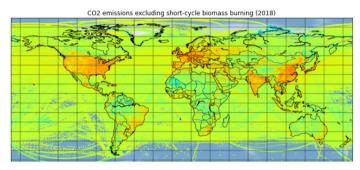


True Sustainability is Open



Emissions Database for Global Atmospheric Research

Acceleration

Climate change needs a massive acceleration of innovation in the next year to transform technology. The **open source movement has fast-tracked the most innovative areas** such as AI, robotics, cloud or blockchain.

Transparency and Trust

Sustainability is massively misused for marketing purposes. By publishing life cycle assessments, data sets and models, we can **create an open measure of what is actually sustainable**.

Collaborative

Openness enables organizations, individuals, and companies around the world to **participate in finding solutions together**.

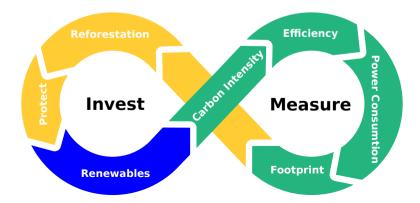


Continuous Carbon Cycle



Creating an open toolchain to measure and reduce the environmental impact of your organization.

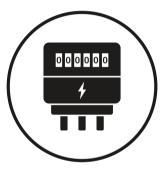
- Measure the power consumption and carbon intensity
- Estimate the efficiency within your work processes
- Create a public investment strategy to reduce your environment footprint
- Publish data, dashboard, roadmap and models of your impact
- Collaborative and open definition of standards based on software tools





Open Climate Pledge

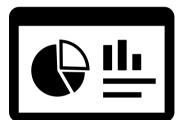
Impact Measurement





- Biodiversity
- Power consumption
- Energy efficiency
- GHG emissions
- Ecostress
- Assessment of buildings for renewables











Software Models

- CO₂ intensity
- Energy mix
- CO₂ per tree
- Social impact

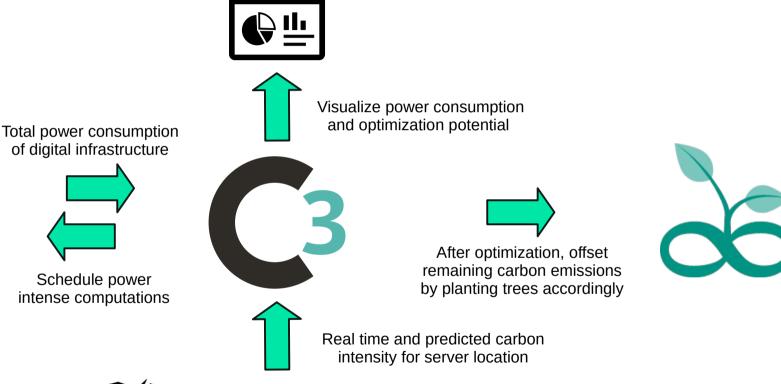
Invest and Act



- Optimize energy efficiency within your company
- Invest into renewable energy
- Invest into protection and recovery of nature



Minimal Viable Product







Open Core Ecosystem



Open Core Business Models



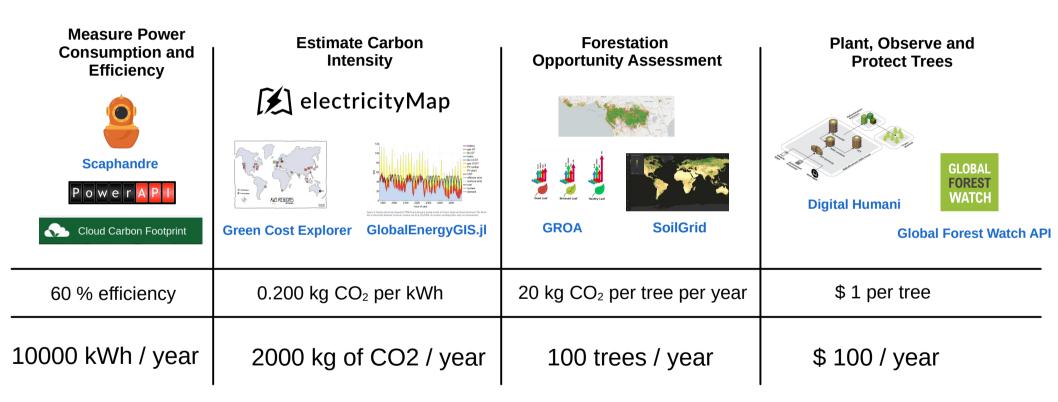
Open Toolchain and Knowledge Base



Independent Support, Consulting and Application

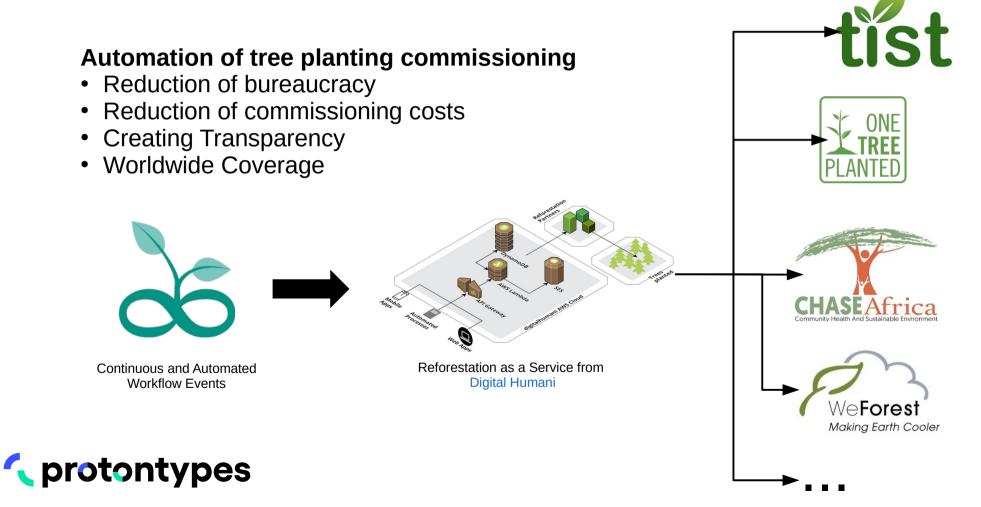


Assessment of Digital Infrastructure





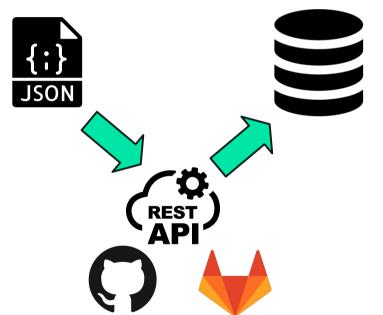
Continuous Reforestation

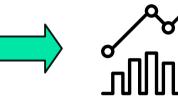


Measuring Sustainability in Open Source



- Links on OpenSustain.tech point directly to Git repositories of the projects.
- All markdown files for creating the OpenSustain.tech website are checked by an "awesome list" linter to enable automated processing.

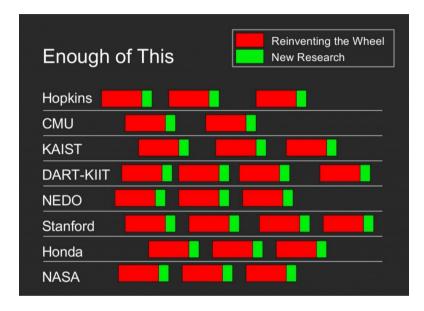




- Code quality
- Health score
- Activity score
- Involved organizations
- Popular dependencies
- Total contributors
- License
- Topic relations
- ...



Overcoming Complexity through Modularity



The origin of the Robot Operating System (ROS)

"The Unix philosophy emphasizes building simple, short, clear, modular, and extensible code that can be easily maintained and repurposed by developers other than its creators. The Unix philosophy favors composability as opposed to monolithic design". Wikipedia





Open Sustainable Technology

Q Search



Technology

Community

usiness

Contribute

Renewable Energy

Photovoltaic and Solar Energy

Wind Turbines

Hydro Energy

Geothermal Energy

Bioenergy

Energy Storage

Battery

Hydrogen

Energy Distribution and Grids

Energy Consumption and Efficiency

Buildings and Cities

Mobility and Transportation

Production and Industry

Computation and Services

Energy System Assessment

Modeling

Open Sustainable Technology

A curated list of open technology projects to sustain a stable climate, energy supply, and vital natural resources.

"True sustainability is open." - protontypes

Our ambition is to list all sustainable, open and actively maintained technology projects worldwide. Your contribution is necessary to keep this list alive, increase the quality and to expand it. Read more about its origin and how you can participate in the contribution guide, community chat, presentation slides and related blog post. Please contact us to give feedback, hints and ideas for OpenSustain.tech or create an issue.







protontypes

Transparency and Trust by Openness

Open Knowledge Evolution

Open Business Models

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