

AI AND CLIMATE

From Hype to Help



KI BUNDESVERBAND



19 of 20

hottest
years since 2001

0.99 °C

rise in average
temperature



KI BUNDESVERBAND



Every little degree counts
Every year counts
Every decision counts

1,5 °C globale warming – IPCC–Special Report, 2018



KI BUNDESVERBAND

Energy



Transport



Cities



Agriculture



KI BUNDESVERBAND

Gridhound GmbH

Making Grids Smart

- Automatically learns behavior of power distribution grids
- 95% reduction in necessary sensors for grid monitoring
- Recommendations on expansion of existing grids

Transmetrics

Redefining Logistics

- Forecasting and optimization of logistics planning and asset management
- 20% savings in operation costs, 8-10% in total transportation costs



KI BUNDESVERBAND

Agravis Netfarming

Precision Farming

- Combination of satellite data, soil samples, yield maps etc.
- Calculation of the perfect fertilizer composition
- Optimized spreading of seeds
- 10% increase in yield



KI BUNDESVERBAND

AI4Cities

Accelerating Carbon Neutrality

- Pre-Commercial Procurement Challenge
- Two Tracks: Energy and Mobility
- Acceleration of AI solutions to reduce CO2 emissions



KI BUNDESVERBAND

Rebound Effects

- More efficiency leads to more usage
- Energy usage in AI training and inference
- Data Scientists need to have awareness
- Frameworks for rebound effect evaluation



7-Points Plan

1. Extensive Data-Collection
2. Public availability
3. Sustainability Platforms
4. Industry sustainability ratings
5. Funding of sustainable projects
6. Innovation competitions
7. Minimization of negative effects



KI BUNDESVERBAND

Lucas Spreiter

✉ lucas@unetiq.com

in linkedin.com/in/lucas-spreiter

M medium.com/unetiq



KI BUNDESVERBAND



UNETIQ
The AI Agency