

wanna be smarter?

smart , simple, cost effectiveness solutions for  
manufacturing operational excellence.

*“Today and even more so in the future, the need to identify and eliminate waste, to streamline processes, increase profitability and product quality, reduce costs and improve customer service is the key factor for manufacturing companies to be competitive on the market.”*

## WHAT

### t.fabrica

t.fabrica is the **MES/MOM** platform by **Techsol** that let you manage the production department in all its aspects.

It includes all the functions required to check, plan and monitor your production activities.

The main objective of t.fabrica's users is to get real time information, so they can make the best decisions without interrupting their business activities.

**t.fabrica**  
**TRANSFORMS PROBLEMS**  
**INTO OPPORTUNITIES AND**  
**COSTS INTO EFFICIENCY.**



t.fabrica ?

## INCREASE EFFICIENCY AND QUALITY BY CONTROLLING THE PRODUCTION PROCESS

In the current business scenario, it is essential to minimize waste and maximize efficient manufacturing to achieve high qualitative standards.

t.fabrica provides the necessary tools to control all the resources involved in each individual stage of the production process.

The information collected on materials, machines and operators is monitored in an easy, immediate and continuous manner.

### KEY BENEFIT:

- ✓ INCREASED EFFICIENCY
- ✓ REDUCED REWORKING
- ✓ REDUCED WASTE
- ✓ REDUCED OPERATOR ERRORS USING THE MATERIALS

## SIMPLIFY BUSINESS DECISIONS THROUGH FULL VISIBILITY OF THE PRODUCTION PROCESS.

t.fabrica provides the company with contextual information in dashboards, reports, monitors, alarms and real-time notifications to respond proactively to production's problems and react to events in an effective manner.

With t.fabrica making decisions aimed at improving is easier and quicker, translating into direct and tangible benefits for your business.

### KEY BENEFIT:

- ✓ REAL-TIME PRODUCT TRACKING
- ✓ COST REDUCTIONS DUE TO UNEXPECTED PRODUCTION
- ✓ REAL-TIME ANALYSIS OF PRODUCTION INDICATORS
- ✓ PAPERLESS PROCESS MANAGEMENT
- ✓ SIMPLIFIED COMMUNICATION BETWEEN DIFFERENT COMPANY DEPARTMENTS
- ✓ SUPPORT FOR CONTINUOUS PROCESS IMPROVEMENT



t.fabrica?

## INCREASE CUSTOMER SATISFACTION BY IMPROVING PRODUCT QUALITY

In a competitive field, companies have adopted policies that can make them attractive to the customers. Getting their name associated with customer satisfaction becomes fundamental.

Using [t.fabrica](#) it is the best way to check product compliance, notify changes to the specifications of the finished product, monitor production indicators, control logistics and despatching.

### KEY BENEFITS:

- ✓ minimize client non-compliance via better control of the production phases and increase in delivery punctuality
- ✓ reduced inventory errors for faster and better stock management, improved handling of complaints through real-time analysis of all the product's details
- ✓ increased customer satisfaction

## LOWER COSTS, HIGHER REVENUES, OPTIMISE PRODUCTION PROCESSES TO PRODUCE MORE EFFICIENTLY AND WITHOUT WASTE.

Produce more efficiently and more quickly, reducing costs and activities that have low added value; increase the company's profitability and competitiveness.

[t.fabrica](#) gives you complete control over productivity and efficiency data analysis, supporting maximization of profits and contributing to reduce production management costs.

### KEY BENEFIT:

- ✓ Improved production efficiency (increased capacity, yields, better planning)
- ✓ Quicker introduction of new products
- ✓ Reduced personnel costs
- ✓ Reduced waste and low value-add activities
- ✓ Stock reductions
- ✓ Reduced paper costs

# INSIDE t.fabrica



## PRODUCTION PLANNING

manages scheduling of work orders and operational planning, in order to achieve optimal workloads for your systems, while complying with the date promised to the customer.



## SHOP FLOOR DATA COLLECTION

collects production events, from the ones causing a shutdown, to the final position, consumption and used materials.



## OPERATIONAL CONTROL

Intuitive and configurable advanced reporting and operational monitoring tools enable easy and rapid control over all production activities, from production itself to the main performance indicators.



## WAREHOUSING AND LOGISTICS

supports in-house management of resources, departmental and site inventory, and allows you to see and optimise logistical flows within the plant to ensure materials are ready at the right time and in the right place. Support for shipping incorporates easy to use functions that guide the operator through the features of this module. Full support to radio frequency and mobile device.



## PRODUCT TRACKING AND LABELS PRINTING

Products are tracked throughout their production cycle, the availability of a product genealogy in graphical form allows you to quickly view all events collected at each stage of production. Management of barcodes and RFIDs ensure complete identification of all the materials handled. Labels are printed according to product specification.



## QUALITY CONTROL

This module allows you to integrate management and quality control activities of the production process: from the arrival of materials, to the management of quality control along the line, to the issue of product certificates.



## DASHBOARD, PERFORMANCE MONITORING AND VISUAL FACTORY

Real-time monitoring of OEE, KPIs and performance of all managed production processes. Any information at any time on any device and intuitive dashboard allows process control.



## FACTORY BUSINESS INTELLIGENCE

Through refined mathematical models, the system provides tools for simulation and optimisation supporting programming management modules, machine loadings and control over managed production processes. What-if scenario analyses can be defined by the customer for all the data collected by the system.



## INTEGRATION PLATFORM

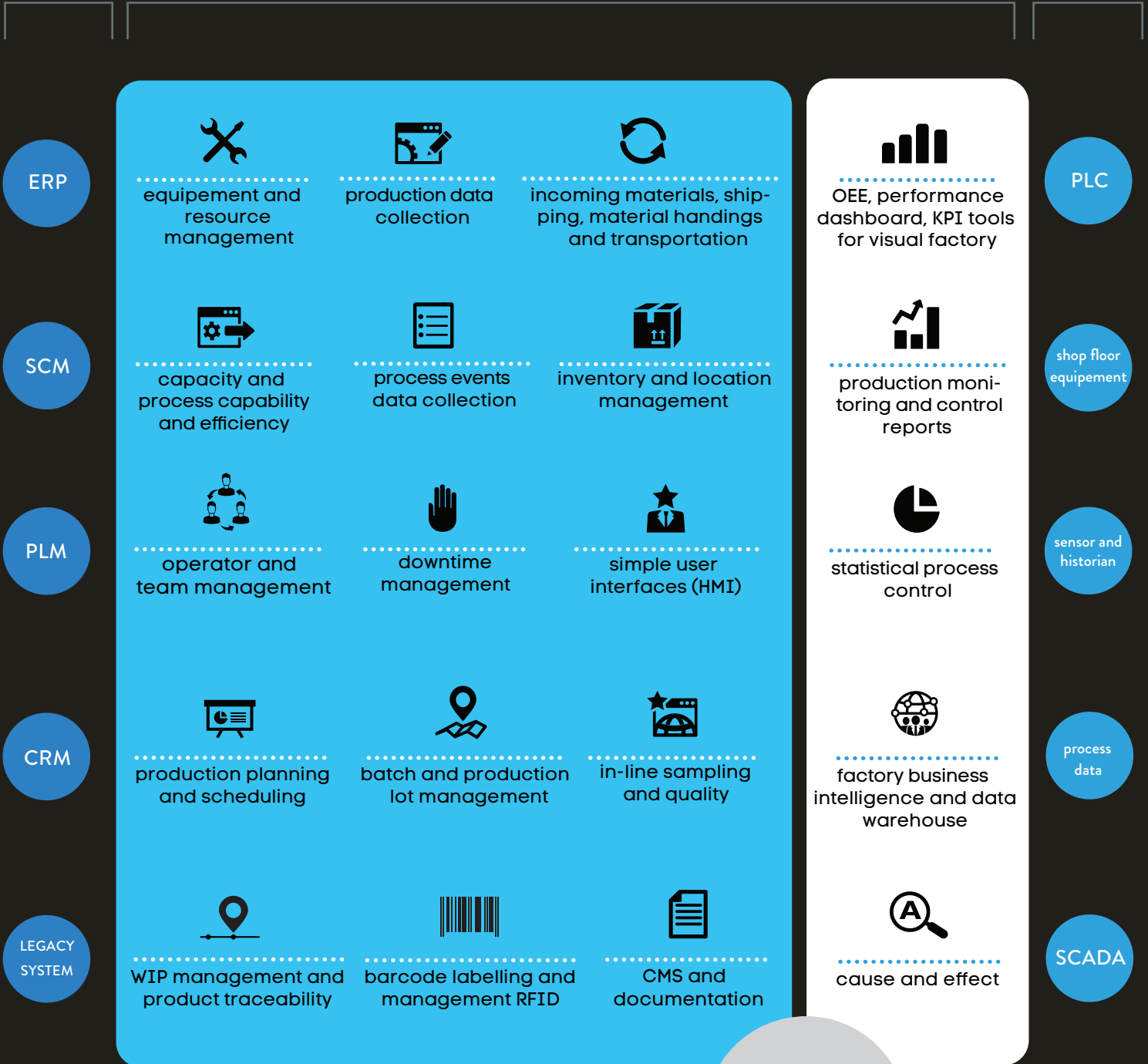
The t.fabrica standardised interface allows an easy functional integration with all the company's information systems, from ERP to PLCs, implementing independent management of data integration.

# t.fabrica APPLICATION PLATFORM

LEVEL 4

LEVEL 3

LEVEL 1+2



# t.fabrica HIGHLIGHTS

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A SCALABLE, FLEXIBLE PLATFORM THAT IS HIGHLY CUSTOMIZABLE AND BUILT WITH STATE-OF-THE ART TECHNOLOGY.



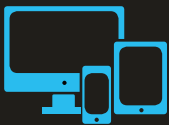
REAL TIME

It allows to view data, events and performance indicators in real time.



SMART / USER FRIENDLY

The system is intuitive and easy to use, chosen by the leading companies in their respective fields with over 100 installations worldwide.



MOBILE

It allows to view information on mobile devices, including **TABLET** and **SMARTPHONE** in any place, at any time.



INTEGRATION

It easily fits in with any system through a standard interface, natively integrated with the major **ERP** systems as well as on-syte systems.



LAPTOP



DESKTOP

# t.fabrica



SMARTPHONE



SERVER



TABLET

# ADOPTING t.fabrica

Adopting a MES solution usually takes considerable time and effort on the business' part. Thanks to its experience, Techsol, has devised a method that makes t.fabrica platform useful right from the start. Thus the customers get immediate feedback of the quality of the application and a return on their investment.



## KEY SUCCESS FACTORS OF THE PROJECT:



### SKILLS

The consulting expertise of our team of specialists is available for the customer during every phase of the project, from identification of objectives to the release of the solution. Our technical staff works as a team with the customer to ensure complete observance of the system's goals.



### SCALABLE BY DESIGN

The scalable design of the solution, combined with an agile approach to project management, makes t.fabrica the ideal solution, even for a single process or production area (Plant/Unit). It fits in quickly and easily with the customer's own information systems.



### MODULARITY

The modular structure and ease of use of the platform ensures rapid start up of the system and reduces training time for the operators.



### REDUCED ROI TIMES

Reducing ROI times by reaching the objectives of the customer is the cornerstone of our methodology and our products.



INNOVATION  
IS OUR PASSION,  
USING  
TECHNOLOGY  
TO SUIT THE  
NEEDS OF OUR  
CUSTOMERS  
IS OUR MISSION



Techsol has a 10-years experience in creating management systems for the industrial processes of complex businesses worldwide.

Techsol promotes simplification as a key element of its business and offers companies a complete range of management solutions.

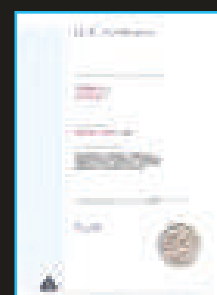
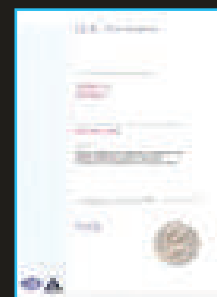
Techsol offers its consulting expertise, providing analysis of business processes to identify the key factors to be managed within the system, and integrating the best solutions into the customer's business structure.



Techsol's primary goal is to provide tools for decision-making support. Tools that help to quickly and concisely get information on the progress of various business processes and to manage the business in an efficient and proactive manner.

We constantly look for new effective solutions, combined with state-of-the-art technology, that guarantees reliability for our customers and represents the key concept of our corporate policy. Continuous improvement.

Thanks to this, Techsol has been certified ISO-9001 (for guaranteeing the use of criteria that follow international standards) and ISO-27001 (for the management of information security that aims to preserve the information, in whatever form it is presented in the organization, in terms of: confidentiality, integrity and availability).





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