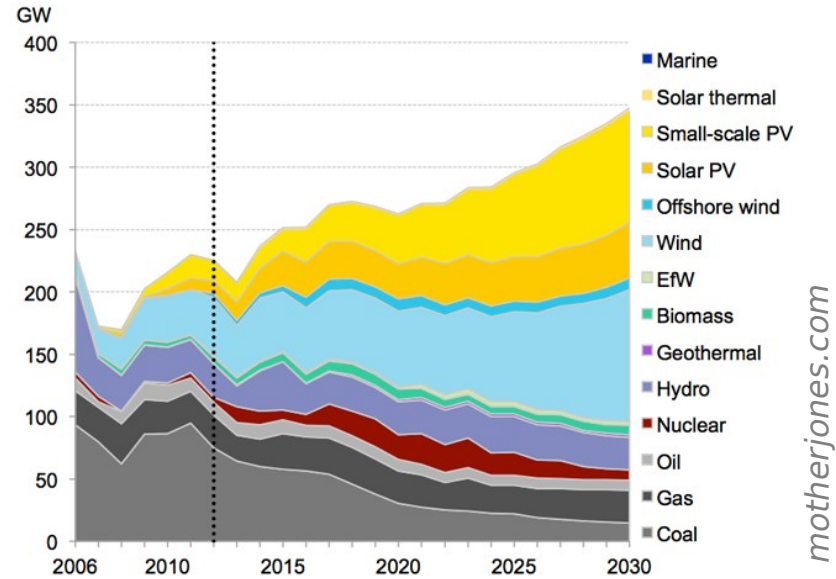
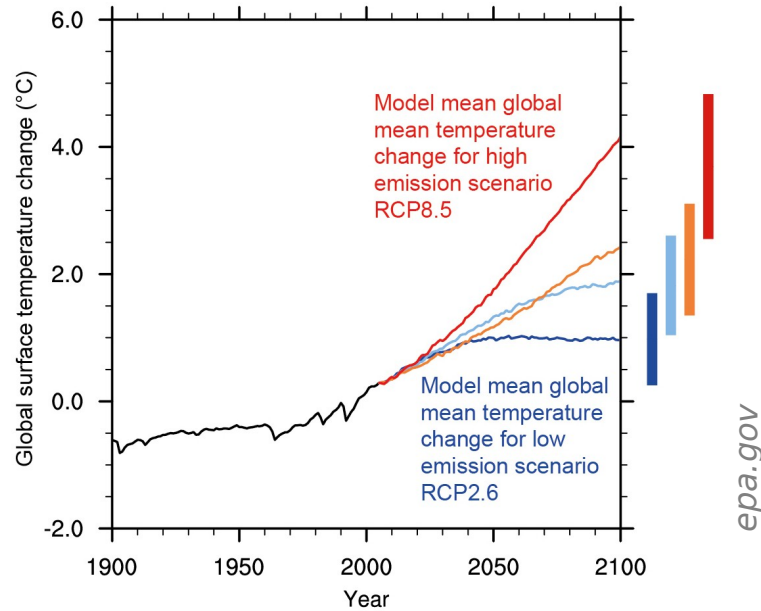




## **Standing on the Shoulders of Giants**

***„Independent and open technology gives us a real chance to reach global climate targets“***

# A Challenge in Cooperation

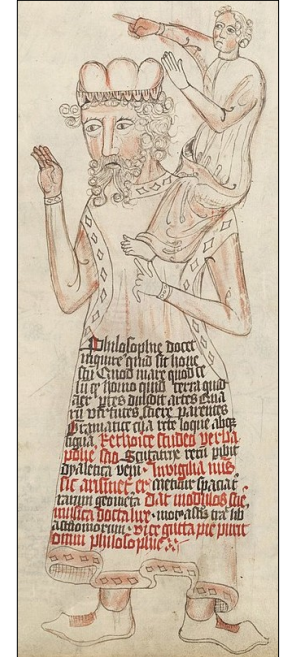


How can we spread knowledge, accelerate innovation and increase cooperation in sustainable technologies?



# Standing in the shoulders of giants

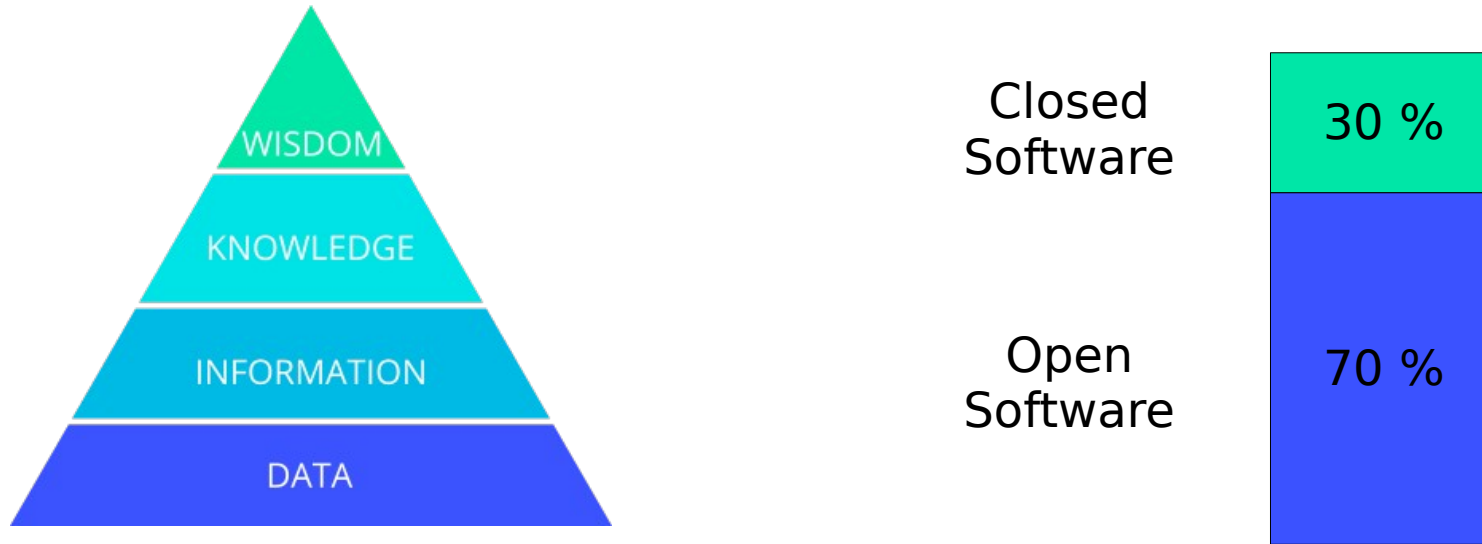
- ♦ 70 % of the worldwide code base is based on open source [1]
- ♦ Fast Innovation in Software Development
  - Cloud Computing [2]
  - High Performance Computing and Big Data [3]
  - Artificial Intelligence [4]
  - Robotics [5]
  - Web Technology [6]
  - Blockchain [7]
  - Embedded Operation Systems [8]



*"If I have seen further it is by standing on the shoulders of Giants."  
- Isaac Newton*

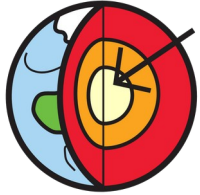
Wikipedia

# Why is Modern Software Development so Innovative?



Cooperative development methods in software development are so successful today because the complexity and knowledge cannot be managed in one organization.

# What is the Secret of Open Cooperation?



Open Business  
Models [1]



Open Standards  
and Data



Inner Source -  
Open Source Culture  
within Organizations [2]



Open  
Community

The key is to convince companies and institutions to cooperate in developing sustainable technologies using open methods.

# Truly Sustainable means Open

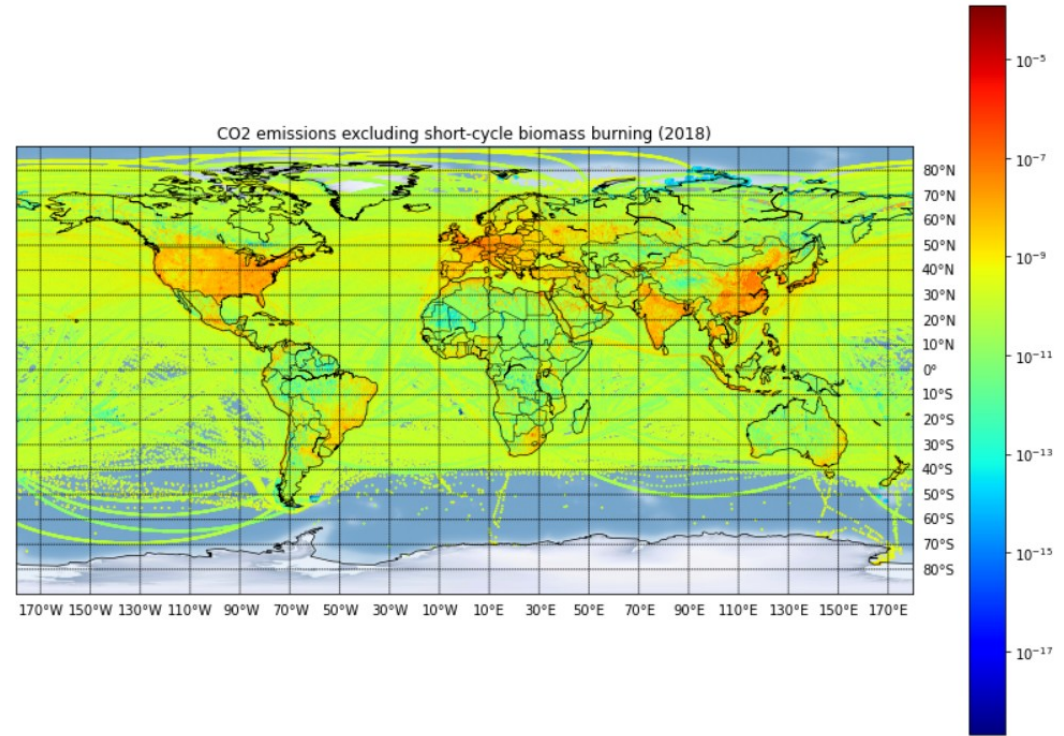
Only by involving technology worldwide the impact of climate change can be reduced in the long term.



Open cooperation and development methods have shown fast acceleration of nearly all knowledge based industries.



Independent and open technology gives us a real chance to reach global climate targets.





# Mapping Open Sustainable Technology

## **Open source projects sustaining stable climate, energy supply and vital natural resources**

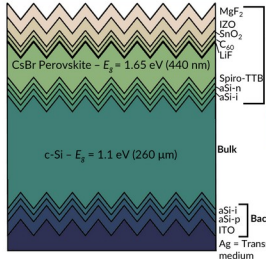
- Provision of the first global list mapping of all sustainable, active and open technology projects.
- Everyone can contribute, discuss and extend the list.
- All projects are free, open and sustainable for professional usage.



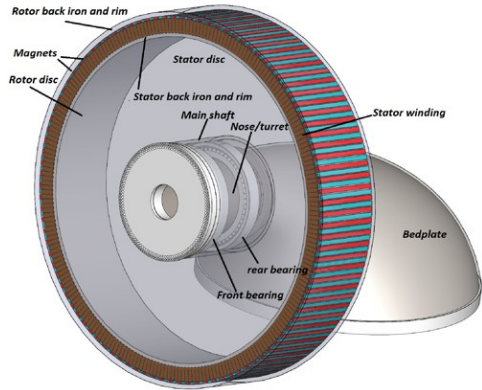
Artwork by Eleanor Lutz

Awesome List

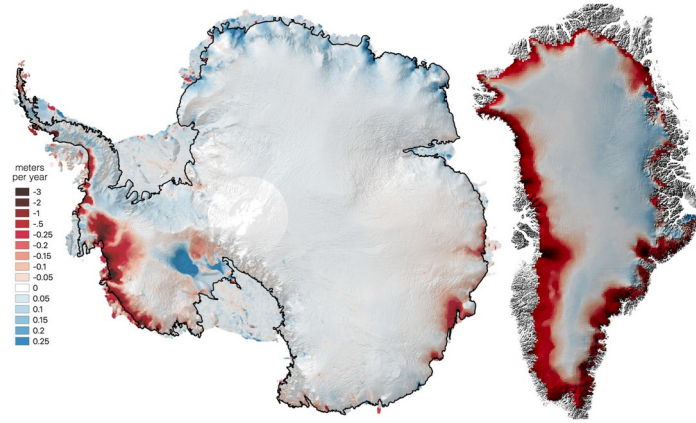
# Finding Hidden Gems



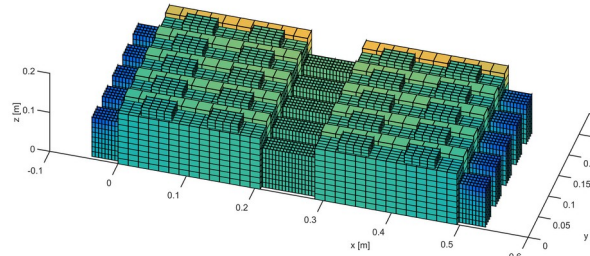
Raytrace Modelling in PV



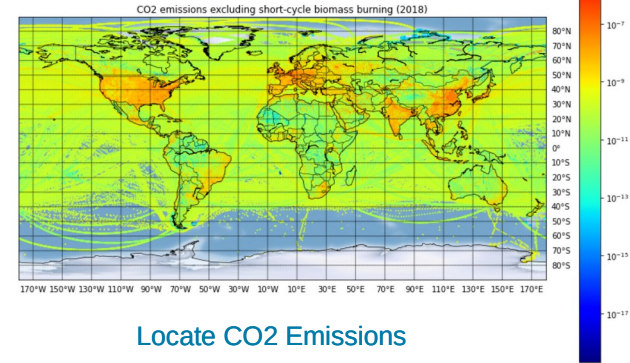
Reference Turbine Standards and Construction Plans



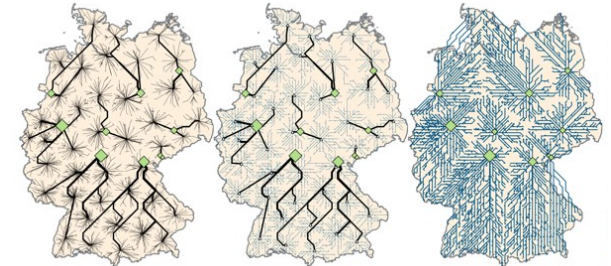
Monitoring the poles



Coupled Electrical-thermal simulations of battery systems



Locate  $\text{CO}_2$  Emissions



Hydrogen Infrastructure Model



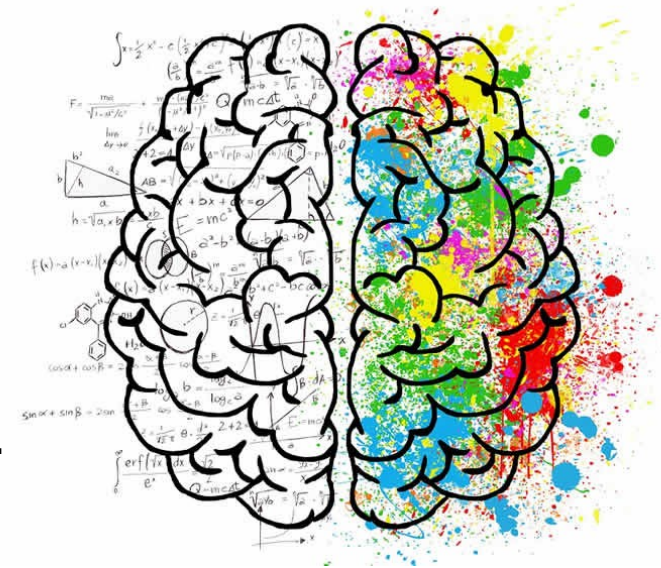
# Open and Automated Funding Pool

- prototypes will provide a globally transparent and open funding pool for sustainable technology.
- Projects on the list will have the opportunity to apply for continuous funding.
- LibreSelery will distribute the donations on the list selectively and randomly.



# What can you contribute?

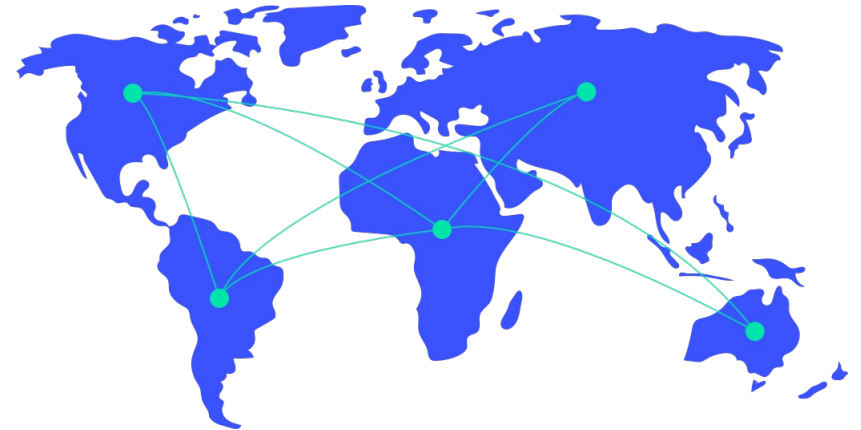
- ♦ Don't use patents, but license smartly
- ♦ Talk about the power of open technology
- ♦ Use open technology
- ♦ Donate to projects
- ♦ Write source code, report and fix bugs, add features, ...
- ♦ Create and label datasets
- ♦ Create communities



**Don't be afraid to share knowledge. Learn how to build open business ecosystems.**

# Our Mission

- ♦ Building and empowering communities around sustainable innovation.
- ♦ Providing simple and direct donation distribution to developers.
- ♦ Consulting in open business models and strategies in research and industry.
- ♦ Initiating innovative ideas and concepts.







**Thank you for your attention!**  
**We look forward to your**  
**questions and feedback.**



Contact us:

- Tobias Augspurger: [tobias.augspurger@protontypes.eu](mailto:tobias.augspurger@protontypes.eu)
- Tjark Döring: [tjark.doering@protontypes.eu](mailto:tjark.doering@protontypes.eu)