

IoT smartWormbin



The IoT smartWormbin is a worm box monitored by sensors. Collected data is streamed in real time to the smartWormbin website in open formats allowing people to analyse the data or play with it in many creative ways. It helps connecting the users to their natural environment. On the website you can find detailed instructions on how to build the box as well as schematics and code for the Arduino system to kick of a decentralized collaboration system on digital interaction with worm bins.

https://s8sgenge.github. io/smartWormbin/com

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A good open hardware project creates an ecosystem. It works like a platform where a variety of actors meet and become productive. It opens up action spaces and business opportunities. It creates synergies between the different actors and allows everyone to do things that would otherwise not be possible or not so easy.

Open

- Open Elements
 - -Code: Arduino (C)/Python/Javascript
 - -Schematic: Arduino
 - -Construction Plan: Wormbin

Ecosystem

Actors & Activities around it

- -**Recyclers:** disassemble box in its individual parts (untreated wood, screws, modular reusable arduino parts and worms)
- -User: Build exact same project
- -Hobbyist: Build similar projects with the help of my code/plan/ schematic
- -Wormfarmer: Analyze data to gather information
- -Designer: Use data for visualizations
- -Manufacturers

Channels

Virtual & Physical channels for exchange in the ecosystem

-https://s8sgenge.github.io/smartWormbin/
-Github
-Citizens Science
-Web: through the open JSON format
-Smart citizens platform

Business Model

How does the system sustain itself?

-Scientific insight -Workshops

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