

## Clients



# Maintenance Management System

*The main thing we gained with the transition to KMR was that it helped us simplify the process of submitting maintenance requests. It helped us solve the problems of tracking work activity and history of interventions and parts management.*

**Comelf**  
General Manager – Cenusă Gheorghe

**Quartz Matrix**  
Carol I boulevard no. 5D Iasi, 700506, Romania  
Phone: +(40)232 217 248  
Fax: +(40)232 217 262  
Mobile: +(40)726 767 890  
E-mail: office@quartzmatrix.ro





## 1 Cut downtime

Reduce downtime, prevent accidental malfunctions and reduce dynamic and static components wear. Reduce maintenance costs by monitoring the technical condition of equipment and their behavior in time.

## 2 Increase operational efficiency

Reduce response time by assigning work tasks to technicians (tickets/ requests), distribute tasks in a balanced manner and effectively monitor employees' activities and productivity.

## 3 Cut costs

35% to 50% increase of equipment reliability, 5% to 15% improvement of work orders, 20% cost reduction through stock optimization.

## 4 Control over activity

Track failure rate and costs for equipment, costs of interventions, consumables and maintenance.

## 5 Increase machinery life

Plan preventive maintenance and maintain equipment in a state of optimal operation to maximize their life.

## 6 Notifications and alerts

Increase the speed of work interventions execution through alerts and notifications configuration that are sent automatically via email and SMS to the right people at the right time.

### Ticketing

- Allows recording, monitoring and logging of all malfunctions
- Plans accidental activities in real time

### Corrective (accidental) maintenance - unscheduled maintenance

- Monitors accidental maintenance from two sources: breakdown and/ or tickets
- Allows downloading of spare parts used for the equipment's return to operation
- Calculates equipment downtime depending on maintenance duration; monitors the time spent by technicians

### Proactive maintenance (preventive and predictive)

- Allows the maintenance plan configuration according to a schedule or operating counter on longer periods (planner - maintenance generator depending on recurrence), respectively the cyclicity of the meter
- Plans the necessary resources (technicians, spare parts)
- Sets the notification period before the maintenance to take place
- Monitors the operating parameters of the machine in real time (vibration, temperature, flow, etc.)

### Reports

- Equipment, spare parts, interventions, user activity, KPI

### Spare parts and accessories-

- Monitors costs associated with maintenance
- Manages parts stock and critical level alarms
- KMR software can be interconnected with other management software for retrieving the stock

### Machinery management

- Stores all the information of the machinery such as technical specifications but also multimedia files (images, documents)
- Groups machinery based on their type and location
- Retrieves operating hours (or other metering type) in 3 ways: manually - it is specified the period and value, schedule - it is specified a daily average, automatically - takes values directly from the meter

### IoT - real time monitoring

KMR Maintenance Management System can integrate on request the IoT module that provides a high level of visibility both for the production line and all other factory operations.

The integrated sensors automatically retrieve data necessary for maintenance planning and prioritization:

- **Operating time**
- **Vibrations**
- **Temperature**
- **Level**
- **Flow**
- **Concentration**

