



MAESTRI

RESOURCE AND ENERGY EFFICIENCY
FOR PROCESS INDUSTRIES

Newsletter #04

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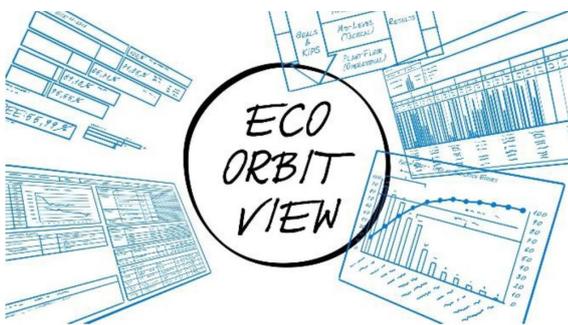


New Videos on MAESTRI TEF Tools



With the aim to implement a more effective **dissemination strategy for MAESTRI Total Efficiency Framework** and to be in line with current communication trends, the project partners agreed to create two animated videos presenting in a visual way the most important findings and results of WP3.

In particular, the videos focused on the following **tools and expected results** after their effective implementation:



ECO ORBIT VIEW

The video illustrates the EOVM method, managing to identify both **business and environmental aspects of the production process** and the connections between these two categories of indicators, leading to positive impacts for both sides.

https://www.youtube.com/watch?v=6_2aXJ_ZTlw



ECO LEAN MANAGEMENT BOARD

It helps in identifying crucial business and environmental aspects for different organizational areas within a firm. The role of the board is also to set the ground for **operational meetings**, so that employees can review the most important indicators and take preventive action towards eco-efficiency and sustainable development.

<https://www.youtube.com/watch?v=bYvy456cNx8&t=48s>

The videos are approximately **9 minutes long** and are produced in English with subtitles in all **four partners' languages**: Polish, Portuguese, Italian and German.

In order to realize them, LEI Polska cooperated with the video making agency IKONA, which opted for the **whiteboard animation style**, where various graphic elements are drawn on a white background.

New Videos on MAESTRI TEF Tools



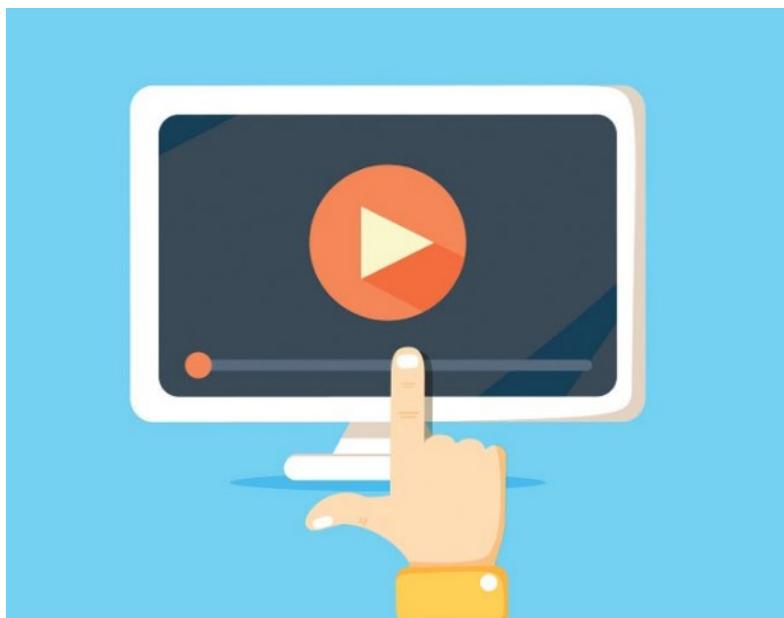
The final effect is very immediate and attractive, allowing for a transparent visualization of results. If you are interested in watching them, please visit MAESTRI **YouTube** channel **MAESTRI H2020** using the following **QR code**:



WHY CHOOSING VIDEOS?

There are at least three reasons behind this choice:

- First of all, because they are the **most widespread means of communication on the web, which is increasingly focused** on visual stimuli instead of written ones.
- Secondly, they ensure a **global reach and an effective communication** to all types of audiences and not only to stakeholders or the scientific community,
- Finally, they allow for an effective understanding of the content because project results are digitalized and therefore **easily accessible**.



The eco-sustainability of European industries through MAESTRI TEF

The European economic scenario is constantly evolving. Industries are oriented towards technological solutions able to increase competitiveness through goods and services that are more and more innovative and competitive in terms of **Industry 4.0**. In this respect, the European Commission is supporting the economic development by investing in projects fostering the transition to a more sustainable industrial sector. The European Programme **Horizon 2020** funds projects able to promote the transition of innovation from the research phase to its application in an industrial environment and its launch on the market. H2020 Programme focuses on three macro areas: scientific excellence, industrial leadership and societal challenges.



ENVIRONMENT AND INDUSTRY

Industries are increasingly aware to reduce their environmental impact, improve their performance and their competitiveness, and to reduce waste, cost of raw materials and consumed energy. This is not only an interest manifested by industries, but the European Commission is also supporting environmental, social and economic sustainability actions addressed to the whole society.

Encouraging a **culture of sustainability in business** is an important driver that creates value and competitive advantage.

The eco-sustainability of European industries through MAESTRI TEF

H2020 MAESTRI

MAESTRI projects aims at advancing the sustainability of European manufacturing and process industries by providing a flexible and scalable platform which promotes an innovative managerial approach: **the “Total Efficiency Framework”**.

The combination of the 4 pillars constituting the TEF fosters a new methodology which fills technical, managerial and organizational gaps to the effective implementation of a sound sustainable managerial approach in European industries.

From the point of view of application, this approach will allow:

- To improve **resource, energy efficiency and energy costs** by 20%
- To maximize the **“waste2resource”**
- To enhance **cross-sectorial interaction**
- To provide highly replicable and flexible solutions
- To increase the **competitiveness** of European process industries

The project aims at changing European industries by making them more attentive to environmental issues. Moreover, it creates a new management culture able to radically change the approach to sustainability with the help of new tools for controlling and monitoring performances. **Project tools are both technical** (based on innovation and IoT) **and organizational** (based on a Lean approach and on an integration with existing standard management system such as ISO 14001).

This change is framed in a broader context of industrial symbiosis in which resources are shared among different companies to reduce the environmental impact by reinserting in the productive process waste that can be transformed into new resources.



Course “Total Efficiency Manager”

In order to multiply the impact of the project's contents and main results, a training course will be proposed to the industrial community (both middle and top management) and to all interested stakeholders from various industrial sectors. The goal is to provide the industrial partners with a general knowledge of the project and, most importantly, with **all the necessary skills to implement the MAESTRI Total Efficiency Framework within their own industrial or professional context.**

The course – titled “**Total Efficiency Manager**” – will be based on the modules which were previously developed for the training of MAESTRI industrial pilots, and will be focused on teaching the industrials **how to apply MAESTRI managerial tools and methodologies to their specific professional context.** It will tackle the following topics:

- Presentation of MAESTRI project
- Monitoring and management of industrial processes through IoT and sensors
- The evaluation of eco-efficiency of industrial processes
- Introduction to industrial symbiosis
- The MAESTRI management system
- Eco Orbit View
- Eco Lean Management Board
- Problem solving and reflection processes



Course “Total Efficiency Manager”



It is important to underline that “Total Efficiency Manager” is an **online course** which will be provided through an **e-learning platform**. This learning modality is extremely useful and flexible for participants – especially for those who also work full-time - because they can study the material individually, at their own pace, and at a time that is convenient for them, without the need to participate in class lessons.

Although Sinergie is leading **Task 8.5**, all Partners are called to provide their support in creating and implementing the training course in their own country, as this will contribute in increasing their engagement capacity and the overall project visibility. Task 8.5, in fact, is included in **WP 8 (Dissemination & Communication)**, whose main objective is to facilitate the spread of project results and to reach all key target groups. This is made possible through different strategies: by communicating online on the website and social networks, by distributing promotional material such as leaflets and brochures, and by organizing events like workshop and –as it is the case – training courses.

2nd Review Meeting

The MAESTRI Consortium met in Brussels for the 2nd Review Meeting on **10 October 2018**. During this event, the partners showed to the EC officers the progresses of MAESTRI, the achieved impacts and the plan for the last year of activities.

MAESTRI is going to conclude in Summer 2019 with a **final dissemination event to be held in Lisbon**, Portugal. By then, project efforts will be concentrated on finalise the demonstration of MAESTRI tools and define for them a roadmap to be ready to the market.



Workshop on Industrial Symbiosis

Cambridge (UK) - 10/12/2018



The first UK national workshop will be organised in Cambridge on the 10th of December 2018.

This workshop is a half-day session designed to introduce some of the concepts and tools developed during MAESTRI project. The workshop is **free to attend**, and is specifically aimed at:

- Industry professionals with an interest in waste management and/or industrial symbiosis;
- Manufacturing managers on the lookout for innovative industrial symbiosis training systems accessible to workers at all levels, from the boardroom to the shop floor;
- Environmental and industrial symbiosis specialists interested in the latest tools and training materials developed through the MAESTRI project.

The workshop will take participants through an interactive training session designed to **introduce the MAESTRI toolkit, as well as some of the Industrial Symbiosis tools developed during the project.**

It will be held from 10:00-14:00 on the 10th of December at the Institute for Manufacturing, Charles Babbage Road, Cambridge.

The session is free to attend, and places are limited. Early registration is advised. To register your place please email **Daniel Summerbell** on dls43@cam.ac.uk

Find out more on MAESTRI website: <https://maestri-spire.eu/11th-december-2018-first-maestri-national-workshop-in-cambridge-uk/>

Let's begin MAESTRI training in Poland



In order to spread the results of Maestri Project among Polish industry, LEI Polska is organizing **first two Maestri Trainings**. Both of them will take place in selected Heating Plants – **ZGC Tomaszów Mazowiecki** and **ECO Tarnobrzeg**. This type of industry has been chosen as a highly desirable partner to spread the principles of sustainable development.

The main theme of this first training is **Eco Lean Manufacturing**. Participants will have the opportunity to learn how Lean Manufacturing tools can be used not only to support business but also environmental objectives, at the same time. In the example of the heat production process, the synergy points of both aspects will be determined by creating an **individual Eco Orbit View map**.

A scheme for analysing potential improvement projects using the **Eco A3 report** will also be practiced. Tools that will be presented during the workshop can teach how to successfully integrate environmental aspects into improvement projects that normally focus only on optimization of the production process.

Lean Thinking in “Pole” Position

The MAESTRI project, with the particular emphasis of MAESTRI Videos – Eco Orbit View and Eco Lean Management Board – was mentioned in an interview with prof. Tomasz Koch (President of Lean Enterprise Institute Polska) conducted by Roberto Priolo (Managing Editor of **Planet Lean**—The Lean Global Network Journal).

The interview can be found at the following link:

<https://planet-lean.com/lean-thinking-poland/>

Check and see how lean thinking has been developing in Poland with the help of **Lean Enterprise Institute Polska** and watch our videos in order to get to know how we manage to combine business aspects with the environmental ones.





Newsletter #4

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



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