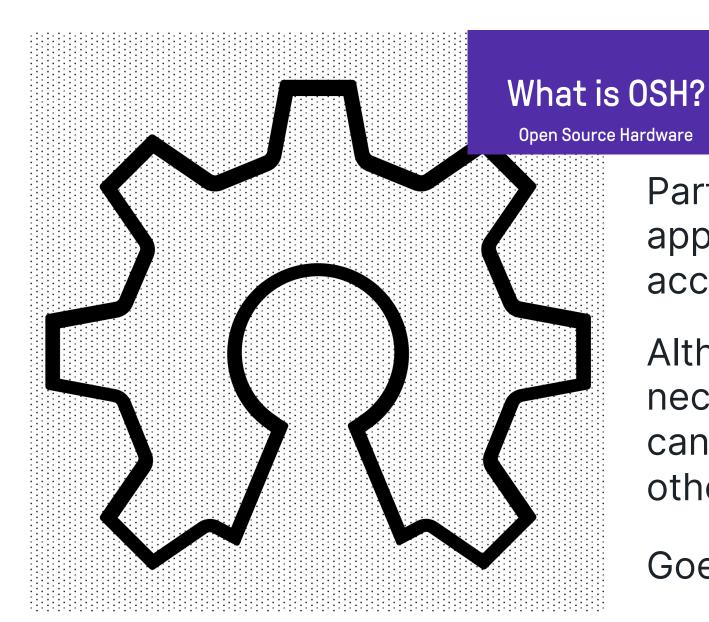


## Open Source Hardware as a business model

David Zovko



Part of open-movement, to be applied on hardware, make it accessible to everyone

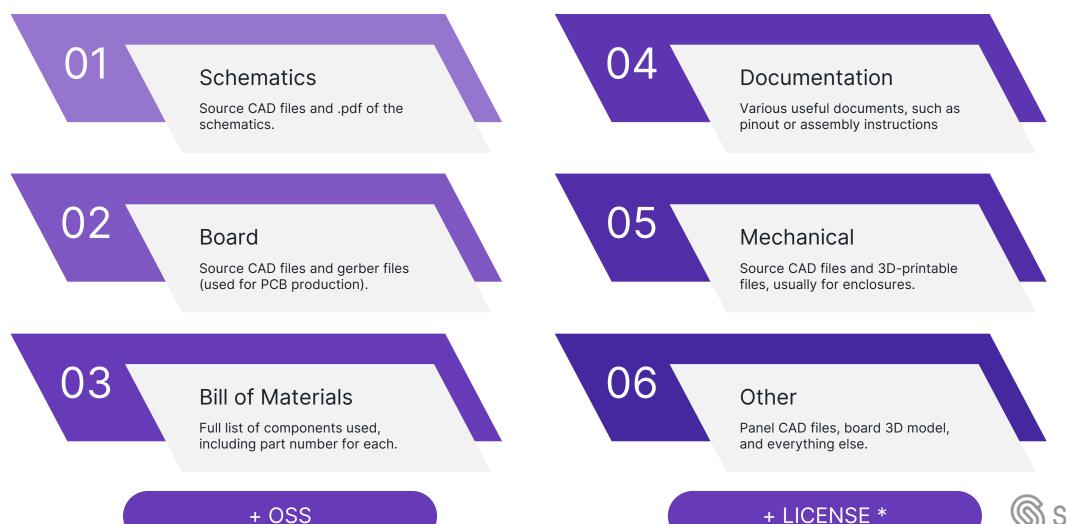
Although most often, it's not necessarily only electronics; it can be mechatronics or any other physical aspect of project

Goes well with OSS

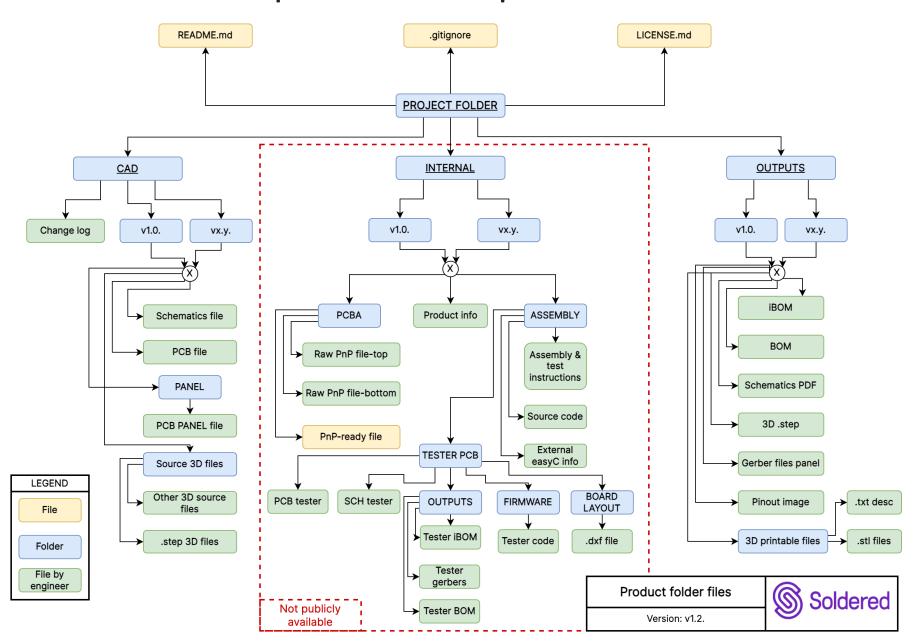


## How is OSH applied in practice?

If you were an OSH company, for your OSH product you would make publicly available:



## Example - Soldered product folder





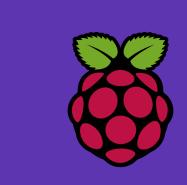
## OSH projects that are popular because of OSH

OSH gave boost in popularity to many OSH projects, especially electronics ones



Arduino

Made microcontrollers easy & available to everyone.



Raspberry Pi

Super-popular & affordable single board computer.
Charity.



adafruit

Maker electronics bits & piece



Gave boost to 3D printers popularity.

Anyone can make a product, but can't call it "Arduino"

**OSHWA** 

The Open Hardware Observatory

Open Source Ecology Germany What are OSH certification programs?









## Example - OSHWA certificate

### **INKPLATE 6**

TAVU D.O.O. ™

OSHWA UID
HR00003

**PROJECT WEBSITE** 

**CERTIFICATION DATE**April 17, 2020

**COUNTRY** Croatia A powerful, Wi-Fi enabled ESP32 microcontroller makes this six-inch e-paper display – recycled from a Kindle e-reader – incredibly easy to control. Just plug in a USB cable, open Arduino IDE or start micropython, and change the contents of the screen with few lines of code. Its ultra-low-power sleep mode enables it to be run for ages on a battery.

VERSION v1.0

#### **Licenses**

HARDWARE **TAPR** 

SOFTWARE GPL

DOCUMENTATION

CC BY-SA

VIEW DOCUMENTATION



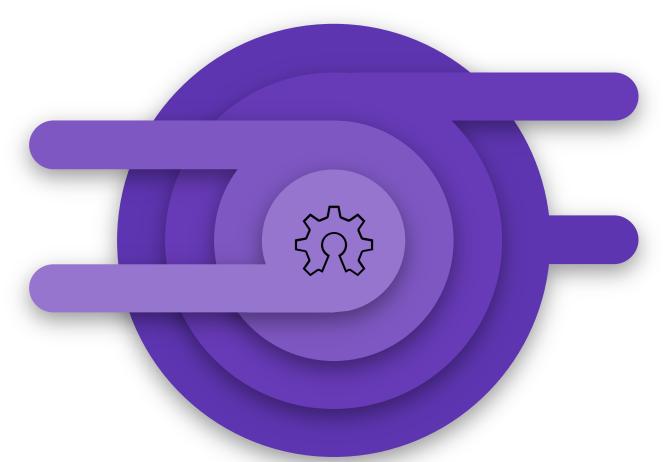
## Why use OSH for commercial products?

#### Self-advertising

Open-sourcing gets the word out about your product and/or brand.

#### Customers love it

Some people simply appreciate the openness and buy the product because of it.



#### Free improvements

Since they love it, they tend to use as their own, therefore improve it.

#### Return the favor

You have used and profited from others open-source, why not give back? It's just feels good.



## So, how's this OSH working for us?

So far, pretty well!

Customers Average review score 9k 4.7 Countries on our Average YoY growth 60 85% since founding customer list Products delivered in Total delivered 40k 100k 2021. products so far Successfully Return rate 0.05% crowdfunded 350k



# QGA



## Get in touch

Any questions?
Want to make OSH product together?
Have an advice for me, or need advice?
...and anything else, contact me!

And, of course, this presentation is opensource. Find it in my GitHub repo: https://github.com/davidzovko/Presentations

#### **David Zovko**

Founder & CEO

E: <u>david@soldered.com</u> P: +385 97 616 3556

