

# An AI for Computing Carbon Footprints



# What's this all about?



**VS.**



# What's this all about?



VS.



- paper (wood)
- regular transport
- ...

- electricity (source?)
- plastic + metal parts
- electronic parts
- ...

# Envisioned Solution

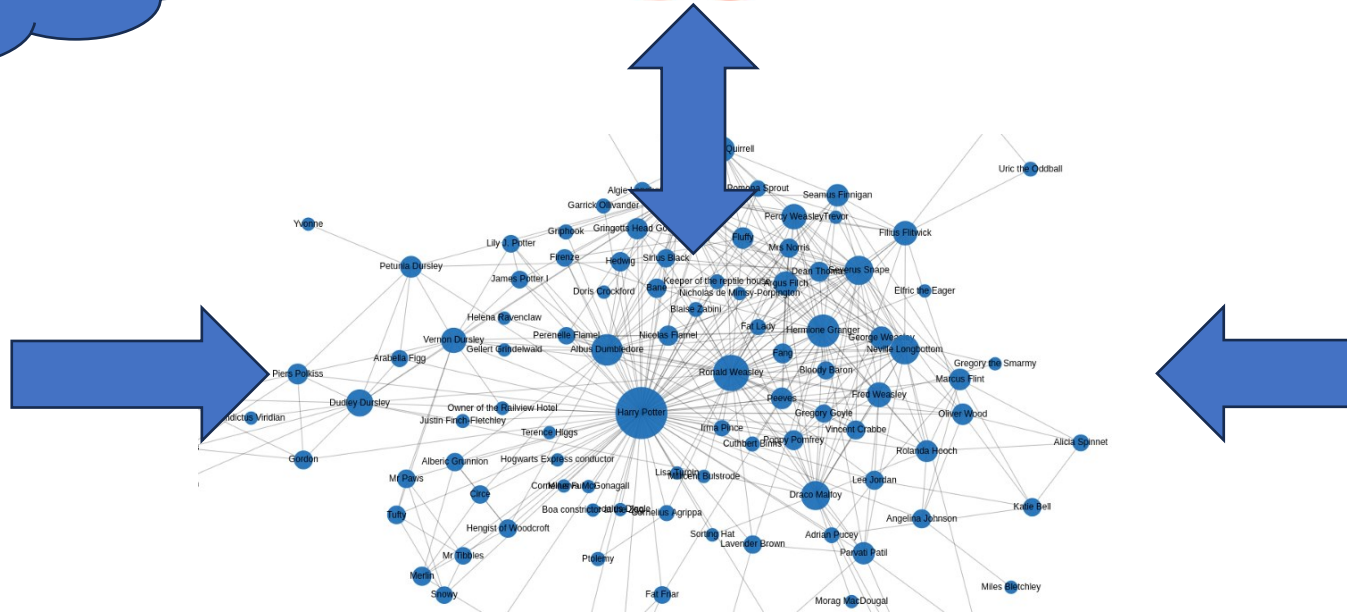
Inference Engine



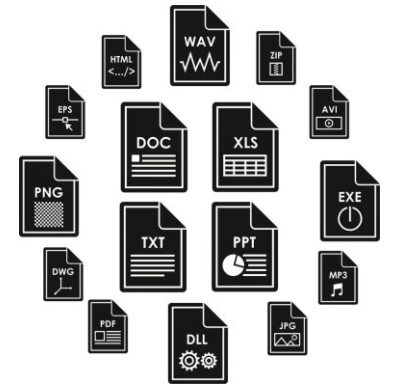
What is the carbon footprint of this?



Users



Knowledge Graph



- Product databases
- Carbon footprint lists
- ...

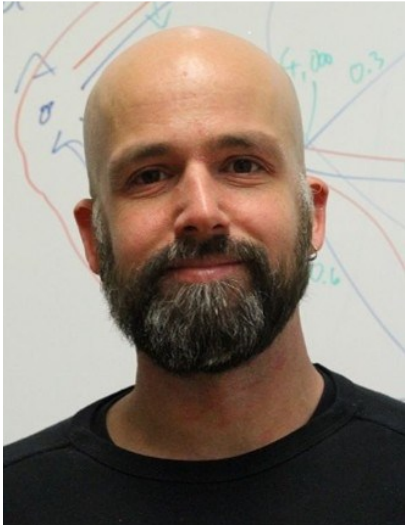


# Your Tasks & Challenges

- **Overall goal: Develop an AI that helps analyzing carbon footprint**
- Select a Use Case
- Collect suitable data sources
- Combine them in a knowledge graph
- Add inference on top
- Develop UI/Query Interface
- Run Evaluation



# Us...



Heiko Paulheim,  
DWS



Nicolas Heist,  
DWS



Sven Hertling  
DWS

# You...

...have attended a few AI related lectures, e.g.,

- ...Knowledge Graphs (mandatory)

- ...Data Mining, Machine Learning,  
Decision Support (would be a plus)

...are knowledgeable in programming

...want to work on a project with social impact!

