

Rural Hack Overview

Estimated Duration - 2 Hours

a workshop on open source hardware and agriculture

<http://www.ruralhack.org>



OFFICINE
INNESTO



RuralHack

CONVERSATIONS



RuralHack Workshops are a short ride through different cultural and technological aspects on how Open Source Hardware may change (possibly, in a better way) our relationship with local farming, and knowledge of plants in general.

The workshop has different “stages”, or chapters. **The very first one is an intro to Arduino and the Open Hardware Movement**, addressed to the home-grower and urban farmer. **Further versions of the workshop feature introduction to LPWAN Technologies** and hands-on workshops for in-field installs.

The best scenario for workshop chapter one is a small-medium greenhouse, connected to the internet. Field agriculture could be an option, but the experimental approach is not easily addressable for large fields. Summer may help, and a small vegetable garden will do fine.

The final goal of a RuralHack is to get you hands dirty in the mud. Besides this, we'll be able to teach a microcontroller to perceive (in *several* ways) the soil moisture levels, as well as temperature, humidity of the air and light.

Eventually will get the boards to communicate in different ways and possibly trigger a water valve, as well as other sensors-triggered actuators (web cameras, etc) .

The so-called “node” will be able to send his data to the closer node or serve it on a self-hosted website.

You need to have ZERO knowledge in electronics, coding, computing, nerding whatsoever to join the workshop. **Curiosity and love for nature**, as well as a good level of ability to withstand failure **are the only requests**.

OPEN SOURCE HARDWARE



RuralHack

LIVETESTS



RuralHack