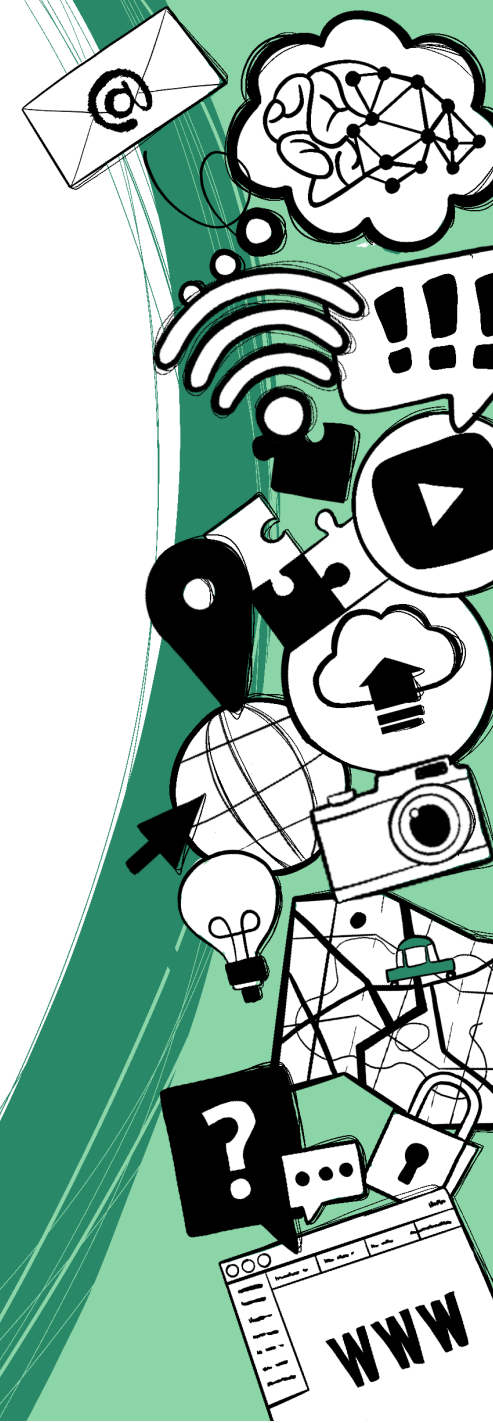# AI and Environment
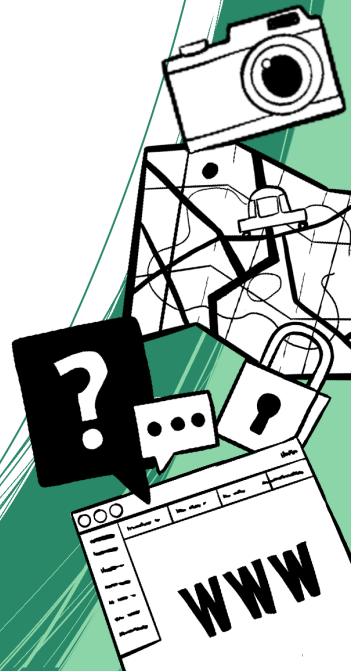# Climate Savior AI?

# Climate Savior AI?

- **Allegation:**

Energy and resource consumption in computer science is getting higher and higher

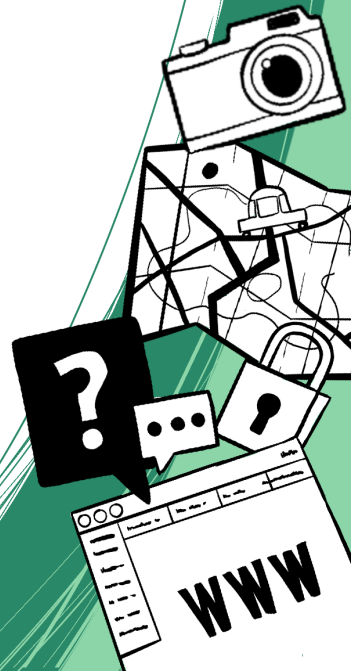- **E.g. Crypto Mining (generating virtual money)**

50 to 80 terawatt hours (TWh) per year are required

That's how much energy all six still active nuclear power plants in Germany generate per year!
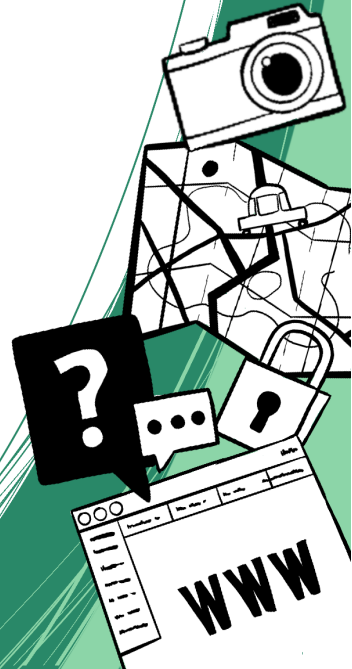
# Climate Savior AI?

But through the use of **AI applications** can also positive effects for the **environmental** and **climate protection.**
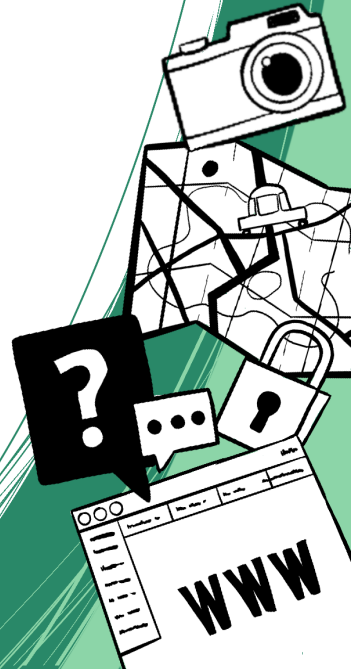
# Climate Savior AI? Examples

- **Thermostat in the Smart Home**

- Learns from the routines of the residents and adapts heating periods to the presences and absences

- Intelligent linking of weather data, forecast models and the actual heating data

# Climate Savior AI? Examples
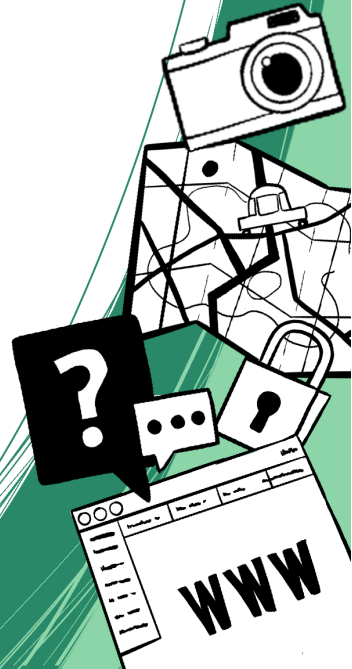
**Lane Keeping Assist**
**when driving**

Already energetically profitable if no accident is built by the assistant

# Climate Savior AI? Examples
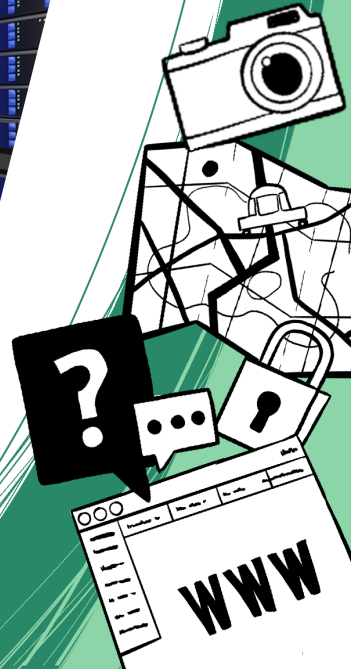
## smart **traffic control**

- Measure traffic flow using **mobile phone data** to **avoid traffic jams** and send them to affected drivers

- **Control traffic light controls** and **speed controls** by AI systems to save energy

# Climate Savior AI? Examples

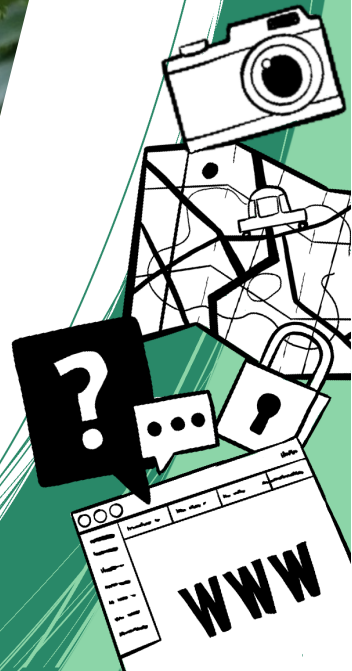**The intelligent control system Deepmind from Google**

- Reduces energy consumption by 40%

- Analysis of cooling systems to measure air pressure or temperature

# Climate Savior AI? Examples

## Smart Farming

- Fertilizers and pesticides can be used precisely with the help of AI

- Efficient field work and harvesting

- fewer pesticides, more accurate use of agricultural equipment

- 

# Practical input
# Idea lab "Green AI"

# Development of an intelligent application to save energy