific to Healthcare in an integrated way.

To get a high ROI and minimize the impact on existing processes, you can introduce the Ubiquicom solution following a step by step approach.

UBIQUICOM HEALTHCARE LOCATOR SUITE

Ubiquicom Healthcare Locator combines the functionalities of tracking, distributed sensors and device remote-control with these objectives:

- optimization of investments in machinery and material
- employee efficiency optimization
- improvement of service quality and speed



Tracking of patients, staff and equipment

- Queue management automation
- Reduction of patient's waiting times
- Reduction of doctor's waiting times for patients
- Monitoring and increase in efficiency and effectiveness of maintenance activities
- Optimization of staff management in the various departments
- Optimization of handling of equipment and devices
- Material costs distribution according to real usage by the various departments
- Reduced time searching for materials



Distributed sensors

- Detection of patient's biometric parameters
- Detection of environmental parameters of the structure
- Equipment operational status and possible failure detection
- Monitoring of correctness of procedures and therapies
- Man down events and falls monitoring
- Monitoring of possible damage caused to equipment and devices
- Radiation exposure or harmful substances data detection
- Collection of user reports regarding alarms or need for evacuation
- Data collection related to usage of each device



Remote control

- Information notification to staff and patients
- Advanced management of evacuation alarms and emergency requests
- Bi-directional communication with device diagnostics systems
- Submitting of contextual information about patient visited or machinery in use
- Management of constraints on equipment handling
- Notification alarms in the case of violation of security rules
- Management of alarms as a result of lack of maintenance or machine breakdowns



By analyzing the large amount of collected data, management is able to identify critical areas and optimization opportunities, reducing risks and increasing satisfaction levels of both patients and staff.

Ubiquicom for the Healthcare Sector

Ubiquicom is an Italian technology company that produces highly innovative solutions for:

- Real-time location (RTLS: Real Time Locating System) for indoor and outdoor applications
- Monitoring of workers employed in medium/high risk activities
- Distributed sensor environments (IoT)

Ubiquicom is able to help hospitals seeking both operational excellence and management efficiency in the planning, design, implementation and operational management of RTLS solutions that best fit their needs through:

- important design and technological skills
- use of products specifically developed to meet the specific needs of the sector
- use and knowledge of the best products on the market from third-parties

Would you like to know more? Read the **'Hospital 4.0'** Whitepaper on www.ubiquicom.com or write to info@ubiquicom.com, you will be contacted by one of our specialists.



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