

EU Project PRESOURCE

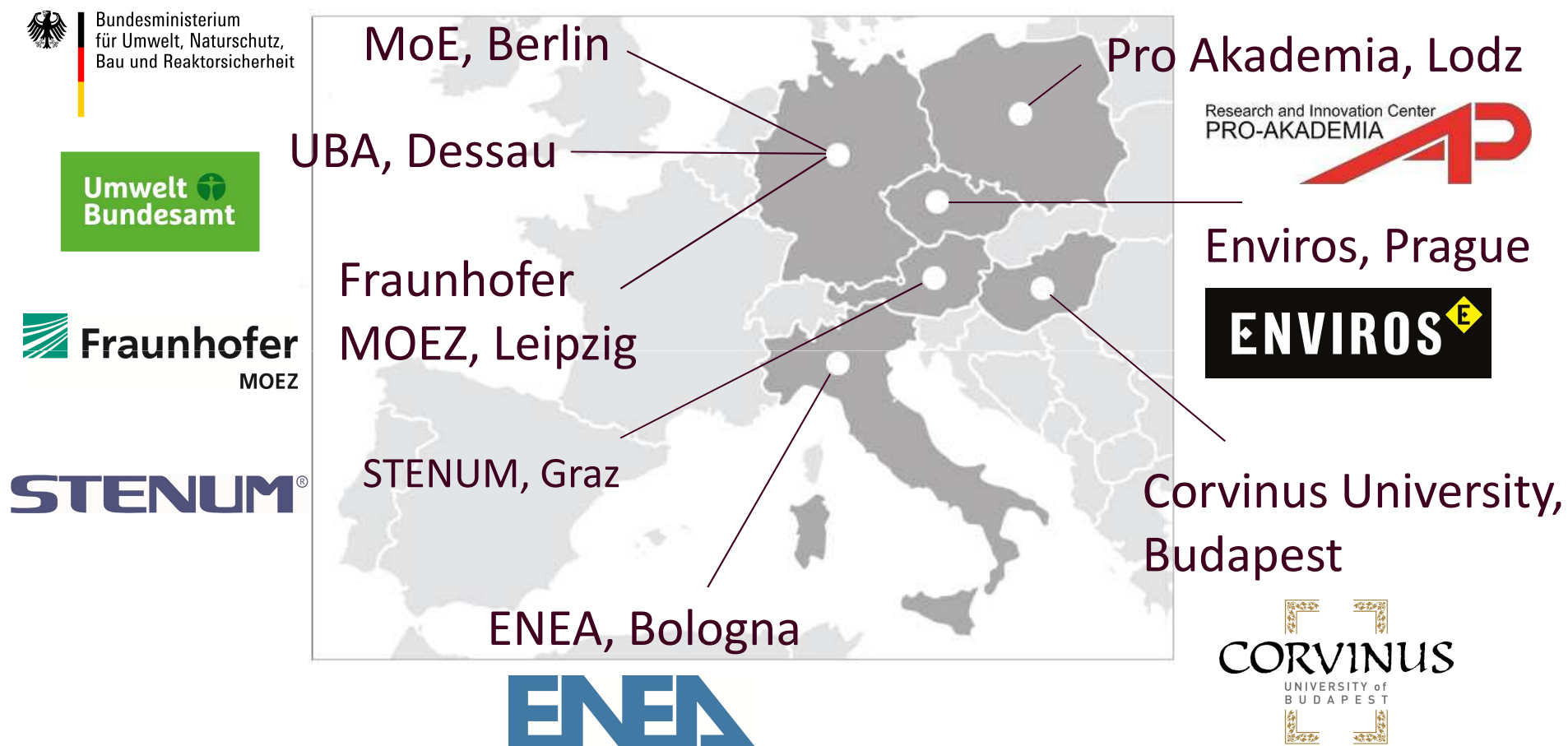
Assessment of Resource Efficiency Potentials in
small and medium-sized enterprises (SMEs) with
the EDIT Value Tool

European Resources Forum, Berlin, 11th November 2014

Daniel de Graaf, Federal Environment Agency

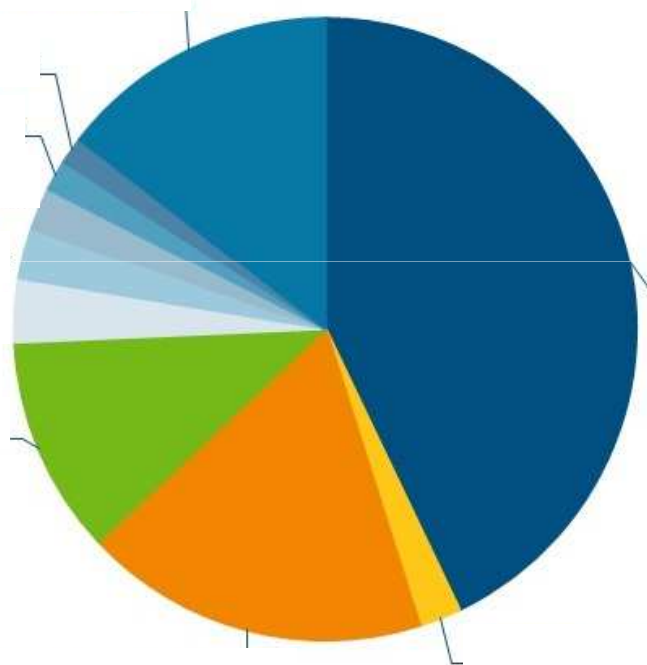


- PRESOURCE: Promotion of Resource Efficiency in SMEs in Central Europe
- Main objective: improvement of resource efficiency (RE) in industrial SMEs
- June 2012 – November 2014 (2.5 years)
- Co-financed by Central Europe (CE) Programme 2007-2013 (European Territorial Cooperation; INTERREG)
- 8 partners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



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:**

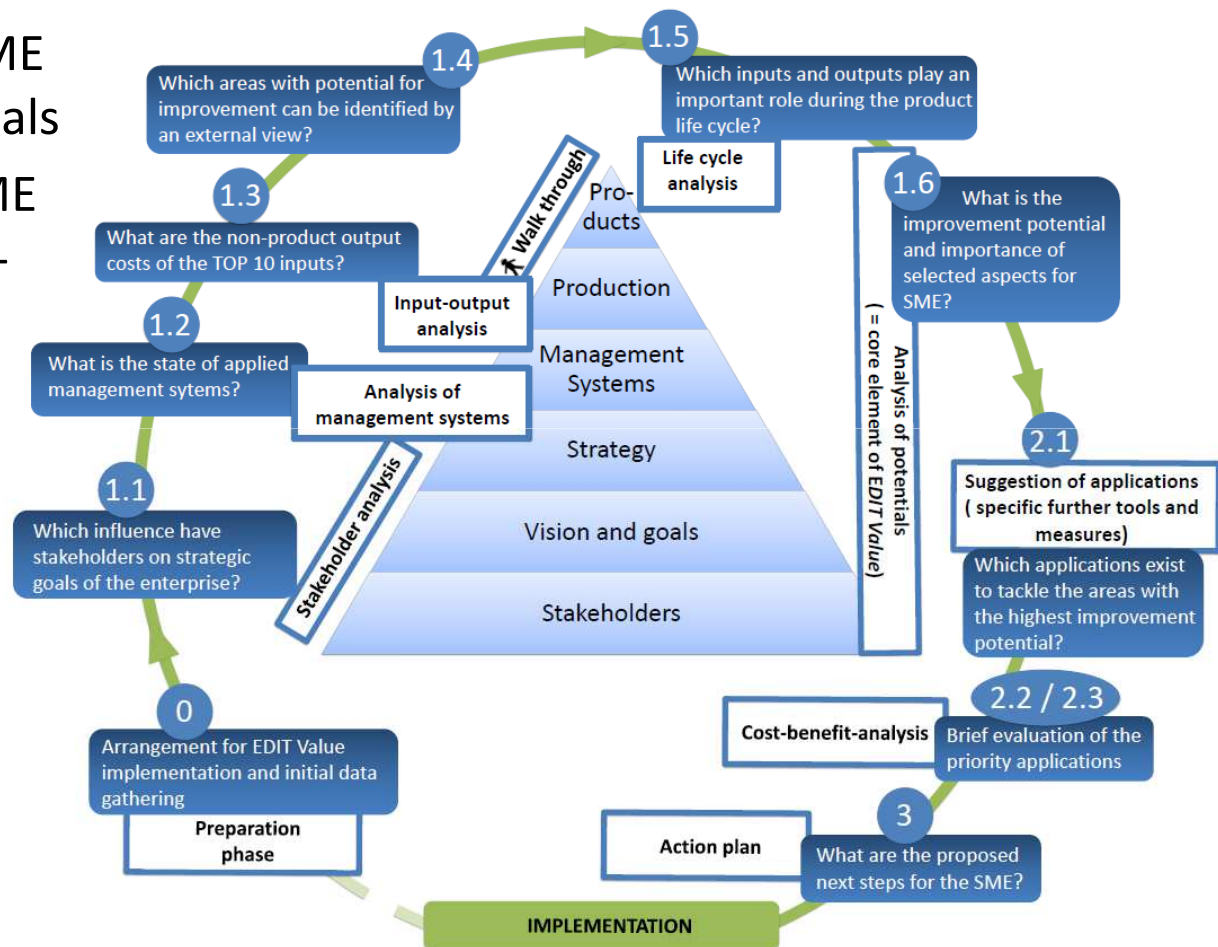
(1) Establishment of **Eco-Innovation Diagnosis and Implementation Tool** for increase of enterprise **Value** (EDIT Value)

(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

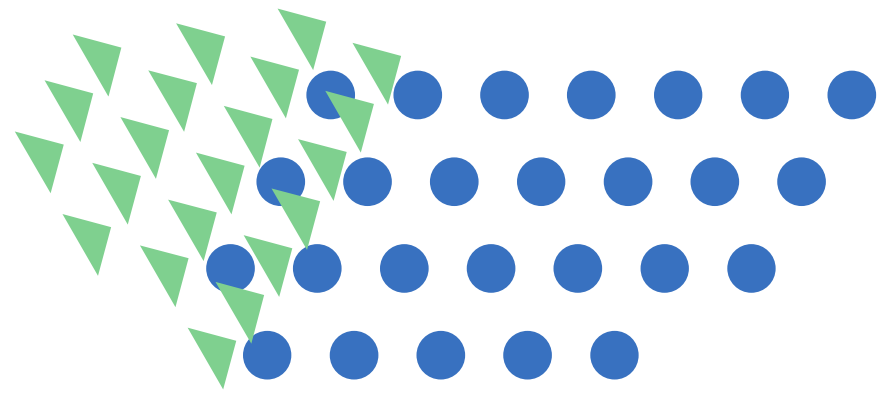
- Installation of an energy management system, establishment of energy key performance indicators (KPI)
- Heat recovery from compressed air compressors (electrical capacity: 30 kW)
 - typical RE issue for improvement (only 5% of energy needed is used)
- Exchange of HQL (mercury vapor) lamps through T5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

www.resourceefficiencyatlas.eu

- 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 12th-13th November

Ludwig Erhard Haus, Fasanenstraße 85



Thank you for your attention!



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