

## EU Project PRESOURCE

Assessment of Resource Efficiency Potentials in  
small and medium-sized enterprises (SMEs) with  
the EDIT Value Tool

European Resources Forum, Berlin, 11<sup>th</sup> November 2014



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- PRESOURCE: Promotion of Resource Efficiency in SMEs in Central Europe
- Main objective: improvement of resource efficiency (RE) in industrial SMEs
- June 2012 – November 2014 (2.5 years)
- Co-financed by Central Europe (CE) Programme 2007-2013 (European Territorial Cooperation; INTERREG)
- 8 partners from 6 countries (8 countries in CE)

# Project Partnership

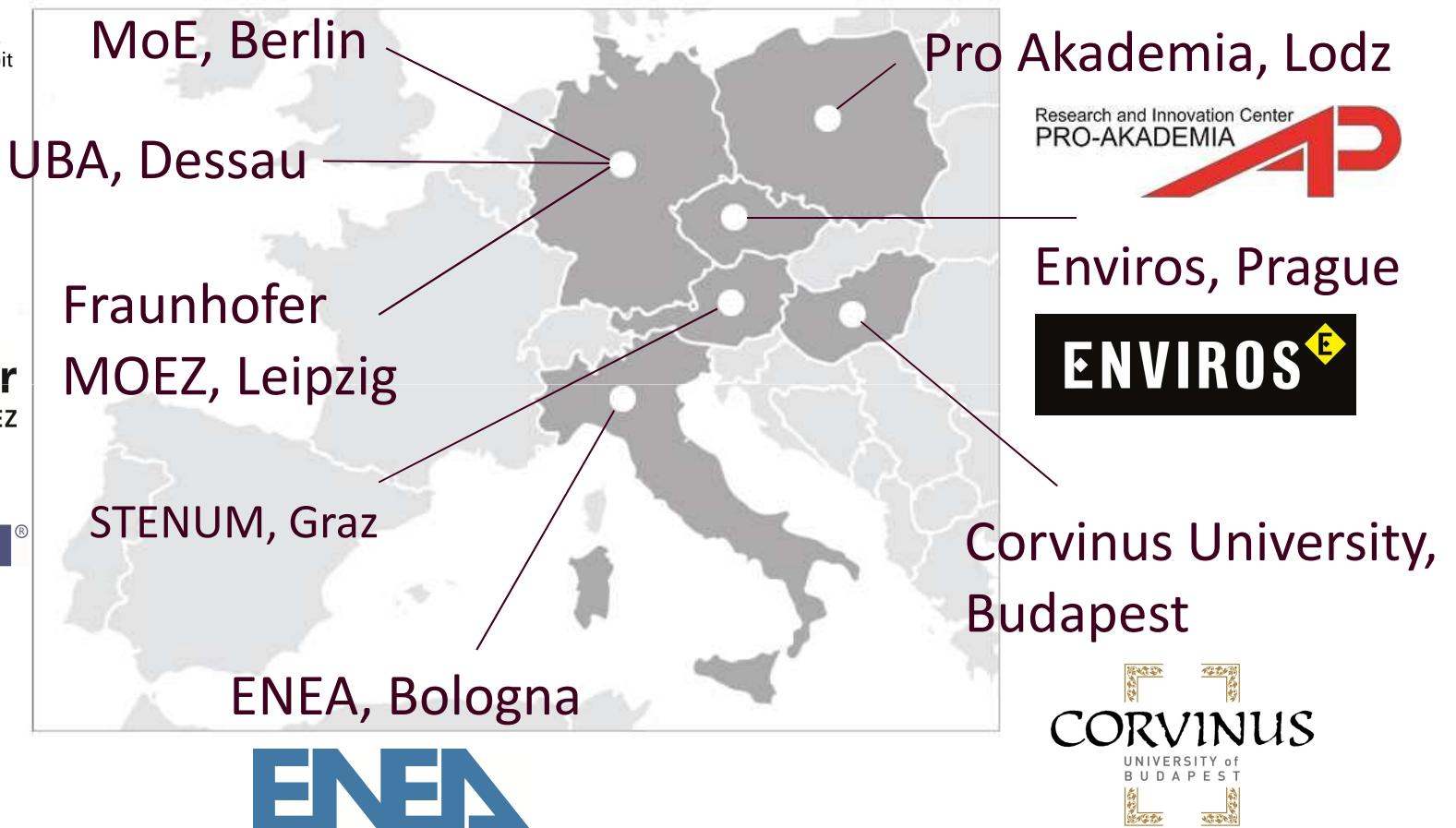


Bundesministerium  
für Umwelt, Naturschutz,  
Bau und Reaktorsicherheit

Umwelt  
Bundesamt

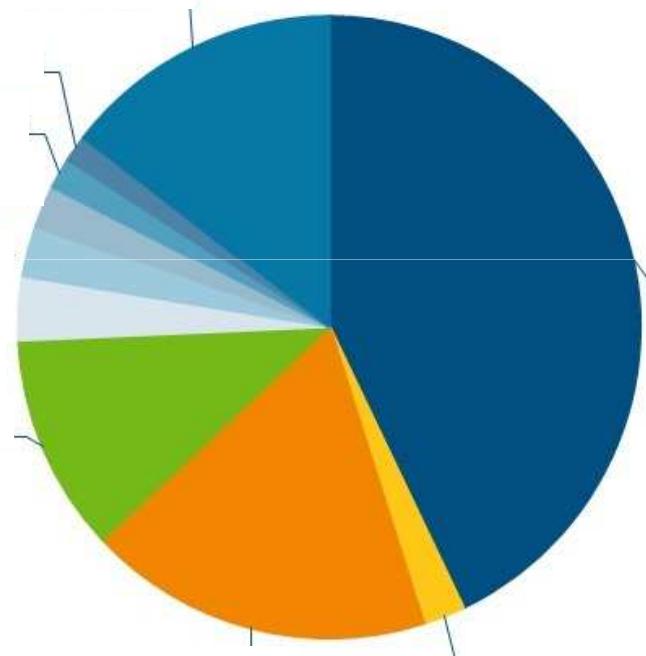
Fraunhofer  
MOEZ

STENUM®



## Cost structure in industrial SMEs (Germany)

Source: Federal Statistical Office (Destatis)

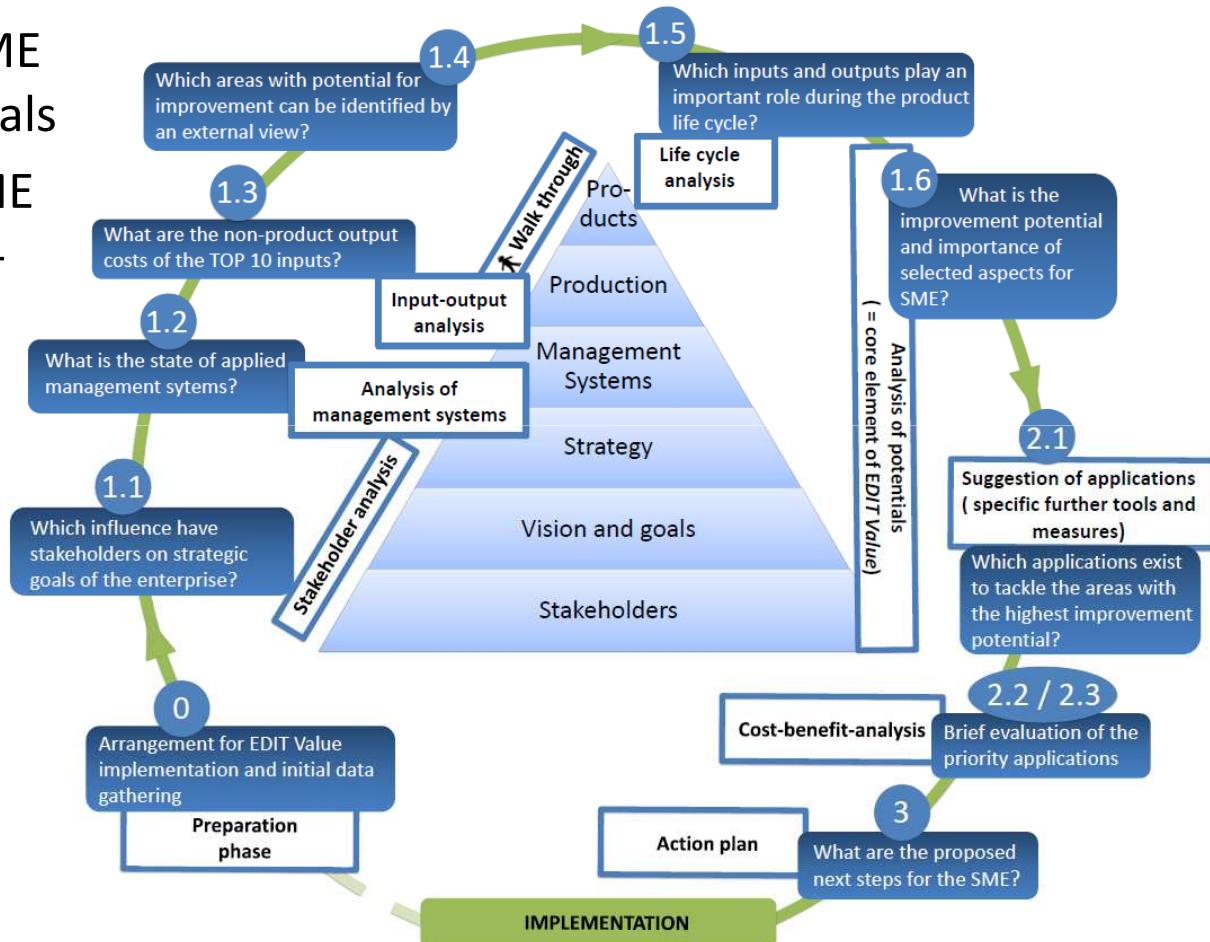
**SMEs in the EU:**

- 99,8% of enterprises
- 2/3 of jobs
- 58,6% of value added

Most SMEs are not aware of their cost structure!

- **Main goal:** Reduction of resource use and cost in SMEs
- **Project key aspects:**
  - (1) Establishment of **Eco-Innovation Diagnosis and Implementation Tool** for increase of enterprise **Value** (EDIT Value)
  - (2) Financing issues of RE
    - public and private financing opportunities
    - innovative financing instrument
  - (3) Establishment of a RE Competence Platform

- Holistic approach: entire SME is considered for RE potentials
- Integrated RE approach: SME need-driven instead of tool-driven
- Awareness raising tool for resource efficiency improvement



- Application of EDIT Value in 18 SMEs throughout CE (2-5 per country)
- Assistance by external consultants
- 2-3 meetings including walk through the production site
- Report including action plan
- 40 hours for consultant, 10-30 hours for enterprise director/team (depends on willingness of director to invest time)

## Aluminium foundry

- Aluminium castings for various sectors (primarily automotive)
- 30 employees, turnover: 2-3 million €
- Electrical and gas heated ovens, core making shop, moulding plant
- Treatment and reuse of moulding sand
- Resources costs (25 % material, 4% energy of total costs)
  - Aluminium: 444,400 €
  - Electricity: 42,500 €
  - Natural gas: 70,700 €
  - Core sand: 8,900 €

*Losses: 30%*

## Aluminium foundry (Saxony): Action Plan

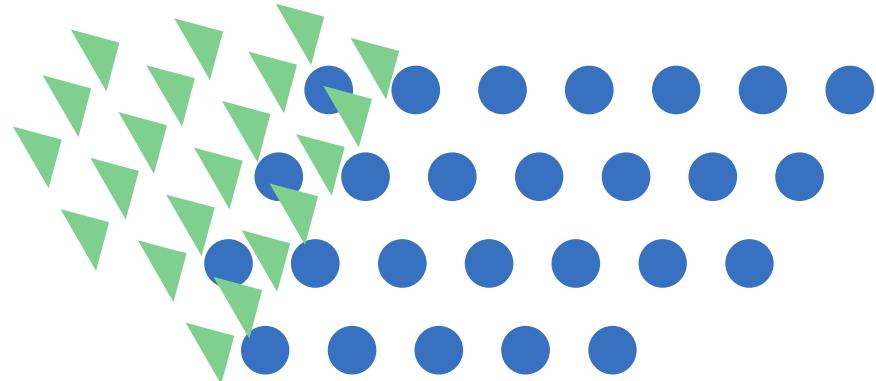
- Installation of an energy management system, establishment of energy key performance indicators (KPI)
- Heat recovery from compressed air compressors (electrical capacity: 30 kW)
  - typical RE issue for improvement (only 5% of energy needed is used)
- Exchange of HQL (mercury vapor) lamps through T5 LED tube lamps
- Valve for the Ceiling fan heaters
  - Only fan stops, not the heat supply!

[www.resourceefficiencyatlas.eu](http://www.resourceefficiencyatlas.eu)

- EDIT Value tool documents
  - All documents associated to different EDIT Value steps
  - Information on piloting cases
- Financial Guide for SMEs, Cost Benefit Analyses (for RE measures)
- RE stakeholders in CE
- Good practice examples, publications on RE, etc.

## **PRESOURCE Conference 12<sup>th</sup>-13<sup>th</sup> November**

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