



Selected actions on Climate change themes in Hagen

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City of Hagen
Environment Department

Localisation SDGs
and
Implementing the New Urban Agenda
Experiences from the
City of Hagen























Agenda

- City of Hagen
- the Council of the City of Hagen enacted the Sustainable Development Goals for the 2030 Agenda - Hagen is a signing municipality
- climate and energy policy goals of the City
- certain fields of 'Sustainability' in the whole City of Hagen and the connection to SDGs
 - 1. Sustainable urban development (Integrated Urban Development Concept (ISEK), integrated district development concept (INSE) 2017, "Social city" Hagen Wehringhausen, concept of action for housing Hagen)
 - Climate protection management (Integrated Climate Protection Concept (IKSK), energy district development, renewable energy, EU-LEAP project)
 - 3. Participation in European Energy Award®; (Quality energy management and certification process)
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 - 11. Applying for **UNESCO World Heritage site** (GeoPark Ruhr area, Vorhalle Quarry Hagen-Vorhalle, Geo-Path Kaisberg)
 - 12. Hagen applies for model municipality "Global Sustainable Municipality North Rhine-Westphalia" with the LAG21e.V. to implement SDGs in the city and its administration processes.
- Key action fields



































Main goals for German cities and communities

1: No Poverty Goal

4: Quality education

Goal 8: Decent work and economic growth





Goal 11: Sustainable cities and communities

Goal 12: Responsible Consumption and **Production**

Goal 13: Climate Actions

Goal 17: Partnerships for the Goals















Focussing the goals from the view of a municipality

" In the municipality for the municipality	_z ((1 ARMUT	2 KEIN HUNGER
" In the manicipanty for the manicipanty		3 GESUNDHEIT UND WOHLERGEHEN	4 HOCHWERTIGE
SDG 1 – no poverty	decreasing risk of poverty	S GESCHLECHTER-	6 SAUBERES WASSER UND SANTTÄR-EINRICHTUNGEN
SDG 11 - sustainable urban development	sustainable mobility	7 BEZAHIBARE UND SAUBERE ENERGE	8 MENSCHEHWÜRDIGE
SDG 6 – work, growth	resilient economic structure	SAUSERE ENERGIE	ARBEIT UND WIRTSCHAFTS- WACHSTUM
" In the municipality for the world"		9 INDUSTRIE INNOVATION UND INFRASTRUKTUR	10 WENGER UNGLEICHHEITEN
SDG 1 - no poverty / SDG 12 consumption	Fairtrade	11 NACHHALTIGE STÄDITE UND GEMEINDEN	12 NACHHALTISE/R KONSUMUND PRODUKTION
SDG 13 - climate adaptation	climate stress and effects	13 MASSINAHMEN ZUM KLIMASCHUTZ	14 LEBENUNTER WASSER
" In other countries and by other countries"		15 LEBEN ANLAND	16 FRIEDEN. GERECHTIGKEIT UND STARKE INSTITUTIONEN
SDG 17 - global partnership	municipal partnerships	17 PARTNER- SCHAFTEN ZUR ERREICHUNG DER ZIELE	ZIELE FÜR O NACHHALTIGE ENTWICKLUNG
	Picture Copyright: LAG21 Dortmund		

Picture Copyright: LAG21 Dortmund





City of Hagen

- Located in the state North-Rhine Westphalia (State)
- 194,776 inhabitants (2016)
- est. 163,000 (2030)
- founded in 1746
- 160 sq km
- 86 m 438 m sea level
- on the basic of 4 rivers
- since 15th century important location of steal and metal industry (industrial changes since 1970)
- 1974 founding of the "Fernuniversität University for distance learning" in Hagen (currently ca. 75,000 students and 1,825 staff)
- "Gate of the Sauerland" hill region East-Southern part of North-Rhine Westphalia

Picture: Environment Dep. City of Hagen

- students from: Malaysia:
- Singapore: 10
- Indonesia:
- Thailand:







City of Hagen







































Pictures: City of Hagen





Sustainable energy and climate protection policy

climate protection concept

building refurbishment

solar collectors

training for facility managers

building management

CHP plants

land-use planning

public traffic



district heating nets

Plus/Zero energy standard

wind power

contracting contracts

energy mix

heat pump

bikeway network

eco profit

smart metering





















E-mobility

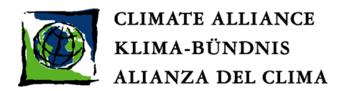




Main climate protection goals of the City of Hagen

Tangible targets of Climate Alliance

City of Hagen is member since 1991 with following voluntary commitments:



- to reduce CO₂ emissions by 10 percent every 5 years, equivalent to the halving of per capita emissions by 2030 (from baseline1990)
- to strive for a per capita emissions level of 2.5 tons CO₂ equivalent through energy conservation, energy efficiency and RES
- to work towards climate justice in partnership with indigenous peoples by supporting their initiatives, raising awareness, and abstaining from the use of unsustainably managed tropical timber
- For more than 25 years, Climate Alliance memberomenticipalities have been lacting in partnership with indigenous rainforest peoples for the benefit of the global climate. With over 1,700 members spread across 27 European countries, Climate Alliance is the world's largest city network dedicated to climate action and the only one to set tangible targets. Recognizing the impact our lifestyles can have on the world's most vulnerable people and places, Climate Alliance pairs local action with global responsibility.





















Picture: Climate Alliance, Frankfurt/M.

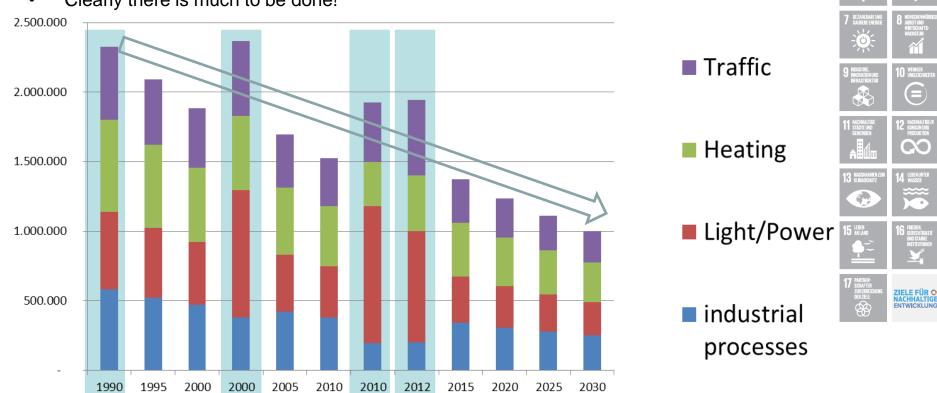




Comparison of measured status

and goals towards Climate Alliance commitments

- continuous reduction of GHG emissions by 10 percent every 5 years
- halving of per capita emissions by 2030 from 1990 level
- long term goal of levelling off at 2.5 tons CO₂ per person and year.
- European Environment Agency estimates that the average European emitted about 9 tons
- Clearly there is much to be done!







1. Integrated Urban Development Concept (ISEK)

Fields of 'Sustainability' in the whole City of Hagen and the connection to SDGs

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1. Integrated Urban Development Concept (ISEK)



challenges & frameworks

- social and demographic change
- structural change
- economic globalisation
- sustainability
- climate change
- new conditions and a new understanding of the place to live and work
- we need a common goal and a common path!



characteristics:

- citywide and integrative
- cross stakeholder cooperation
- implementation oriented
- no legal basis





























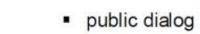


the process



1. Integrated Urban Development Concept (ISEK)





- expert discussion
- target group workshop
- online platform
-

Vision!!!





Hagen tomorrow

ine Postkarte für Hagens Zukunft



































Hagen today 2017

2035 important part of the process is the (public) dialog

status

debate

strategies & guidelines

model projects





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Climate protection goals of the City of Hagen

Council Decisions (extract)

- > "Energiewende" energy transition in Hagen (2011)
- > continuation of European Energy Award/eea® by 2020 (Energy Team)
- > implementation of an energy political action programme
- > joining the Covenant of Mayors (2012) (Bürgermeisterkonvent)
 - (- 20 % increasing of energy efficiency
 - 20 % increasing of the rate of RE and
 - 20 % decreasing of CO₂ emissions)

Integrated climate protection concept - IKSK (2013)

- > placement of a climate protection manager in 2015 (federal funded)
- > project development from April 2015 on
- > Follow-up proposal for on-going placement of staff after Apr 2018







How to achieve an increase in renewables "Energiewende" - Energy transtion in Hagen: a firework of efforts

Plans, Programme, Measures, Implementations

- energy concepts of supply companies of the 80th
- energy concept Hagen 1992-1995 with detail concepts
- CO₂-reduction concept
- member of Climate alliance since 1991
- forum climate protection since 1998 (Local Agenda 21)
- concession contract with municipal works/ Stadtwerke Hagen AG 1998
- contracting of municipal buildings 1996 (since 2000 Building Department Hagen) .
- cooperation contract with municipal works /Stadtwerke Hagen AG 2000 with energy supplier Mark-E AG since 2002 (commission)
- council decision on concretization of climate protection concept 2007 containing 20 measures
- energy guidelines for municipal buildings * (draft)

- participation in European Energy Award® since 2008/2012/2017
- EU project LEAP initiative for energy actions and planning
- council decision on energy transition
- citizens energy association and solar club
- retrofitting electric power generator of waste incinerating plant Hagen
- solar cadaster
- climate fair program of energy supplier
- participation in Covenant of Mayors 2012
- council decision on climate protection settlement
- Initiative E-Mobility
- plan for wind converters, land-use plan
- 50 municipal climate partnerships since 2012
 - modernization of the public bus fleet clean air plan



































Cooperation Mark-E AG energy supply company / Environment Department Hagen







- use of RES
- implementing a solar cadastre
- financial support of climate protection manager
- Projects on Reducing CO₂
 - assistance on a CO₂-balance
 - Climate Fair Tariffs
- "European Energy Award® " (eea®):
 - active co-operation on energy efficiency measures (wood pellets)
 - financing co-payment to state NRW funding







- E-Mobility:
 - free provision of renting E-bikes and E-Scooters
 - PR and participation for E-Mobility at "Environment Days" each year





Biomass wood chips heating plants for two of the fire brigade equipment and station houses



- New fire brigade houses
- Reduction of about 350 tons of CO₂





Sources: Environment Department City of Hagen























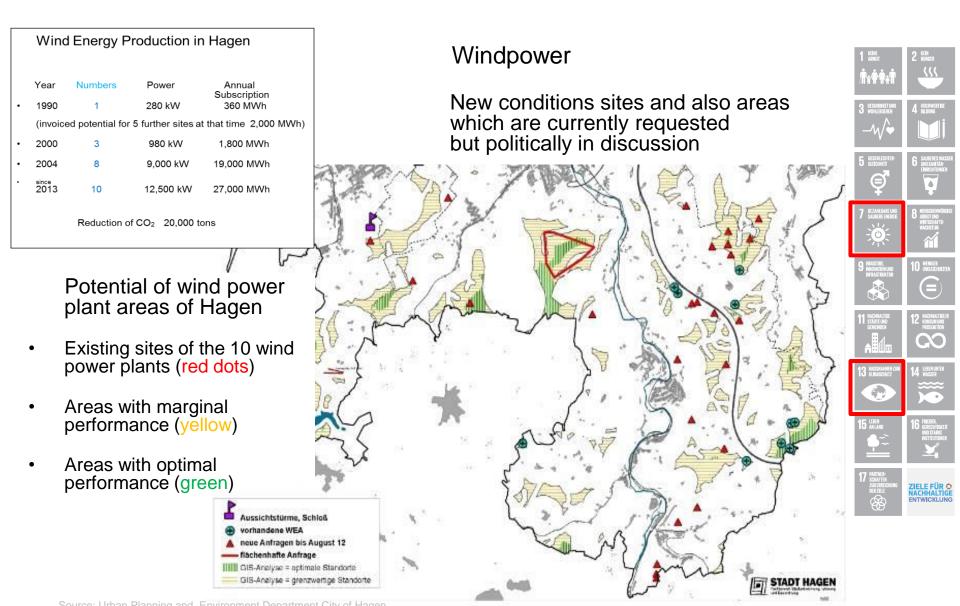






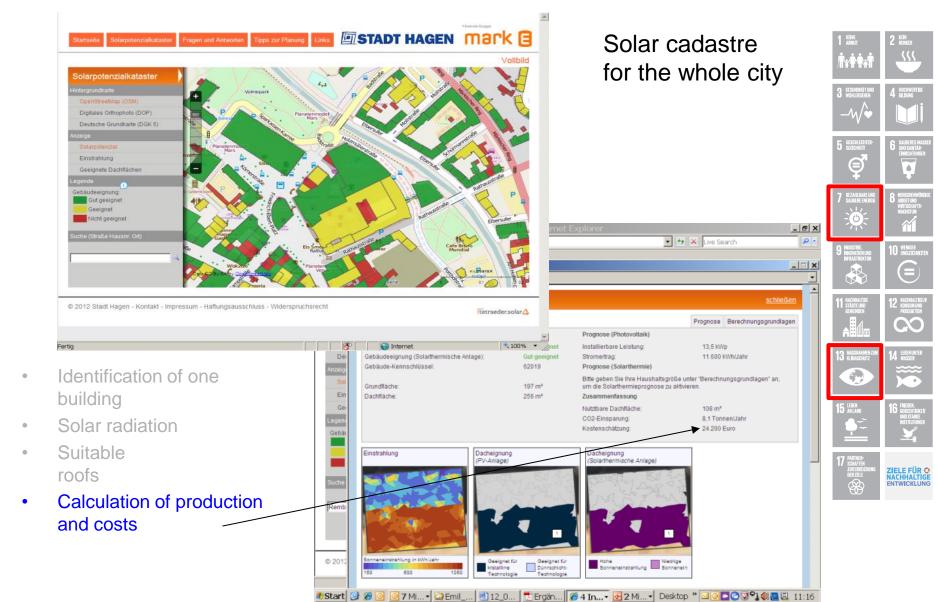


















Geo-thermal heat pump of the new shopping mall "Rathaus-Galleria" Hagen

- The German Sustainable Building Certificate is a transparent and comprehensible rating system
- developed based on real-world circumstances
- defines the quality of buildings in a comprehensive way
- enables auditors to conduct an evaluation systematically and independently

Rated standard of Rathaus-Galleria complex



GOLD standard







































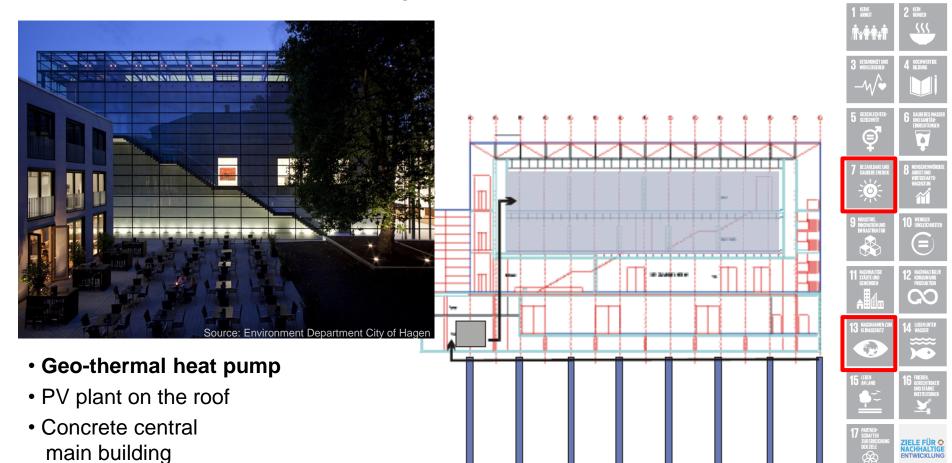
• Glass cube structural glass

facade with tempered frames



2. Integrated Climate Protection Concept (IKSK)

Art Quarter Hagen - Museum Emil Schumacher



Usage of 81 auger piles with a length of 99 meters for temperature control of structural components





3. Participation in **European Energy Award®** in the City of Hagen

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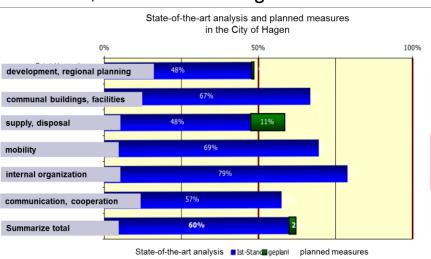






3. Participation in **European Energy Award®** in the City of Hagen

In 2008, 2012 and now again in 2017





Dark blue: Ordinary members of the Association European Energy Award
Austria France Germany Italy Liechtenstein Luxembourg Monaco Switzerland

Light blue: Pilot countries

Morocco Romania Ukraine

© European Energy Award®







- · quality management and certification system
- national and supranational energy strategies
- for municipalities by municipalities
- specific activity programs
- international benchmark



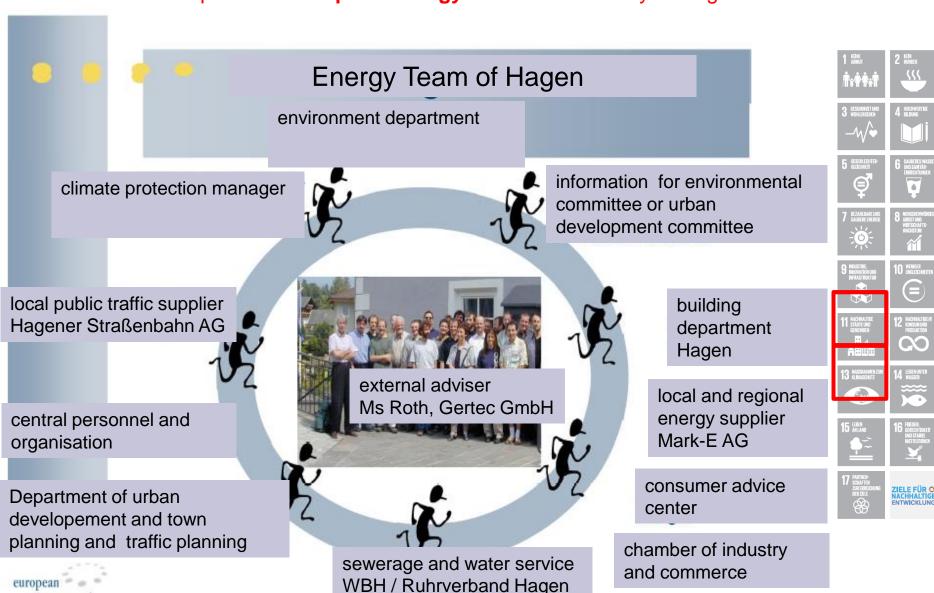




energy award



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- impact of the urban climate is a major challenge for an aging urban society
- population decline offers **space potentials** for adaptation measures
- approaches for climate adaptation within spatial overall planning, especially for urban development planning, water management, and open space planning





- steering group, team of municipal expert, working groups
- analysis and strategy with all actors of the city administration, local politicians and civil society































Joint project partner:



Environment Department, City of Hagen Unit for general environmental planning





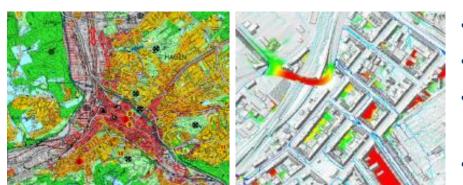


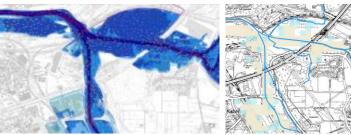
Outputs will be recommendations for the future urban development in the city

integrated urban development concept



reconfiguration of the zoning plan







(Sources: own account)

Sources: Environment Department and City of Hagen



- hazard map for heavy rainfall
- flood hazard maps (present and future)
- priority/main roads for the fire department
- maps of specific sensitivities (part of vulnerability assessment)



















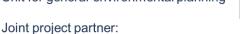








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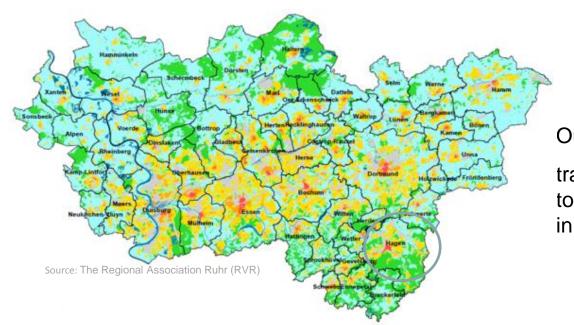






Conclusions

- knowledge transfer in the civil society and municipal administration and growing awareness among the public and policymakers
- establishing climate adaptation as cross-sectoral issue (interdisciplinary) within the urban development process
- regional and national network meetings, round tables, future workshops, scientific publications (developed methods)
- spreading over the intercommunal network of The Regional Association Ruhr (RVR)



Outlook and perspective:

transferring projects' approach to other municipalities in the Ruhr Area































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HAGEN Stadt der FernUniversität City of Hagen

8. Municipal Climate Partnership with Portmore, Jamaica

Programme: "50 municipal climate partnerships by 2015"



Sources: Environment Department City of Hagen

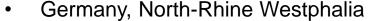
- Jamaica, Parish Saint Catherine
- about 200,000 inhabitants (2014)

Portmore

- increasing population
- founded 1960
- founded on marshland
- 131 sq km
- coastal marshland
- "Jamaica's Sunshine City"







194,776 inhabitants (2016)

est. 163,000 (2030)

- founded in 1746
- 160 sq km
- 42% forest area
- 86 438 m a. SL
- "Gate of the Sauerland" hill region East-Southern part of North-Rhine Westphalia

































climate partner since 2012





(See pictures taken January 2009 and January 2016).

Photos from an email of Mr. Pinnock from Portmore Community College

The local Hellshire Beach is extremely decreasing!







































Source: own photo 2017/ Environment Dep.

Source: photos from J. Pinnock Portmore Community College





Parts of the action plan:

- School partnership
 Hagen (THG-College) –
 Portmore (Community College)
- 2. PV-plant in Portmore as "training pilot" on vocational school, solarteur-education course



Sources: Dr. Ralf-Rainer Braun, Environment Dep. City of Hagen

- 3. Training program for Jamaican engineer in Hagen (focus climate protection and adaptation, flood and desaster management, catastrophe protection and expert exchange to Portmore, "ASA-Kommunal-Programm")
- 4. Construction of a Climate-Change-Park













































Action plan part 1 - school partnership



Sep 2016: school exchange delegation of Theodor-Heuss-Gymnasium back from Portmore





Action plan part 2 PV Plant and launch of solarteur course









































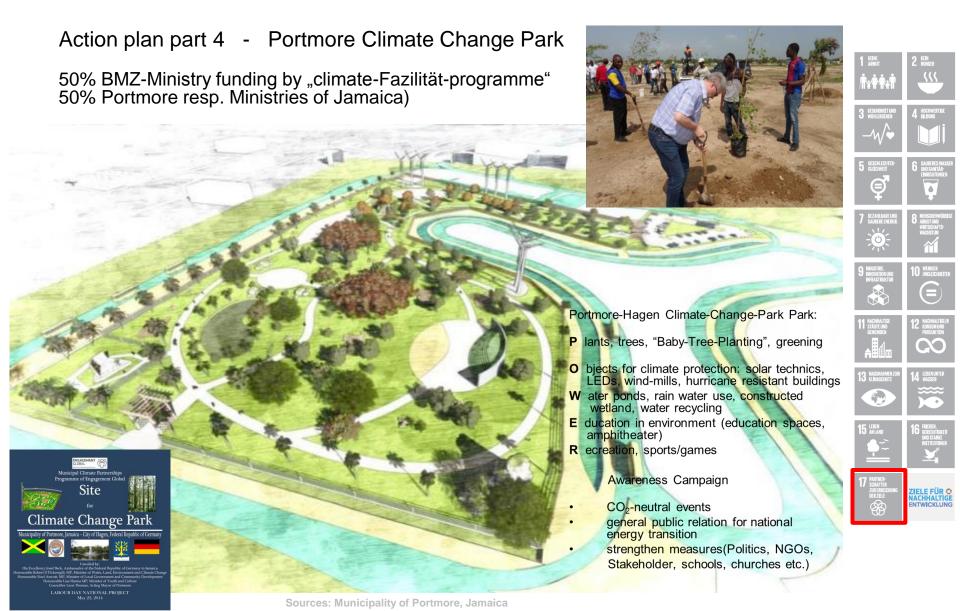




Impressing opening ceremony of the PV plant on 6th March 2014



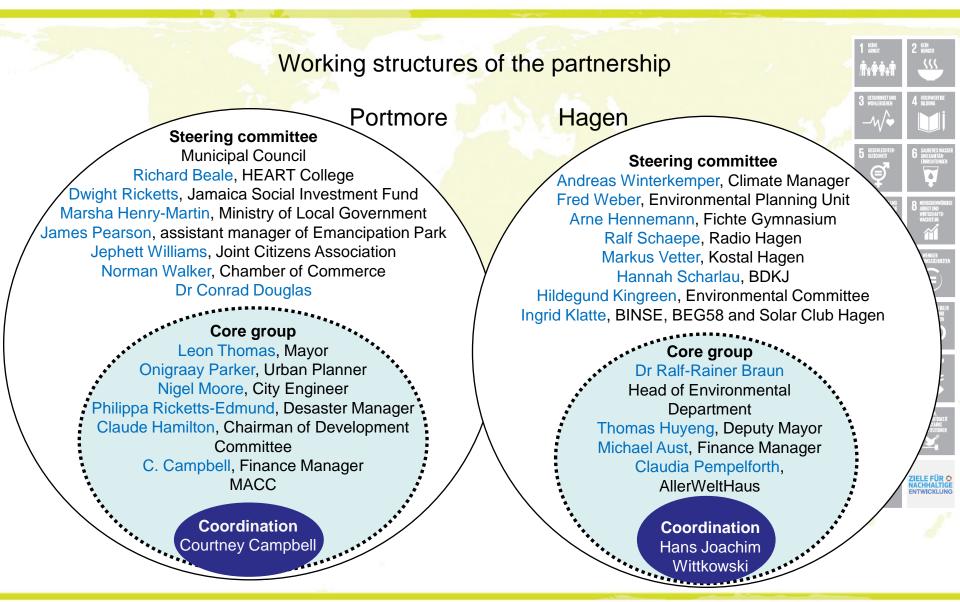








8. Municipal Climate Partnership with Portmore, Jamaica







8. Municipal Climate Partnership with Portmore, Jamaica

Event in the museum with Her Excellency Jamaican Ambassador Ms. Margaret Jobson

German Secretary of State and member of German parliament on 1st July 2015











8. Municipal Climate Partnership with Portmore, Jamaica

Practical experience of this project

personal contact in person is a very good base of a partnership







Source: Environment Department City of Hagen



























9. Fairtrade Town Hagen

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9. Fairtrade Town Hagen



City of Hagen is certificated as a **Fairtrade Town** since 2013



Fairtrade Town steering committee is established in Hagen

Main Goal 12: Responsible Consumption and Production









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- 6. Implementation of the EU Air Quality Framework Directive (implementation of the **Clean Air Plan Hagen**: public transport, truck routing, LEZ, mobility station, networked mobility)
- 7. **Sustainable mobility** (E-bike promotion, E-Mobility Days, car-sharing offers, working group biking, bike-traffic future workshop)
- 3. International cooperation (Municipal Climate Partnership with Portmore, Jamaica; water resource management in Burkina Faso, Connective Cities platform)
- 9. Sustainable consumption ("Fairtrade Town Hagen, fair trade schools & universities")
- 10. Environmental **Education for Sustainable Development** (theatre project, Plant-for-the-planet Academy at the distance University, working group "Climate justice", development of climate claim with youth groups, "World Construction" Project North Rhine-Westphalia)
- 11. Applying for **UNESCO World Heritage site** (GeoPark Ruhr area, Vorhalle Quarry Hagen-Vorhalle, Geo-Path Kaisberg)
- 12. Hagen applies for model municipality "Global Sustainable Municipality North Rhine-Westphalia" with the LAG21e.V. to implement SDGs in the city and its administration processes.































Plant-for-the-Planet Academy in Hagen

on 5th November 2016

- at a Plant-for-the-Planet Academy students become a Climate Justice Ambassador
- learning how to give presentations and to organize planting sessions
- Plant-for-the-Planet academies are an official project of the UN Decade "Education for Sustainable **Development**" and worldwide all-day held
- Academy conducted as one full day action with 80 children aged 10 to 14 on the subject of climate change and climate justice
- located at the Fernuniversität Hagen (Distance University Hagen) - Mayor was patron
- https://www.plant-for-the-planet.org/en/joinin/academy



Source: Environment Department City of Hagen

Pressetermin am 11. Oktober 2016 an der Fernuni zur Plant for the Planet Akademie in Hagen, die



Klimabotschafter vor der eigenen Tür

Source: Westfalen Post Hagen



































Lucy the Killer Mosquito

- the theatre trilogy deals with the African mosquito "Lucy". The topics: population growth, world hunger, combating poverty, social inequality and climate change
- initiation of new life style (Sufficiency-) debate:
 - clearing out efficiency
 - unbundling - slow-movement
 - no commercialization
- the plays are priority for children of primary and pre-school age. Aim of the author: no dramatizing "Concerning Theatre"
- the trilogy can be replicated by each theatre

Performing rights belong to Werner Hahn & Hans Steinmeier











































World Construction Project

Wall painting in Hagen in Sep 2017

- focus of the project should reflect on how to translate relevant targets of the Sustainable Development Goals (SDGs) into meaningful and feasible pictures
- discussion during the period of construction of the subject
- involvement of different target groups in Hagen

































Plan of an exhibition of Network Fair Metropole Ruhr + Misereor

"The scandal has many faces child labor and what can we do about it"

in the Hagen city hall in Dec 2018

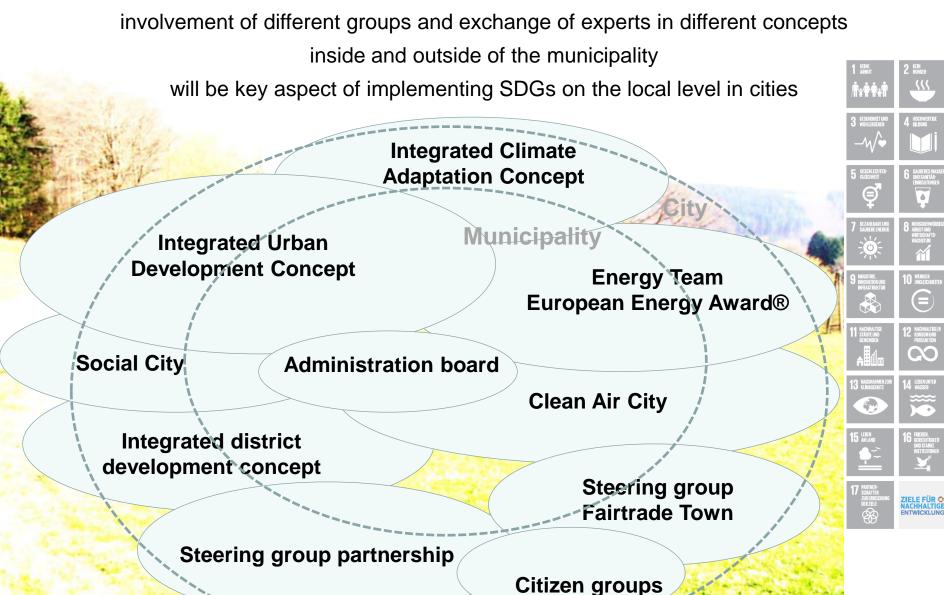


Source, photo: Hans Joachim Wittkowski





Main Experience







Thank you for your attention!



Source, photo: Hans Joachim Wittkowski

See you in Narrative Café the green oasis in Hagen-Wehringhausen!