



## **OPERATIONS MANAGEMENT TEAM:**

A SCIENTIFIC APPROACH TO PRACTICAL SOLUTIONS



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# OPERATIONS MANAGEMENT TEAM



- OM Team is a spin-off of the Enterprise Engineering Department of "Tor Vergata" University of Rome, founded in 2010.
- It collects the wide expertise of the Operations Management research group, and inherits the experiences of collaboration with companies gained over the years.

## Consulting areas

## Production and Operations

- Business Processes
- Supply Chain



# Our profile





Spread a scientific methodological approach to help companies achieving their goals



Create a network between companies and the academic world in order to exploit the synergies and develop innovative solutions

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The strength of our working methodology relies in the Team's **specialist skills** that concern the ability to apply methods, approaches and techniques from **Operations Management** to Industrial Engineering and Management.





## Our proposal for the sector

- Provide reference, guidance, and support to pharmaceutical operations managers in selecting the most appropriate solutions for the identification and completion of the objectives of their manufacturing operations
- Provide operations management with a robust basis for understanding how compliance and continual improvement/innovation can be achieved simultaneously
- Define a common language and provide guidance for performance measurement, benchmarking, and improvement
- Identify new performance improvement tools, clarifying what is applicable and what is not, for pharmaceutical

## Focus





## What is it



- Promoted together with Spanish consulting firm ManageArt
- Dedicated exclusively to pharmaceutical companies
- Analysis focused on the single plant, rather than on the whole company
- Anonymized comparison with over 600 indicators structured
  - in 21 KPI, scalable per size, pharmaceutical forms, etc.
- Participation of more than 30 pharmaceutical plants among Spain, Portugal, Italy, Germany, Switzerland, and Austria

## Benefits

The tool provides an effective aid for the management of data collection and allows a detailed and reliable comparison among different companies, furthering the identification of improvement areas and accurate corrective actions, quantifiable in terms of potential savings



MANAGEART



## PHARMA INDUSTRIAL EFFICIENCY BENCHMARK: A SUCCESS CASE

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#### «Industrial Efficiency Benchmark» case example

- Background: Production plant of a world leader pharmaceutical company
- **Objective**: Detection and quantification of improvement opportunities of the industrial efficiency



- Achievements
  - Standardization of industrial process indicators
  - Positioning of the company with respect to all the participants
- Identification of «best in class» companies
- Identification of improvement opportunities and action plan definition in order to reduce the gaps



## What is it



Reference standards in batch automation and control
ISA-88 standard provides guideline to efficiently manage the development, transformation and execution of industrial batch-recipes
ISA-95 standard provides guideline to efficiently define and manage information exchange between business and manufacturing control systems

## Benefits

- Increase batch-to-batch consistency
- Ease Investigation process
- Reduction time for site specific validation
- Reduction of time-to-market
- Standardization of processes and systems
- Increase of Project success Rate
- Reduces Integration costs due to standard format
- Eases proceduralization of workflows / SOPs



#### «ISA-88 assessment & compliance» case example

- Background: Production plant of a world leader pharmaceutical company
- Objective: ISA-88 assessment and definition of a road map for the improvement



#### Achievement

- Standardization of New Product Introduction process
- Improvement of knowledge sharing



## What is it



- Operational Excellence concerns a set of methods and techniques for improvement by which organizations are lead to excellence through continuous improvement
- The goal is to reduce non-value-added activities and eliminate wastes, including actions aimed to decrease failures and breakdowns, reduce scrap and defects, and increase performance

## Areas of interest



### Typical projects in Operational Excellence:

- Lean Manufacturing & Six Sigma
- Maintenance Management
- Warehouse optimization
- Re-Layout and process analysis
- Inventory Management
- Support to design of storage points and warehouses
- Supply Chain Management
- Re-Design of business procedures



## OPERATIONAL EXCELLENCE IN PHARMA INDUSTRY: A SUCCESS CASE

#### «Maintenance Management» case example

- Background: Production plant of a world leader pharmaceutical company
- Objective: Maintenance Planning, implementing TPM



- Achievements
  - Maintenance criticalities identification
  - Increased plant Up-time

- Improvement of production plant stability and quality

OM Team provides services to several companies in different sectors, especially in **Pharma**:







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