

# INDULLEIDA - INTEGRATED PLANT MANAGEMENT

Indulleida, s.a.

**Indulleida** is an enterprise settled in Alguaire (Lleida), that concentrates its activity in producing concentrated juices, fruit pastes, fresh juices and other fruit derivate products.

The **Indulleida** work model, that plans the production for the day after based on the lorries reception, coming from the farmers, implies the necessity of a high efficiency level and the productive locations flexibility, but also to know, in real time, the activity and the productive capacity.

Before the project starting, **Indulleida** used to draw up the production programme the day before. After having send it to the plant, the operators filled in some forms in order to indicate the production, the length of the stops, and to identify the production progress and the lack of productivity causes.

However, the planning model tension needed a higher collected information precision, what implied the solutions implementation of the Production Management CAPTOR and the Maintenance management PRISMA, that have helped to achieve a competitive situation in the plant.

After the maintenance management optimization, motivated by PRISMA implementation, **Indulleida** managed to:

- Improve the management, speeding up the work processes,
- Facilitate the planning and the preventive accomplishment,
- Analyse the Defaults-Causes-actions / breakdown repetitiveness
- Realise technological analyses from the locations and know-how control record,
- Maintenance spare parts management improvement, from the purchase process to the storage and the assigning to the work orders,
- Information use simplification, and, as a consequence, productive locations availability improvement.

Later, **Indulleida** has completed the curl of Plant Management with CAPTOR implementation in the concentrate line (shredders, press, filters, pre-concentrate and concentrate). The implemented modules were:

- Data gathering with machine connexion,
- Plant monitoring,
- Integration with the Maintenance management PRISMA

CAPTOR collects from an automated way the machine starting and stopping mechanism, as well as other information introduced manually by the operators, as the incidence justification, kind of manufactured product, etc.

The people in charge and the management staff have at their disposal a monitoring graphic utility in their team, that permits to consult in real time the machines state, the process progress, the incidences, the manufactured product quantity, etc.

The management utilities and analyses offered by SISTEPLANT's systems have permitted **Indulleida** to obtain an important improvement:

- Knowledge in real time of the production progress,
- Reliability of the collected information for a later loss analysis (incidences causes). It is also possible to introduce clarifying comments for quality, maintenance or others,
- Productivity escape reduction, reflected in an OEE improvement (location global efficiency ratio)
- Client service improvement

