



LCS-R Net, 2nd Annual Meeting Berlin

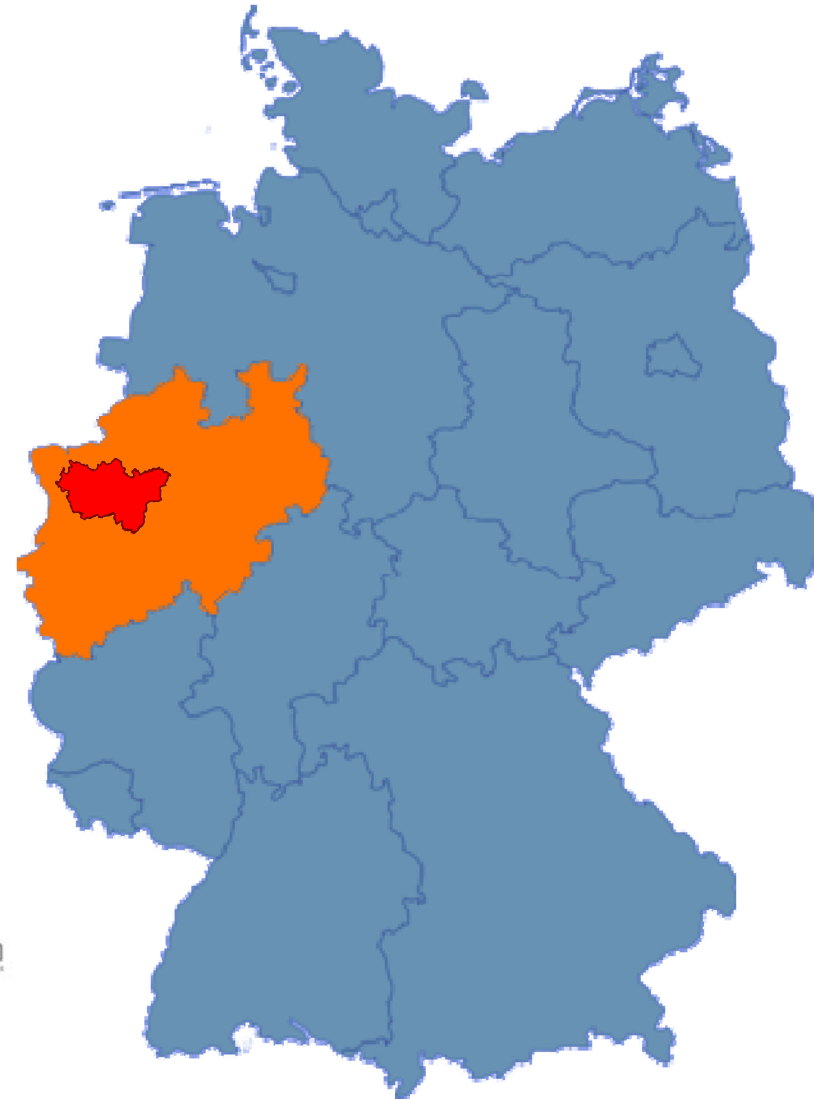
20.-21. September 2010

Dr. Anette Bickmeyer

Facts and figures

The Ruhr Area: Industrial heartland in the state of North-Rhine Westphalia, Germany

- Metropolitan region (53 cities and municipalities)
- Population: 5.3 million
- Industrial heartland of Germany: coal mining and steel production
- Since the late 1980s: structural transformation of the region
- European cultural capital 2010: 



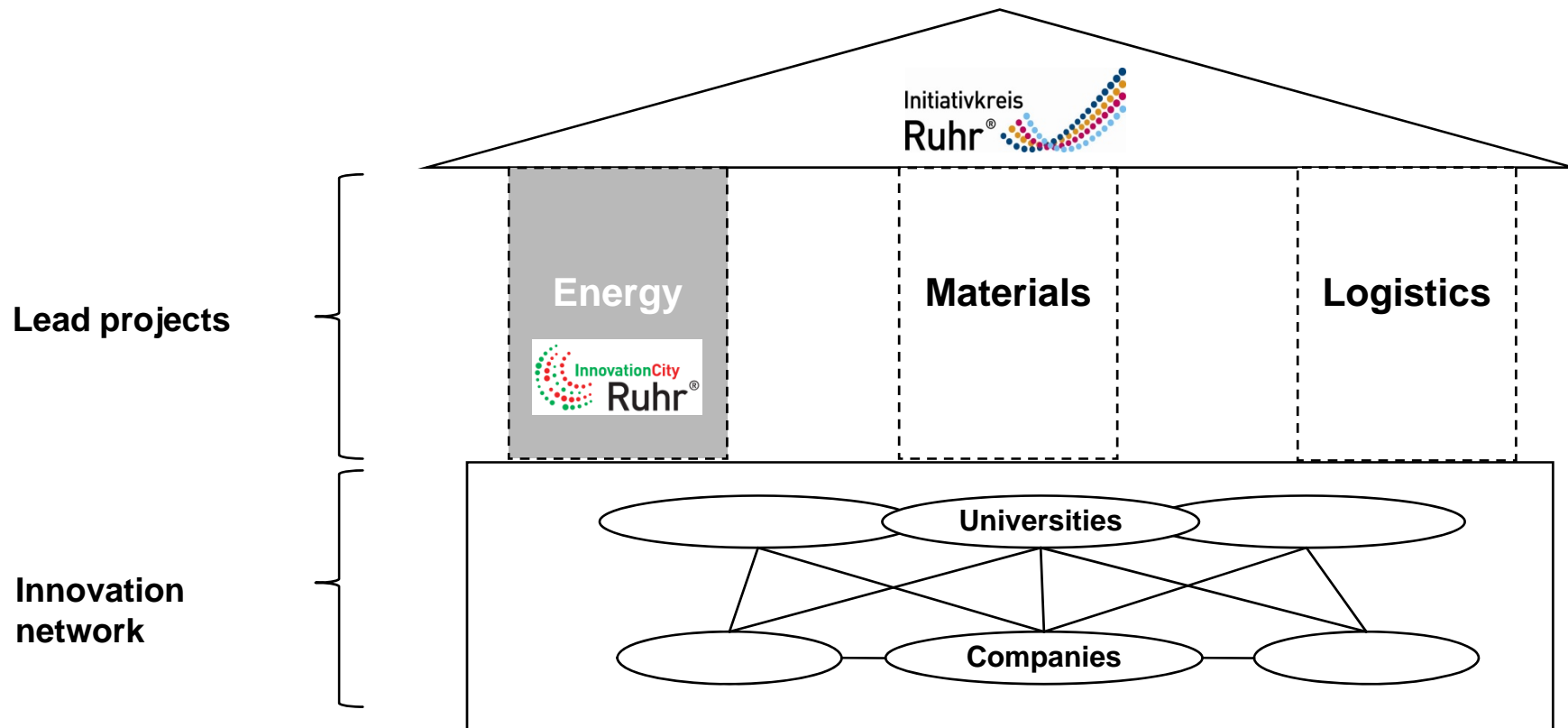
Initiativkreis Ruhr:

- Founded in 1989
- Association of 61, mostly German based, multinational companies
- Objective: the future and economic transformation of the metropolitan Ruhr area



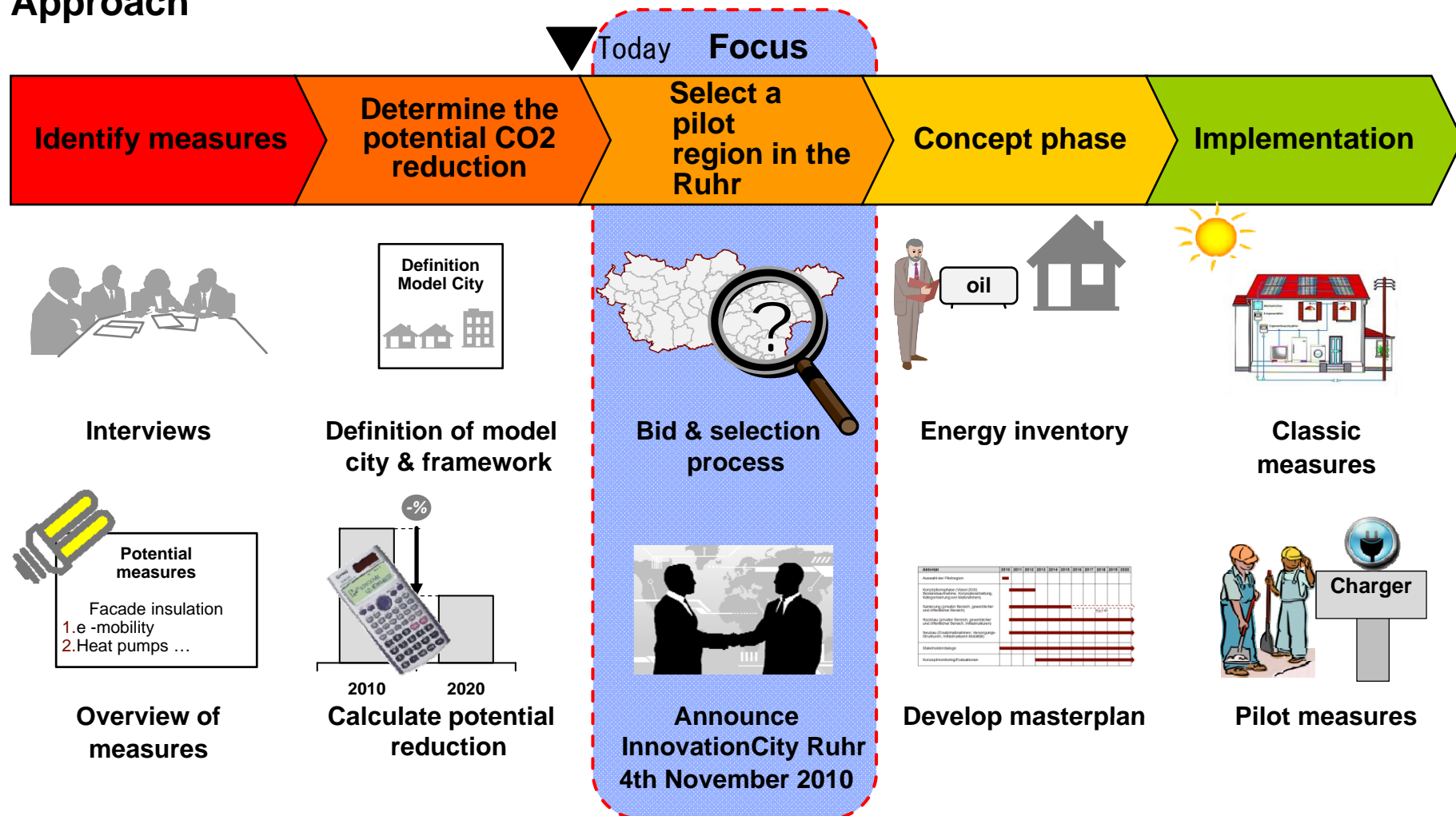
Fields of structural transformation: energy, materials, logistics

InnovationCity Ruhr addresses a low-carbon society



InnovationCity Ruhr: Companies bundle their innovative power

Approach



The comprehensive approach includes both classic and highly innovative measures

Areas for action



Energy efficiency

Reduction in energy consumption through improving existing technologies / infrastructure



Energy generation

Use of alternative technologies (focus on distributed solutions) to generate electricity and heat (space + process heat)

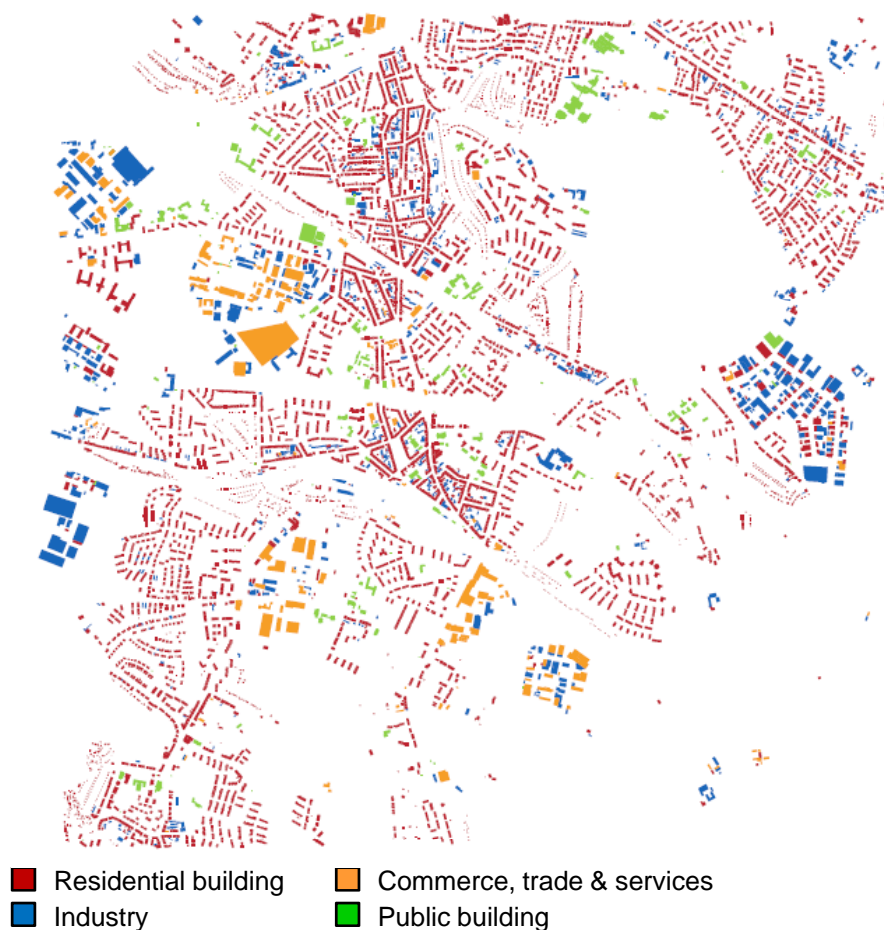


Mobility

Offer improved and novel mobility concepts without limiting personal mobility freedom

A model city typical of the Ruhr region was defined to calculate the potential CO₂ reduction. Result: -50%

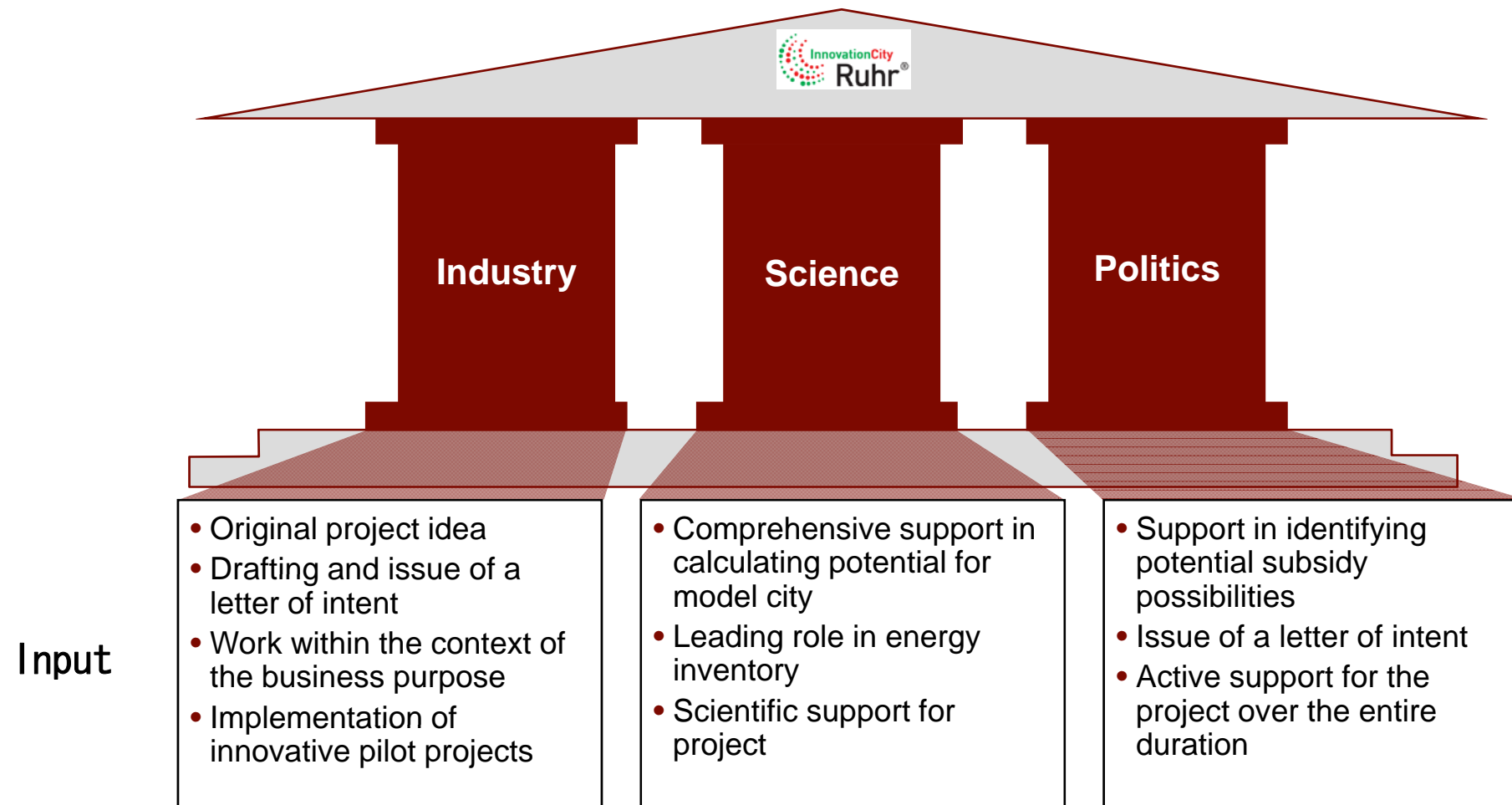
Definition of model city



- Ruhr-typical model city with total population of approx. 50,000
- Residential buildings have a share of approx. 63% in total stock of building surface area
 - Distinction between three different types of building: Single-family houses (40.2%), Two-family houses (14.4%) and Multi-family houses (45.4%)
 - Further breakdown into seven building age classes
- Non-residential buildings (approx. 37% share in total stock of building surface area) are looked at separately by type of use because energy needs vary strongly

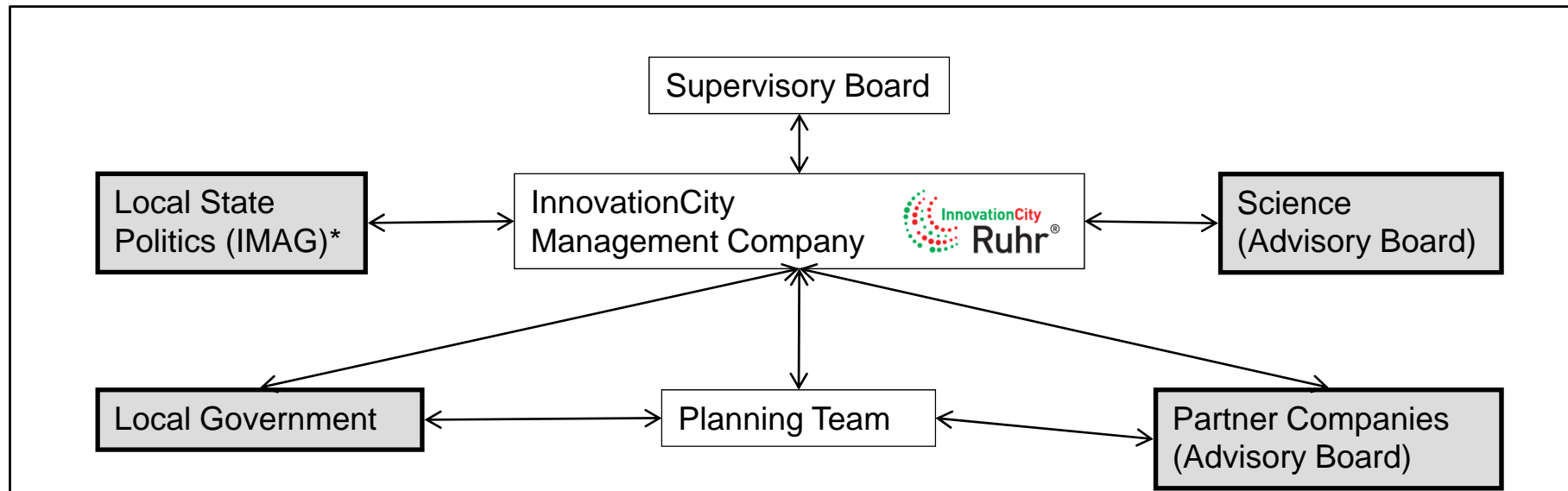
Practical implementation is a joint project of industry, science and politics: “PPP”

Participants



Initiativkreis Ruhr and the State of North Rhine-Westphalia create InnovationCity Ruhr management company

The stakeholders:



* IMAG = Interministerial Working Group

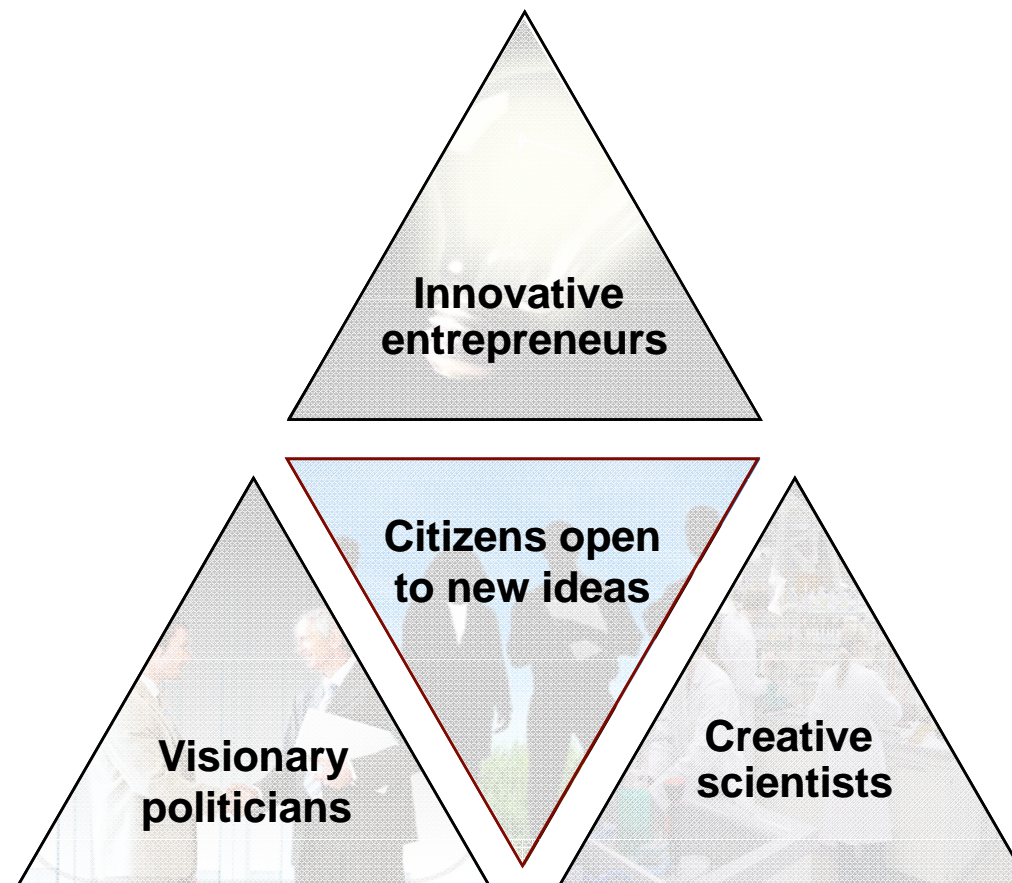
Scientific support: analysis and evaluation of the entire process

Overview of topics

	Socio-cultural dimension	Physical/spatial dimension	Technical dimension	Economic business models	Systemic dimension
Living	Institute of Advanced Study in the Humanities	Urban planning institutes of the universities of Dortmund and Duisburg-Essen	Wuppertal Institute, InHaus Zentrum, FH Hamm-Lippstadt, University of Bochum	Rhine-Westphalia Institute for Economic Research	Wuppertal Institute, universities of Dortmund and Duisburg-Essen
Mobility	↓	↓	University of Bochum, University of Duisburg-Essen	↓	↓
Climate adaptation	↓	↓			
Communication	↓				

All sides involved have to act in concert for the project to be successful

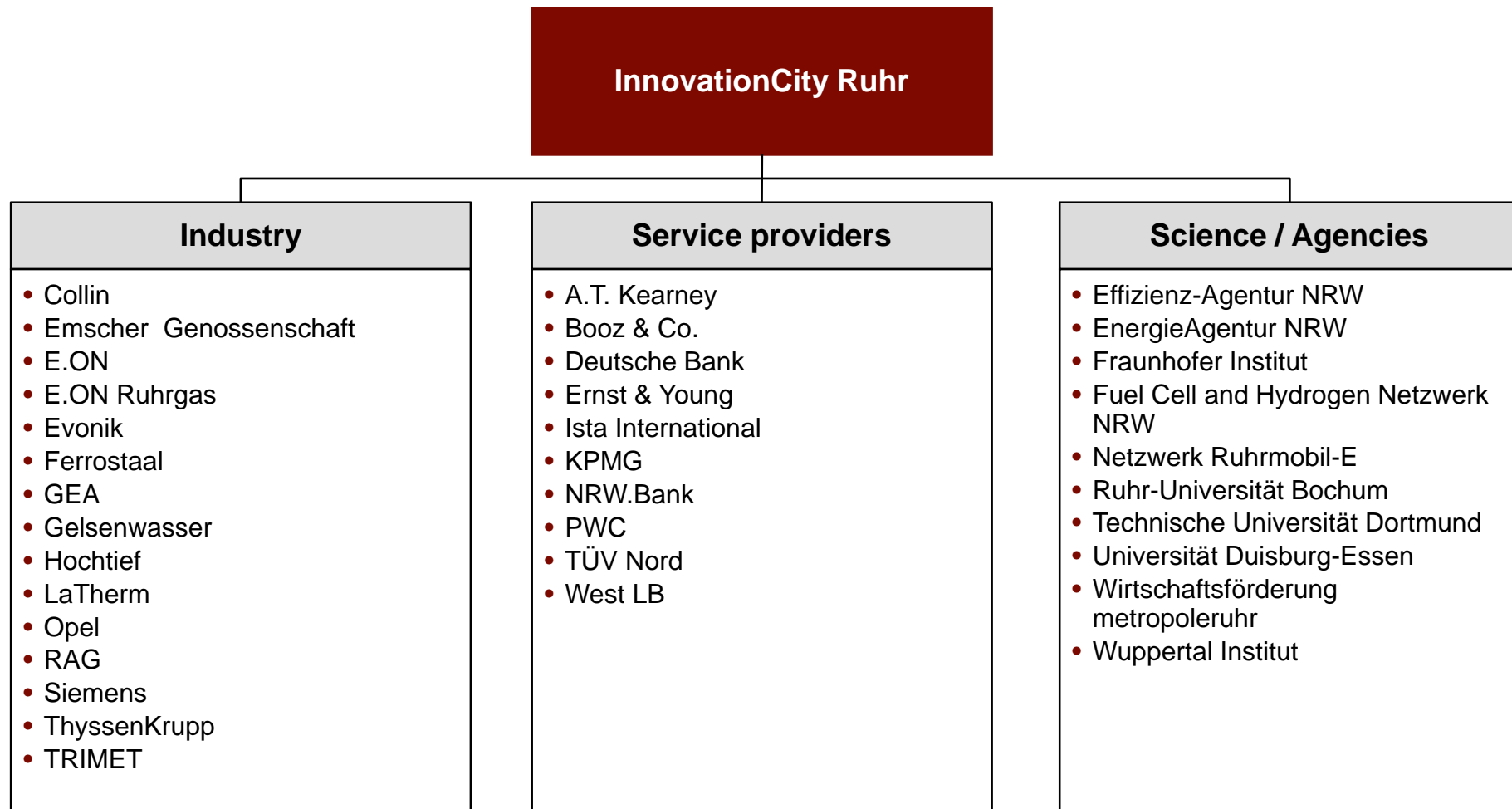
Success factors



Backup

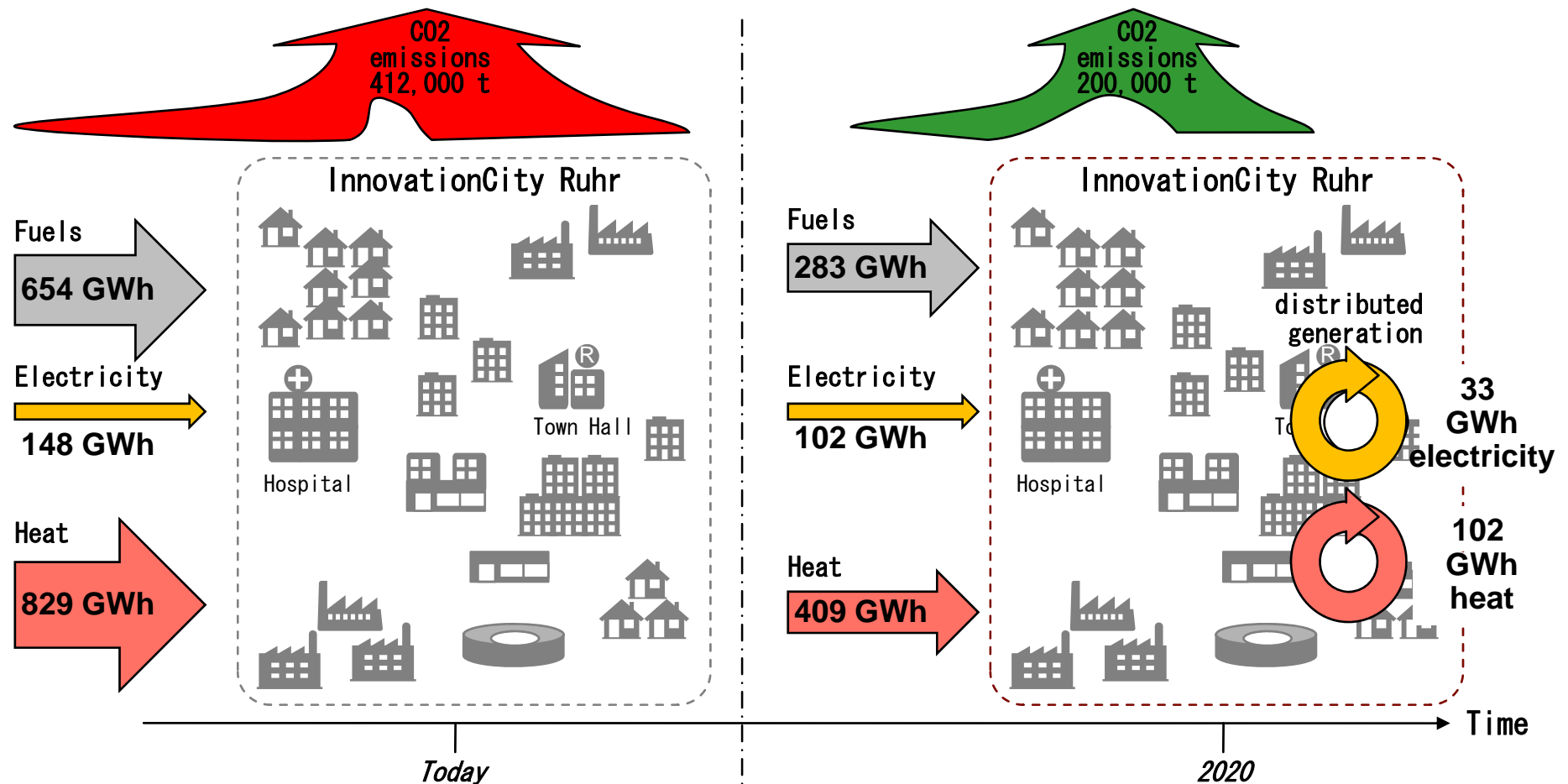
Many different companies participate in the “InnovationCity Ruhr” project

Participating companies



In total, significant energy savings might be realised

Change in energy need



Source: ILS; TRC; Initiativkreis Ruhr; A.T. Kearney