#ASKotec

Access to Skills and Knowledge – Open Tech Emergency Case/Kit

Intro

What is needed to train young people and what is the mission?

Freely shareable and collaboration based Open Technologies are a form of Open Source content that can also act as accelerators for peace and empowerment.

The #ASKotec kit is designed to work as a mobile trainer's set to tackle basic field challenges when it comes to Open Tech and Open Source Hardware innovation, education and repairing wherever needed. Providing »Access to Skills and Knowledge« as an multi-functional »Open Tech Emergency Case« gives rural and urban innovators a new point of entrance.

A kit with basic tools and materials to distribute knowledge and product development. As well as up-cycling old material to new #open innovation ...anywhere!

The set contains

- basic electronics and connections

- soldering and cutting tools

- mechanical and measurement tools

- Guides and additional things (ex. adapters, first aid kit and additional things)

- (optional) A Linux computer and documentation content

Context

Where did it came from and how is it used in action?

Starting with an overarching question: Where there is extremely limited access to basic infrastructures such as proper shelter, electricity and internet, what does it take to become a trainer and run your own workshop for Open Tech innovation, repair and up-cycling of existing resources? #ASKotec was developed in the context and by the participants of the Let's Go jHUB #LGJ project by icebauhaus, r0g_agency and KAPITAL on enabling access to media and information. Supported by the German Federal Ministry of Economic Cooperation and Development (BMZ) and backed by Open Source Ecology activists, implemented in South Sudan and Uganda.

By using the former created #OLG (Open Learning Guide) to promote and develop OERs (Open Educational Resources) and a self setup Linux laptop to give free access to knowledge a new stage was tested. Practical skills are the next approach. By training people in Open Tech a new Guide was developed to support the #ASKotec field concept. It is called the Open Hardware Guide #OHG.

With the help and empirical testing by local people from South Sudan and Uganda, examples for small Open Tech solutions, like a rechargeable LED light or a solar 5V USB mobile charging device the #OHG gives hands on information on how to innovate #opentech4all.
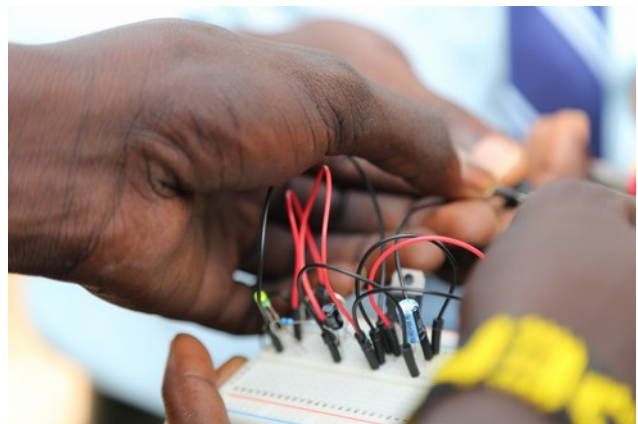
Evolution

What's the status and how can it be improved or refined/advanced?

Being a prototype of the first hour, this kit provided as a dust proof case is meant to be further developed. It already is on an ongoing journey of field tests in South Sudan and Uganda. The content is still not fully obtainable on site and this gives the first additional challenge to solve as well as to locate possible improvements regarding the specific local needs and situations.

Feedback may be given to: www.openculture.agency

Appendix:

- Contentlist

- OHG

- OLG

More pictures on:

https://www.flickr.com/photos/r0g_agency/albums/72157688144215032

ASKotec Content List:

1. books (1 jHUB booklet, 1 solar book, 1 Open Learning Guide)
2. 1 small trainers notepad
3. 1 blue HP notebook (Linux Elementary OS installed)
4. 1 clipboard with paper
5. 1 protractor / square rule
6. 1 pencil pouch (pen, pencil, ruler, cutter, 9V battery w/ wire connection, USB current meter, small Post-It Notes, highlighter, pencil sharpener, saw blades, small brush, 16GB USB memory stick)
7. twine
8. 1 pair of scissors
9. 1 'helping hand' tool with magnifying glass
10. 1 travel plug adapter
11. 1 upgrade electronics kit
12. 1 little electronics box (incl. solar charger pieces)
13. 1 first aid kit incl. burn ointment
14. 3 circuit boards
15. 2 bread boards
16. 4 x 4V solar panels
17. 12V solar panel with adapter (in box)
18. foam padding for PC
19. small multimeter
20. crocodile clips, jumper wires, twin wires
21. 2 packets of 4 rechargeable AA batteries (2000 mAh)
22. 3 x AA battery cases with switch
23. 1 bag of switches
24. 1 big multimeter
25. 1 soldering kit (3 extra wires, 2 rolls of solder, 1 sucker, 1 solder iron + stand, incl. 1 pack of extra tips, soldering grease and solder remover)
26. 1 wire stripper
27. 1 universal mobile phone repair tool set
28. assorted heat shrink tubes
29. 1 pack of 4 USB plugs
30. 2 sizes zip ties (black - short, colour - long)
31. 1 small hacksaw
32. 1 pair chopsticks
33. 1 mechanical tool set (Black and Decker)
34. disposable cleaning pads
35. 2 sizes of small zip-lock bags (150 and 380 ml)
36. 1 LED light strip
37. 1 ASKotek table of contents + packing / unpacking guide
38. 1 small combination padlock (for locking case itself)
39. 1 coloured combination chain lock (for locking case to something secure)
40. 1 black dustproof / waterproof hard case 520 x 415 x 195 mm

OHG – Open Hardware Guide

and

OLG – Open Learning Guide

see PDF on www.opencultur.agency