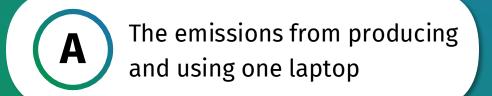


adesso

Antonia Buß

What do 200 kilograms of CO₂e represent...



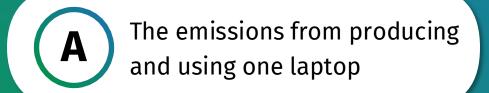
B The emissions from driving a car for about 10,000 miles

The annual cloud footprint of a large enterprise environment

The emissions from streaming
Netflix for one year

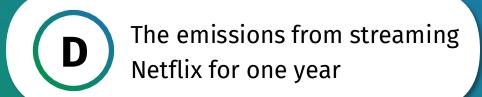
14/11/2025

What do 200 kilograms of CO₂e represent...



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14/11/2025





Research and development project on automated life cycle assessment of distributed software systems













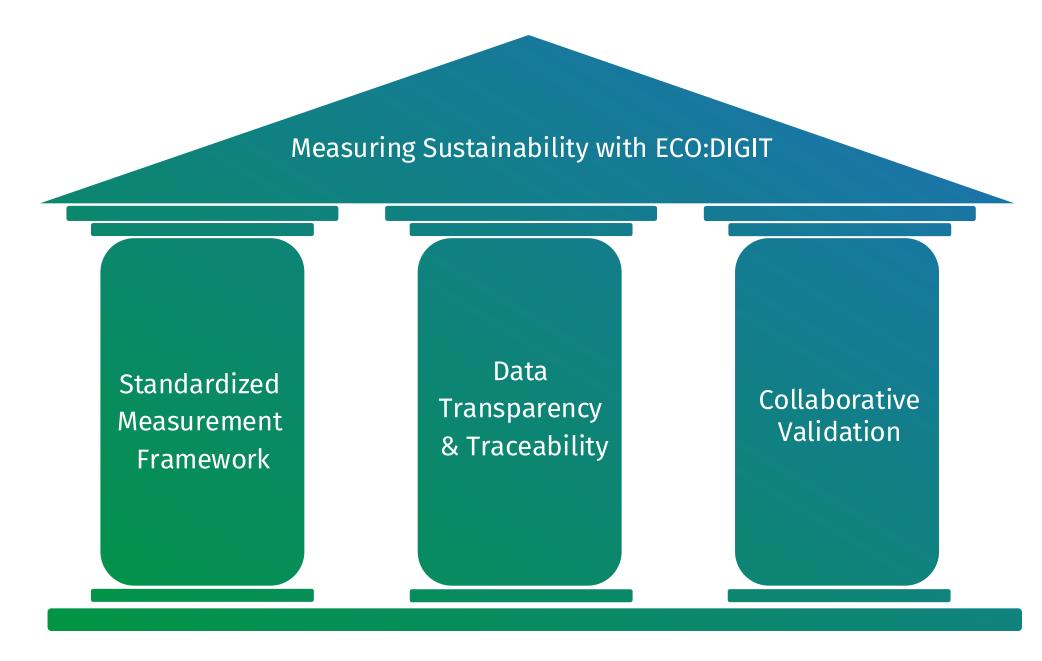




Gefördert durch:

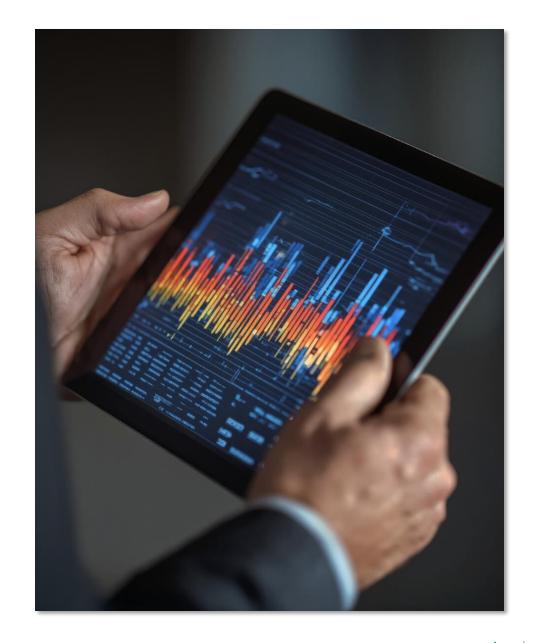


aufgrund eines Beschlusses des Deutschen Bundestages

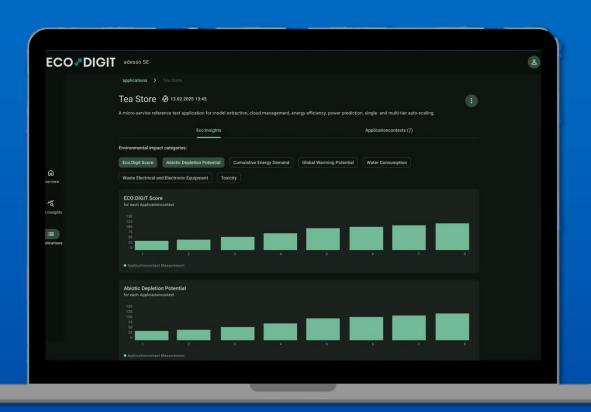


Standardized Measurement Framework

- Developed on a scientific foundation using Öko-Institut methodologies
- Provides a unified structure for environmental metrics, covering both the manufacturing and use phases of IT systems
- Covers key sustainability metrics: GWP, CED, ADP, and Water Consumption
- Enables automated, consistent, and comparable assessments across different infrastructures



Data Transparency & Traceability



- Ensures traceable and verifiable calculations across all system components
- Includes external validation by research partners
- Provides open documentation of methods, datasets, and emission factors
- Transforms black-box APIs into transparent, reproducible results

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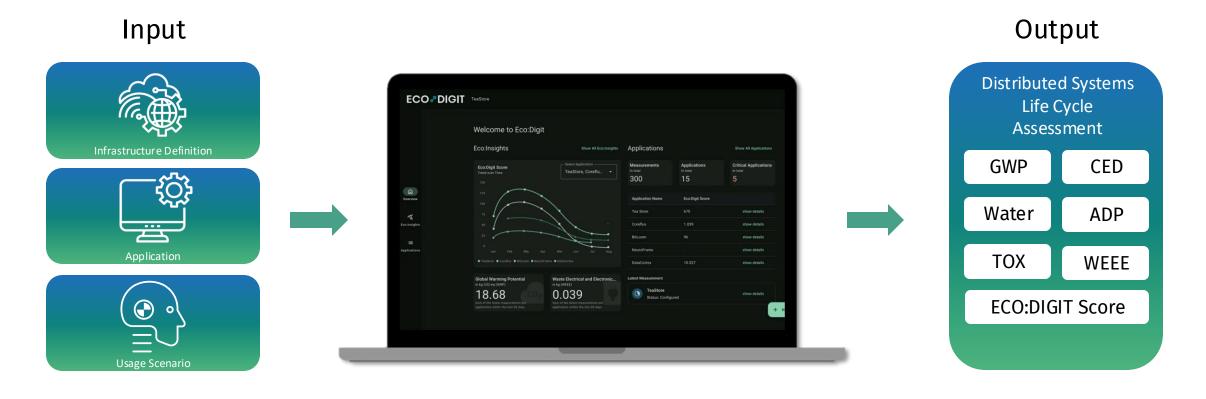
Collaborative Validation

- Involves friendly customers and research partners to test the framework in practice
- Validates measurement results under real-world conditions
- Translates insights into actionable recommendations for organizations
- Builds a shared understanding that connects ecological and economic perspectives

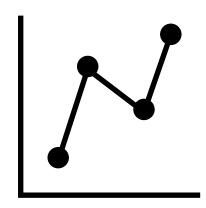


ECO J DIGIT

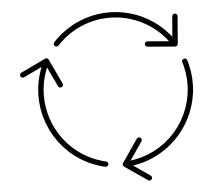
Enabling green COmputing and DIGItal Transformation



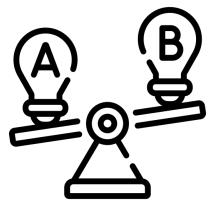
ECO:DIGIT x GreenOps Dashboard



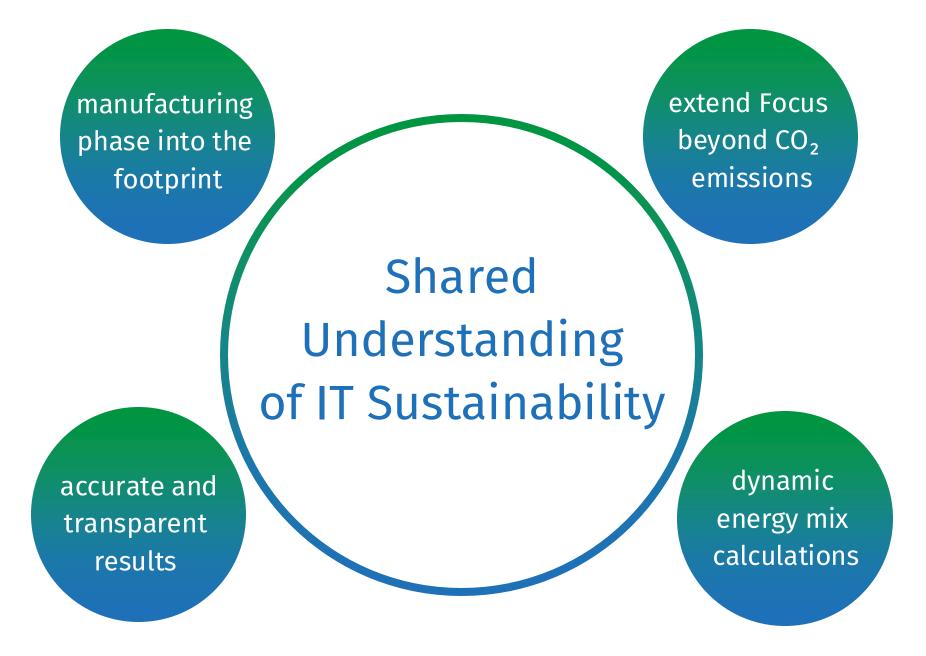
Collected real IT infrastructure data



Applied Öko-Instituts's LCA approach



Compared the results of the servers



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Sustainability in IT Needs Collaboration.





ANY QUESTIONS?

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Website from ECO:DIGIT

For more insights and project updates, visit our website



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