

## Facing resource efficiency in Italian SMEs with EDIT Value tool

### The experience of Moretti Compact

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## EDIT Value has been tested in 2 Italian SMEs:

- Moretti Compact s.p.a. (*wood furniture*)  
*Cosmob + ENEA*
- Stafer s.p.a. (*windows components*)  
*LCA-lab + ENEA*

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**ENEA** is the Italian National Agency for New Technologies, Energy and Sustainable Economic Development.

Its mission is to foster the sustainable development in Italy supporting the decoupling of prosperity and welfare growth from environmental impacts.

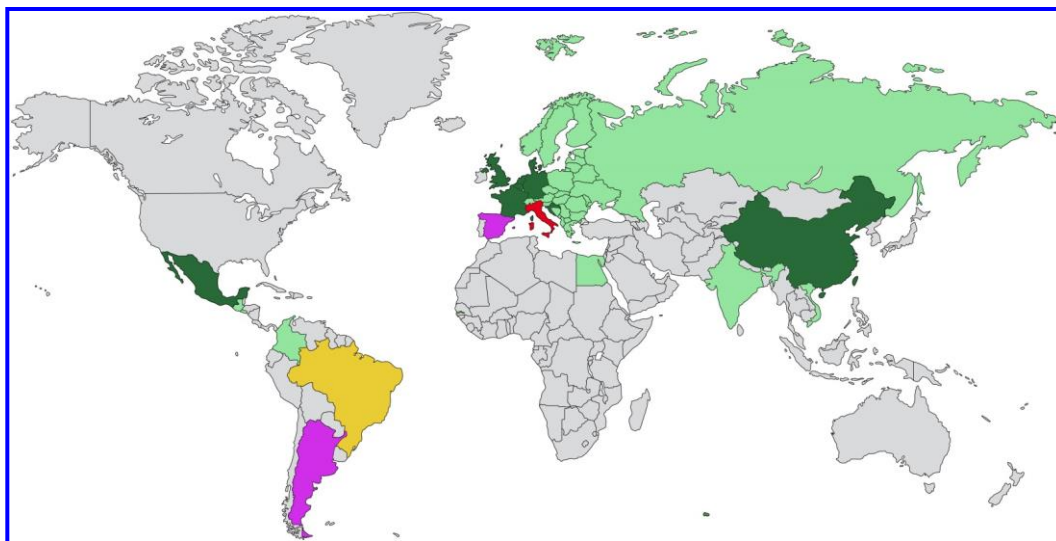
The **LCA** and **Eco-design Lab** of ENEA develops methods and tools for:

- sustainability analysis based on life cycle approach
- product eco-innovation
- industrial area eco-management
- related international standards and certifications



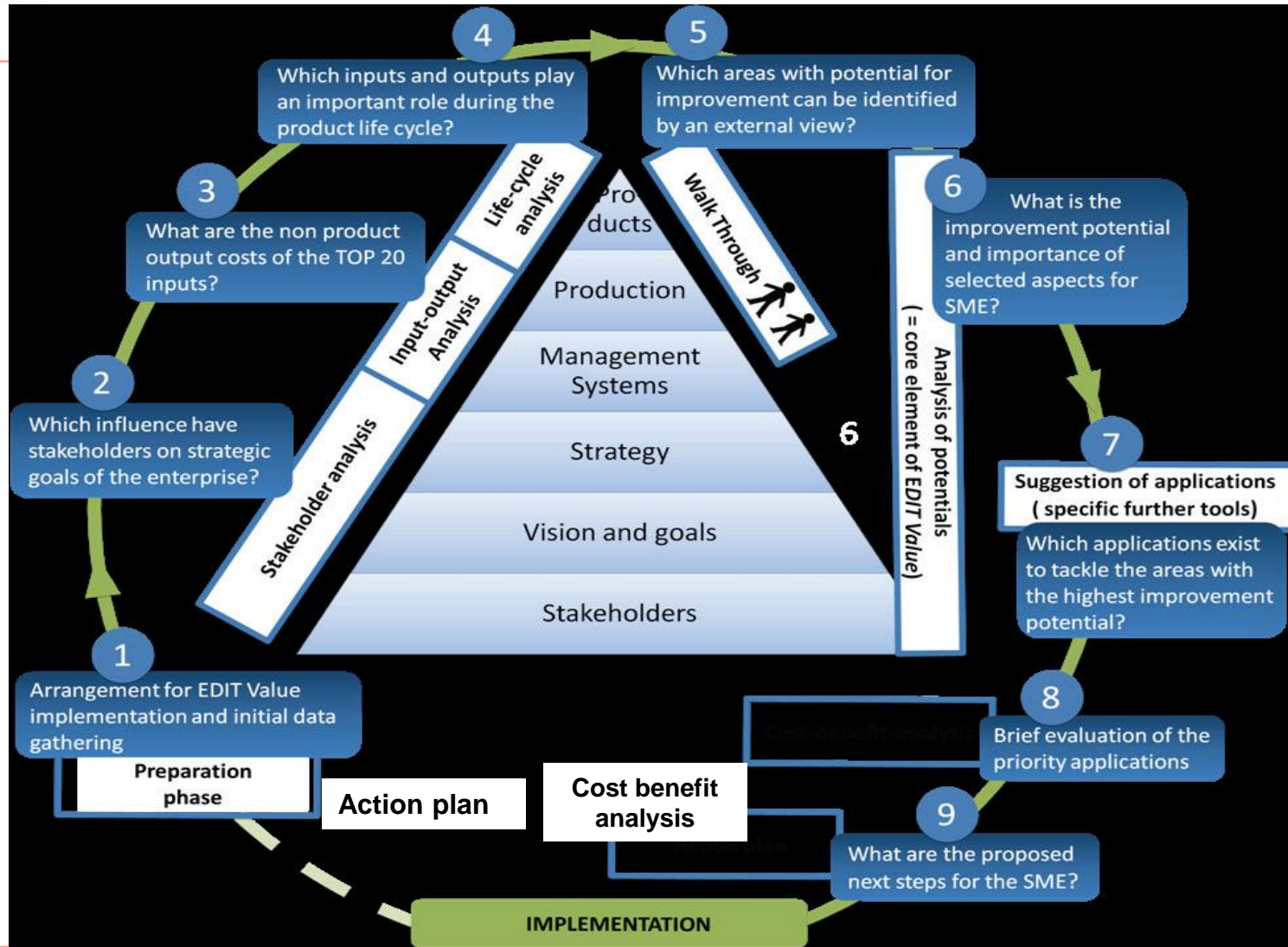
Cosmob is a specialized centre for wooden furniture companies.

Cosmob offers its expertise in order to improve and certify the quality (testing laboratories), support design, research and development of new products and sustain companies in their way to internationalization.



- Within the application of the EDIT tool, all levels of an **enterprise's management pyramid** are assessed in a systematic way:
  1. *products (considering all life cycle stages)*
  2. *processes*
  3. *systems*
  4. *stakeholders*
- The goal is to identify the **most effective Resource Efficiency opportunities for improvements** which could enhance the enterprise's value.
- EDIT value users: **consultants and intermediaries**

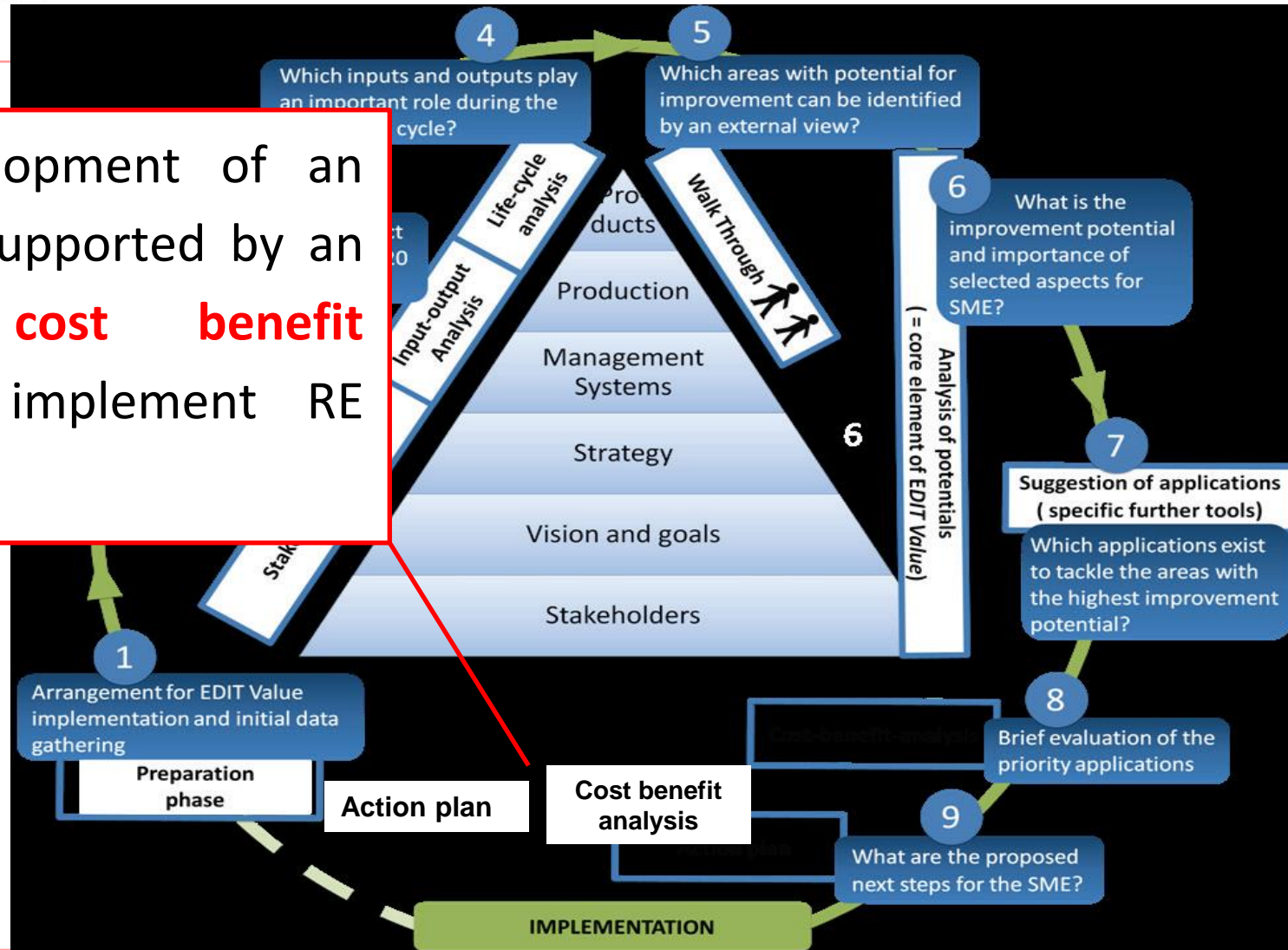
# EDIT value tool





# EDIT value tool

Result: Development of an **action plan** supported by an **innovative cost benefit analysis** to implement RE measures





Main steps of EDIT value tool:

## 1. Stakeholder analysis:

- The main **Stakeholders** and **Strategies** are identified by the company, weighted and related to each others in a matrix.
- It helps to better understand **how an enterprise reflects interests of stakeholders**.

## 2. Input/output analysis:

- It estimates total losses related to inefficient use of natural resources within the processes (so called ***“Non Product Output costs”***)
- **Quantities and costs** of material and energetic inputs, waste and emissions are collected to identify the **“Top 20 inputs”** (annual figures)

## 3. Screening life cycle analysis:

- **qualitative evaluation of the main inputs and outputs** of the products life cycle

# EDIT form 1.6: Identification of potentials

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- The core of the analysis is a **questionnaire** which asks for the relevant areas with potential effects on sustainable consumption and production;
- Form 1.6 is divided in: *stakeholder dialogue, vision, strategy, management system, process and products*;
- Questions ask for the existence and the **actual implementation of the identified aspects**, rating it from: *“no action of the enterprise at present”, to “proactive use of the respective action”*.

# EDIT: Identification of potential (form 1.6, example: product section)

## 4. PRODUCTS

### ANALYSIS OF THE ENVIRONMENTAL IMPACTS OF THE PRODUCT LIFECYCLE

4.1 Evaluation of consumption of resources (materials, water and energy) related to the product life cycle

NA	Absence	Preparation	Integration	Proaction	WEIGHT
0	Nothing has been done yet	Data about the consumption of resources are available from different stakeholders and different product life cycle phases	A qualitative or quantitative analysis has been performed	We evaluate the consumption of resources related to each of our products and use that as an indicator when selecting among different design choices (e.g. water footprint)	A B C
	1	2	3	4	
Sour.	Int				
Rem.	For considerations about the packaging of the product, please refer to element 4.17				

# PRESOURCE **Main benefits of EDIT Value tool**

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- Identification of most interesting **areas for improvement**
- Double benefits from innovation projects: **costs savings and reduction of environmental impacts**
- Better control over **strategic risks and opportunities of enterprises**
- New view on business **effectiveness and efficiency**
- Involvement of staff in **continuous improvements** in enterprise performance

# Moretti Compact: a certified high quality company

- One of the Italian market leader for **bedroom furniture** production
- Mainly ***national market*** and approaching to the Russian market
- All ***modular products***
- ISO 14001 and BS OHSAS 18001 certification
- Use of FCS certified wooden panels and water based paints
- Recycling of most of the waste produced (internal & external recycling)



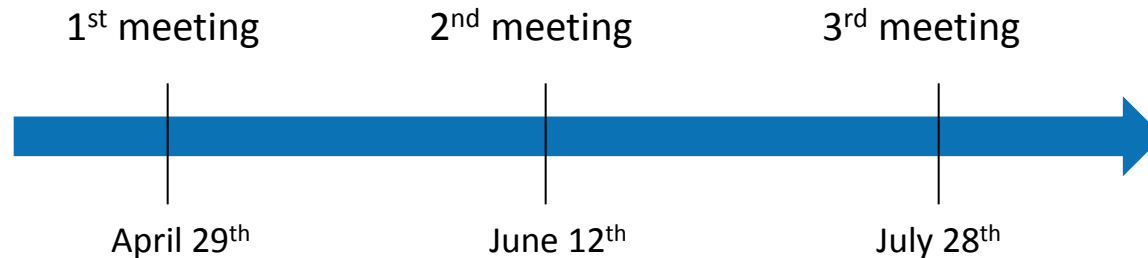


The tool was tested through the collaborative work of ENEA and **Cosmob**, a specialized centre for wooden furniture companies.

This cooperative approach has allowed:

- a ***fruitful intersection*** between the knowledge of Cosmob in the specific field of wooden furniture and the expert contribution of ENEA for the environmental assessment and the eco-design
- a really ***effective*** and ***comprehensive audit*** of the company

# The organization of the testing phase



- *1<sup>st</sup> meeting*: stakeholders analysis, TOP 20 analysis, screening analysis of the input and output of the product life cycle (*around 2,5 hours*)
- *2<sup>nd</sup> meeting*: walk through, identification of potentials (*around 3 hours*)
- *3<sup>rd</sup> meeting*: presentation of the results and of the action plan

# Some results of the EDIT Value Tool application

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- Definition of the environmental profile of materials and components used in order to select the **suppliers** also on the basis of the **environmental performance** (guidelines)
- Definition of the actual percentage of **recyclable** materials of the Moretti products (and packaging) in order to get it **higher and higher** (ecodesign)
- Training on **Ecodesign**
- More organised and **detailed monitoring** of the energetic and material consumption data in order to **increase resource efficiency**

# Main findings of the testing phase

- The ***Stakeholders analysis*** has been a fruitful opportunity for the managers of the company to better understand their own ***priorities*** and how they are performing in order to involve the stakeholders in their ***strategies***
- We faced some ***difficulties*** in the ***collection of the data*** related to each production line (wood cutting, painting, packaging, etc..) for both the TOP 20 inputs analysis and for the screening LCA form
- We collected most of the information needed for ***screening LCA*** in the previous steps and we believe a ***specific expertise*** is needed in order to handle the screening LCA analysis

**EDIT Value Tool** is able to fit several productive field and thanks to its ***comprehensive approach***, is suitable for a screening audit or a detailed analysis since it does not omit any significant opportunity for improvement.

Thanks to its “modular structure” EDIT is ***easily adaptable*** to the needs of the consultant.

Anyway for a correct use of the tool in a detailed analysis, the ***expert judgment*** of a consultant is needed.

**EDIT** is an ***auditing instrument*** and a ***supporting decision tool*** more than a decision tool .



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