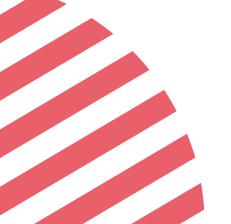


# Promoting resource efficiency and eco-innovation in Italian SMEs

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### PRESWURCE Few info about ENEA

- Italian National Agency for New Technologies, Energy and Sustainable Economic Development
- Its mission is to foster the sustainable development of Italy by supporting and assisting the decoupling of prosperity and welfare growth from environmental impacts
- the Agency's activities are targeted to research, technology innovation and advanced services to public administrations, public and private enterprises, and citizens.
- ~2700 employees









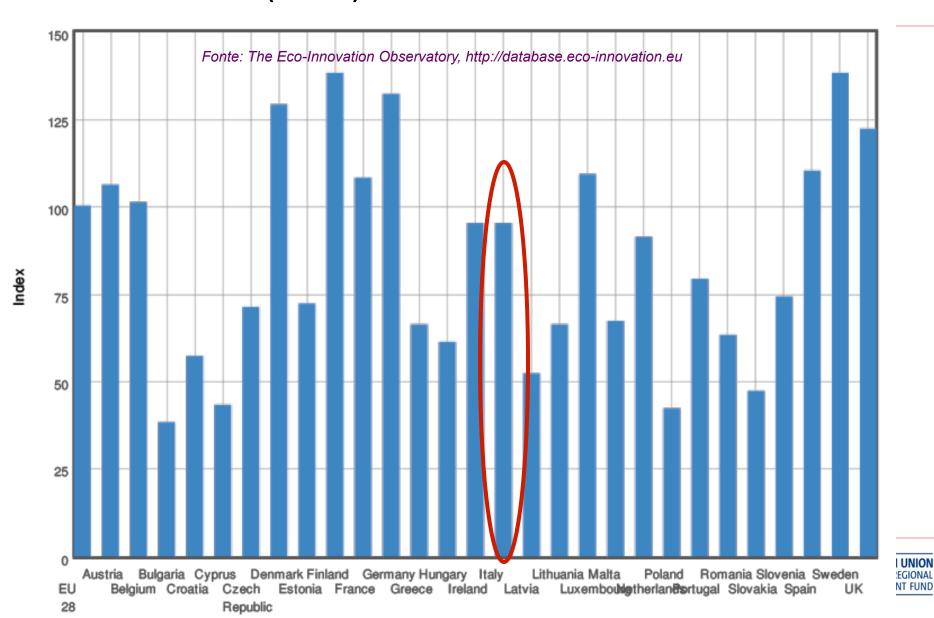
### PRESWURCE LCA and Eco-design laboratory

- ENEA LCA and Eco-design laboratory is a well reputed team of 20 full-time researchers, grant holders and PhD students with multidisciplinary background.
- Its mission is R&D, application and <u>transfer</u> to the national system of method and tools for:
  - social, economic and environmental sustainability analysis based on life cycle approach;
  - product eco-innovation;
  - organisations and industrial area eco-management;
  - related international standards and certifications.



## PRES URCE

## Eco-innovation performance in Europe (2013)





# Resource efficiency and eco-innovation in Italy

- >200.000 with 10 or more employees but only few hundred firms performed LCA studies
- LCA is the most powerful method for ecoinnovation and environmental policy
  - Factor 1000 to exploit the full eco-innovation potential of Italian firms





### PRESCURCE Eco-innovation determinants

Supply side factors Technological and management Technology push Collaboration with research institutes, agencies and universities. Access to external information and knowledge. Size Material prices Cost-saving Energy prices Market share Demand Market pull Market demand for green products. side factors Existing regulations Environmental Regulatory pull/push Expected future regulations policy influences Access to existing subsidies and fiscal incentives.

Source: Á. Triguero-Canoet al (2013), "Drivers of different types of eco-innovation in European SMEs", Ecological Economics, 92, 25-33, Elsevier







# What a research centre can do for the eco-innovation promotion

- Develop methods and tools taylored to the SMEs needs
- Develop high quality / low price databases
- Make them available to the market
- Rise the SMEs awareness





# What ENEA LCA & Eco-design Lab is doing

## The knowledge, methods and tools developed in R&D projects is transferred to enterprises by:

- Participation to transnational cooperation projects (Central Europe, MED, bilateral programs)
  - Sharing best practices, methods and tools; learning by others
- LECOP: laboratory of the Regional High Technology Network for industrial research
  - Industrial research projects with firms to cope with their specific eco-innovation problems
- Promotion of research spin-offs: LCA-Lab; Ecoinnovazione srl
  - consultancy services based on most advanced state of the art
- Rise the awareness promoting networks (Rete Italiana LCA) and participating to training and workshop targeted to key actors





#### PRES URCE

### **LECOP ENEA**

**LECOP** - Research Laboratory for Environmental Assessment and **Ecodesign** embraces different approaches in environmental assessment, management and research:

- Air quality
- Integrated technologies for water resources management
- Life Cycle Assessment and Eco-design

Main research topics are the development of methods, models, tools and applications for the environmental assessment of systems, products and services.





### PRESUURCE Ecoinnovazione s.r.l.

#### The mission:

 To support enterprises and public administrations in smart, sustainable and fair development.

#### The product:

 eco-innovation and sustainability consultancy based on life cycle approach and in line with the environmental international policies

#### **Key factors:**

- consultancy based on innovative scientific multidisciplinary approaches
- analysis of strategic needs and integrated strategic planning
- taylored services
- Direct linkages with ENEA: knowledge, transfer and application of the most up-to-date methodological developments and initiatives.















## LCA and Eco-design Laboratory ENEA

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