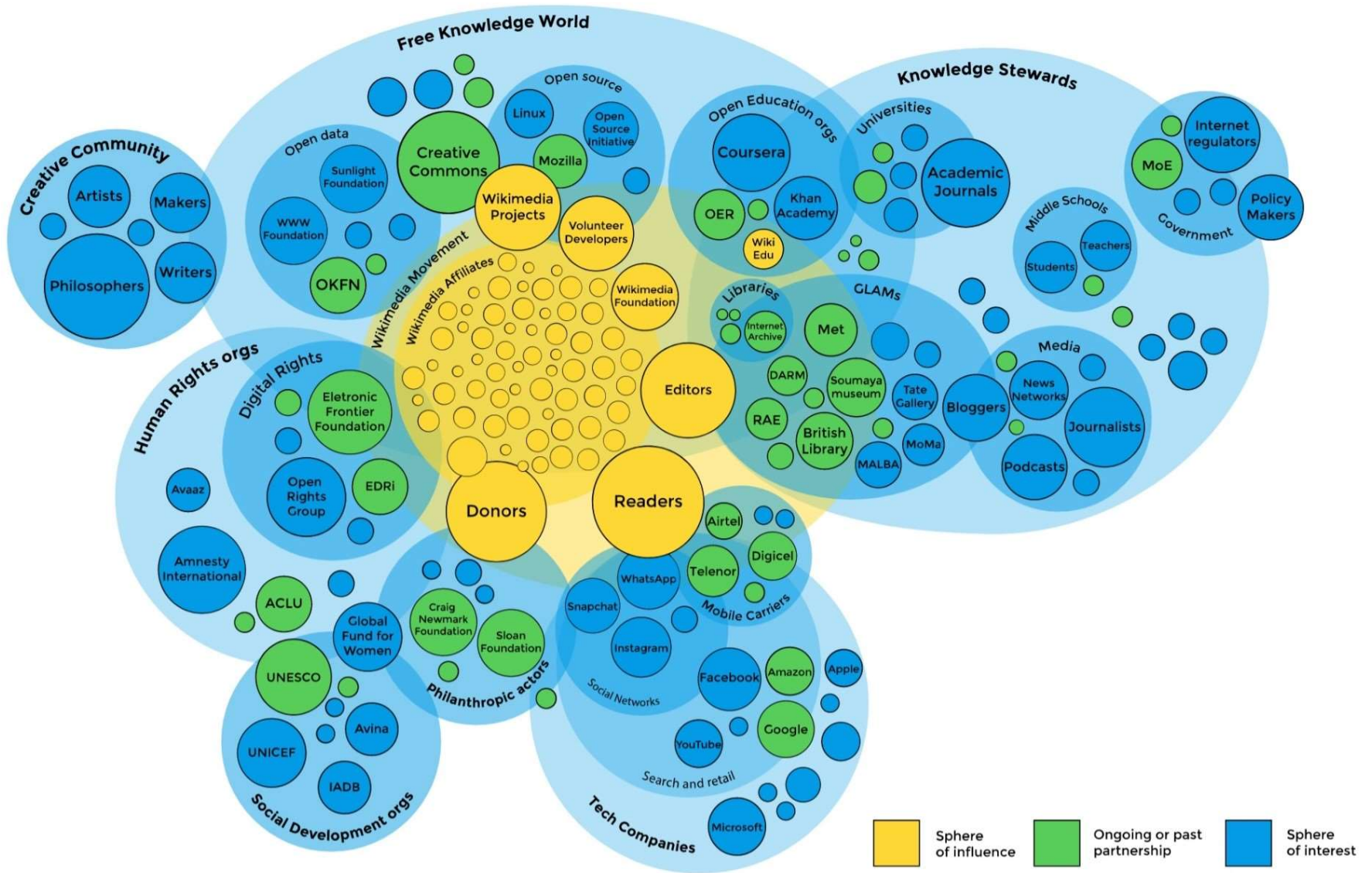
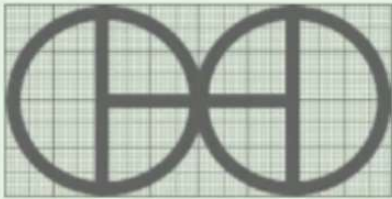


Open Source Hardware: Mit Wikipedia zu einer nachhaltigeren Welt

WikiCon 2021
Dietrich Jäger, OHO e.V.
Rudolf Simon, Wikipedia







OPEN HARDWARE OBSERVATORY

Free Blueprints for Sustainable Development

- www.oho.wiki (OHO) is a web platform that supports, improves and makes known Sustainable Open Hardware Projects.
- OHO was founded with the support of the Technical University of Berlin.
- OHO consists of the CAD Center, Certification Center and Search Engine.



Contents

1. Why does OHO exist?
2. Vision
3. Goals
4. OHO Search Engine
5. OHO CAD Center
6. OHO Certification Center
7. Achievements and next steps

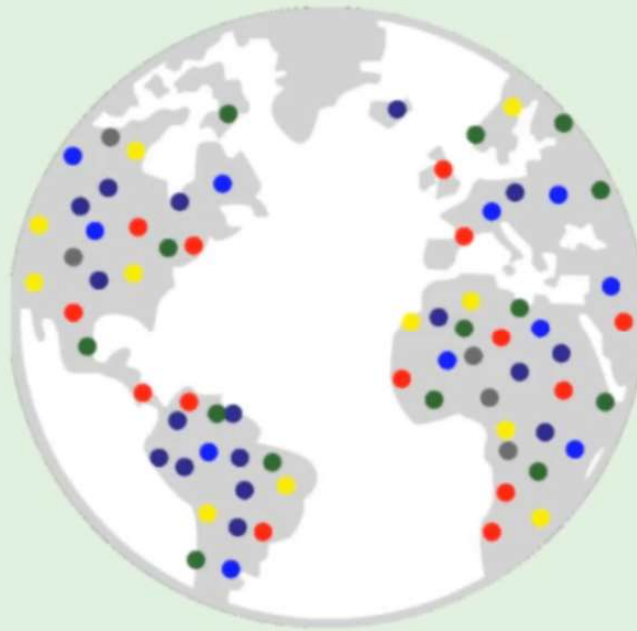


There are many thousands of excellent Do it Yourself and Open Hardware projects worldwide

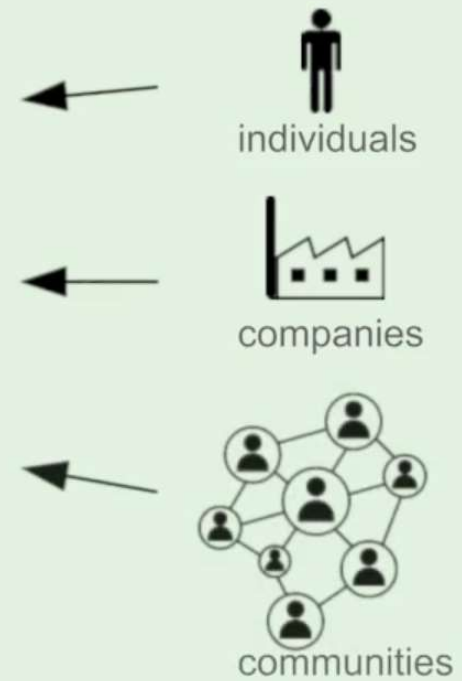


They offer lots of different solutions for sustainable development

- Renewable Energy
- Environmental technol.
- Health
- Small industries
- Agriculture
- Other



They are developed by:



They can help to create new startups and small enterprises

More than 75% of all employees worldwide work in small enterprises (ILO 2019)



startups,
micro enterprises



small enterprises,
medium enterprises



The Vision

- Wikipedia makes free encyclopedic knowledge available to everyone
- OHO wants to contribute that this will happen also with technical knowledge



Some numbers:

- The Wikipedia community has created more than 50 millions articles
- 100 Open Hardware (OH) projects cover >50% of the demand for decentral renewable energy technologies
- 500 OH projects cover >50% of the demand for basic medical technologies
- 2000 OH projects cover >50% of the demand for technologies for small enterprises and circular economy

We think this can be done – let's try it!

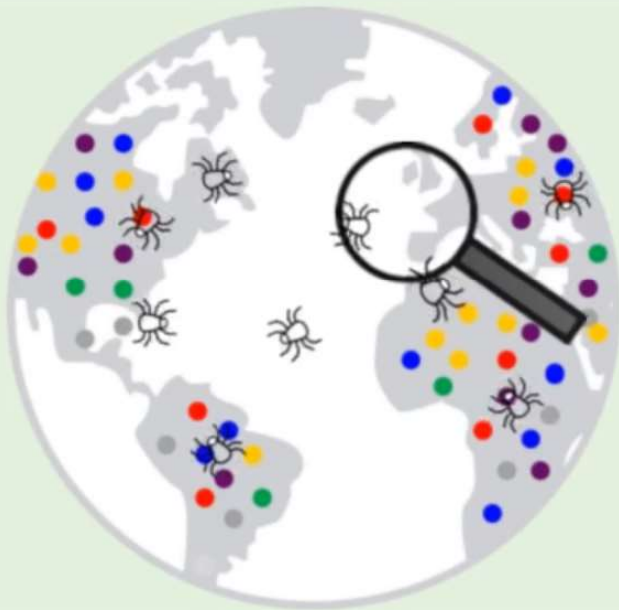
What are the goals of OHO?

1. Find good projects anywhere in the world
 - > OHO Search Engine
2. Create blueprints and parts lists of selected projects
 - > OHO CAD Center
3. Certify selected projects
 - > OHO Certification Center
4. Promote the projects and make them known worldwide
 - > Cooperation with Wikipedia, Youtube, Social Media...

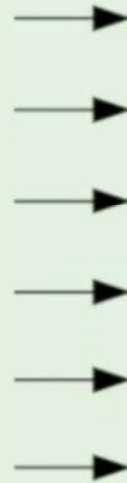


The OHO Search Engine

Crawls the Web



Selects and categorizes the search results

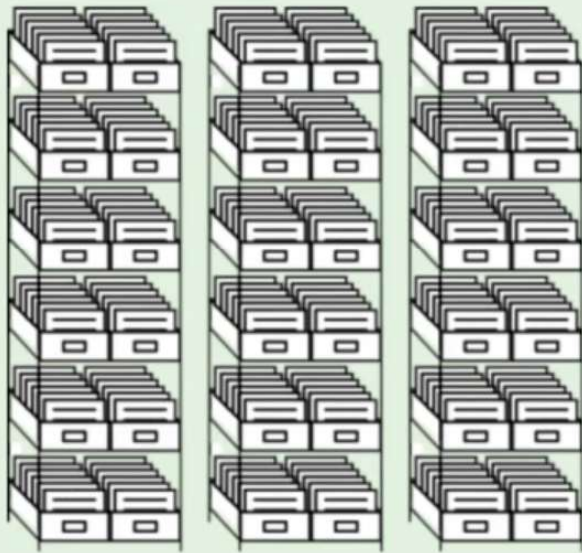


- Renewable energy
- Environmental technol.
- Medical technologies
- Small industries
- Agriculture
- Other



OHO Search Engine

Stores in databases, indexes



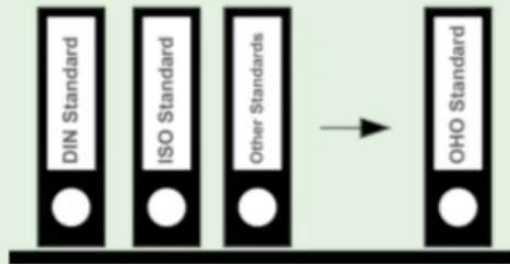
OHO Website

- search result 1
- search result 2
- search result 3

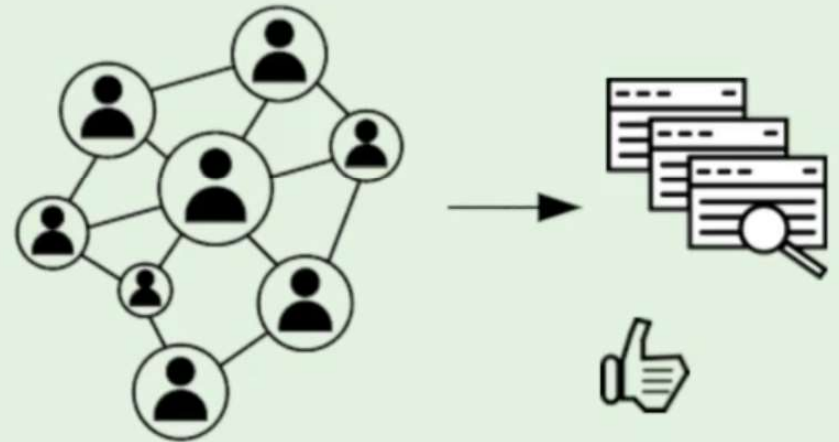
...

OHO CAD Center

The OHO Team developed appropriate standards for Open Hardware:

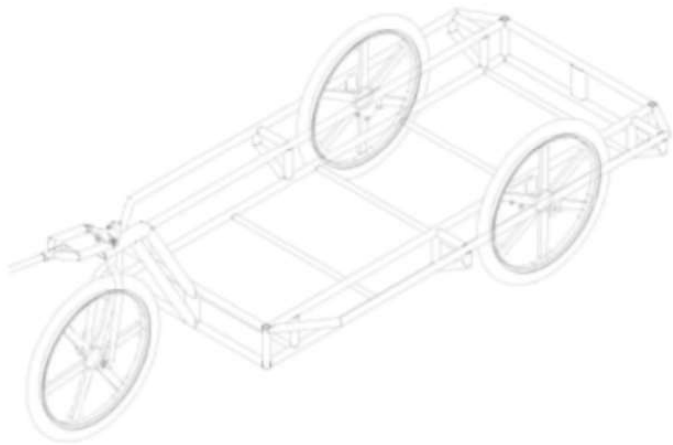


The OHO Community selects excellent projects



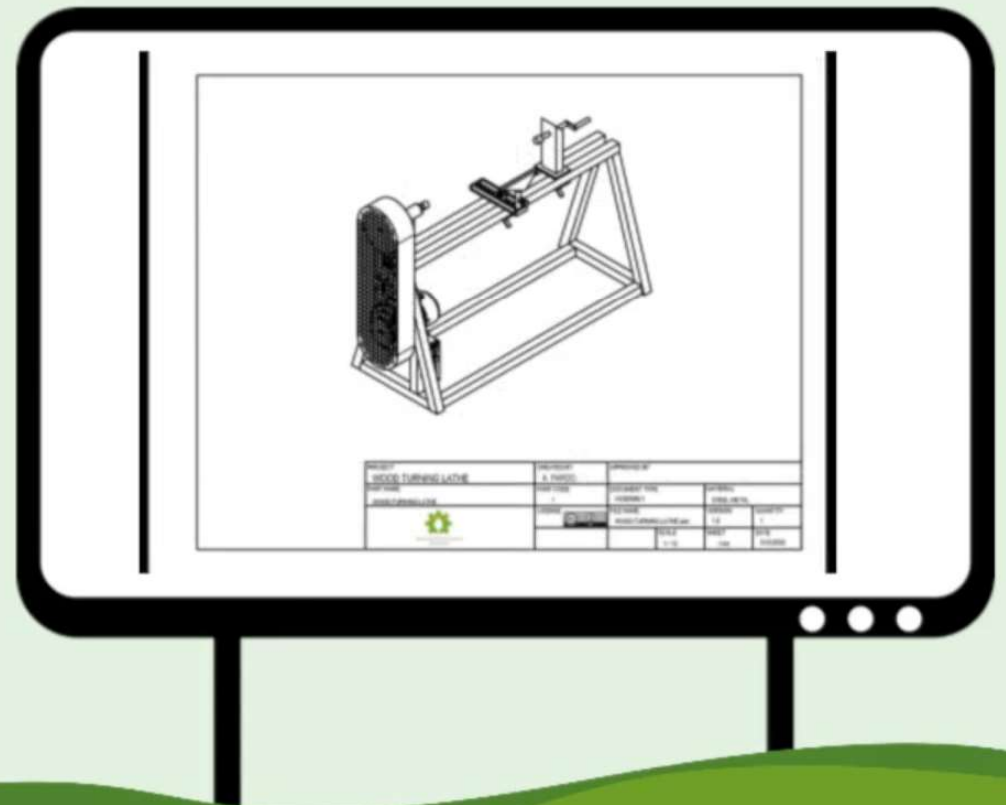
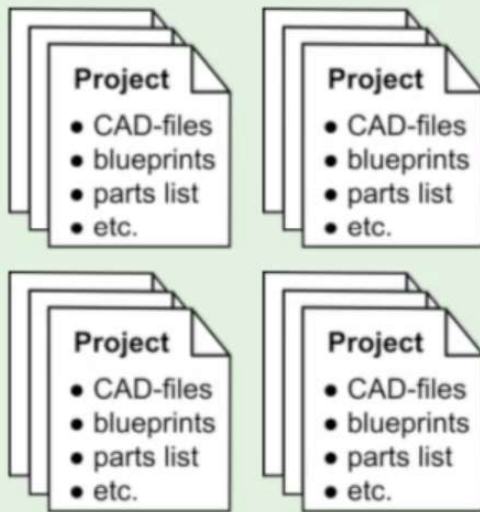
OHO CAD Center

Experienced engineers
create blueprints and parts lists



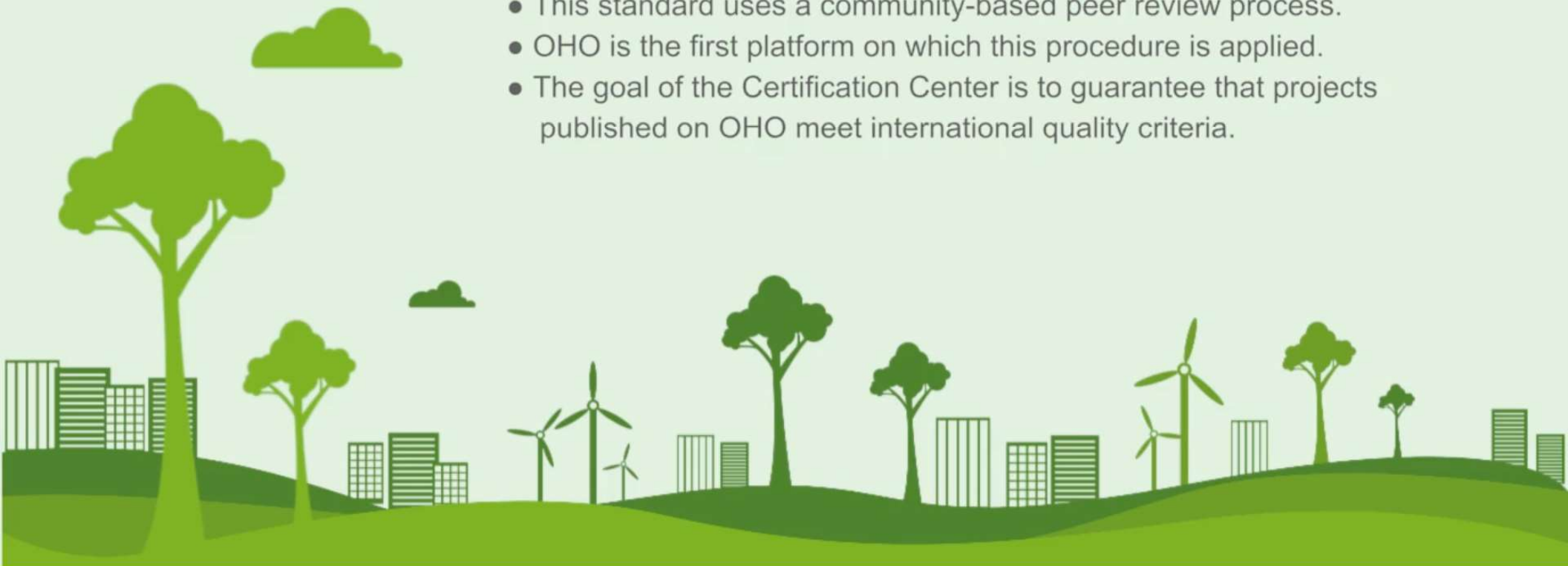
OHO CAD Center

At the end of 2020 we have started to realize the first CAD projects



OHO Certification Center

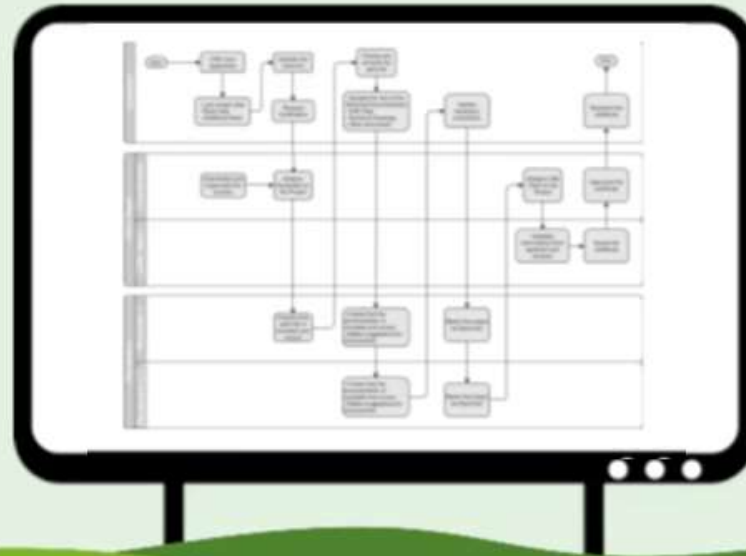
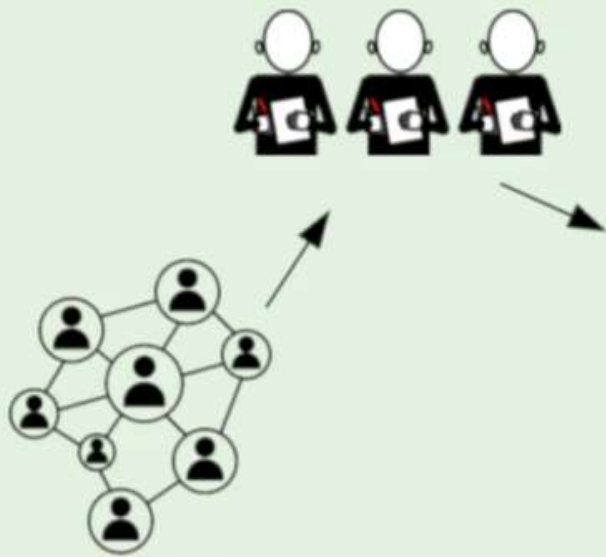
- Until 2020, there were no technical standards for Open Hardware.
- In 2020, the world's first standard for Open Hardware DIN Spec 3105 was developed by members of the OHO Team.
- This standard uses a community-based peer review process.
- OHO is the first platform on which this procedure is applied.
- The goal of the Certification Center is to guarantee that projects published on OHO meet international quality criteria.

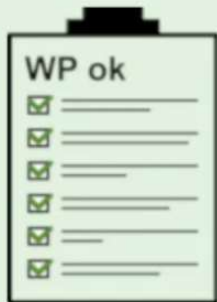


OHO Certification Center

The OHO community selects two or more reviewers

The reviewers examine the project





Working packages completed in 2019/2020

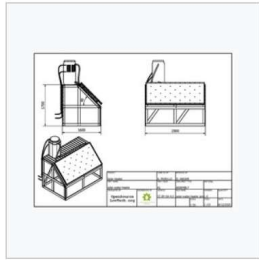
- Development of the OHO Search Engine and the collaboration platform
- Cooperation in the development of DIN Spec 3105
- Development of the OHO Certification Platform
- Development of the OHO Standards for Technical Documentation
- Development of a reverse engineering process based on videos
- Acquisition of the first grants
- Creation of the OHO CAD Centre with experienced engineers
- Realization of the first 20 projects using OHO standards



Working packages planned

- Creation of Open Hardware Equipment for: open workshops and fablabs, apprentice workshops, workshops for disabled people, community kitchens, medical stations, small textile enterprises for woman, small recycling companies and small companies which produce protheses, wheelchairs, walking aids, food processing machines, small agricultural machines and much more ...
- we are looking for persons who want participate in the first Coordination Meeting OHO-Wikipedia:





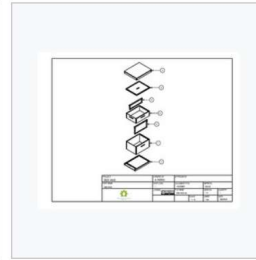
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Seiten; 584 KB



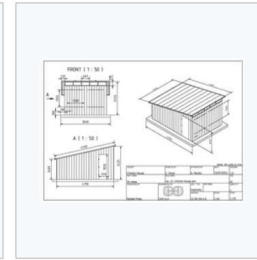
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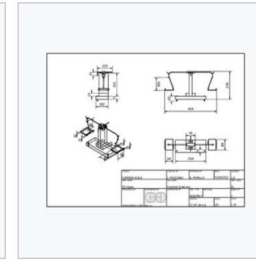
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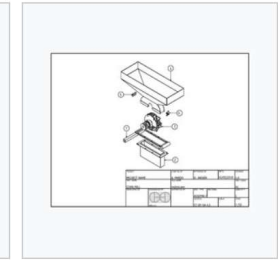
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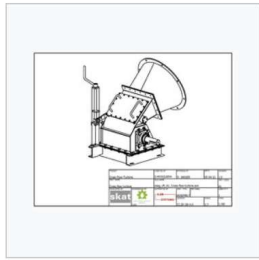
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OHO Common-scale.pdf
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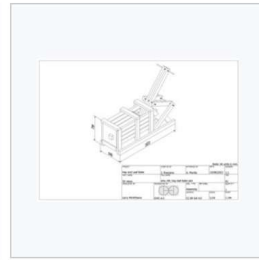
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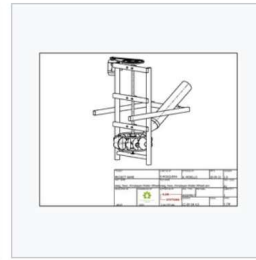
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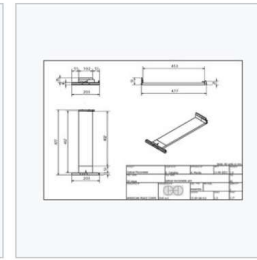
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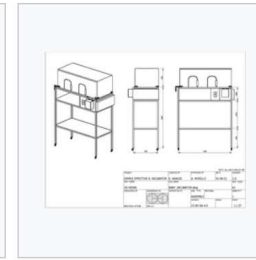
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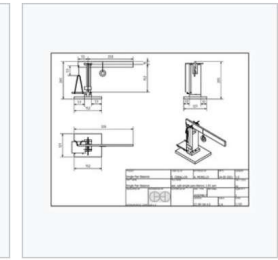
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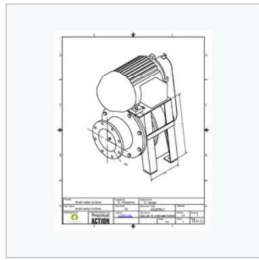
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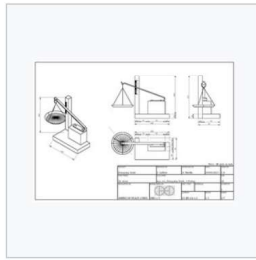
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Seiten; 1,2 MB



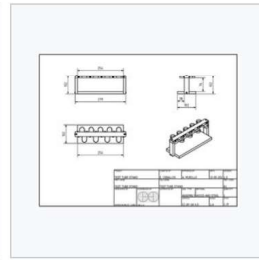
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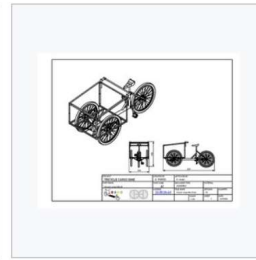
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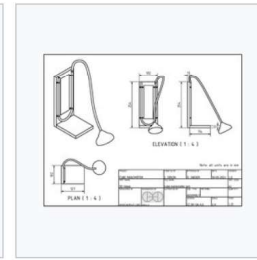
OHO Strapping-



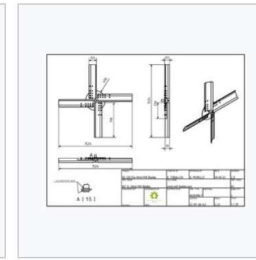
OHO Test-tube-stand.pdf



OHO Tricycle cargo



OHO Tube-



OHO Wind mill



OHO Wind mill pump.pdf



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Die freie Enzyklopädie

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Neuen Artikel anlegen
Autorenportal
Hilfe
Letzte Änderungen
Kontakt
Spenden

Werkzeuge
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verlinkten Seiten
Datei hochladen
Spezialseiten
Permanenter Link
Seiteninformationen

Drucken/exportieren
Als PDF herunterladen
Druckversion

Sprachen

RudolfSimon Diskussion Einstellungen Beta Beobachtungsliste Beiträge Abmelden

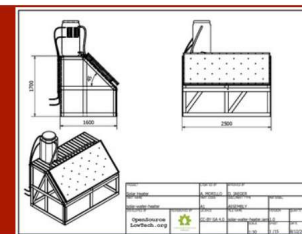
Projektseite Diskussion Lesen Quelltext bearbeiten Versionsgeschichte Weitere

Wikipedia:OHO

Aktuell Termine Content Archiv Teilnehmende



Wikipedia:OHO



Wikipedia OHO bietet für angemeldete Benutzer einen [Videokonferenzraum](#), der immer geöffnet ist. Diesen kannst du jederzeit besuchen, dich dort mit anderen verabreden oder an Veranstaltungen teilnehmen. Außerdem steht allen Interessierten permanent ein zweiter Raum auf [wonder.me](#) zur Verfügung, bei dem die Teilnehmenden sich in Gruppen aufteilen können.

Herzlich willkommen bei Open Hardware Observatory!

- Hier werden alle Aktivitäten der OHO-Interessierten koordiniert. Eingeladen sind alle Interessierten an Wikipedia und Open Hardware.
- Aktuelle Termine findest du auf dieser Seite, zukünftige sind unter **Termine** aufgelistet.
- Interessenten bitte unter **Teilnehmende** finden und eintragen!
- Inhaltliche Beiträge bitte unter **Content** finden und einstellen!

Kategorie (+⁺): [Open Hardware Observatory](#) (-) (±) (↓) (↑) | (+)

Versteckte Kategorie: [Wikipedia:Wartung/Shortcuts](#)