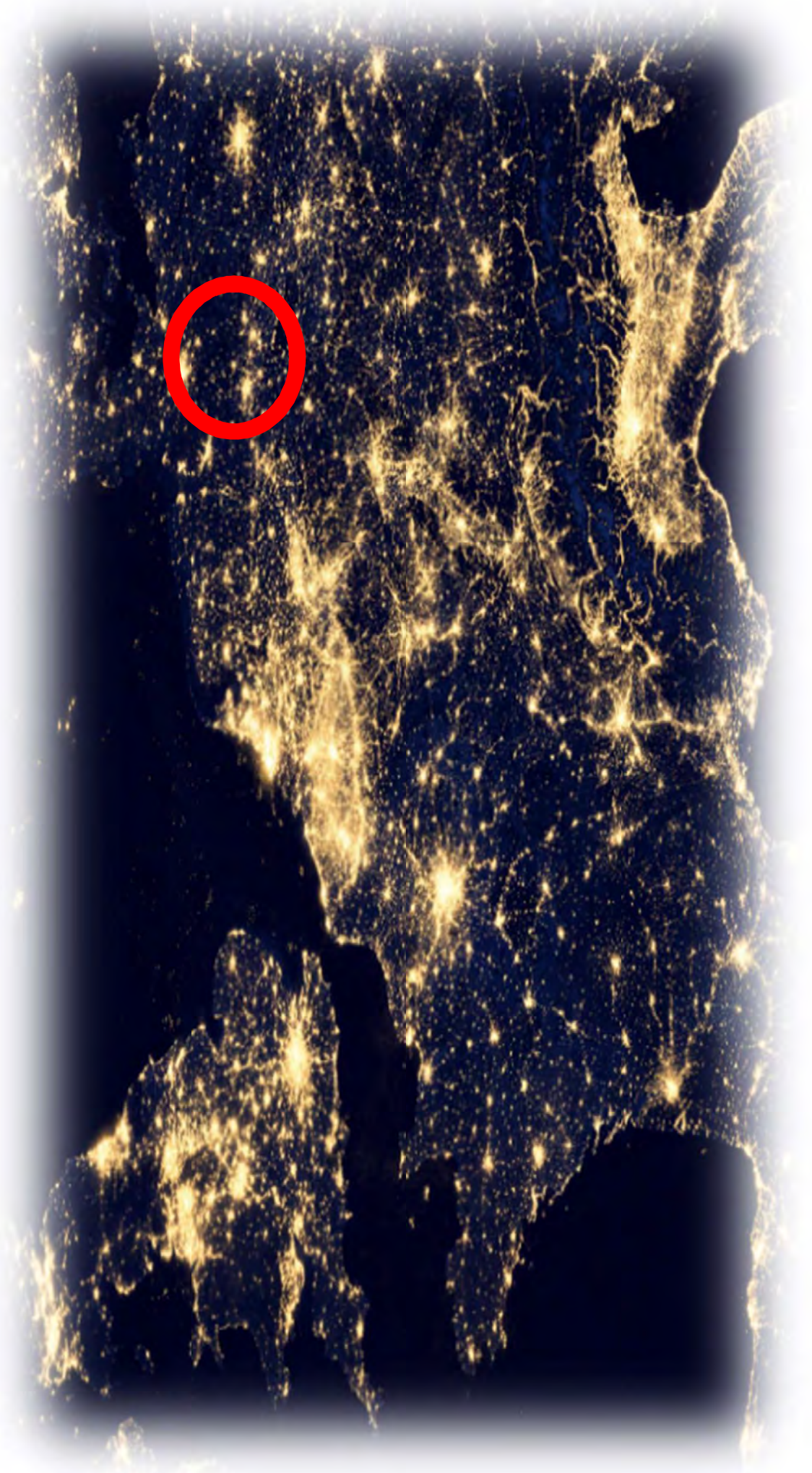
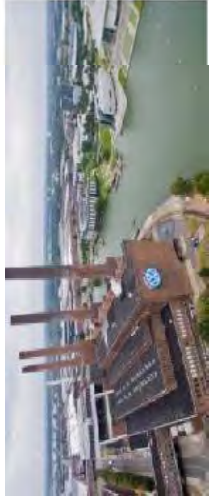






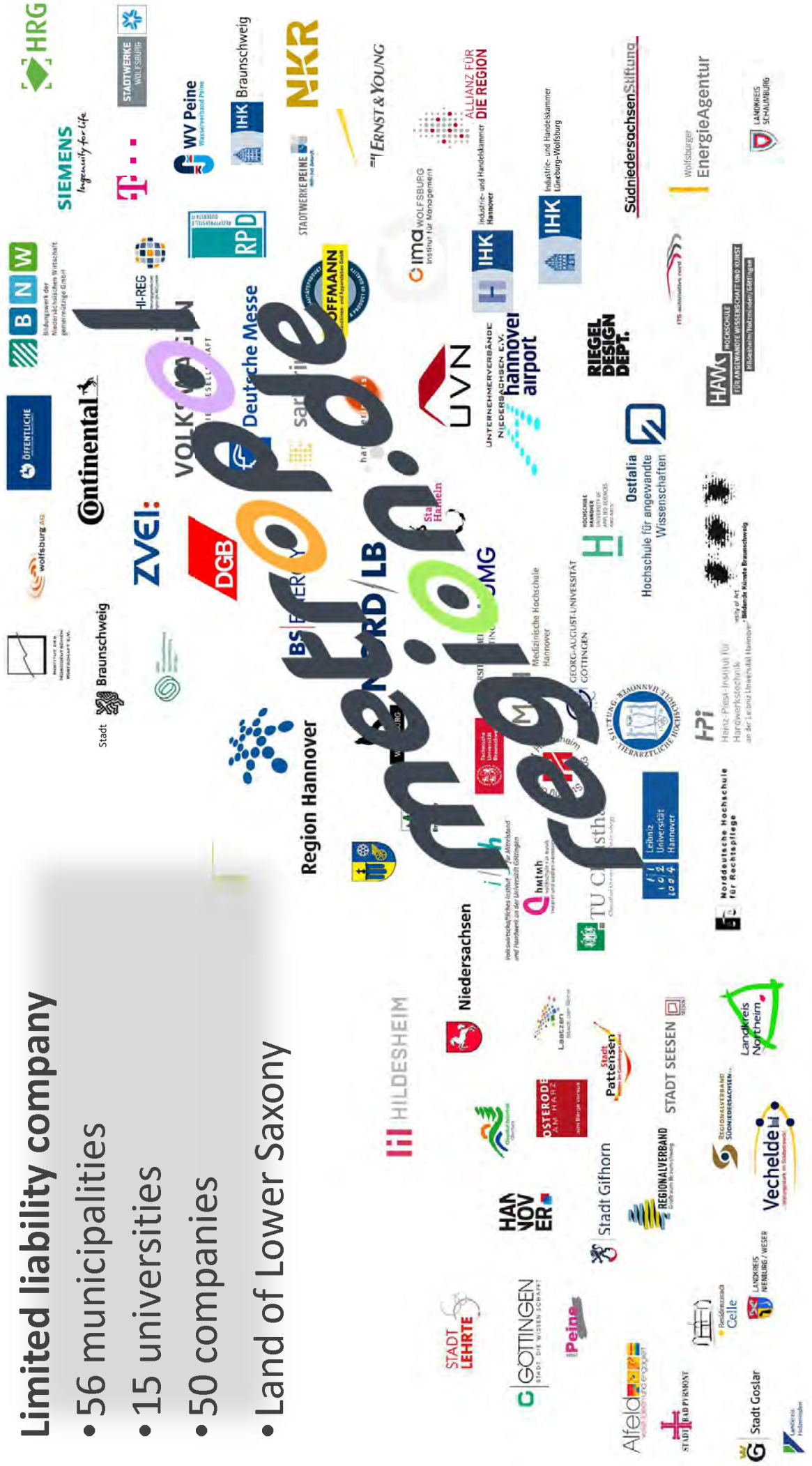
Metropolitan area

- 3.8 million inhabitants
- area of 19,000 km²
- 5 % of Germany



Limited liability company

- 56 municipalities
- 15 universities
- 50 companies
- Land of Lower Saxony





Hauptstadt-region
Berlin-
Brandenburg

Mittel-
deutschland

Nürnberg

München

Hamburg

Hannover
Braunschweig
Göttingen
Wolfsburg

Frankfurt
RheinMain

Stuttgart

Northwest

Rhein-Ruhr

Rhein-
Neckar

Platform for development and realisation of
innovative cooperation projects



Urbanisation



Digitalization



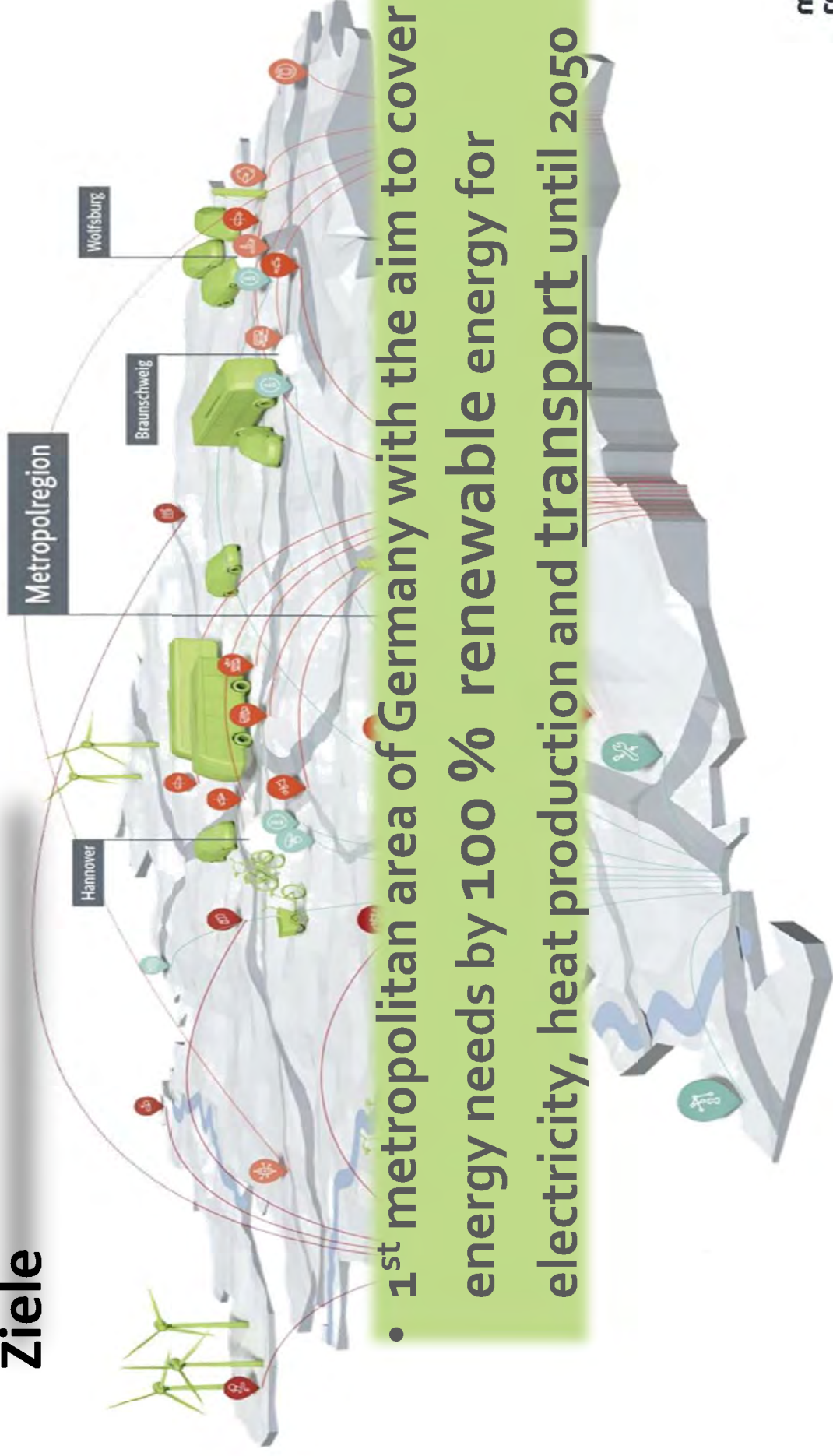
Globalisation



Climate Change



Ziele



- 1st metropolitan area of Germany with the aim to cover energy needs by 100 % renewable energy for electricity, heat production and transport until 2050

One of the biggest EV- municipal –fleets in europe 200 full electric vehicles







CASE

Connected Autonomous Shared Electric







No smart phone

No credit card

Never heard about Elon Musk

but: EV-DRIVER



electric car

voiture électrique

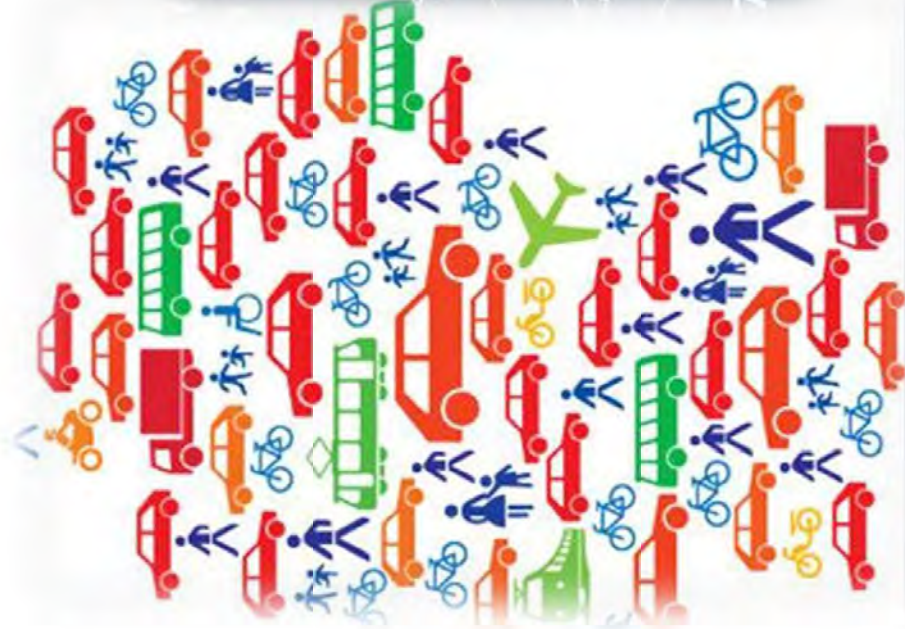
coche



...more electric cars now !

the apple is real – the e-Golf, too

www.metropolregion.de | Amt electric



Modal split of passenger traffic Germany:

Motorized private
transport



75,9 %

Road-based
Public transport



6,4 %

Train



7,4 %

Air transport



4,7 %

Walking



2,8 %

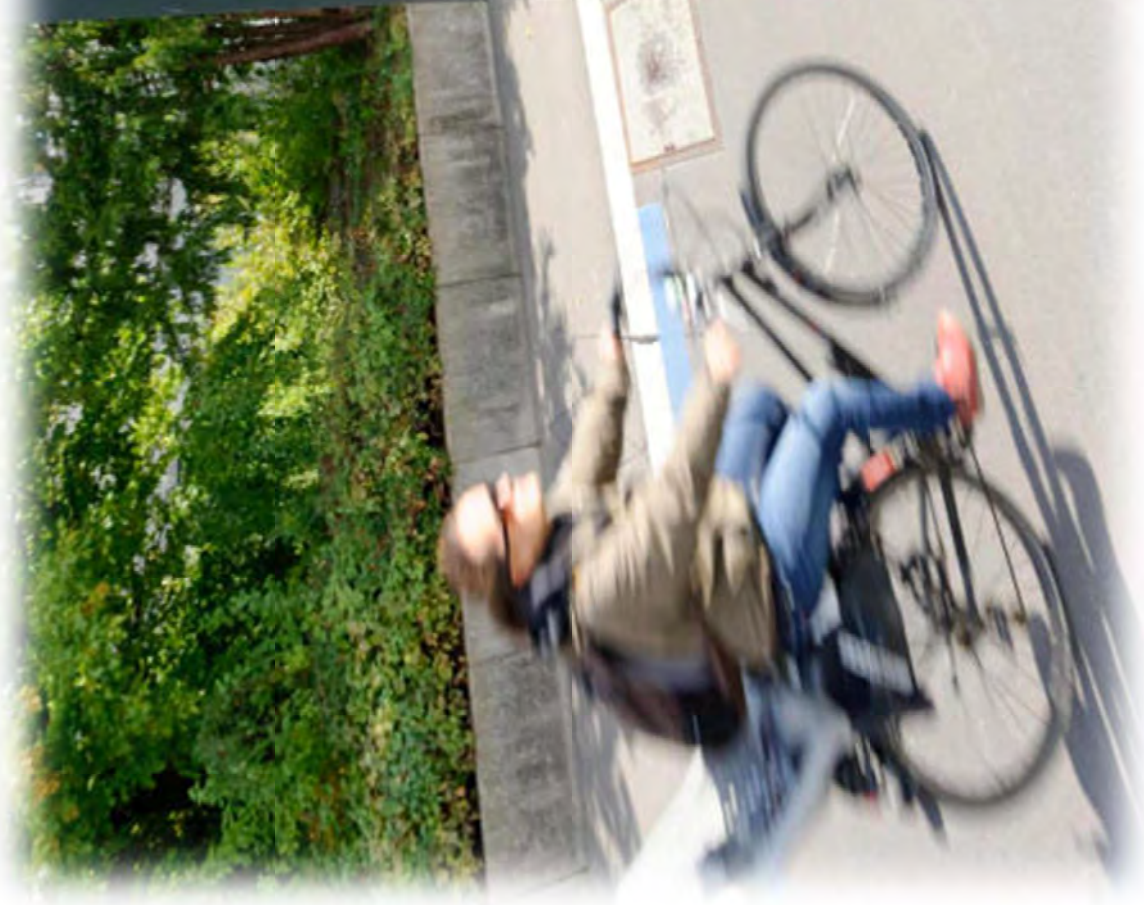
Cycling



2,9 %

Modal split in German cities:

	Car	Public transport	Walking	Cycling
				
Berlin	31%	26%	30%	13%
Munich	37%	21%	28%	14%
Hamburg	42%	18%	28%	12%
Freiburg	21%	16%	29%	34%
Essen	54%	17%	26%	3%





Energy

•423 kWh



Integrated energy



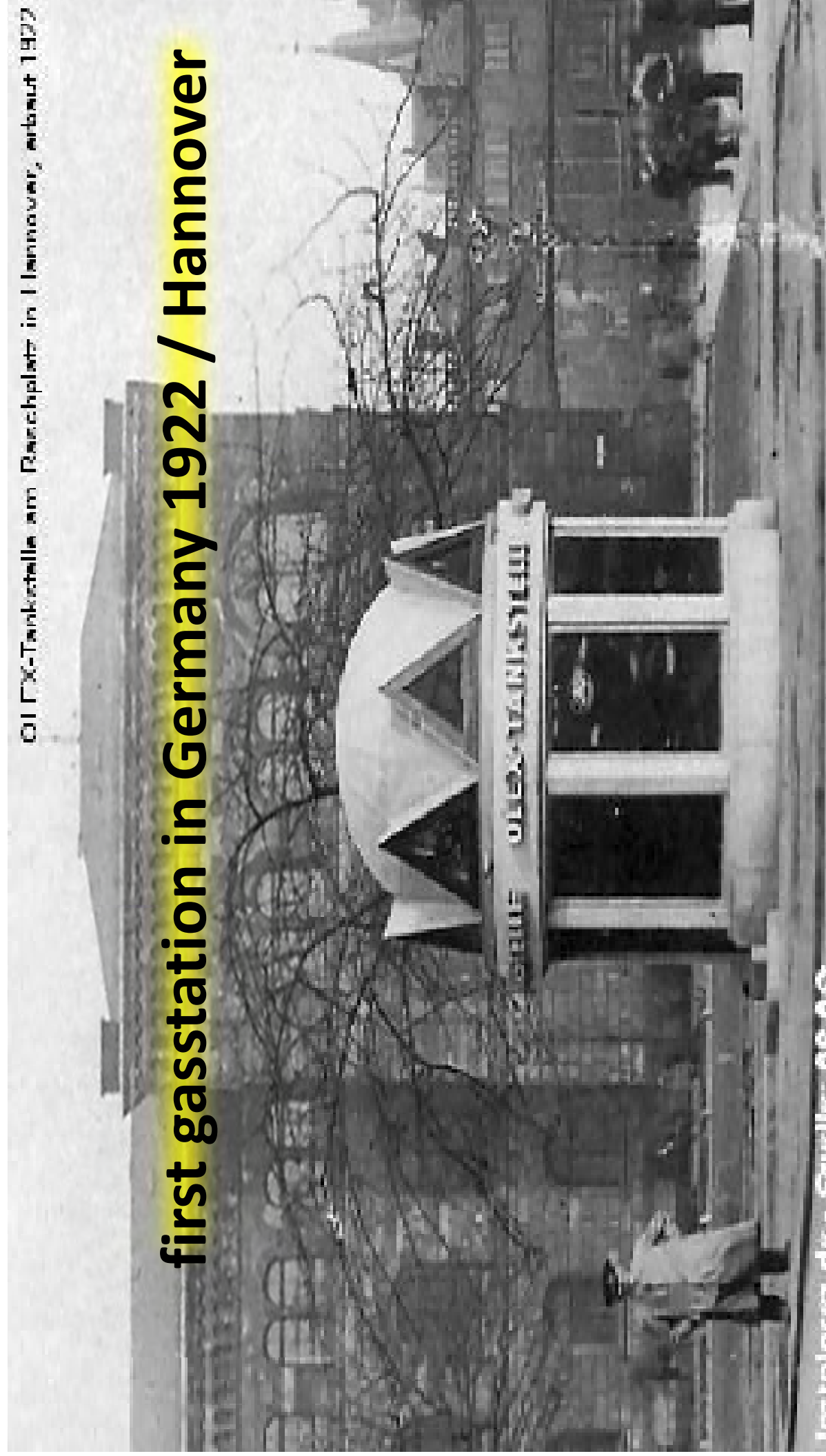




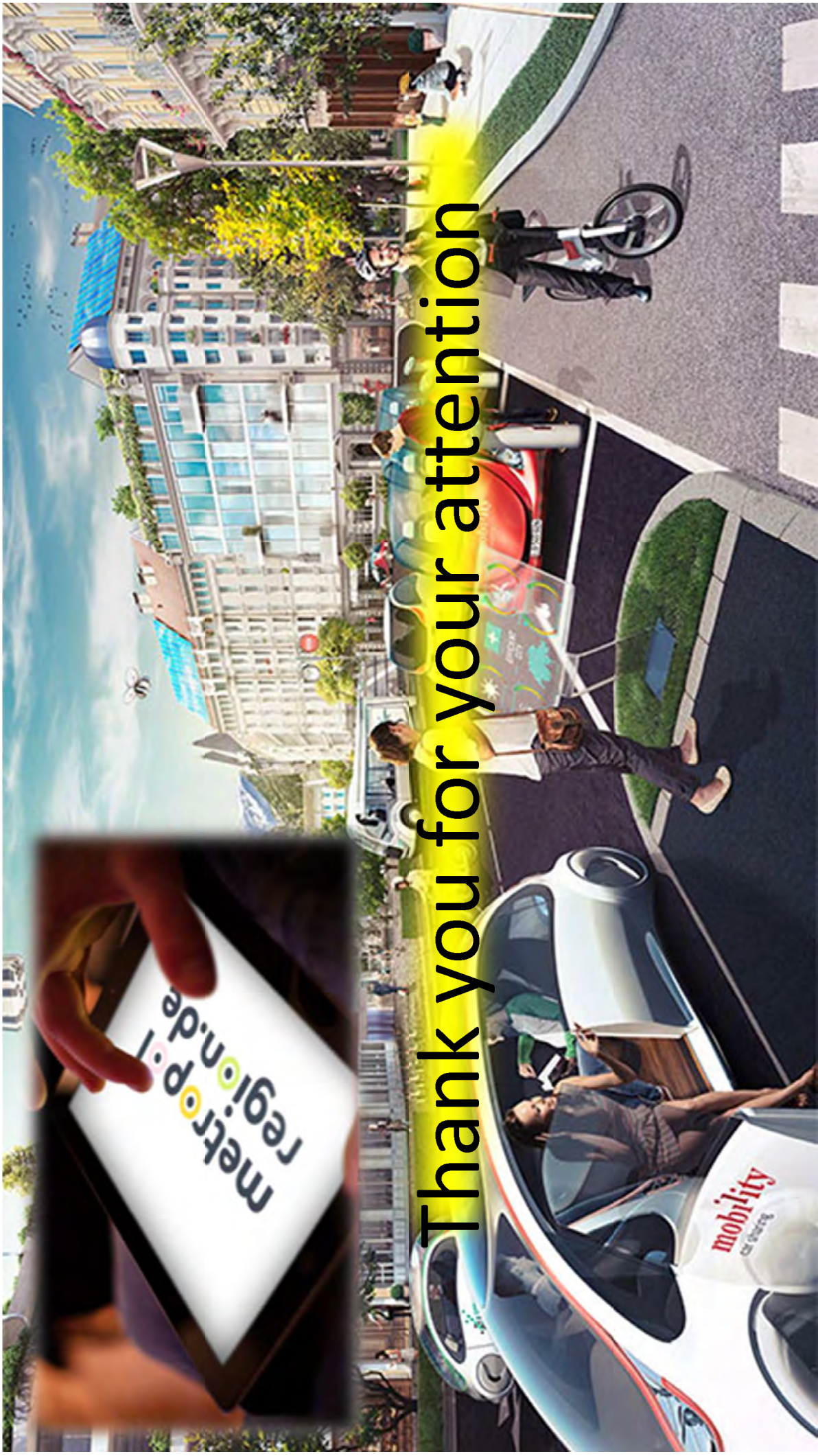


Oil Tankstelle am Ratsplatz in Hannover, erbaut 1922

first gasstation in Germany 1922 / Hannover



Photobureau of Prof. Carl H. 812 812



Thank you for your attention