



MAESTRI

RESOURCE AND ENERGY EFFICIENCY
FOR PROCESS INDUSTRIES

Newsletter #03

#03_July 2018

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SPIRE

Sustainable Process Industry through
Resource and Energy Efficiency



MAESTRI National Workshop in Italy



The 1st MAESTRI national workshop was organized by **Sinergie** on **Wednesday 23 May 2018 in Reggio Emilia –Italy**. The public who attended (54 people) was quite heterogeneous, including public authorities, representatives from the academic world, companies and chartered professionals such as Engineers, Architects and Industrial Technicians.

The Workshop was titled “**New Tools for Competitiveness in Industry 4.0: success cases from European and National Experiences**” and focused on Industry 4.0 and its multiple applications, a topic that can be included into a wider and well-known path of enterprise innovation and development. It aimed at achieving at least **3 objectives**, strictly connected to MAESTRI as an overall project:

- Updating stakeholders with news and results on the project;
- Involving the general public in the discussion;
- Getting feedback from other organisations and involved partners.

The agenda of the Italian Workshop included the following lectures:

- **Presentation of MAESTRI** (Giovanni Pede-Sinergie) to give the public an overview of the project, achievements and future developments.
- **Focus on IoT pillar** (Rosaria Rossini-ISMB): presentation of the IoT platform applications in the context of MAESTRI project.
- **Focus on LEAN Management** (Roberto Ronzani–LEAN Institute Italy): an overview of the best practices of the LEAN approach in the industrial context and process industries.
- **Focus on Industrial Sybsiosis** (Beatrice Marchi—University of Brescia): the opportunities of industrial symbiosis in circular economy,
- **Focus on Project Management** (Pier Paolo Maggi-AICA): methods of project management in Industry 4.0 and also about certifications and undergoing transformations.



Workshop & Dissemination in Poland



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LEAN Enterprise Institute of Poland took part in two different events in June 2018, where there was an opportunity to give an overall presentation of MAESTRI project and, at the same time involve relevant stakeholders in order to ensure MAESTRI sustainability.

- On 20th of June LEIP attended the **Heat and Energy Plants Conference**. During 1 hour presentation, both the Maestri Total Efficiency Framework with particular emphasis on the Management System training modules, and the benefits of lean tools implementation on the example of heat plant from Poland were demonstrated. Several people, of the 93 participants who attended this event, were willing to be involved in MAESTRI training.
- On 21st of June it was the time for an event organized by **Regional Contact Point (H2020)** in order to train participants on how to use business model canvas in European projects. As a part of the training, an example of a H2020 project was presented to attendants, who came both from the University and the industrial world. Also in this case the public showed interest in MAESTRI training sessions.

Polish Partner **IZNAB**, on the other hand, attended **Greenpower / Expopower / Installation trade fair**, which took place on 24 April 2018 in Poznan (Poland). The goal was mainly to expand MAESTRI **network** and distribute information material on the project. This trade fair is especially meaningful because it joins together small and bigger manufacturers and distributors of RES, heating, cooling, solutions, experts in energy management and energy efficiency improvement, providers of management and control software and tools.

As a result, over **1000 brochures were distributed** and new stakeholder groups were reached, most importantly providers of control and energy managers, but also SMEs, researchers and manufacturers.



A new publication featuring MAESTRI Total Efficiency Framework

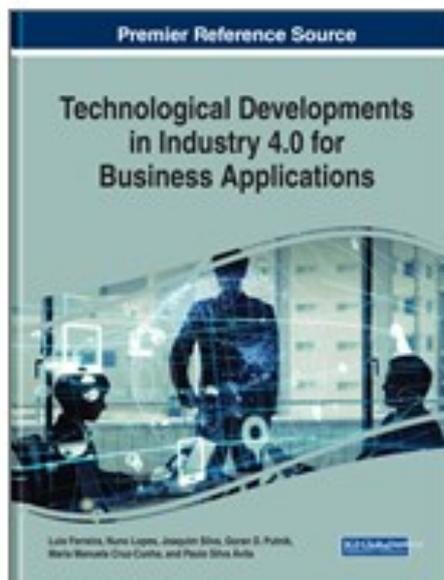
“Technological Development in Industry 4.0 for Business Applications” is a collection of studies on innovative methods to develop new strategies in the context of industries and business companies.

The objective is at least double: on the one hand improving organizational procedures within enterprises, on the other hand investigating the most significant aspects of Industry 4.0 from a technological and social point of view.

The volume, edited by IGI Global, is currently undergoing production and the projected release date is **September 2018**, but the first glimpse of the contents and contributors can already be consulted at the following link: <https://www.igi-global.com/book/technological-developments-industry-business-applications/185730>

As can be inferred from the table of contents, one of the chapters will be entirely devoted to **MAESTRI Total Efficiency Framework** as a way to reach an efficient and sustainable manufacturing system in the context of Industry 4.0.

Among the authors of this chapter there are many MAESTRI partners and contributors, who are providing therein an analytical overview of the work progress within the project. The chapter also describes the Total Efficiency Framework as a new industrial strategy including multiple tools and management methods aimed at supporting industries in their path towards the **4th Industrial Revolution**.



This contribution is even more important if we consider the volume in which it is published as a whole.

“Technological Development in Industry 4.0 for Business Applications”, in fact, features a variety of research contributions and their consequent applications in innovative fields, all of them **promoting the development of enterprises** in the modern industry era. It is therefore very important for MAESTRI TEF to appear in this context, and be regarded as one of the strategies to implement.

Worlee visits a LEAN brewery

On 19 April 2018 Worlee representatives were invited to visit a very peculiar brewery located in Poland. The visit was part of **Eco Lean Management Board implementation process**, in which both Lean Enterprise Institute of Poland and Worlee are participating.

The **brewery** they visited has been implementing LEAN tools and methods for many years, thus increasing employees competences and commitment to the company management.

The **purposes** of the visit were the following:

- Benchmarking on the factory management system and studying how their Management Boards work in different organization levels;
- Observing the structure and the content of the Management Board applied on a shop floor, both at middle and top management levels;
- Checking what kind of KPIs were selected in a cascading process and how they are correlated;
- Understanding the implementation process of Eco Lean Management Board;
- Learning possible benefits and drawbacks arising from Eco Lean Management Board application.

Worlee representatives had the opportunity to observe how **boards and operational meetings** work in practice, by seeing boards of departments like Packing, Brewing and Processing, Top Management, Operators. They took part in three operational meetings in different departments, where they could discuss with team members about meeting rules, information flow, escalation process and key aspects of the implementation.

At the end of the visit, a **feedback session** was organised during which Worlee representatives provided a feedback to some employees of the brewery. Both companies benefitted from this visit because it allowed them to look at their own processes and strategies from a different point of view.



SPIRE projects presented at ACHEMA fair

ACHEMA fair is an international exhibition on chemical engineering, process engineering, environmental protection and biotechnology that is held every 3 years in Frankfurt am Main (Germany). This year it was organized **from 11 to 15 June** and next time it will be in 2021.

The audience of ACHEMA usually includes only professional visitors and can be considered as the leading event for highly complex and process industries. For this reason, it represents the ideal **networking platform** for small and medium enterprises, large multi-national corporate groups, family business or small start-up companies as well as large-scale industries.

This year ACHEMA welcomed about 3813 exhibitors and 166000 visitors from over 50 different countries to present new products, process and services to professionals in the sector.

10 SPIRE projects were present as exhibitors with a dedicated group stand, where they could show to interested visitors and stakeholders the results achieved, in order to promote and disseminate on the projects:

- MAESTRI
- Monsoon
- Sharebox
- CoPro
- IbD
- Romeo
- Recoba
- Prodias
- Propat
- Inspire Water



As far as MAESTRI is concerned, the project was displayed at SPIRE booth thanks to several communication and dissemination tools:

- Leaflets
- Project poster
- An explanatory infographic video, which you can find also on Youtube on MAESTRI channel: <https://youtu.be/cz4U9O7zt58>

Events such as ACHEMA fair represent important opportunities not only to **increase the project visibility** among a wide public of interested stakeholders coming from the industrial environment, but also and most importantly to build a network of contacts. For this reason, the fair organized **networking activities** especially devoted to SPIRE projects: an industrial symbiosis workshop and a SPIRE brokerage event.





Newsletter #3

Project vision

“ *Manufacturing Industries should deliver competitively priced goods and services that satisfy human needs and bring quality of life, by finding progressively smarter and finer trade-offs between business and sustainability concerns.* ”

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Project Partners

Coordinator



www.maestri-spire.eu



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