

The CERN OHL

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CERN OHL: background

- CERN: Intergovernmental Organisation, with mainly European membership, but worldwide participation
- Knowledge transfer: maximise dissemination
- Open Hardware Repository (Javier Serrano):
- Create framework for collaboration among research institutes and beyond
- Make available designs and documentation for modification/redistribution by all
- http://www.ohwr.org

Options:

- Open Source Software licence, e.g. GNU GPL
- Open Content licence, e.g. GNU Free Documentation Licence, Creative Commons
- Open Source Hardware licence, e.g. TAPR, e-Puck



- Initially drafted to address CERN-specific concern
- Tracing impact of our research

CERN OHL: facts and figures

- Taking into account our status and constraints
- Current form makes it usable by anyone
- Principles of the CERN OHL similar to GPL open source software licence



Considering using CERN OHL

TI August 2011

Knowledge Transfer



Sufficiency fac. - Sofficiency Nutual Aid Furein, USA
 © Worm Farm turns shredded paper and waste faul and vegetables into high quality organic fertilizer, with the help of figer worms.

OF Eighter! (August 2011)

 Open hardware and open source comera designed by Eightel Inc. primarily for openitive applications. Eightel gameras are being used to cookure images for Google Street View and the Google Sooks project and pre-sided in a Clobal Hawk UAV operation by NASA.
 Object is well-greate.

CERN OHL: main features

Set of definitions

Applicability

Documentation and products

Warranty and liability

Not software

Documentation: permitted uses and conditions

- Use, copy, distribute;
- · Modify, subject to certain conditions
 - Keep notices and disclaimer of warranties;
 - Make clear that the Documentation was modified;
 - License modifications under same conditions (CERN
 - Notify Licensor of modifications
- · Licence to patents owned by Licensor included

Manufacturing products

- Manufacture
- · Distribute products, subject to certain conditions
- Together with Documentation
- Comply with same obligations that apply to Documentation
- · Inform Licensor



General

Knowledge Transfer

OSHW definition

Documentation

Scope

Necessary software

Derived works

Free redistribution

Attribution

No discrimination against persons or groups

No discrimination against fields of endeavor

Distribution of licence

Licence must not be specific to a product

Licence must not restrict other hardware or software

Licence must be technology neutral



OSHW definition

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"preferred format for making changes"

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Knowledge Transfer

OHANDA

Freedom 0: The freedom to use the device for any purpose.

Freedom 1: The freedom to study how the device works and change it to make it to do what you wish. Access to the complete design is precondition to this.

Freedom 2: Redistribute the device and/or design (remanufacture).

Freedom 3: The freedom to improve the device and/or design, and release your improvements (and modified versions in general) to the public, so that the whole community benefits. Access to the complete design is precondition to this.



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Knowledge Transfer

CERN OHL: points under discussion

- 1. Definition of Documentation
 - Must include the 'source' of the hardware, i.e. preferred form for making modifications
- 2. Notification of changes (s.3.3.d)
 - Version control systems impractical? not in spirit of licence?
 - Modify definition of "Modifications"?
 - · Requirement vs. request; reasonable efforts

http://www.ohwr.org/projects/cernohl/wiki/CernOhlIdeas



Open Hardware Workshop

- ICALEPCS (http://icalepcs2011.esrf.eu/)
- Grenoble
- October 9, 2011
- http://www.ohwr.org/projects/ohr-meta/wiki/OHWorkshop

