



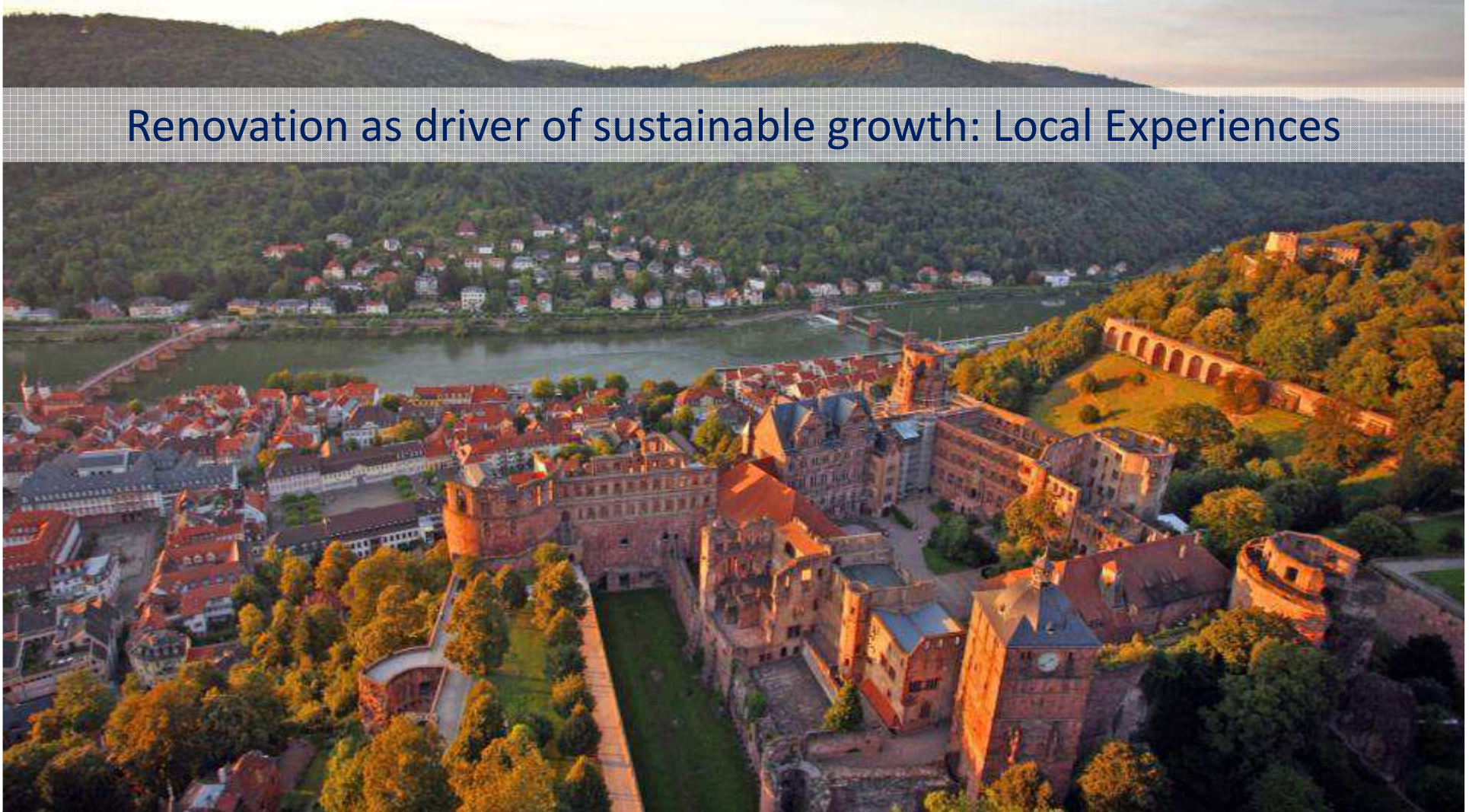
# Eckhart Würzner

**Mayor of Heidelberg & President of Energy Cities**

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# Heidelberg – A European City of Science

Renovation as driver of sustainable growth: Local Experiences



CITY OF HEIDELBERG  
Mayor Dr. Eckart Würzner



# Heidelberg – Green, Historical, Innovative, Sciencebased



**CITY OF HEIDELBERG**  
Mayor Dr. Eckart Würzner

Heidelberg  
Lord Mayor Dr. Eckart Würzner

# Heidelberg – a Sustainable City

Heidelberg on the way to a **Sustainable City**.

Our understanding of a sustainable City:

- **Ecology (100% green energie, Forest FSC,-50% CO2, >50% protectet areas)**
- **Economy (about 80% of all jobs based on science, 5,3% unemploymentrate, highest rate of scientist in europe)**
- **Humanity (5,3 % unemploymentrate, all collegestudents get a job)**

Heidelberg is a **dynamic** and **innovative** City, that is driven by the **respect for our nature**.





# Pioneering sustainability and environmental policy

- UN-City for Sustainable Development 2012 (UNESCO )
- Capital of Fair Trade 2011 (Federal Ministry für Development)
- City of Fair Trade 2010 (Fair Trade)
- Federal Capital for Nature Protection 2007 (DUH)
- German Solar Prize 2006 (Eurosolar)
- Climate Protection Award 2005 (Climate Group)
- European Sustainable City Award 2003 (European Commission)
- Climate Star 2002 (Climate Alliance)

# Partnership Approach in Heidelberg

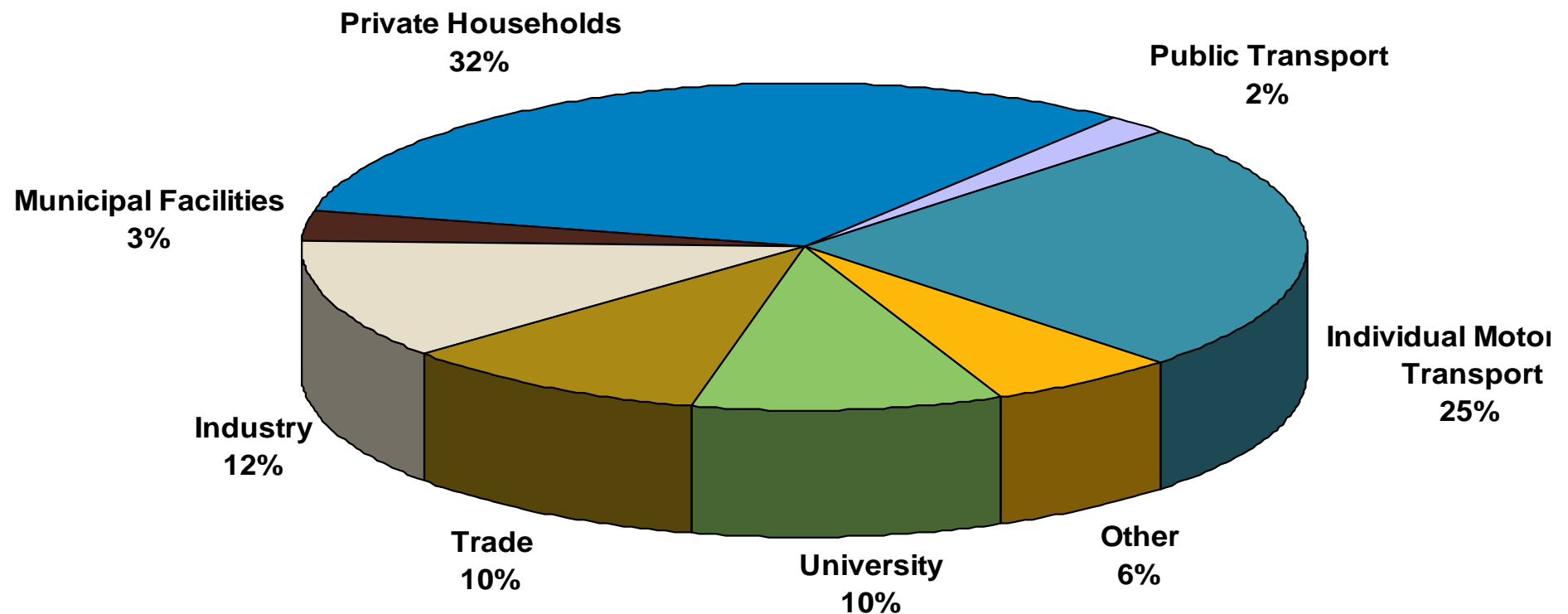
Objective Rio Agenda: In co-operation with their citizens, the towns and cities should achieve a consensus and promote the participation of women and young people in the decision-making, planning and implementation

## Partnership Approach:

- -City Development Plan
- -Public campaigns on climate protection
- -Traffic forum, Traffic Development plan



# First european climate protection studie 1992



# Climate Protection Strategy in 1992

## Climate protection concept 1992 / 2004

- Political goal: minus 20% CO<sub>2</sub> from 1987 to 2015
- Involvement of local stakeholders
- Stakeholder-specific measures
- CO<sub>2</sub> balance

## Energy concept 1992

- Minimizing investment and operating cost throughout a building's life
- Integrated planning/networking of trades during the planning stage





# Climate Protection Management



## **Energy Management/ Controlling**

Analyse the building for energy savings

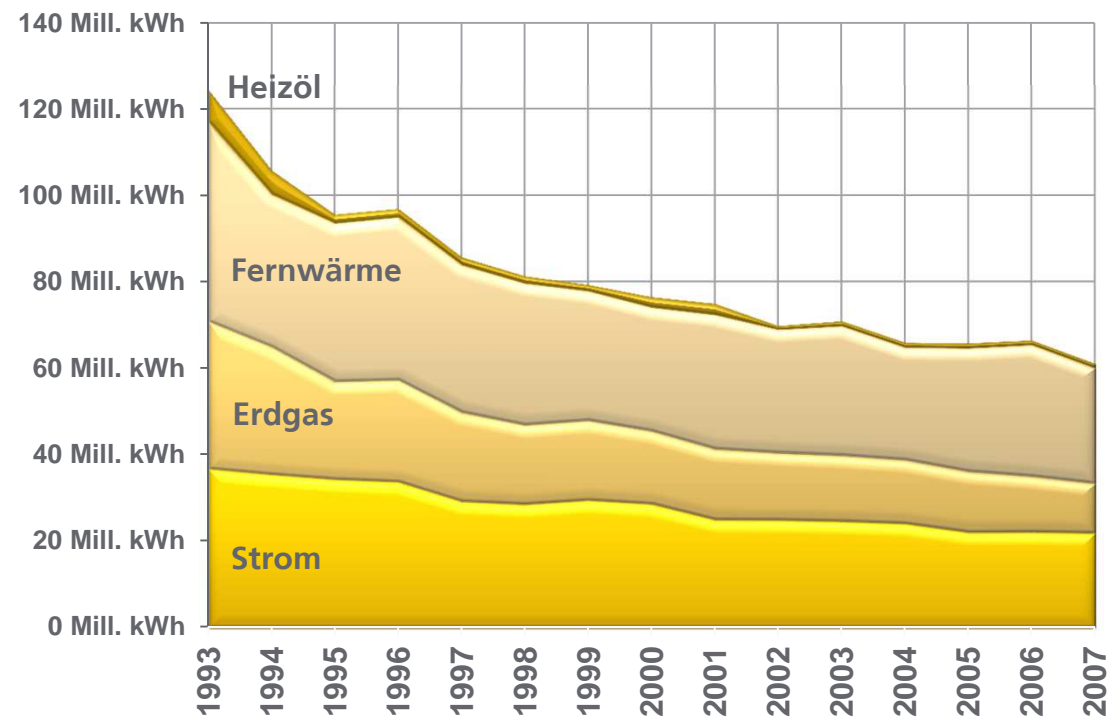
**By Green electricity (100% schools)**

**E-Teams at schools**

**Energy-optimised urban planning**

**Best Practice Projects**

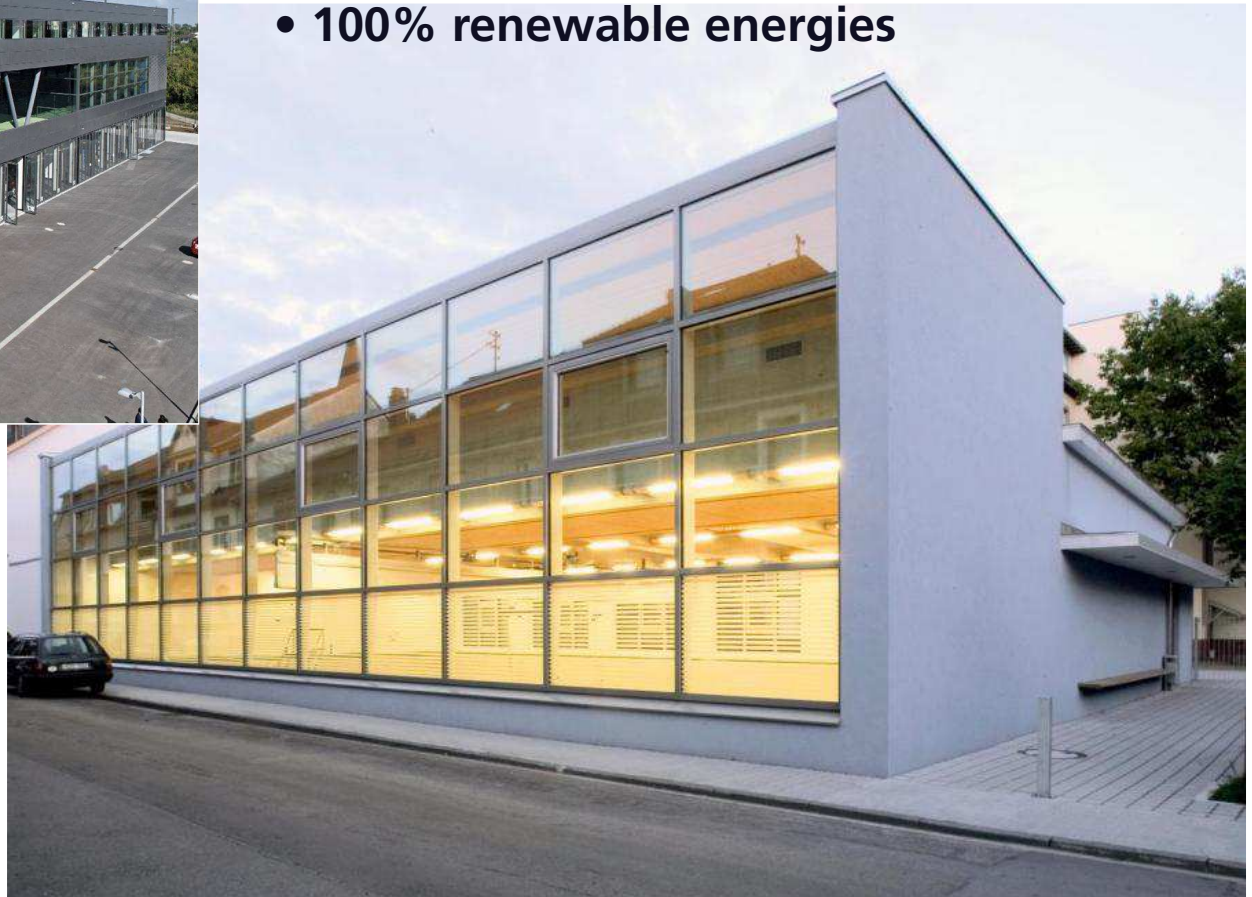
# Energy Consumption City Heidelberg



# Passive-House Standard



- zero CO<sub>2</sub> Emission
- 100% renewable energies



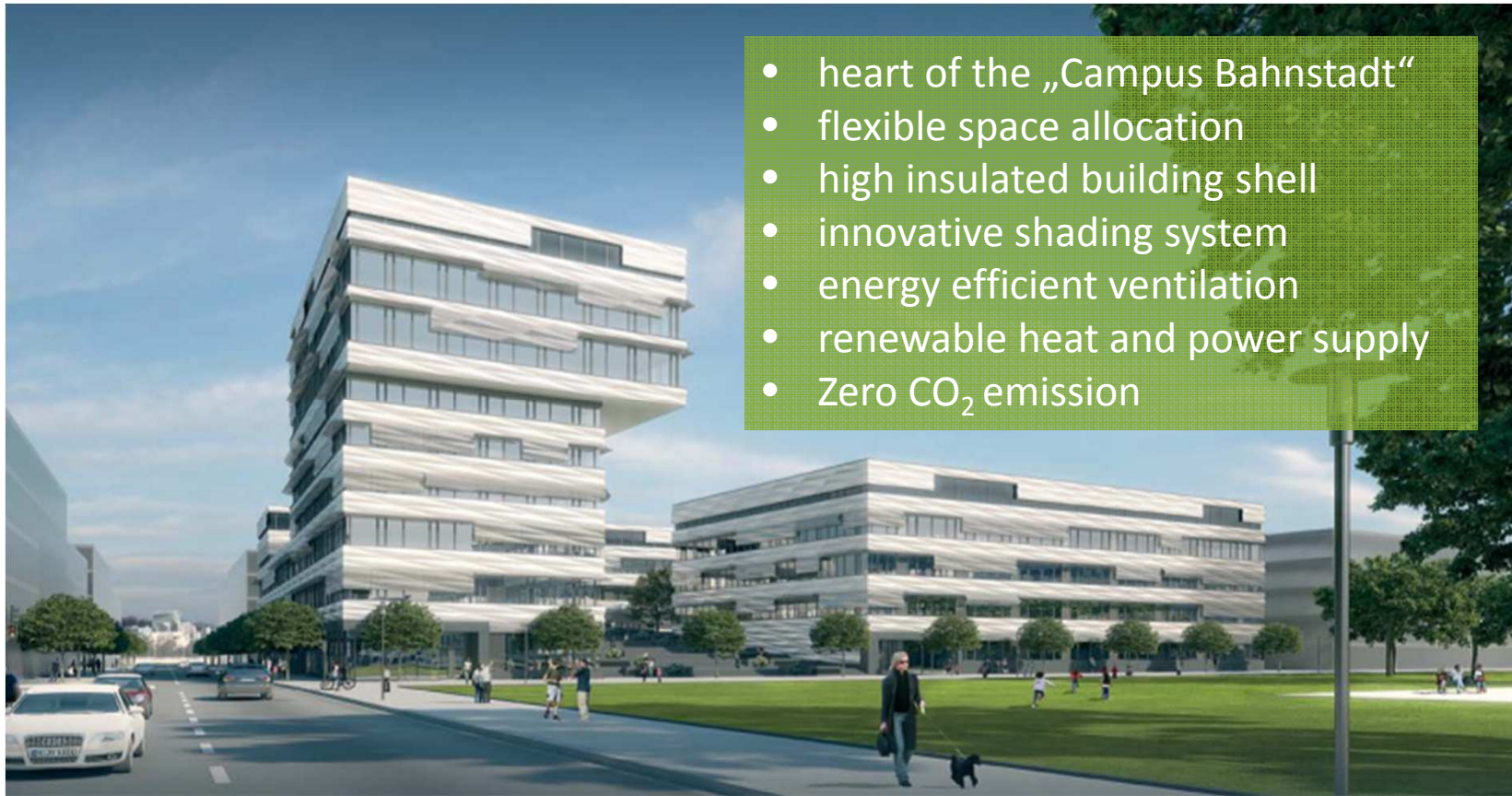


# Bahnstadt: First Passive House District in the EU



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# SKYLABS: A herald from the city of the future





# ENGAGE and Connect People





# Energy Table

## New solutions for retrofitting

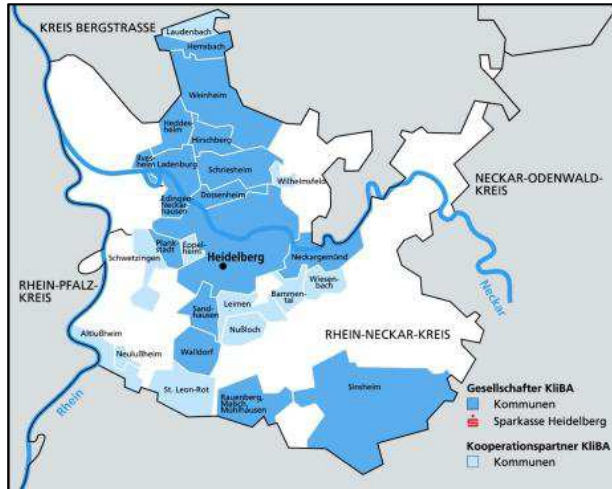
▣ *INPUT: Topic,*  
*coordinationParticipants:*

- ▣ City of Heidelberg
- ▣ BUND, Energiewende e. V.
- ▣ IHK
- ▣ Craft and Trade Chamber
- ▣ Architects
- ▣ Crafts Chamber
- ▣ Building Companies
- ▣ Utility

1 Year



# KliBA: Local consultant for climate protection and energy



- 91% positive / very positive feedback
- 67% of clients have implemented measures
- 22% of clients intend to
- 18.7 Mio.€ in total investments / 20.000 € per customer)

## Heidelberg was a pioneer of the „Covenant of Mayors“

- climate protection concept / energy action plan
- reports in regular intervals



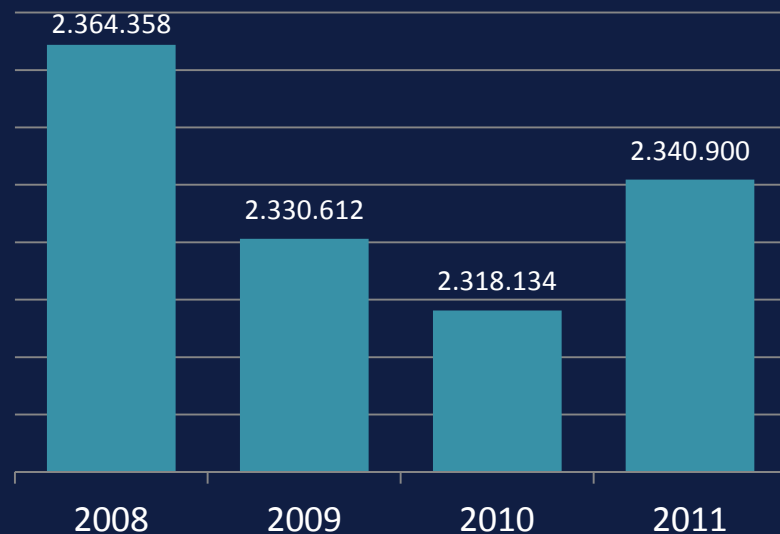
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Covenant  
of Mayors  
Committed to local  
sustainable energy

# Energy efficiency is an important motor for job creation

## Jobs in the Construction Industry



Quelle: Geschäftsbericht der Bundesvereinigung der Bauwirtschaft 2011

- cutting 20% until 2020 (1.5% per year) is a strong incentive for construction sector
- better energy efficiency in buildings (windows, insulation, ceilings, heating systems)
- independence from rising energy prices
- job creation among local craftsmen / middle class



saved / created up to 300,000 jobs per year



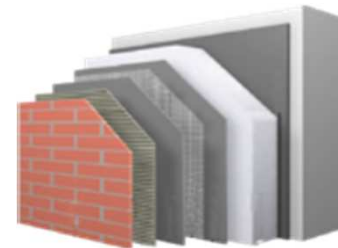
# Biggest incentives for efficient energy use in Germany

- Thermal insulation ...
- Triple glazing insulation for glass units ...
- Ventilation with heat recovery ...
- Blower-Door-Test ...
- Passive-House standard



**~1.3Mio. € in local subsidies per year**

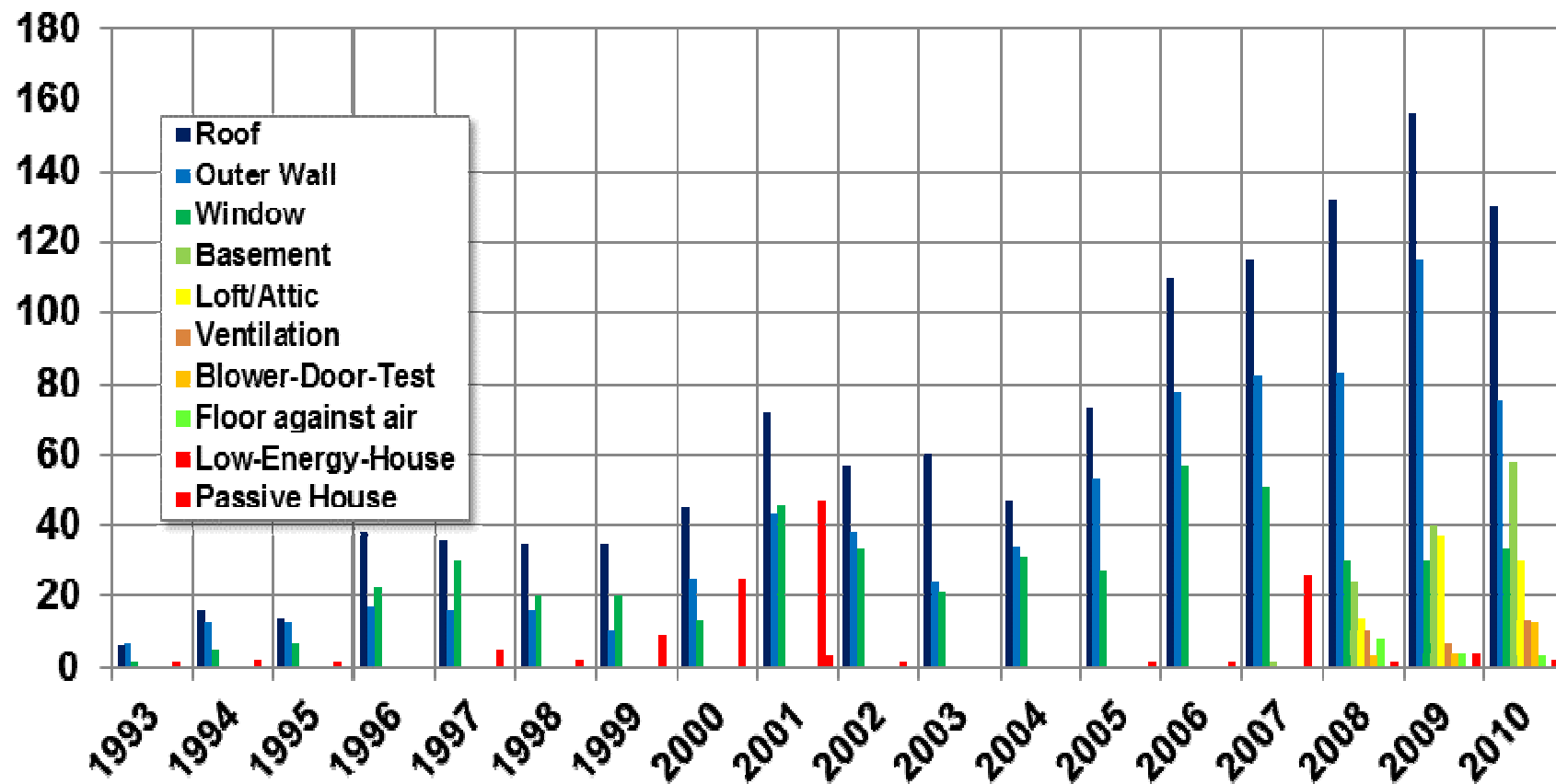
- up to 5,000 € for single-family homes
- up to 50 €/m<sup>2</sup> for multi-family homes



Thermal insulation



# „Rational Energy Users“



More than 3,000 applications led to more than **€80 Mio.** investments



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# The Steep Road to Success





# Building a Culture of Civic Participation



## „Heidelberg Guidelines for Civic Participation“ (March 2012)

- „trialog“ between citizens, politicians and public administrators
- citizens become a part of planning, decision-making and implementation
- broad-based legitimacy attracts investors