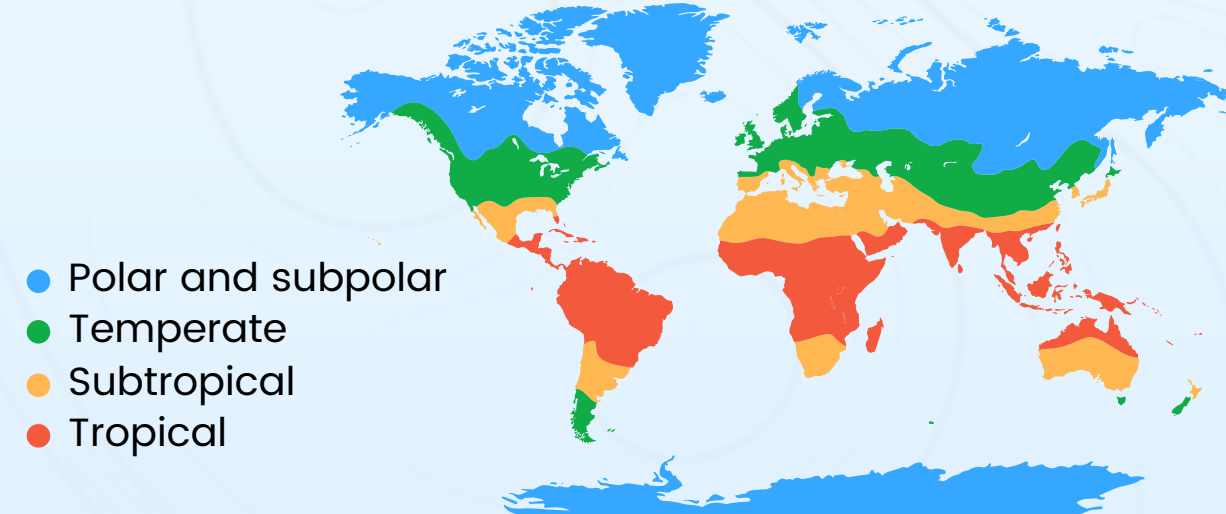


CAUSES WATER SHORTAGE

1 Dry climate

Areas with limited rainfall are especially vulnerable to water shortages, land degradation and desertification.

World climate zones



2 Drought

Drought can lead to water shortages. Due to extreme drought, reservoirs contain much less water than usual. In times of rain, rainfall is not enough to make up for the accumulated water shortage.

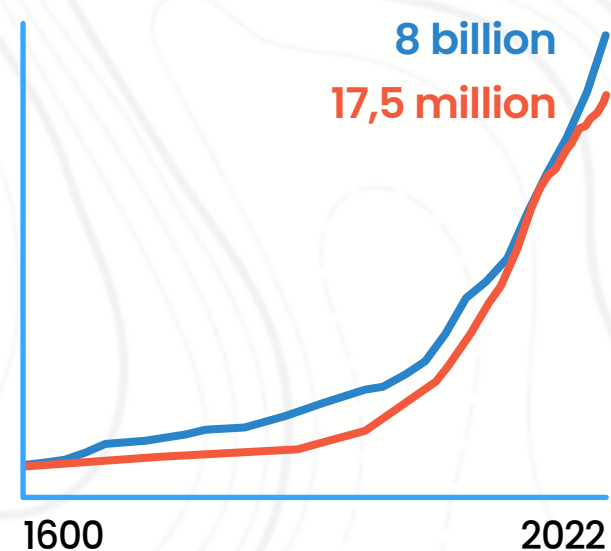
3 Human induced scarcity

Every year, almost **5 million** hectares of forests disappear in net terms. That's **7 million** football pitches. 15% of the land on earth is subject to land degradation.

4 Population growth

Graph with increase population, 1800-2022, of both world (blue) and Netherlands (red) population.

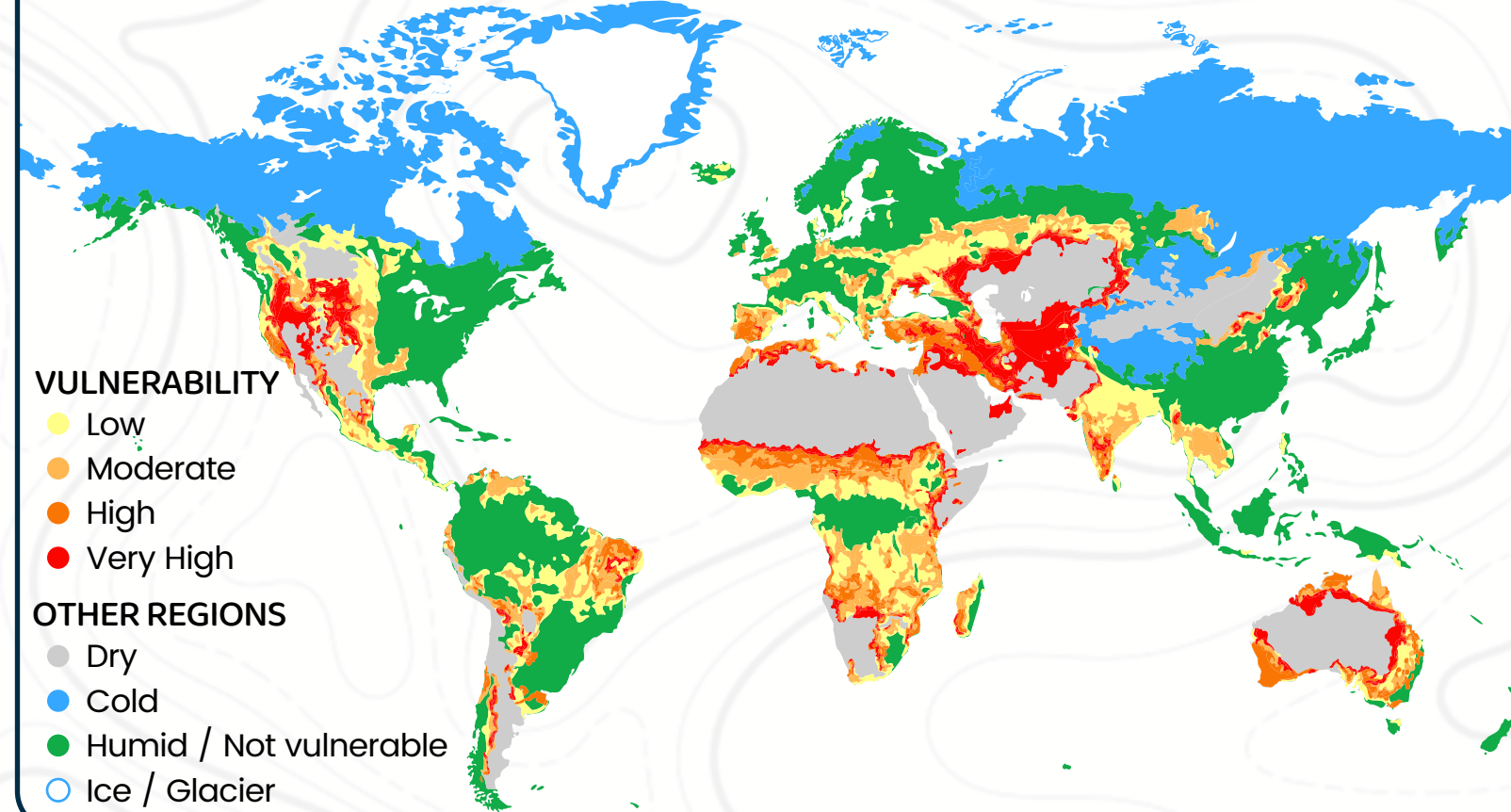
The world's population has tripled since 1950. We now use more than 70% of all (non-ice covered) land on earth and 80% of the land in the Netherlands.



WATER AVAILABILITY

Water shortage

A quarter of the world's population, almost 2 billion people, live in countries where water scarcity is imminent. Some half a billion people live in areas that face desertification



PER PERSON

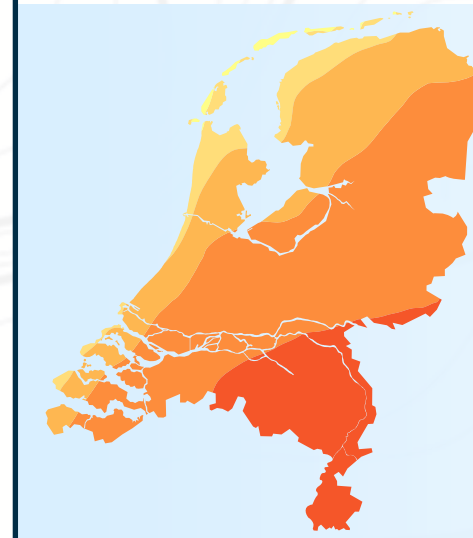
The Netherlands has over **5,000 m³** of fresh water per inhabitant per year (United Nations).

Globally, this fluctuates between less than 50 m³ per year, to more than 100,000 m³ per year, depending on climate zones, population density and local circumstances.

CLIMATE FACTORS NETHERLANDS

Number of hot days

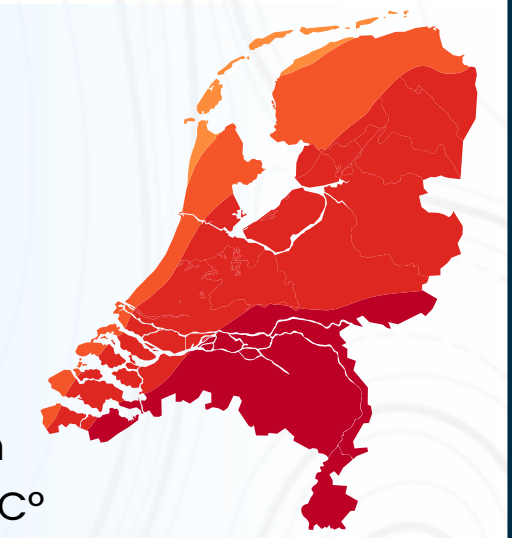
PRESENT



- Days:
- 30-45
 - 45-60
 - 60-75
 - 75-90
 - 90-105
 - 105-120
 - 120-135

Greater than or equal to 20°C

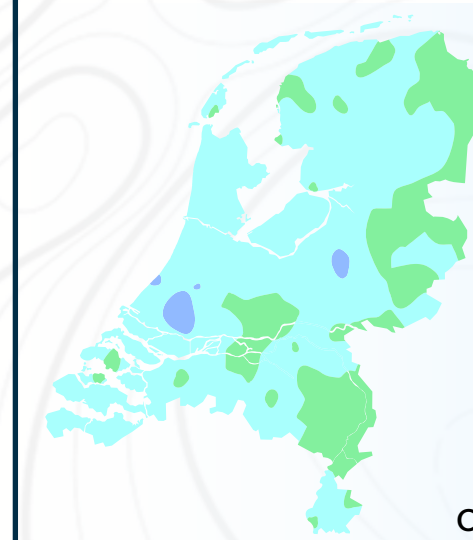
2050



- Days:
- 0-3
 - 3-6
 - 6-9
 - 9-12
 - 12-15
 - 15-18
 - >18

Greater than or equal to 30°C

Number of days with heavy rainfall



- Days:
- 1-2
 - 2-3
 - 3-4
 - 4-5
 - 5-6

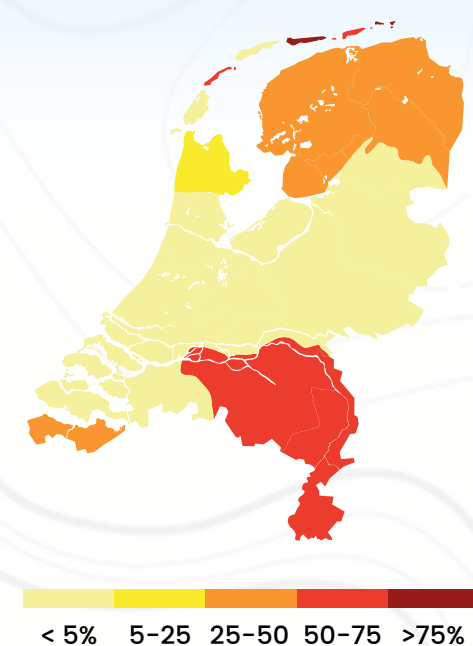
Greater than or equal to 25 mm



More heat and drought in summer, more frequently extreme precipitation, on balance, more precipitation annually, mainly in autumn, winter and spring.

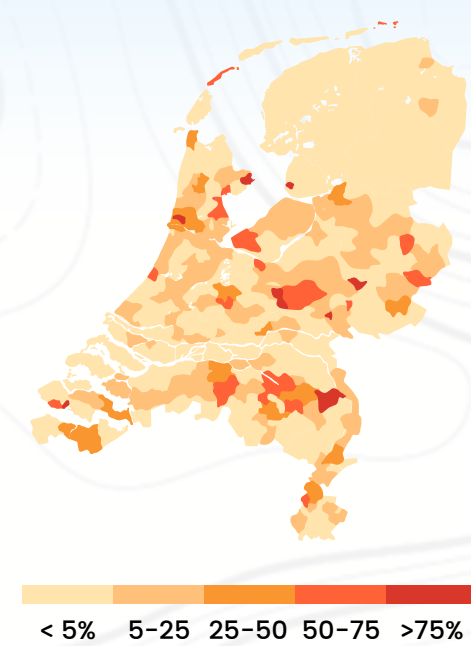
WATER CRISIS

Use of available water sources



PETRIFICATION

Extent of petrification (tiling)



CLIMATE CHANGE

Climate change amplifies these effects. Extreme weather increases. Half of the global population may be facing water scarcity or flooding.

Around **400 million** urban residents will be exposed to severe drought (by 2100).

Biodiversity is under attack, and decreasing worldwide.

