optima
Laboratory Resource Management System

FACT SHEET

WHAT IS OPTIMA?

Optima offers the solution for the laboratory resource scheduling providing a single web based platform for the collection of the requests, the allocation of resources and the provision of KPIs.

Optima is able to receive the list of activities from virtually any system (CDS, ELN, LIMS, ERP, etc .), perform the resource allocation automatically or manually and present the laboratory agenda in different formats (list, calendar, Gantt charts).

By using an easy and intuitive user interface, the laboratory managers and supervisors can adjust the allocation according to the demand changes.

User-friendly reports and charts allow the presentation of the most critical KPI in a very simple manner and become the resource management dashboard of the laboratory of the future.

WHICH BENEFITS DOES OPTIMA BRING TO YOU ?

Plan, schedule and adjust
Create a paperless lab scheduling taking into account resources availability, constraints and deadlines. Deliver the lab results efficiently by adjusting the resources allocation accordingly.

Laboratory management system
Easily import information from any compatible laboratory management system to automate the lab scheduling activities

Forecast your lab workload
Provide accurate needs based on your customers' requirements, both internal and external. Deliver a laboratory business plan with just one click.

Track your lab performance
Full visibility on your lab performance. Resource utilization, instrument usage and availability for allocation immediately visible in the weekly schedule with easily customizable reports.
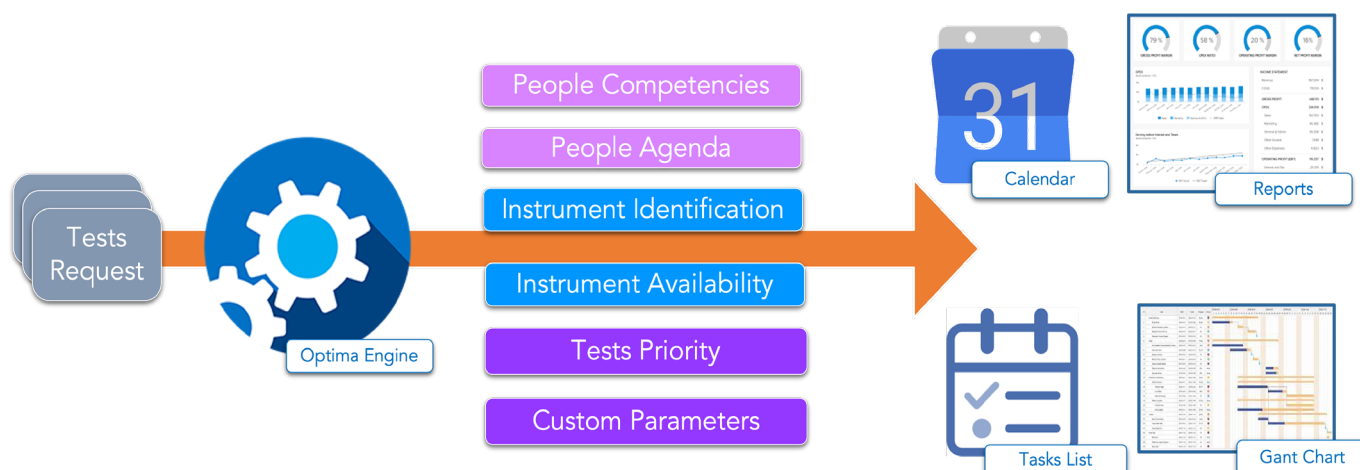
Communicate efficiently
Avoid endless email and unnecessary meetings. Provide the lab workload information to your customers with automatic reporting and remote access to their projects

Monitor the process improvement
Set your lab goals in the application and monitor the achievements on a weekly, monthly, quarterly and yearly basis

ARTIFICIAL INTELLIGENCE IN THE LABORATORY

When Optima receives information from an external system like. LIMS, ELN or ERP , the list of requested activities is available for scheduling.

Very often the requests do not include all the details to complete the analytical tests. It might indicate the type of analysis to perform and the number of samples, yet all associated steps like sample preparation and instrument set up are missing.

Optima is able to convert the requests into a list of actionable items that can be scheduled. This is a configurable activity which allows customers to choose the level of granularity required to perform the resource scheduling of the lab.

When the actionable items are automatically created, the Optima engine starts working.
A sophisticated algorithm assigns the tasks to the resources, both laboratory personnel and instruments, according to the system configuration

LAB RESOURCE SCHEDULING ALGORITHMS

The IT discipline known as Artificial Intelligence allows the design of hardware and software systems capable of electronically processing processes of reasoning which tend to pertain to human intelligence.

The lab resource scheduling algorithms should act rationally. The process leads the intelligent system to solve the problem, allowing to obtain the best expected result, given the information available, as human mental processing would have done.

The engine is based on advanced technology able to adjust the scheduling parameters and improve the output of the process over time. The concept of machine learning is perfectly implemented within Optima allowing the laboratories to improve their performance and deliver the expected results in a shorter period of time.

TECHNOLOGICAL BENEFITS

Easy to deploy. 100% web based, zero impact on the current infrastructure

Connexion with any system like LIMS, ELN, LES, ERP, etc.

Data export for further statistical analysis

Notifications & Alarms settings

User authentication integrated with most modern options for SSO

Secured admin tasks

User permissions

BUSINESS BENEFITS

Complete tracking of lab activities and instrument usage, including meetings, training, holidays, etc.

Flexible agenda management

KPI measurement at any level of granularity

Ability to forecast the lab needs

Rapid implementation and quick ROI

Easy way to re-schedule activities when needed

Simple user-interface

Fully configurable, no IT intervention required

Reduce to minimum the time spent in communications with customers

Gantt view for project activities

Optima
simplifying complexity