



Umwelttechnik BW – Technology and Innovation Centre for Environmental Technology and Resource Efficiency Baden-Württemberg

Dr. Christian Kühne Ministry of Environment, Climate Protection and the Energy Sector Baden-Württemberg

Environmental Technology, Research, Ecology





- Brief introduction into Baden-Württemberg
- Background and frame conditions for the establishment of the centre
- Foundation procedure and experiences
- Umwelttechnik BW a brief presentation of the centre
- Green growth / resource efficiency activities examples surrounding the centre
- Examples of other agencies

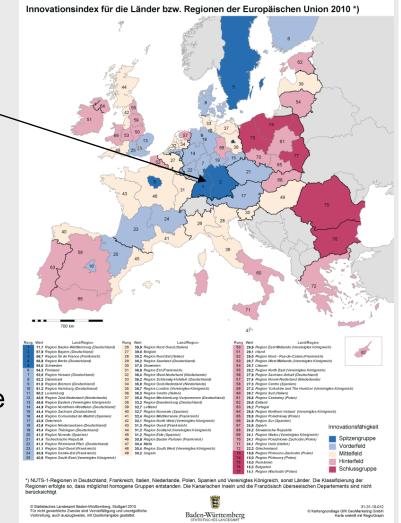






Baden-Württemberg

- 10,8 Mio. inhabitants
- 35.752 km²
- 398,49 Billion € GDP
- Manufacturing 33% of GDP
- No. 1 of innovation index ranking of European regions
- One of the leading economic regions
- Well known international enterprises like Daimler, Porsche, Bosch
- Backbone are SMW, "hidden champions" unknown market leader



Dr. Christian Kuehne







Fields of Economic Growth

Schlüsselsektoren

- Advanced manufacturing
- Key enabling technologies
- smart grids (better renewable energy infrastructure and energy efficiency)
- Bio-based products
- construction and raw materials
- clean vehicles and vessels





Diese Sektoren trugen ~ 2/3 des Wirtschaftswachstums in den Jahren 2000 - 07

1 Schätzung basierend auf Bruttowertschöpfung für Deutschland und Beschäftigungsanteil in Baden-Württemberg 2 Inkl. Gummi- und Kunststoffe

3 Inkl. Mess-, Steuer-, Regeltechnik und Optik

4 Inkl. Metallerzeugung und -bearbeitung sowie Herstellung von Metallerzeugnissen

QUELLE: Statistisches Landesamt Baden-Württemberg; VGR der Länder

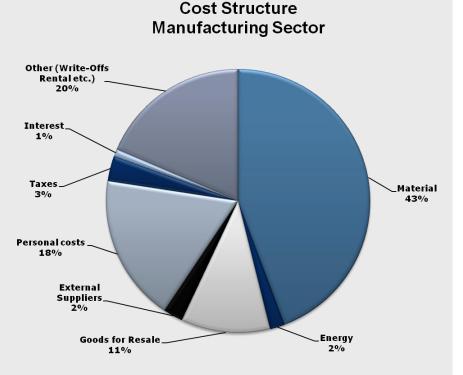
Gutachten Juli 2010 McKinsey und IAW im Auftrag des Staatsministeriums





Resource Efficiency as a Greening Strategy

- Materials are the main cost factor in the manufacturing sector with more than 40%
- Personal costs are less than 20%
- Decreasing of material costs is the way to
- strengthen the company
- support climate protection
- Cost reduction potential in 1.000 SME about 2% of turn over (avr. brutto profit 5,7%

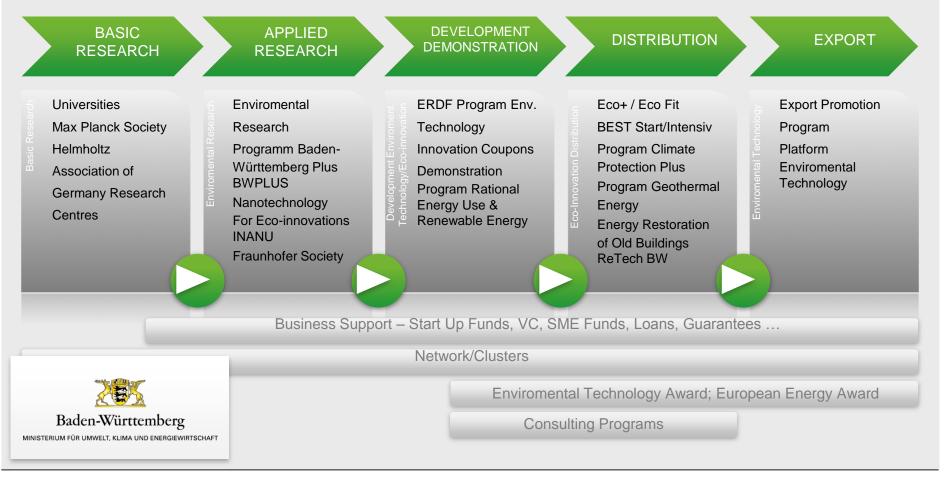


Source: Federal Statistical Office, Germany, 2012





Support for Green Growth







Ministries, Agencies and Stakeholders	Research & Development	Environmental Technology Investments	Consultation & Service	Export	Other Activities
UM	Х	Х	Х		Х
WM	Х	Х		Х	Х
MWK	Х				Х
IM	Х				
LUBW			Х		
KEA			Х		
Landesstiftung	Х				
bw-i				Х	
IHK			Х		
Steinbeis Centre	Х		Х		
LVI			Х	Х	
Networks & Clusters			Х		





Targets of the Agency

- Establishment of an "Energy and Resource Efficiency Initiative"
- A new focal point for the development of environmental technology in BW
- Mobilization of resource efficiency potentials in BW (in R&D and in companies)
- Resource efficiency as a core element of the future-oriented environemental policy
- Strengthening of BW based on an improvement of the innovation power for eco-innovation
- BW will become a pioneer for eco-innovation and green growth



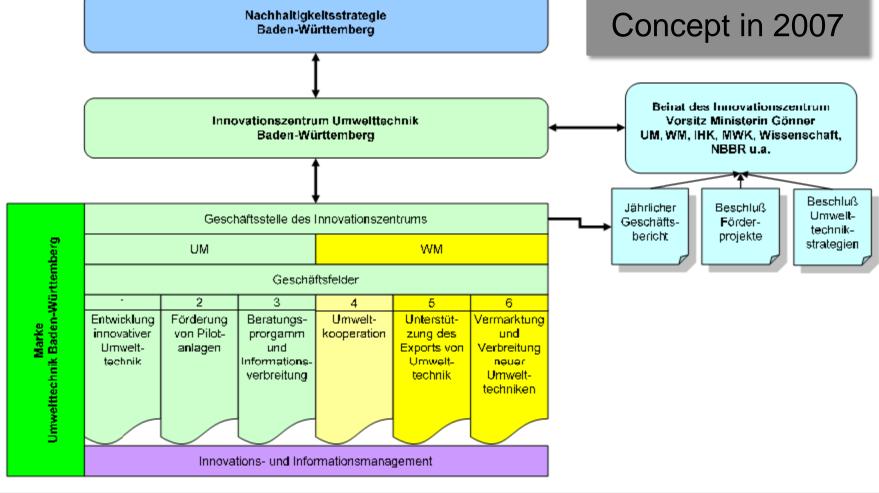


Tasks of the Agency

- Impulse for the development of resource efficiency technologies
- Identification of suited and prior-ranking fields of new environmental technologies
- Opening up of unused resource efficiency potentials in BW
- Development of new well-fitted support instruments for eco-innovatons in companies
- Coordination and execution of support and consultation programs
- Implementation of an information and innovation management system
- Building of network structures for information distribution of best-practiceexamples and top-runner-technologies
- Integration of local and regional networks and clusters
- Integration of economic and scientific stakeholders
- Consistent presentation of the "Environmental Technology Baden-Württemberg" as a brand
- Support of export and internationalization









EU-Twinning Project IS12ENPAPEN07



- Support in the Establishment and Implementation of a System of Integrated Pollution Prevention and Control and PRTR
- 2004 First idea of an "Innovation Centre for Environmental Technology"
- 2006 Sugesstion found one's way into the coaliton agreement 2006-2011
- 2007 Decision by the State Ministry for the foundation of a centre Task for the Ministry • of Environment and Ministry of Economic Affairs
- 2007 Reconcilements between the concerned 5 ministries, existend agencies, networks, clusters and industrial associations
- 2008 SWOT-Analysis for a new agency in the field environmental technology, innovation ٠ and green economy
- 2008 Definition of the frame conditions, goals, targets and tasks of the centre ٠
- 2009 Setting up of a finance concept, reservation of finances in the state budget
- 03/2010 New Prime Minister of Baden-Württemberg 1st government policy statement: Foundation of a new centre
- 05/2010 Council of Ministers decision "Environmental Innovation Laboratory" incl. a ٠ ", Technology and Innovation Centre for Environmental Technology and Resource Efficiency"
- 09/2010 Council of Ministers decision with details of foundation and financing ٠
- 10/2010 Selection of the location of the centre (located close to Stuttgart) •
- 10/2010 Job advertisement for the managing director ٠
- 02/2011 Configuration of the memorandum of association for the Ltd. (GmbH) •
- 27. May 2011 Foundation of the agency •
- 7. December 2011 Public announcment and business start of the company





Umwelttechnik BW

- An independent public body
- Non-profit orientation provides objectivity
- Plattform for enhanced collaboration of industry, science and politics
- Start budget for 2 years 1 Mio. € and annual budget 0,68 Mio. € by the Ministry of Environment
- Additional projects like energy efficiency consultation (2 Mio. € UTBW + 10 Mio. € operational), support of the Strategy for the Danube Region (0,7 Mio. €) etc.
- 9 technical and support staff with focus on
 - Environmental technology solutions (soil, water, air, waste)
 - Cleaner production concepts
 - Construction and infrastructure







January





Aggregation, consulting, supporting

- Strategic alignment of activities
- Support for SMEs
- Technology transfer

<mark>U</mark>mwelttechnik BW

- Promote community building
- Generation of content and visual materials

Communication and PR

Strategic project development

- Implementation of innovation
- Enhancement of key competencies

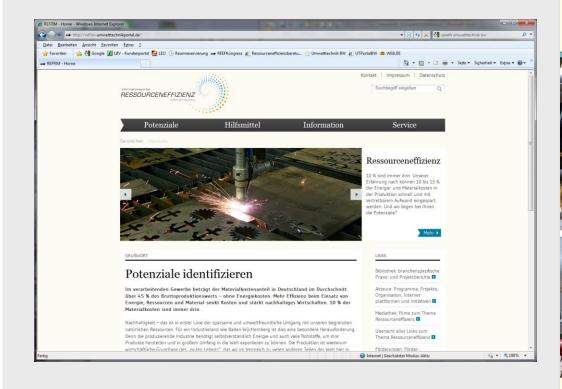
- Strategic alliances
- Appreciating and understanding local conditions

Internationalization



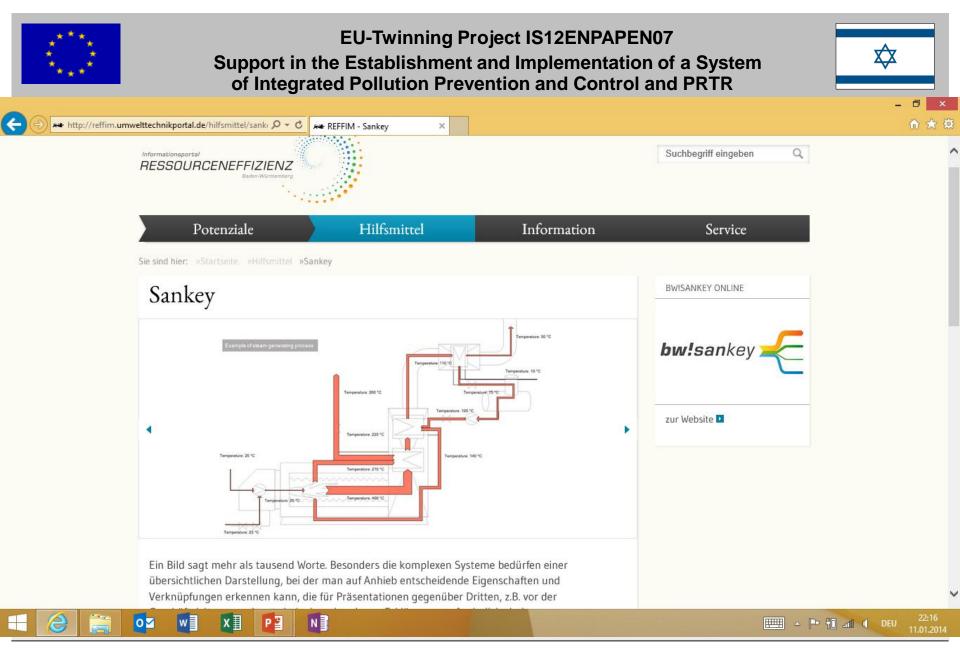


Greening strategy





MINISTERIUM FÜR UMWELT, NATURSCHUTZ UND VERKEHR













BW Resource Efficiency Strategy









BIOPRO Baden-

Württemberg - partner for research institutions and companies

As the state-wide service agency, BIOPRO Baden-Württemberg GmbH provides targeted support to the healthcare industries (pharma, medtech and biotech) and the development of a bioeconomy in our country

Fields of activity



Public relations work

Baden-Württemberg GmbH

PRO



Area and cluster development



Business start-up services

International networking



Innovation support



Location marketing



Business development support





State Agency for Electric Mobility and Fuel Cell Technology Baden-Wuerttemberg GmbH

As innovation agency of the State of Baden-Wuerttemberg we view ourselves as a central office for contact and advice for all matters related to electric mobility and fuel cell technology. We actively support and shape the technological and social transition to the sustainable mobility of the future.

Science in the market **Our Portfolio**

To encourage and support innovation and to realize the important synergies e-mobil BW focuses on the following activities:

- Networking and support activities of all stakeholders in the field of electric vehicles and fuel cell technology
- Targeted integration of small and medium sized enterprises in innovation processes
- Establishment of an efficient network and cluster management and initiating collaborative research projects
- Support and active participation in the appropriate environment for infrastructure, education and training opportunities and young talent
- Positioning Baden-Wuerttemberg as a business-, research- and scientific location as well as a market leader and provider in the field of electric vehicles and fuel cell technology at home and abroad





Thank You very much!



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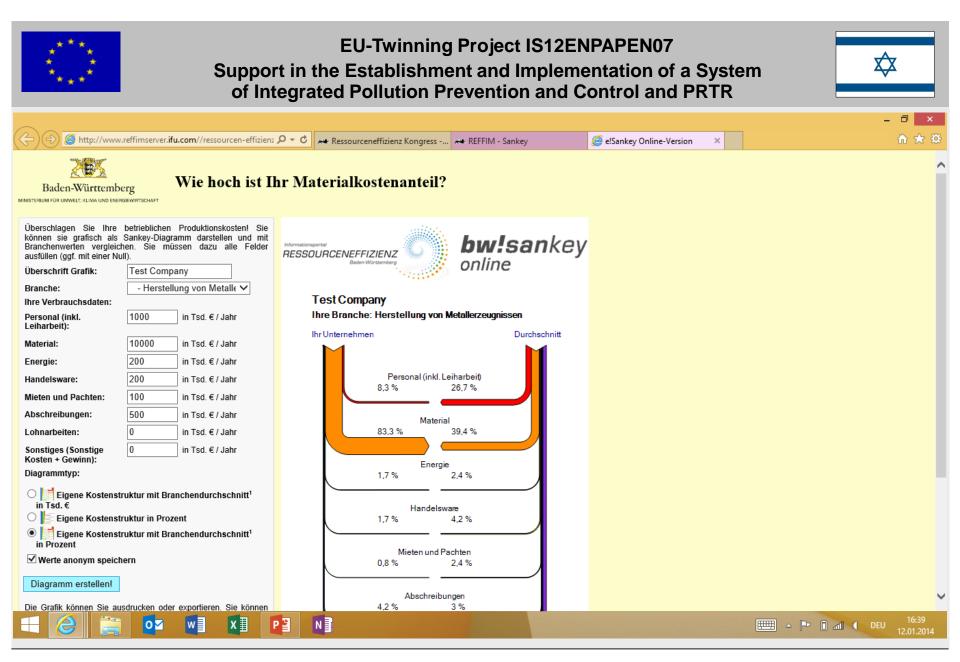
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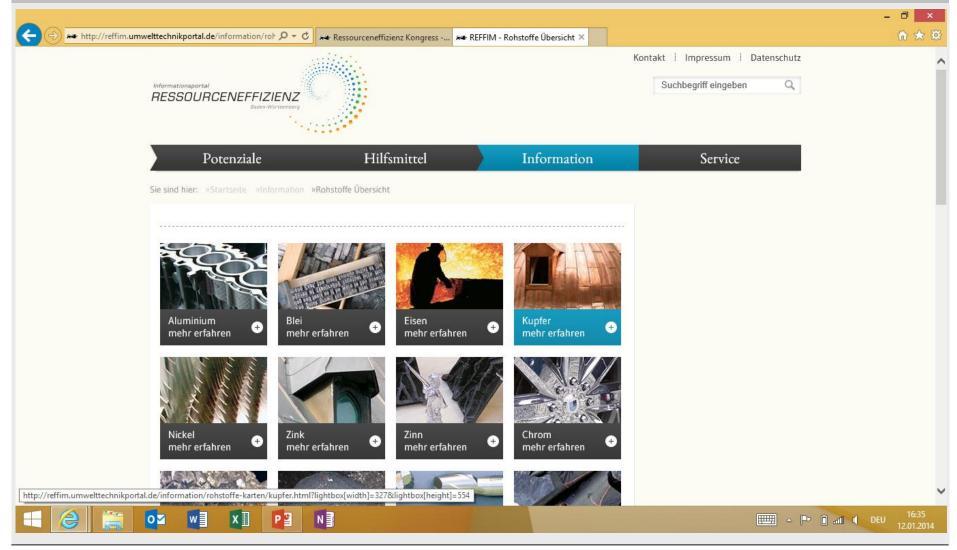
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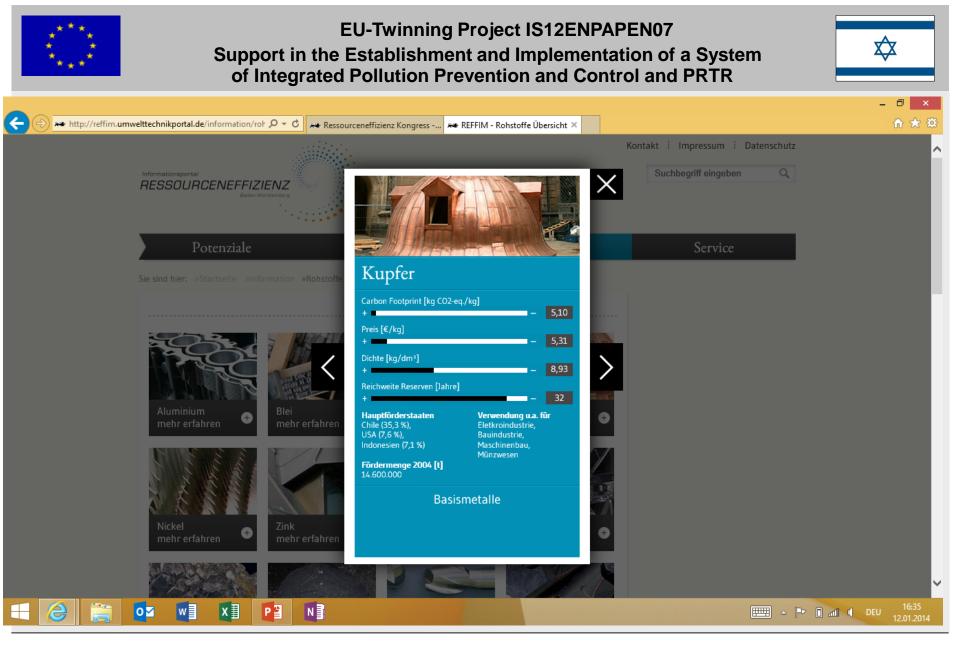
















Benchmark Study of Resouce Effciency