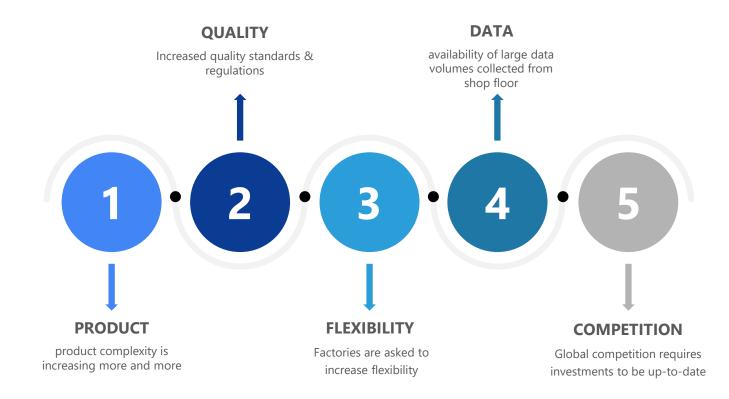


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Process and Industry 4.0 – the challenges





The « value proposition » of sedApta for industry 4.0

The industrial revolution 4.0 transforms the value chain in the company, thanks to an **increasing integration** of its ecosystem: customers, suppliers, subcontractors, partners... This implies a profound **redisgn of the business model and processes**.





The **redefinition of standard processes** has become one of the most critical points in today's industrial context.





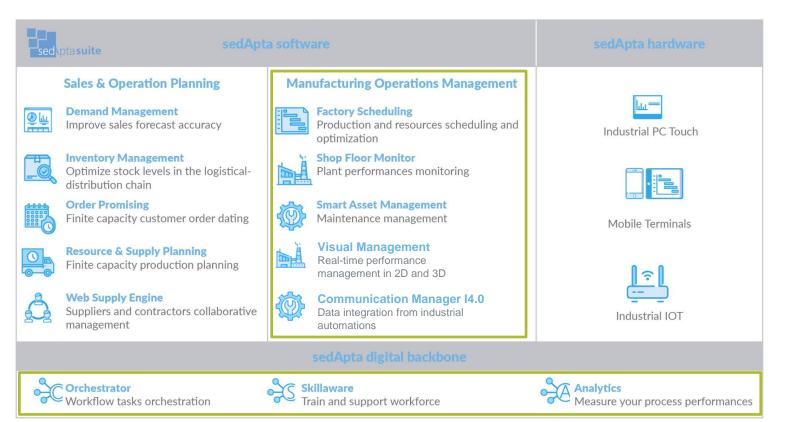
The **integration of the most innovative technologies** characterizes our offers which break the barriers of silos in the organizations.



Our Supply Chain Planning, Scheduling and MES solutions are **fully integrated with ERPs**.



sedApta Suite - Demand Driven Manufacturing





sedApta - Industry 4.0 Assessment

The adoption of **Industry 4.0 paradigms** and the use of **new technologies** can improve working conditions and create new business models aimed at **increasing productivity** and **improving the production quality** of plants.

In this context, an overall and systematic assessment of the degree of digital maturity of a company is considered increasingly necessary. An effective Assessment process must be able to analyze the production environment, **identifying its weaknesses and areas for improvement**.

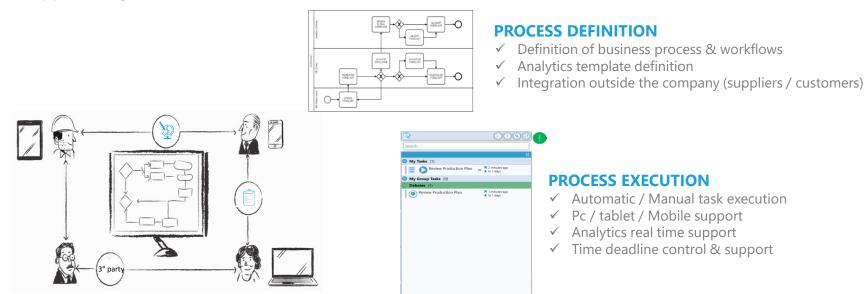


industrial innovations



sedApta Orchestrated Approach

sedApta Orchestrator allows structured **process collaboration** between people, task and tools in real-time supported by contextual information and on-line **debate**.





ON-LINE DEBATE

- \checkmark Alarm generation in case of delays
- Instant messaging support
- Ad-hoc report generation



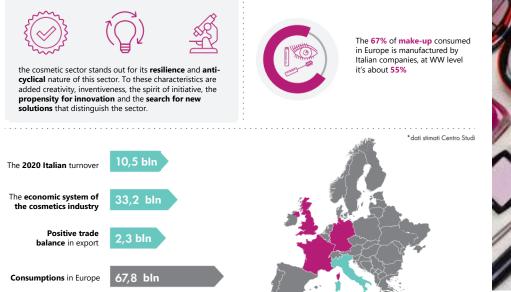


Case Study in cosmetics DAVINES



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An overview of cosmetics industry



In Europe Italy it's the 4th economic system in cosmetics after Germany, France and UK

Source: report June 2021 from:

RAMACOSMETICA ITALIA Var associazione nazionale imprese cosmetiche

RESEARCH AND DEVELOPMENT In Italy the companies of Cosmetics invest about 6% of income in Innovation and



The investment in research by the cosmetics industry in Europe is equal to 2,35 billion €



3%

technology, the research and development

against an Italian average estimated about

MATE DAVINES, a complete solution for Cosmetics



HISTORY

Founded in Parma, Italy in 1983 by the **Bollati** Family, Davines Group started as a research laboratory, producing high-end hair care products for renowned cosmetic companies worldwide.

After a decade of honing our expertise, we began creating our own brand of Davines **hair care** products exclusively for salons, and in 1996 founded [comfort zone] **skin care** for premier spas.

The Group is now a **B Corp** and has an international presence in more than **80 countries** with a multicultural staff.

In addition to the main office in Parma - the Davines Village - it has offices in New York, London, Paris, Mexico City, Deventer (Netherlands), and Hong Kong.

The Davines Group

2020 OVERVIEW

37 2 YEARS IN BUSINESS

BRANDS IN SKINCARE AND HAIRCARE

OFFICES WORLDWIDE

DEVENTER MEXICO CITY NEW'YORK HONG KONG

PRESENT IN 86 COUNTRIES

> 727 COLLEAGUES

NATIONALITIES 2019 2020

PARMA

LONDON

OF 46

PARIS

58 25.9 FORMULAS MILLION DESIGNED PRODUCTS SOLD

€153 117.4 **B**CORP MILLION SCORE TOTAL TURNOVER

+11% 2018 2019 2020



Z, TO BE THE BEST FOR THE WORLD, **CREATORS OF GOOD LIFE** FOR ALL, THROUGH BEAUTY, ETHICS I SUSTAINABILITY Z





Ye.





(comfort zone)

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Creates professional formulas and treatments for the face and body inspired by the "conscious" principle that encompasses the commitment to ensure efficacy and safety, through ingredients that respect people and the environment developed over 20 years of scientific research.



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Creates professional hair products, in which quality meets the utmost respect for the planet and its resources, using business as a force for good and promoting a regenerative model of Sustainable Beauty. 187.83

WILD/dataset

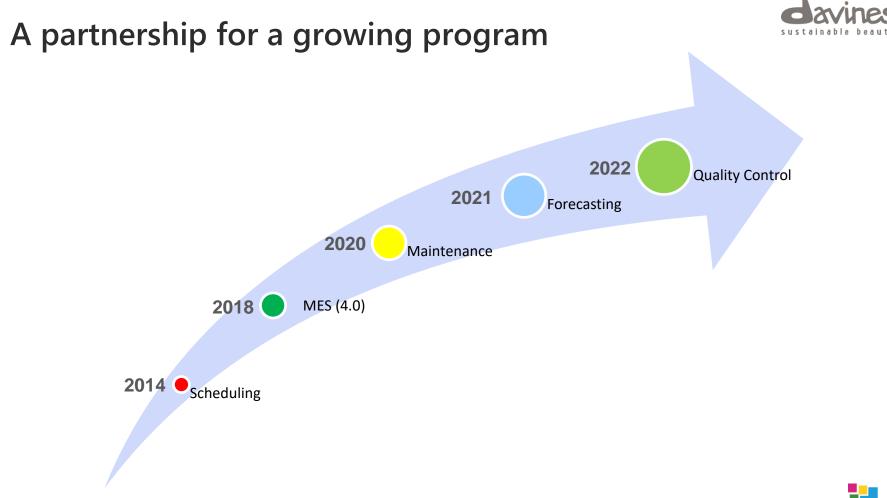
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Scheduling Project



- The project started in 2014 after a long software selection
- The first step was a deep analysis focused on our planning process (production and packaging)
- The second step was the data integration between SAGE X3 (our ERP system) and Factory Scheduler
- A short phase of training and system modelling close the project
- During the years we changed some data models and some analysis, adding also more users as players of the system
- Main Objectives are:
 - schedule either production and packaging together
 - optimize the production sequence, considering the resources capacity and the materials
 - simplify the activity otherwise depending by skills of different operators



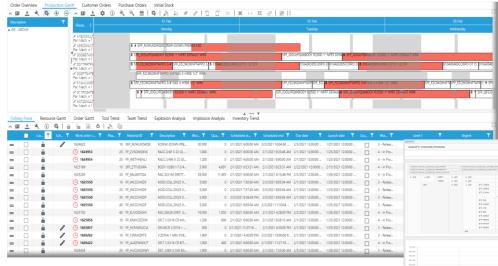


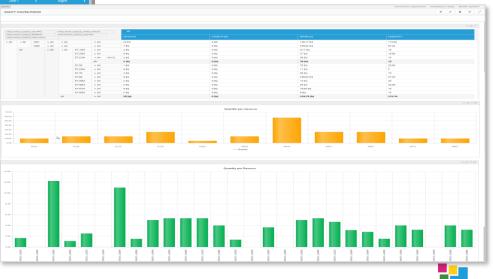


pta group

Scheduling Project

Factory Scheduler User Interface





Scheduling Project





- Improved order promising accuracy within the desired delivery week
- Decrease in overall inventory
- Reduction of late orders
- Increase in productivity
- -10% less Average Out Of Stock in the 5 years after vs 5 years before
- Setup time reduction
- -1 FTE on scheduling process



MES (4.0) Project



- The project started in 2018 after a software selection
- The first step was the integration of the production machines, building a bidirectional communication, in order to sent a production plan and setpoints to the Shop Floor and get from it the runtime data and process variables.
- The second step was the configuration of the user interface for operators
- In 2020 it started the integration of the packaging machines
- The automatic acquisition of all the production states and variables allows to build a set of integrated reports to analise the Overall Equipment Effectiveness and plant productivity
- Main Objectives are:
 - To integrate the machines (4.0)
 - To manage the recipe directly on the touch-screen panel
 - To understand losses deployment and identify improvement actions







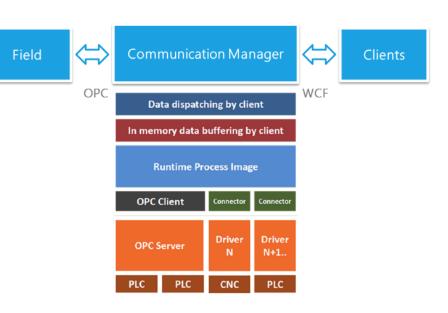
MES (4.0) – Connectivity

Communication Manager is the sedApta Suite component that provides a communication bus for all system clients, which can thus exchange information by sending and receiving messages from / to the Communication Manager.

The service refers to messages (tags) and event notifications, and it is based on a subscription system. Each client must in fact subscribe to a list of tags (pieces of information), so that the client will be informed at runtime of any changes made to these tags.

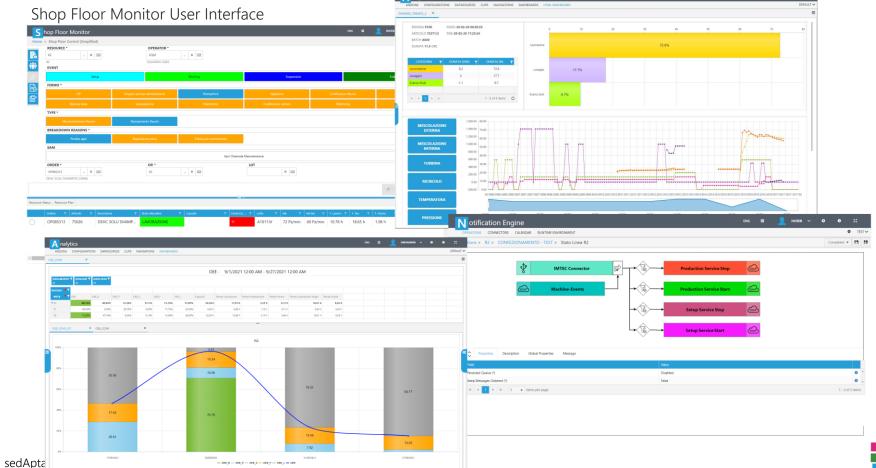
Communication on the Shop Floor takes place via:

- Standard OPC
- Communication Manager Connectors capable of interfacing with the drivers of different devices / manufacturers (e.g. PLC, CNC, etc)





MES (4.0) Project



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MES (4.0) Project

• Reduction of paper in the department

- Reduction of waste
- Reduction of downtime
- NPS Improvement
- Amortization/Tax Credit on about 3 Milion € investiment
- OEE increasing: + 10%







Maintenance Project



- The project started in 2020
- The scope was to assist the Maintenance Team in their daily work, helping them to plan and trace all the maintenance activities.
- It also supports Conditional Maintenance, as well as Corrective Maintenance
- The built-in integration with the Factory Scheduler and with the Shop Floor Monitor allows both the planner to have visibility of the maintenance plan and production to automatically trigger breakdown notifications to the maintenance manager
- Main Objectives are:
 - To integrate the data collection with maintenance declarations
 - To minimize corrective maintenance

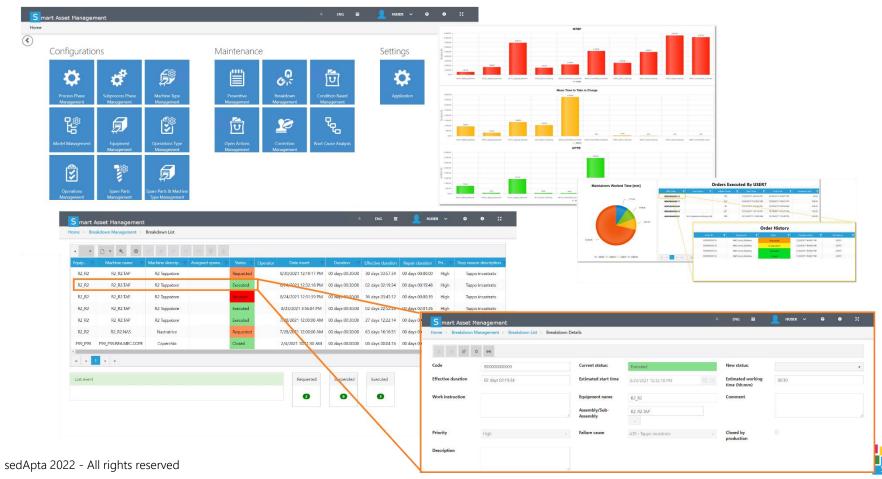




Maintenance Project



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Maintenance Project





Before

- No maintenance measure, no indicators
- No preventive maintenance (no tools to plan)

After

- Indicators available
- Preventive maintenance planned
- Increased reliability of production plans thanks to Integrated maintenance with scheduling



Demand Management Project



Starting of the project: 2021

- The project started in 2021 as a prototype focused on Forecast Collaboration
- We are actually on the testing phase, with the goal to start officially on the 1° week of January
- We inserted every DAVINES Country in the prototype
- Main Objectives are:
 - To increase the reliability of the Mathematical Forecast
 - To integrate Mathematical Forecast with the sensations of the Sales Team
 - To reach the consensus forecast
 - To manage the phase-in/phase-out of the products





Quality Control Project



- The project is planned for early 2022
- It will be strictly connected with the Shop Floor Monitor project, because people will use the same applications
- Main Objectives
 - To build a complete Quality Control Process
 - To create automatically certifications







Why sedApta ?

Different projects – different reasons

SCHEDULING (2014): Software selection, many parameters compared (by K-users and ICT) with competitors (all of them new suppliers)

MES (2018): the big doubt (!?) Is it better to marry the supplier of the Scheduler (sedApta) or WMS (Other)? We chose sedApta for the ability with it had conducted the scheduling project and solved the various requests to customize / configure the product

EQUIPMENT MAINTENANCE (2020): no doubt, sedApta for sure, due to deep integrations with Scheduling and MES

DEMAND (2021): a new big Software Selection - 2 years, 2 competitors tested on statistical module with real time series - collaborative module was decisive in the choice because the expectation of sedApta good service as customize / configure the product







Thank you

www.sedapta.com www.sedapta.com/contact-us/

