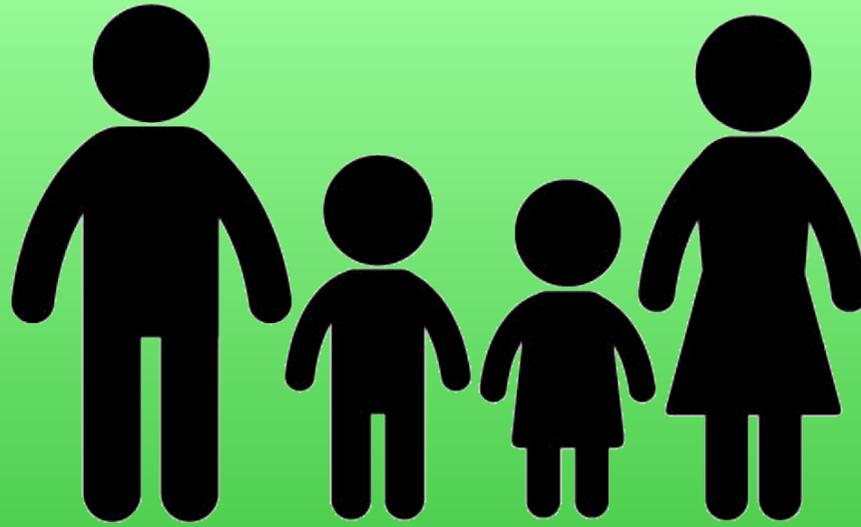
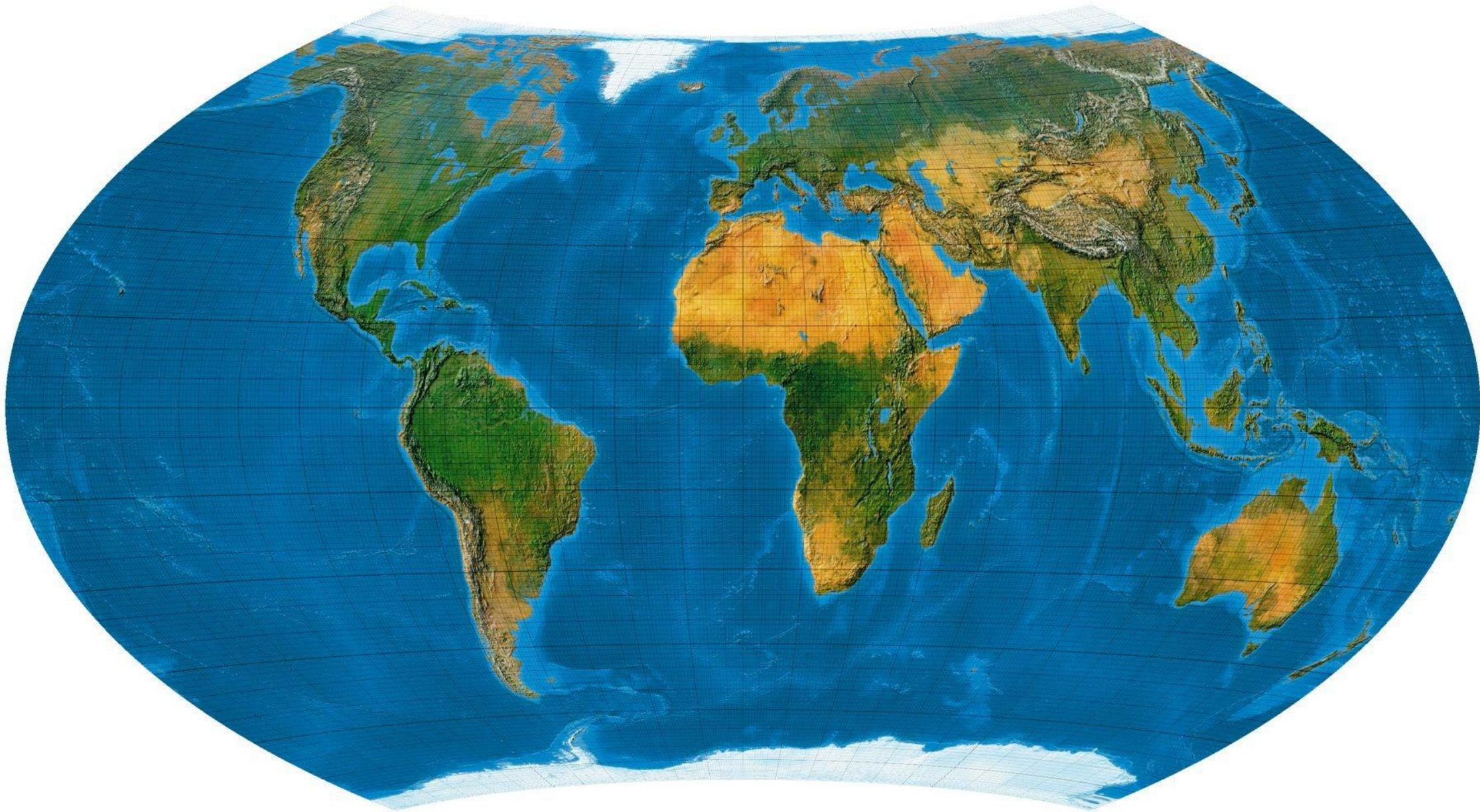


The 1000 m² civilization



4000 m²

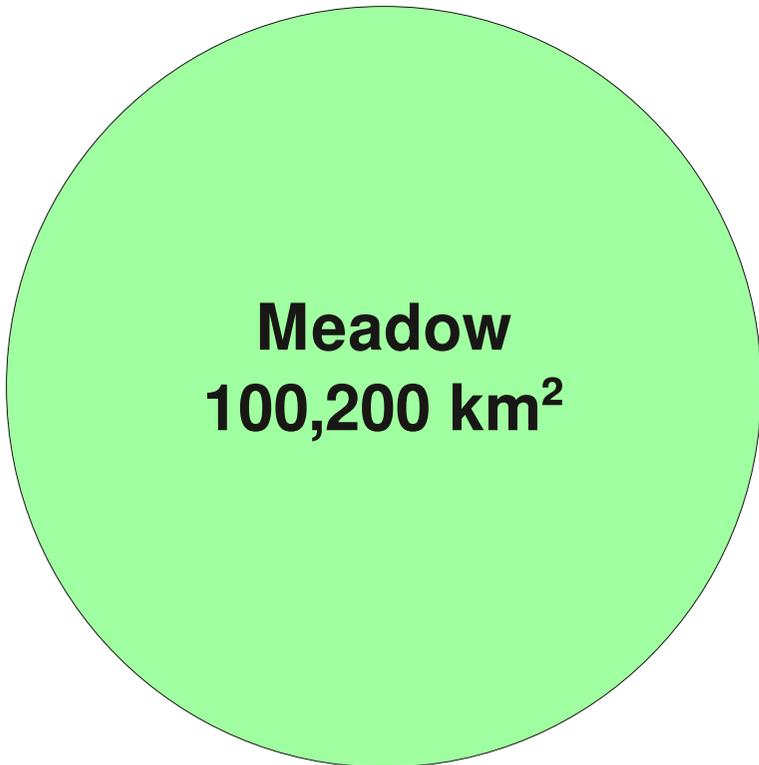
10 billion people



10 million km²



Germany 2020



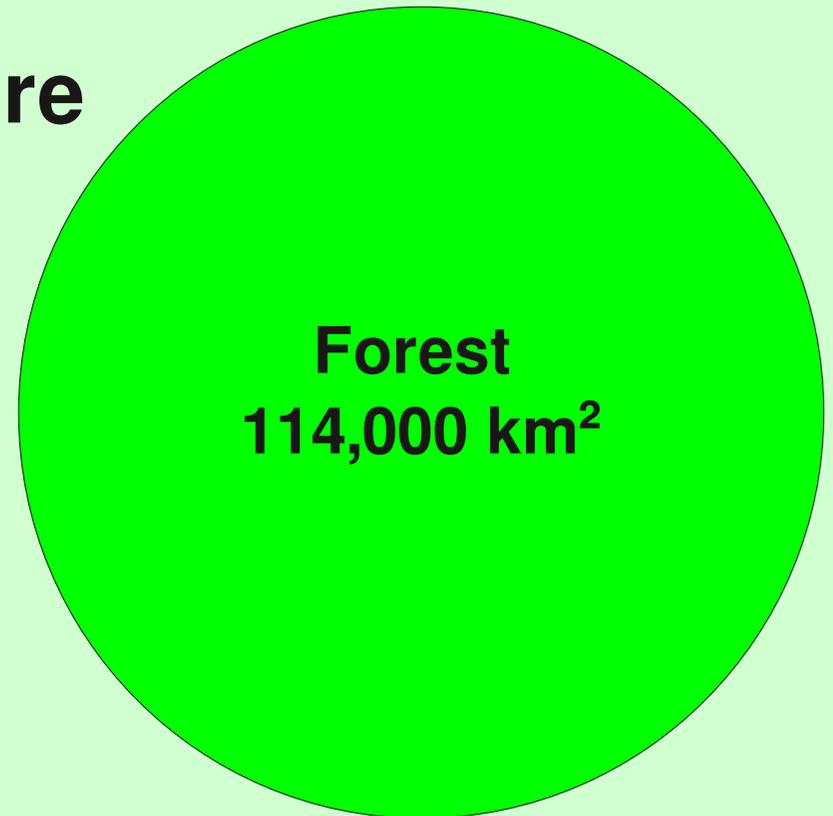
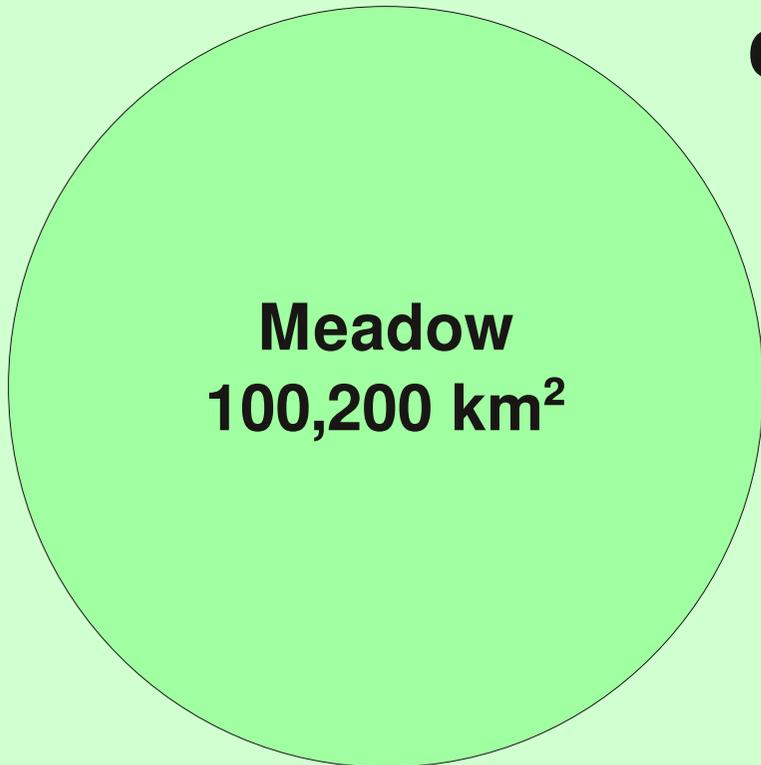


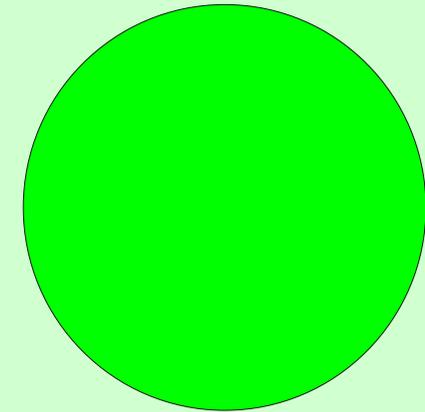
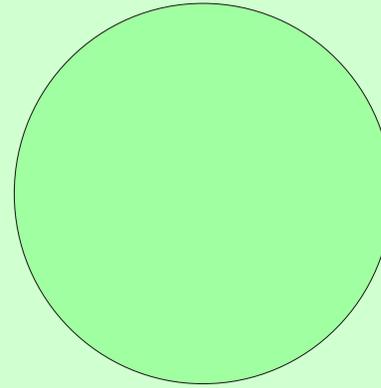
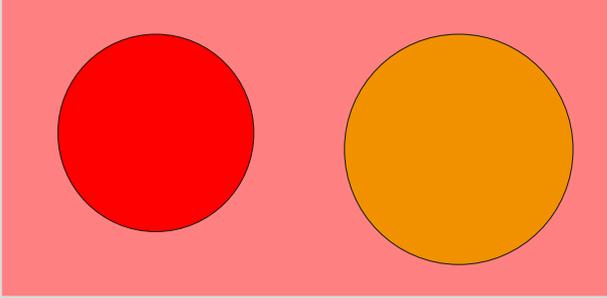
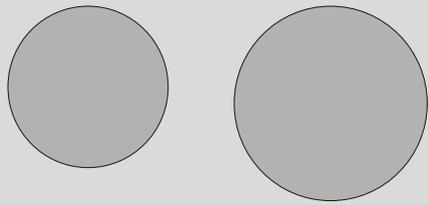
covered



100 % used

close to nature





**CO2 emission 1 kg = 1 m²
733,897 km²**

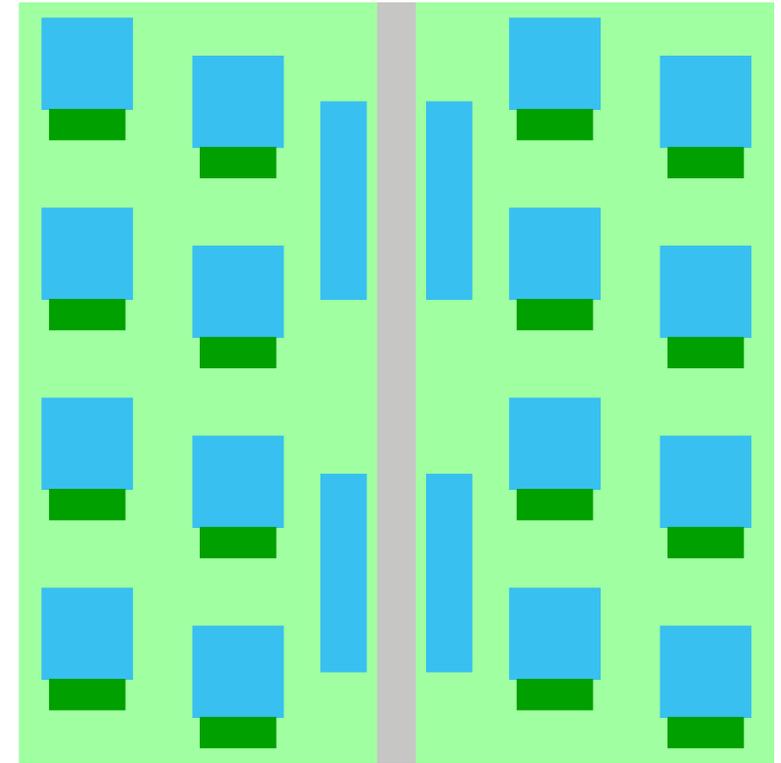
**18,047 km² roads
26,195 km² Buildings
27,000 km² plants for energy
36,740 km² food
10,020 km² 10 % partial use meadow
11,400 km² 10 % partial use forest
129,402 km² before CO2 emissions
733,897 kt CO2 emission
863,299 km² equivalent total
10,399 m² per inhabitant**

18,047 km² roads
26,195 km² Buildings
27,000 km² plants for energy
36,740 km² food
10,020 km² 10 % partial use meadow
11,400 km² 10 % partial use forest
129,402 km² before CO2 emissions
733,897 kt CO2 emission
863,299 km² equivalent total
10,399 m² per inhabitant

22,000 km² roads
48,000 km² buildings + food
0 km² plants for energy
0 km² food
5,810 km² 5 % partial use meadow
7,300 km² 5 % partial use forest
75,400 km² before CO2 emissions
0 kt CO2 emission
75,400 km² equivalent total
906 m² per inhabitant

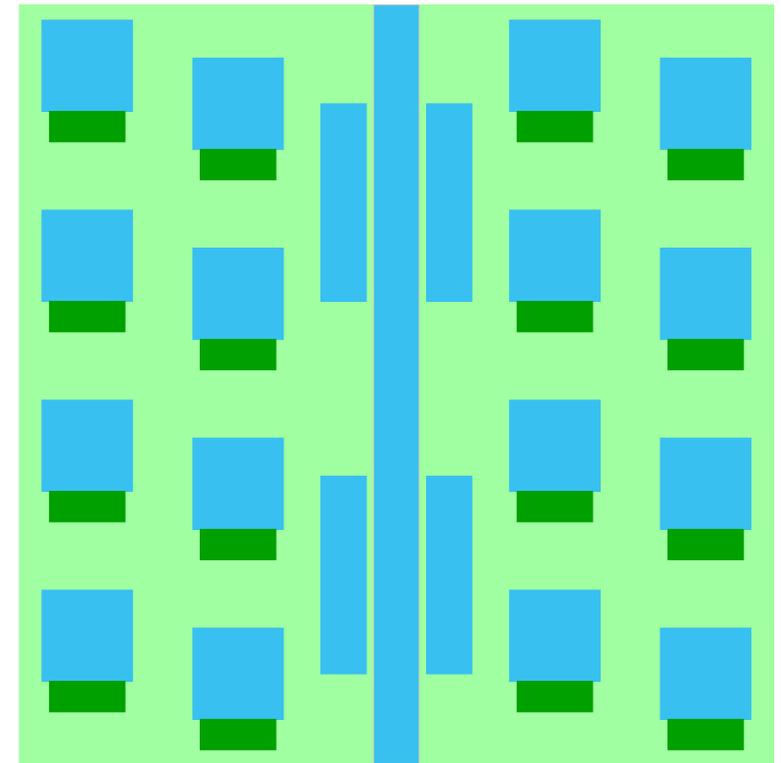
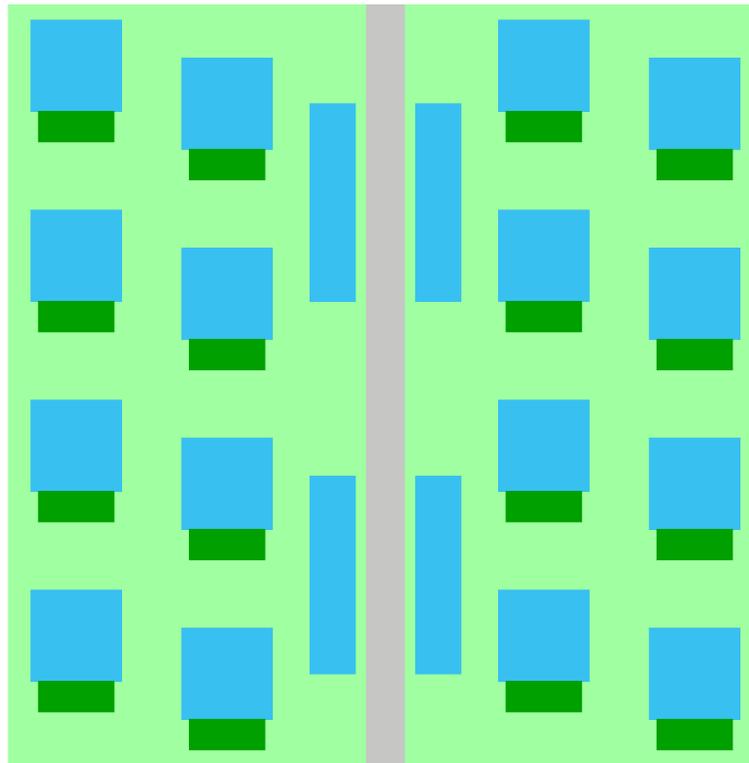
Yield per hectare compare

Maize for “biogas”

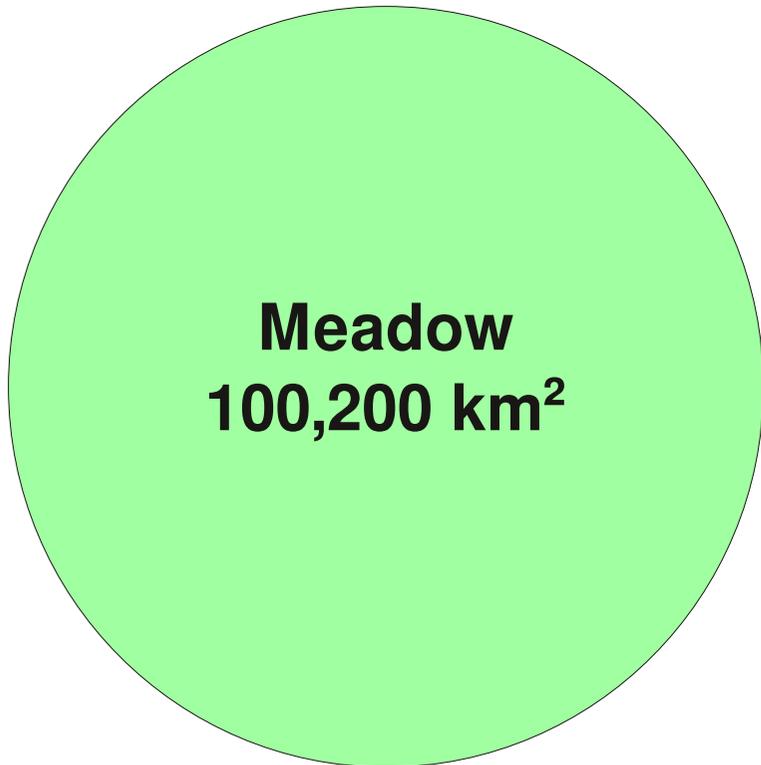


Electricity yield	16 MWh	512 MWh
Electricity production	Continuously 2 kW	Demand-based up to 272 kW
Electricity price / kWh	EEG compensation ~ 16 Cent	free market prices only
Sales	only via EEG	EEX to grid frequency market
Equipment	Share 2 kW gas engine	640 kW PV 1600 kWh batteries
Food production	none	Vertical Gardening 800 m ²
Living space	none	1,440 m ²

Small detail improvement:



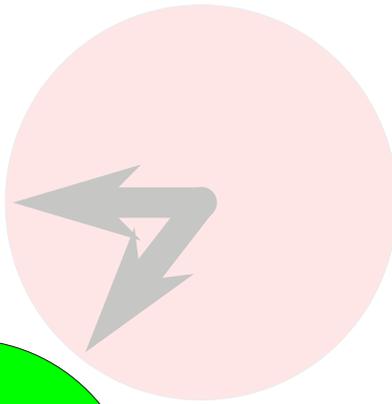
Electricity yield	512 MWh	620 MWh
Electricity prod.	Demand-based up to 272 kW	Demand-based up to 272 kW
Electricity price / kWh	free market prices only	free market prices only
Sales	EEX to grid frequency market	EEX to grid frequency market
Equipment	640 kW PV 1600 kWh batteries	750 kW PV 2000 kWh batteries
Food production	Vertical Gardening 800 m²	Vertical Gardening 800 m²
Living space	1,440 m²	1,440 m²



Streets
18,047
km²

Buildings
26,195 km²

5,000
km²

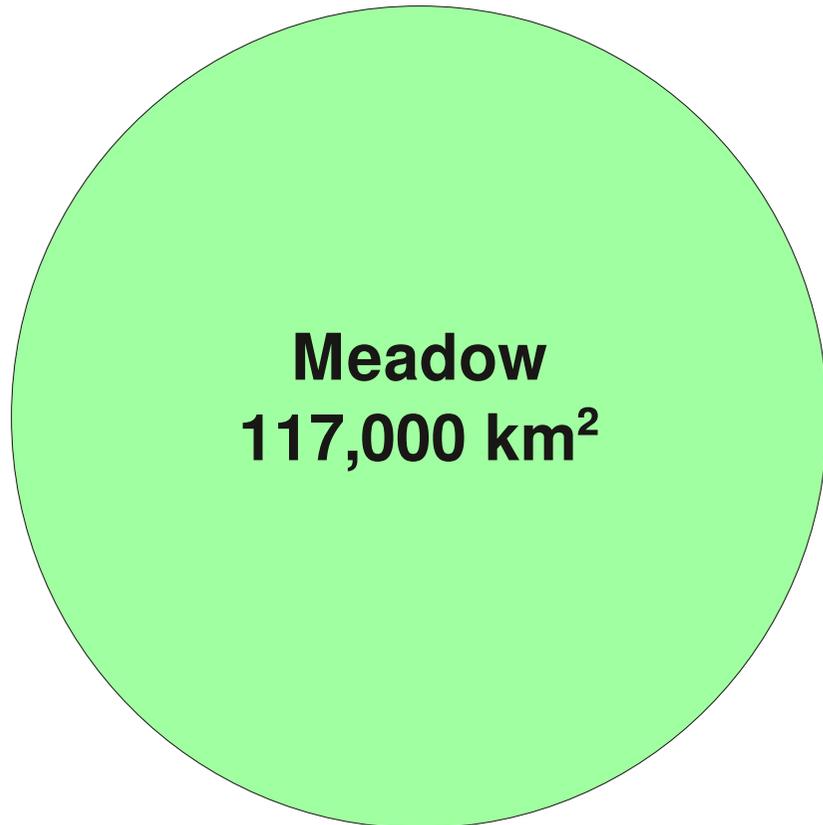


Food
36,740 km²

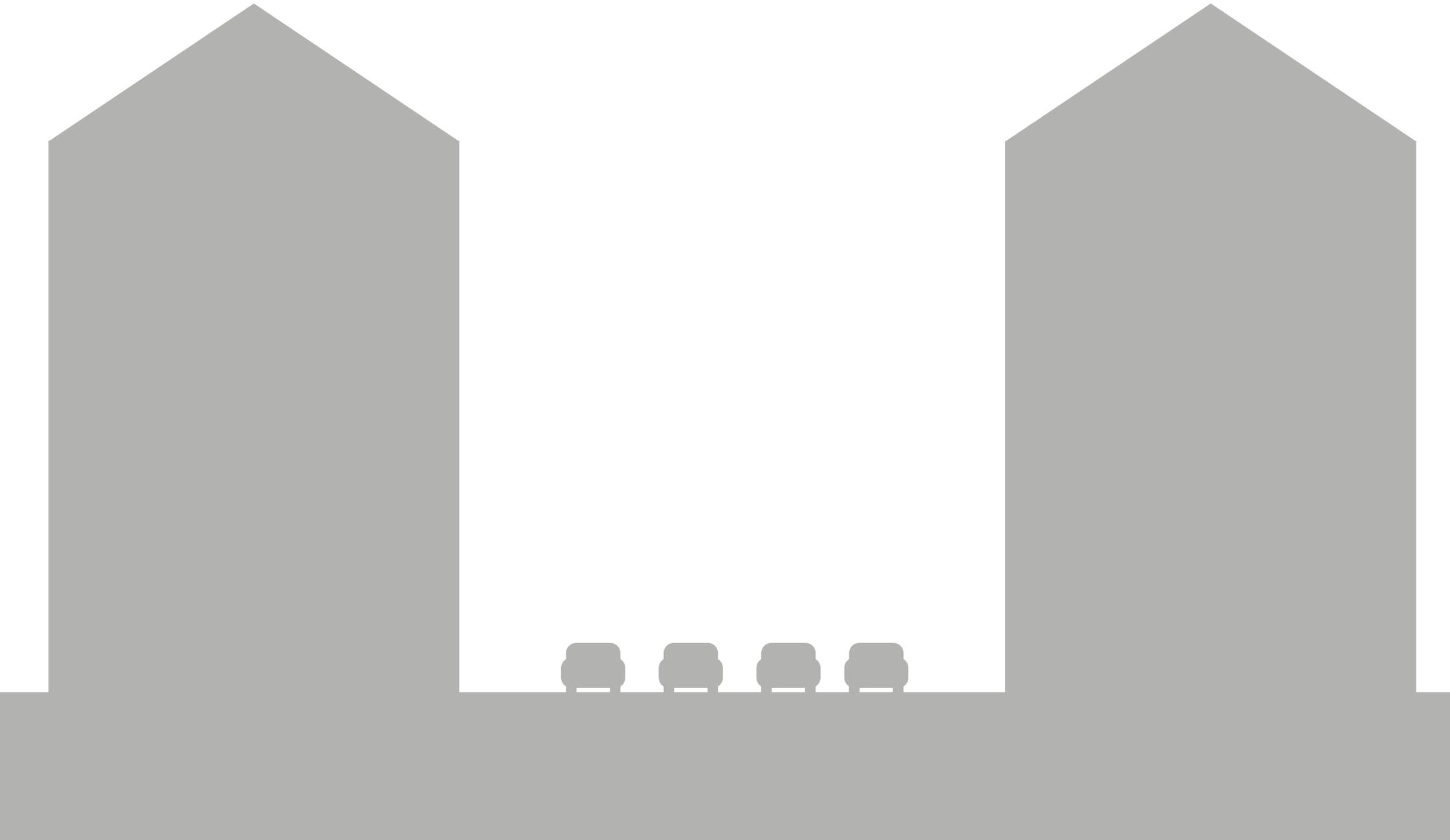
22,000
km²

Meadow
100,200 km²

Forest
114,000 km²



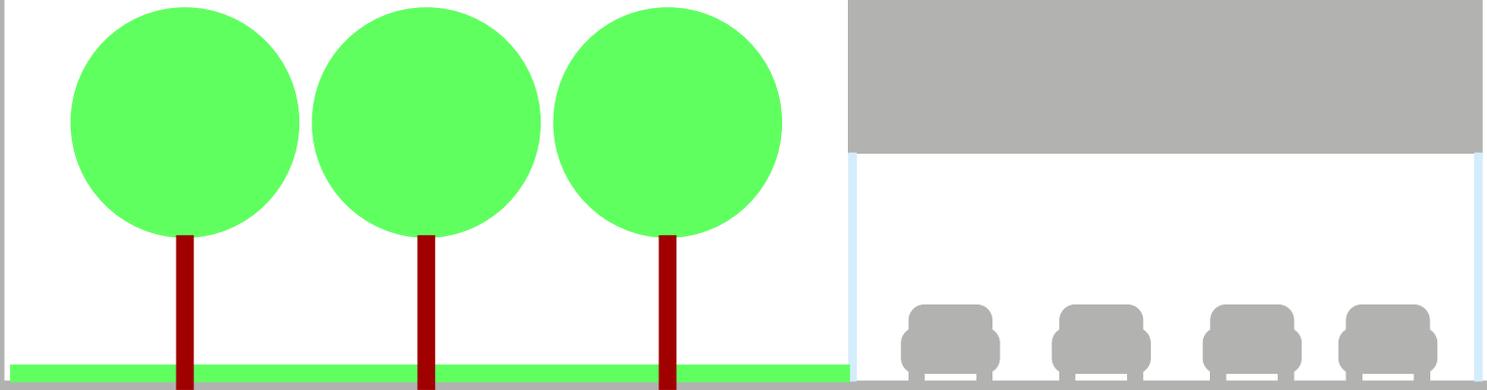
Should cities continue to look like this? Seriously?



We need to rethink cities completely!

**Electric vehicles
easily allow traffic
routing in enclosed
rooms.**

**Air exchange must be
designed only for the
people.**



Thought experiment:

Square meter *

Years *

Use valuation *

Nature valuation =

Land use tax



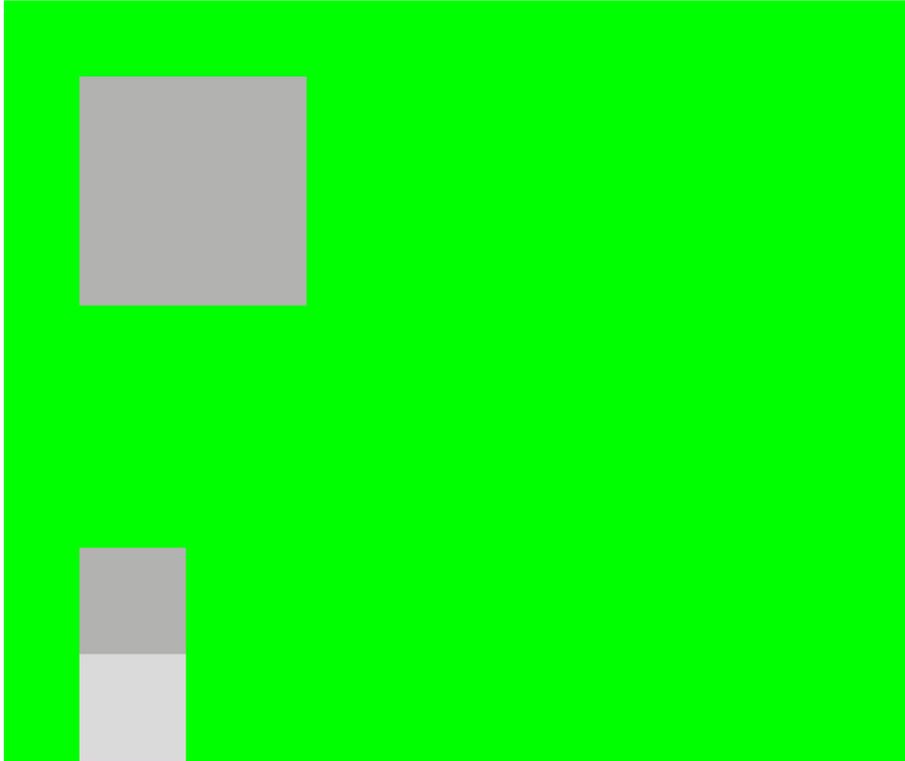
5,000 m² commercial enterprise

20 employees

5,000,000 € annual turnover

5,000 € land use tax

No problem!

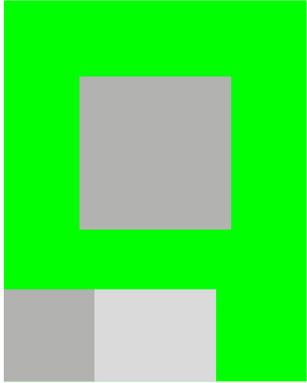


3,000 m² old house
3,000 € land use tax

**In the past, when land was very
cheap, people bought very
abundant.**

**No problem if the
residents are still rich.**

Otherwise divide it into 3 to 6.



500 m² house
500 € land use tax

No problem!

1 ha = 10,000 m² maize for biogas

16,000 kWh * 0.16 € =

2,560 € turnover

800 € market price

1,760 € EEG subsidy

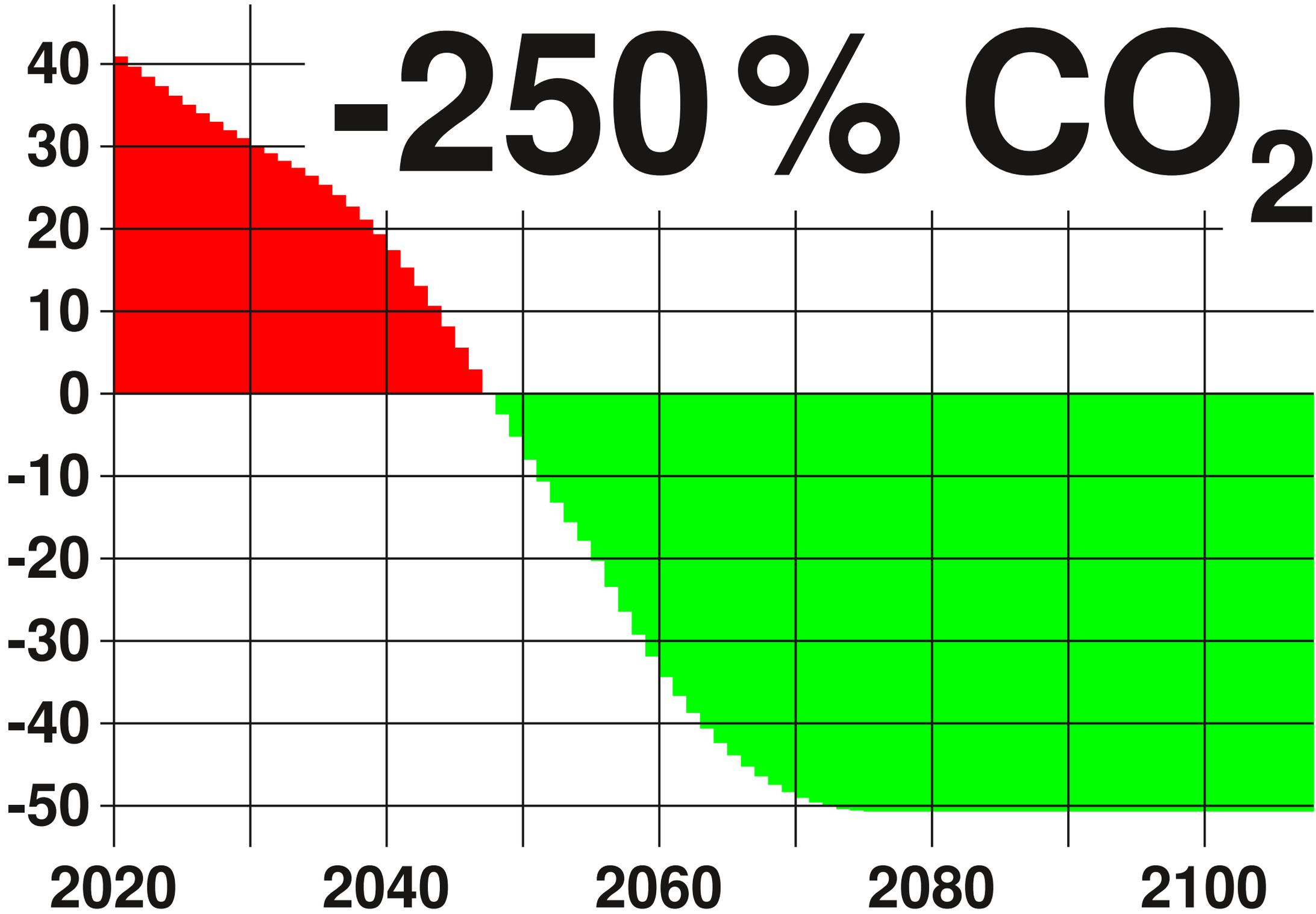
10,000 € land use tax

1 ha = 10,000 m² fruits and vegetables
Photovoltaic, DAC CO₂,
Vertical Gardening Aeroponic

rating with 1% nature,
as dry desert area

100 € land use tax.

-250% CO₂



enable

UBI

The 1000 m² civilization



4000 m²