

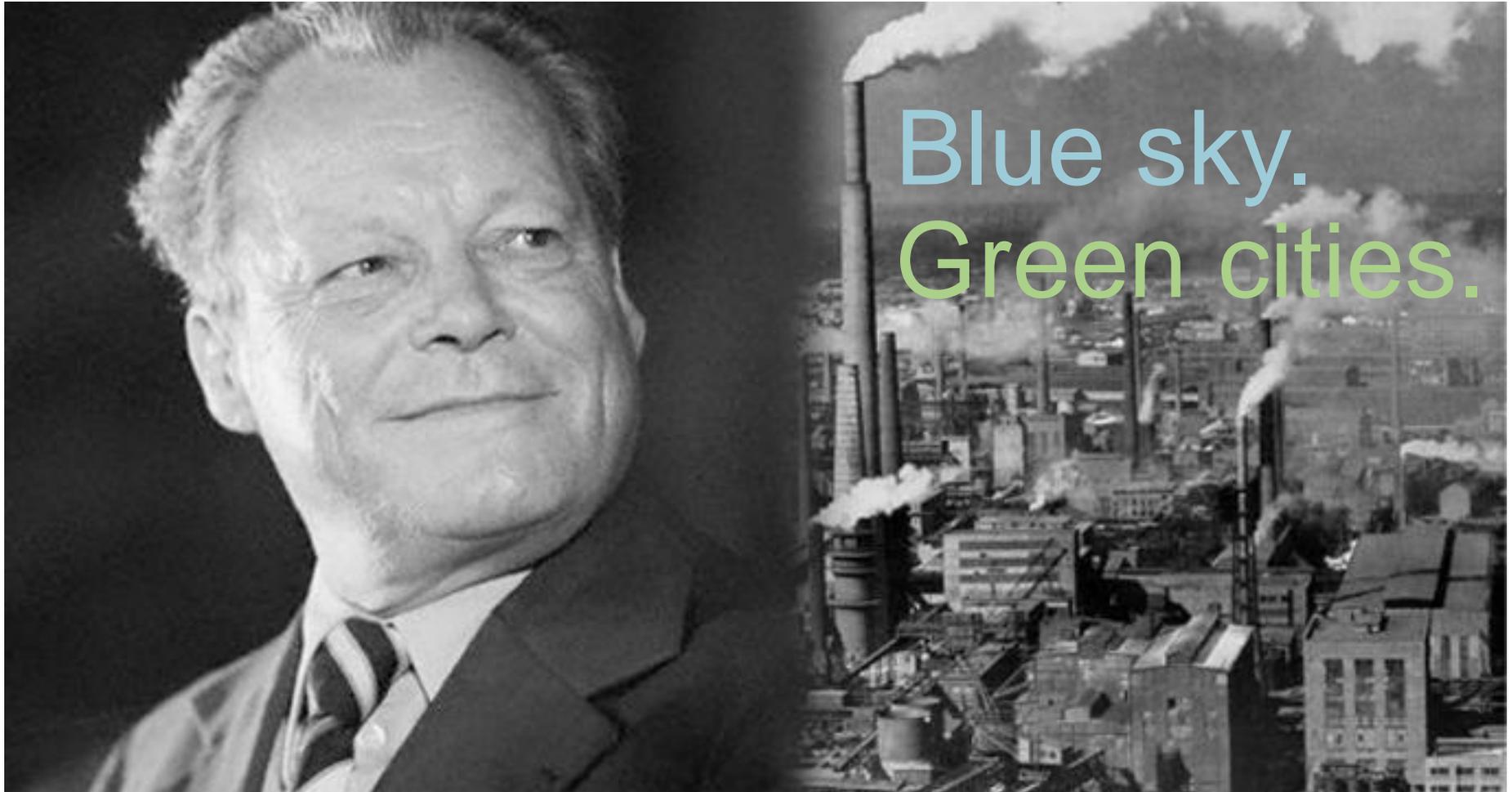


Urban Mobility for Tomorrow

InnovationCity Ruhr

Hendrik Ammoser, TÜV Rheinland

Our Vision



Our Mission

Blue sky.
Green cities.



Modellstadt Bottrop



Many Different Partners – One common Idea

(extract, 08/2011)

Wirtschaft

A.T. Kearney
BASF
Bayer Material Science
Bosch
BP
Brabus
Buderus
Caparol
Deutsche Annington
Deutsche Rockwool
ELE
E.ON
E.ON Ruhrgas
Emschergenossenschaft/
Lippeverband
Evonik
Ferrostaal
Gelsenwasser
Hellweg
Hochtief
IBM
Ista International
Junkers
LaTherm
Lichtblick
NRW.Bank

Opel
PWC
RAG
Rhein Ruhr Collin
RWE
Saint Gobain Weber
Siemens
Steag Fernwärme
THS/Evonik Wohnen
ThyssenKrupp
TRIMET
TÜV Nord
TÜV Rheinland
Vaillant
Viessmann
...



Wissenschaft

Wuppertal Institut für Klima,
Umwelt und Energie

Ruhr-Universität Bochum

Universität Duisburg-Essen

Technische Universität
Dortmund

Hochschule Bochum

Hochschule Hamm-Lippstadt

Kulturwissenschaftliches
Institut Essen

Institut für Kraftfahrzeuge
Aachen

Folkwang Universität der Künste

Hochschule Ruhr West

Gas-Wärme Institut Essen

...



Politik

Interministerielle
Arbeitsgruppen (IMAG):

Federführung Staatskanzlei NRW

Ministerium für Innovation,
Wissenschaft und Forschung
(MIWF)

Ministerium für Wirtschaft,
Energie, Bauen, Wohnen und
Verkehr (MWEBWV)

Ministerium für Klimaschutz,
Umwelt, Landwirtschaft,
Natur- und Verbraucherschutz
(MKULNV)

Öffentliche Institutionen:
EffizienzAgentur NRW
EnergieAgentur NRW

Wirtschaftsförderung
Metropoleruhr

...



InnovationCity Ruhr - Unique around the World

InnovationCity Bottrop

No. of inhabitants: 69,000
Estimated total investment: EUR1.5 to EUR2.5 BN

Energy efficient urban redevelopment
of existing buildings

- Bottrop
- Ruhr area

Masdar City

Abu Dhabi, UAE

No. of inhabitants:
47,500

Investment volume:
US\$22 BN

New
buildings

Dongtan

Shanghai, China

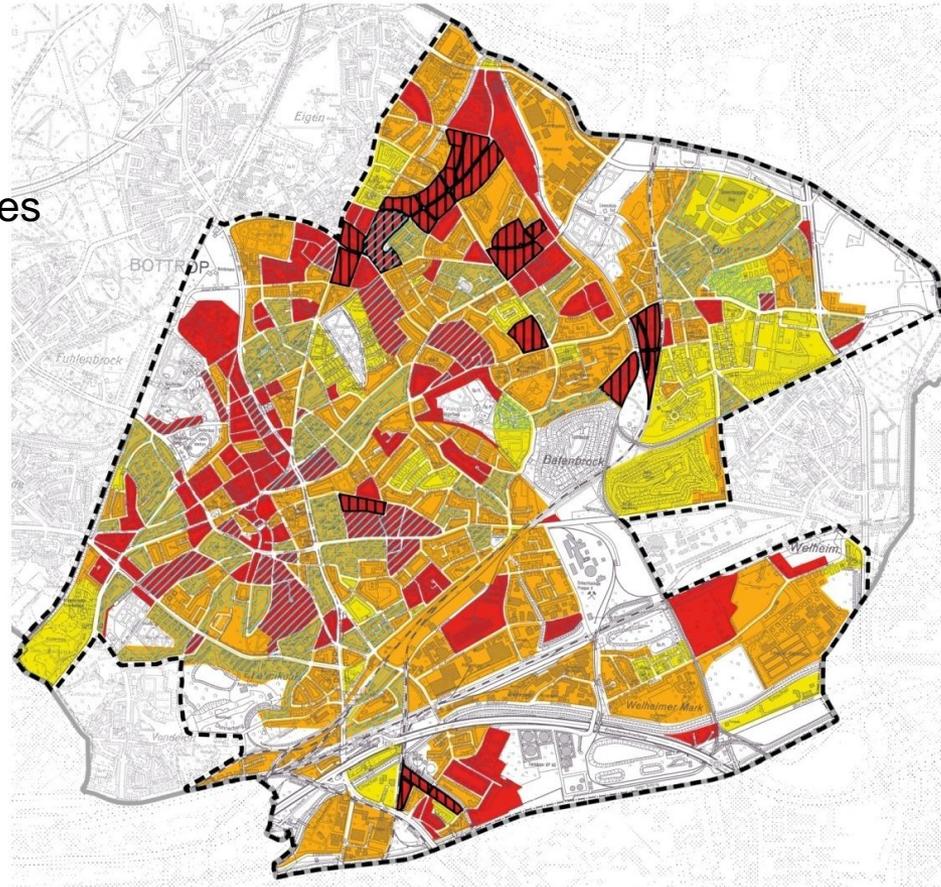
No. of inhabitants:
2010 > 30,000
2050 > 500,000

Investment volume:
US\$1 BN

New
buildings

Pilot area in Bottrop

- 69.000 Inhabitants
- 22.000 Employment sites
- 8,2 % Unemployed
- Area of 2.464 ha
- 14.474 Buildings



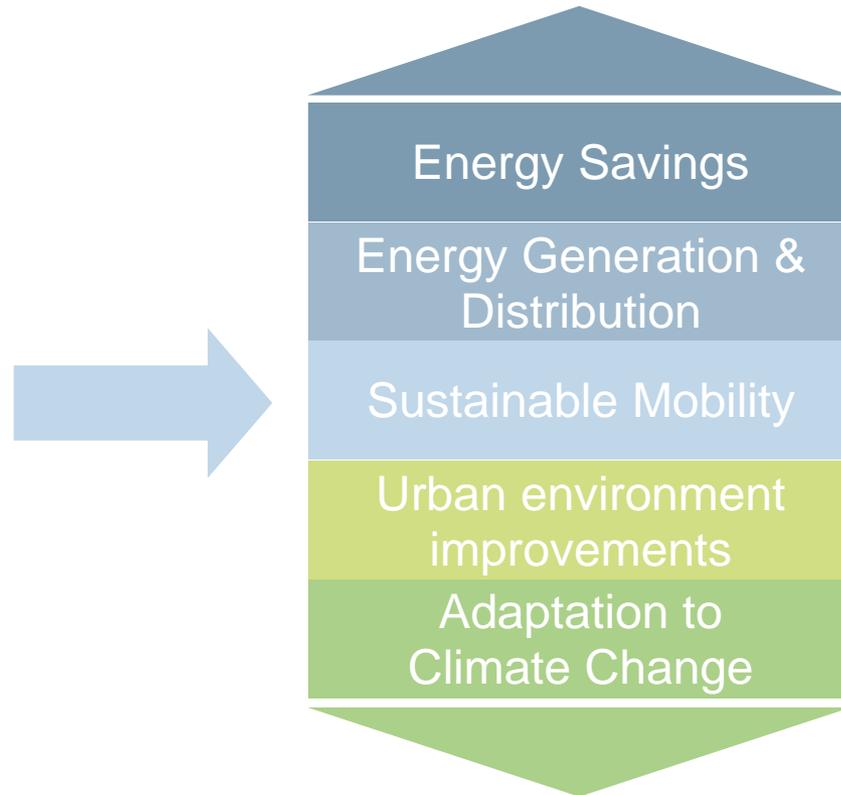
Goals: Model Calculation indicates CO₂ Savings of 50%

- Pilot project
- Typical district of Ruhr area
- 50 – 70 thousand inhabitants



Goals: Targets and Fields of Action

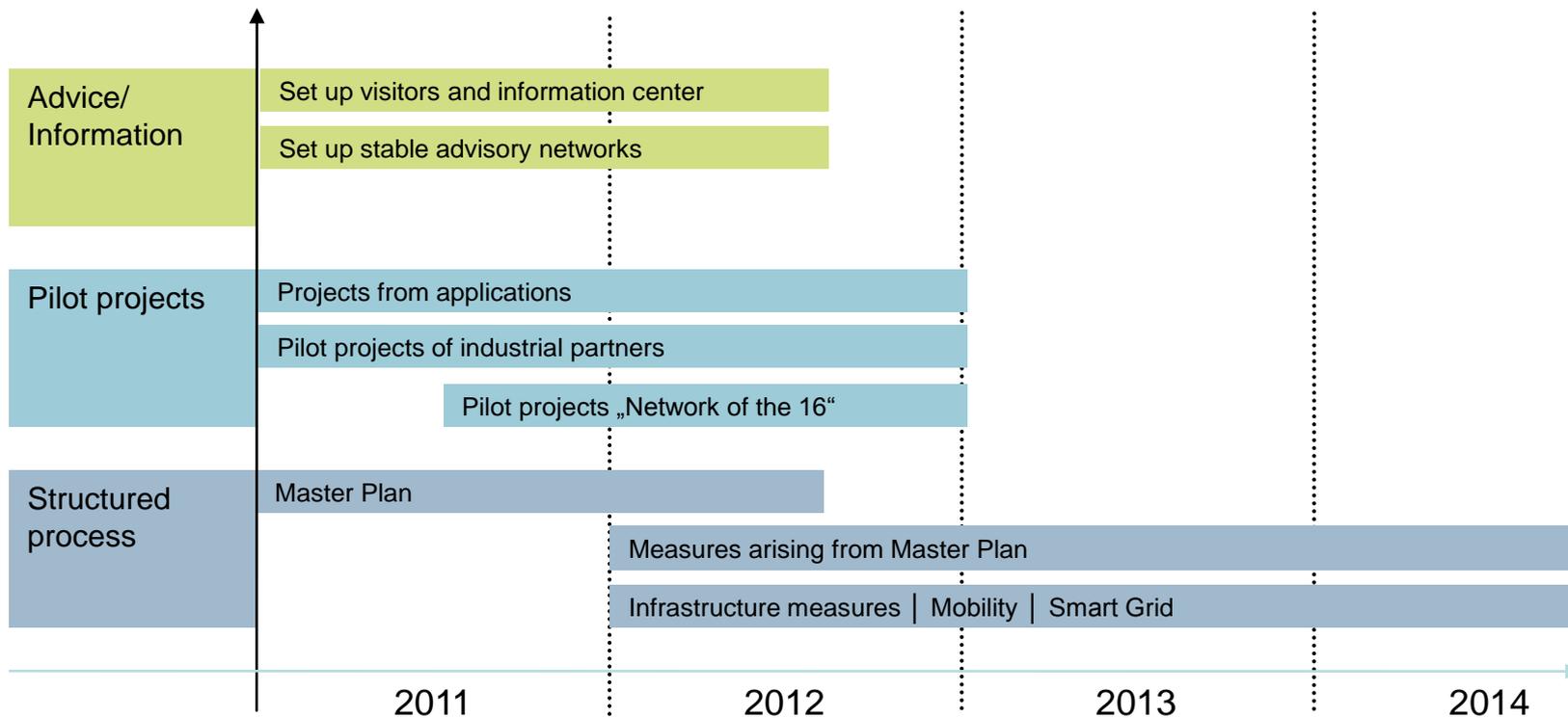
Measureable: CO₂ reduction



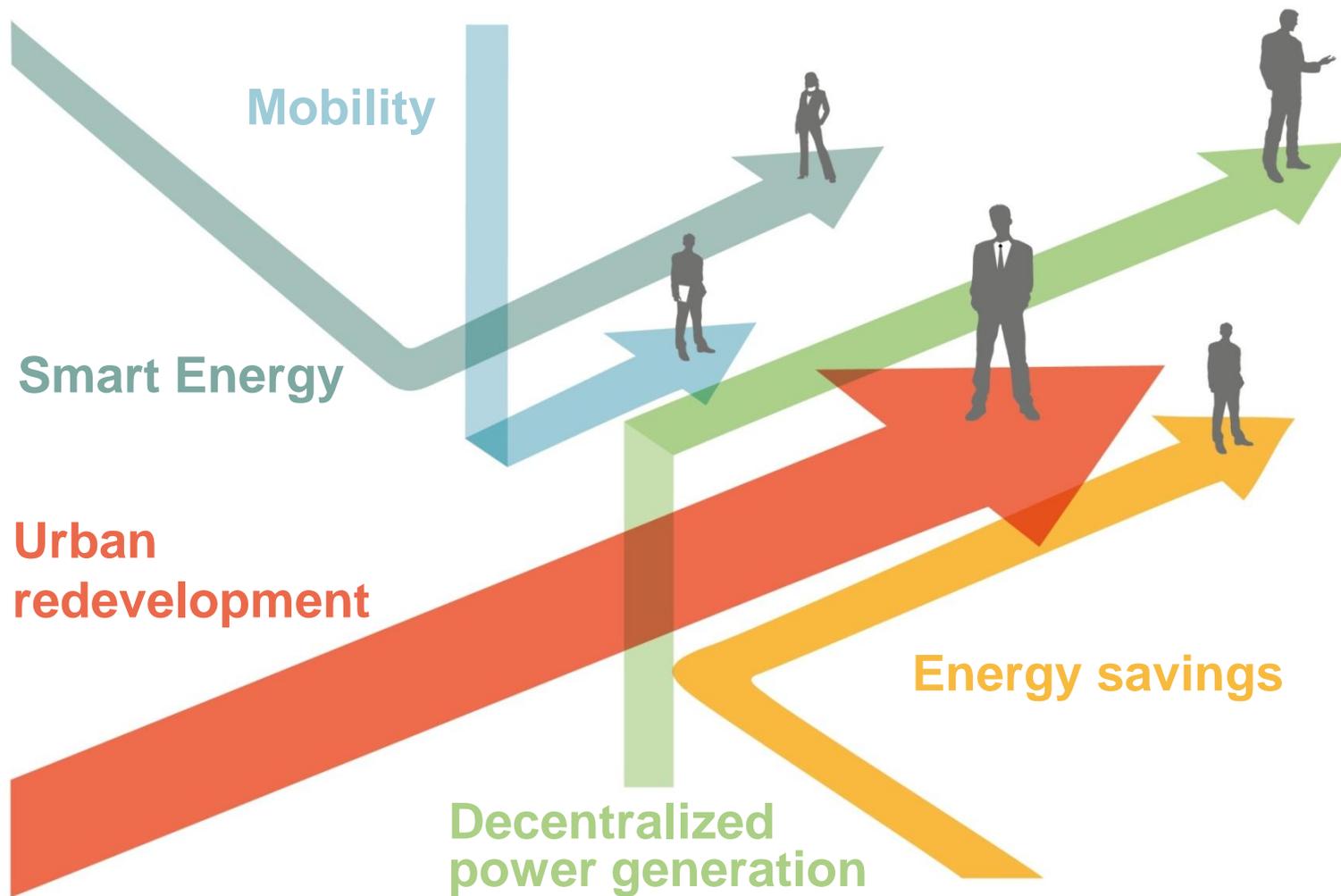
Noticeable: Quality of life

The Three Major First Steps

- The advisory and information center with integrated showroom for companies is in service
- The pilot projects are identified and are currently being launched
- A call for tenders is currently in preparation to develop the Master Plan.



Multidimensional Master Plan – Central Theme up to 2020



A vision of the future of mobility



- Contribution to decrease CO₂ emission
- Life quality: sustainable mobility for all
- Competent users
- Citizens as co-designers and co-decision makers
- Sustainable infrastructure management
- Improvements with the „classics“ like avoiding traffic, shifting traffic etc.

Master Plan – a lot of instruments have to be selected...



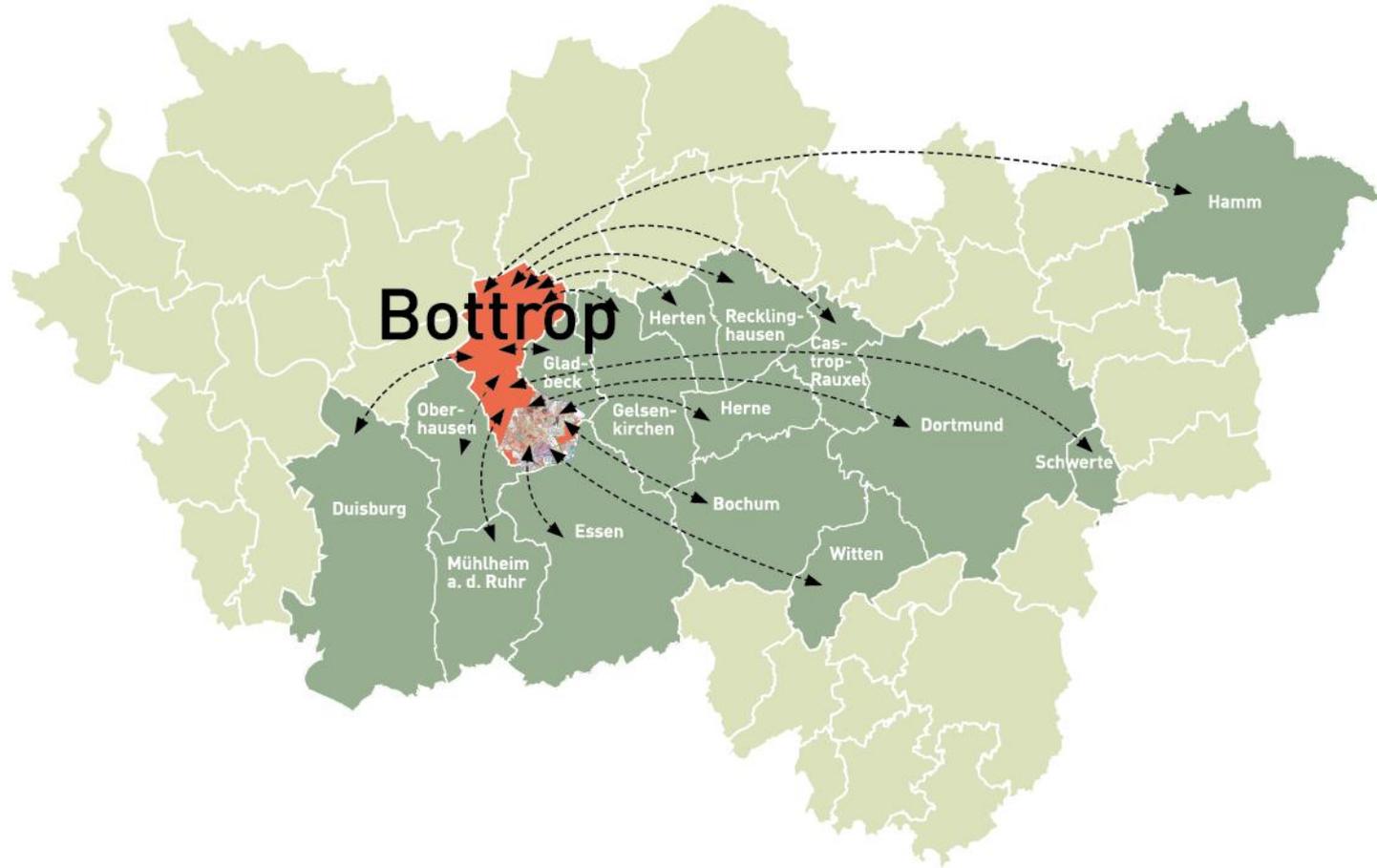
- Nearby-Mobility / „City of short distances“
- Interactive traffic planning
- Mobility Management, advisory and service
- Alternatives to traditional mobility financing
- Adaptation of the infrastructure to new ways of mobility culture, e. g. pedelecs, shared space
- Attractive cooperative / public /semi-public mobility (public transport, car sharing, travel communities)
- Innovative drive technologies – e-mobility
- Intelligent interconnected transport systems
- Freight & business traffic – City Logistik 2.0
- Re-use of road space that is not needed anymore

Extract of Projects Launched

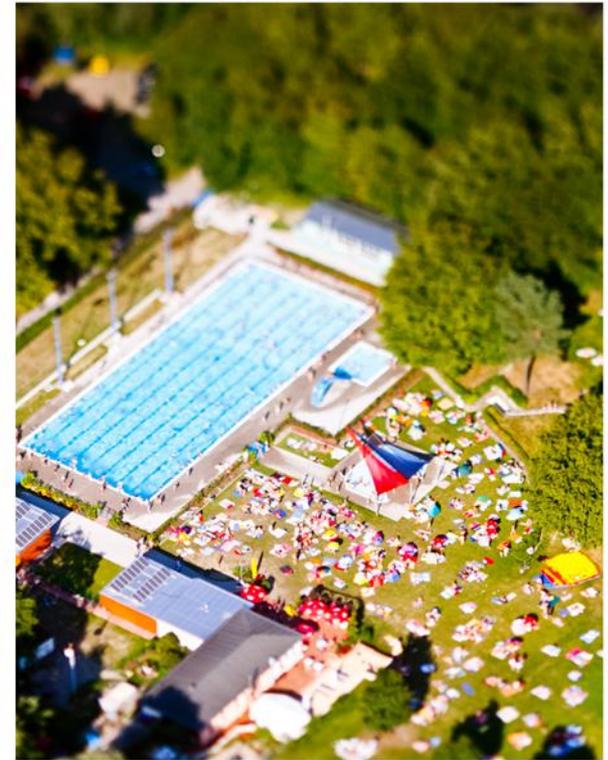


1. Integrierte Stadtentwicklung
Welheimer Markt
Areas of activity:
Urban Development, Residential,
Mobility and Energy
2. Wohnen am Ehrenpark
Areas of activity:
Residential and Energy
3. Zero Emission Campus
Hochschule Ruhr-West
Areas of activity:
Non-Residential and Energy
4. Turnhalle im
Passivhaus-Standard
Area of activity:
Non-Residential
5. Zero Emission Park
Areas of activity:
Non-Residential, Mobility and
Energy and Urban Development
6. Mobility e.g. Hydrogen powered
bus
Area of activity:
Mobility

Mobility improvements? Regional Team Work!



Come to Bottrop— You won't want to leave.





Welcome to TÜV Rheinland.

In Motion for Mobility. In Motion for You.

Your contact is

Mr. Hendrik Ammoser

Expert and Consultant on
ITS and Intelligent Mobility

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