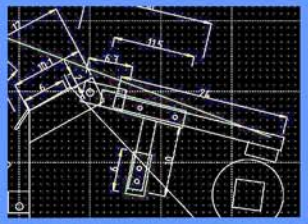
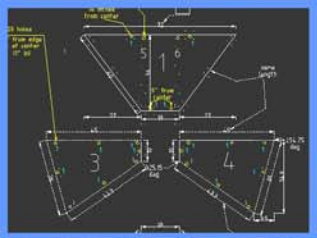











opensourceecology.org

## CORE TEAM

**FOUNDER & DIRECTOR**
**Marcin Jakubowski** Phd

phone +1.816.846.0736
fax +1.206.202.3387
skype marcin_ose
opensourceecology@gmail.com

**MEDIA DIRECTOR**
**Isaiah Saxon**

isaiah@
encyclopediapictura.com

**ADVISOR**
**Adrian Hong**


**WEB ADMINISTRATOR**
**Elifarley Cruz**

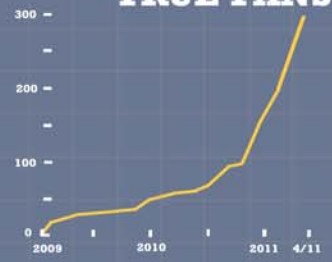
elifarley@
opensourceecology.com

## CONTRIBUTORS

As an open source project, we facilitate the collaboration of hundreds of volunteers - from fabricators and technical supervisors to wiki editors and videographers.

*For a list of all contributors, go to:*
*http://openfarmtech.org/wiki/Development_Team*

## TRUE FANS




**300 Individual Monthly Financial Donors**

As of 2011, we are funded 100% by the crowd. Our True Fans program is thriving, and with each new subscriber, our operations budget increases.

# open source ecology

**A Network of Farmers, Engineers, and Supporters Building the Global Village Construction Set**

**The GVCS is a modular, DIY, low-cost, high-performance platform that allows for the easy fabrication of the 50 different *Industrial Machines* that it takes to build a small, sustainable civilization with modern comforts.**

> *"Community resilience starts with a return to local production. The GVCS not only enables this, it radically accelerates it!"*
>
> *- John Robb*
> *Author, Brave New War*

> *"Your project is amazing. Thrilling, actually...It's people like you who really give me hope for the future."*
>
> *- Chris Anderson*
> *TED Curator*

# GVCS

Global Village Construction Set

The GVCS lowers the barriers-to-entry into farming, building, and manufacturing and can be seen as a life-size lego set of tools that can create entire economies, whether in rural Missouri, where the project was founded, in urban redevelopment, or in the developing world.

## Key Features

**Open Source** - we freely publish our 3d designs, schematics, instructional videos, budgets, and product manuals on our wiki and we harness open collaboration from contributors from all over the world.

**Low-Cost** - The cost of making or buying our machines are, on average, 8x cheaper than buying from an industrial manufacturer, including an average labor cost of $15/hour for a GVCS fabricator.

**Modular** - Motors, parts, assemblies, and power units can interchange. Universality is given priority whenever possible. Machines work together in integrated product ecologies.

**User-Serviceable** - Design-for-disassembly allows the user to take apart, maintain, and fix tools readily without the need to rely on expensive repairmen. Frames are bolted together and can be unbolted easily, rather than hard-to-access curvilinear panels that are more for looks than ease of service.

**DIY** - Our comprehensive instructional library allows for "Do-It-Yourself" fabrication. We seek to empower the average individual through a simpler design language, and a new standard of clarity in our How To's.

**Closed Loop Manufacturing** - Metals are an essential component of advanced civilization, and our platform allows for recycling scrap steel into virgin feedstock and harvesting aluminum from clay soil.

**High Performance** - Performance standards must match or exceed those of industrial counterparts for the GVCS to be viable.

**Flexible Fabrication** - It has been demonstrated that the flexible use of generalized machinery in appropriate-scale production is a viable alternative to centralized production. Using cutting-edge, digitally assisted fabrication technologies makes for a nimble and lean operation, whereas a purpose built factory often can't afford to retool when the times change.

**Open Business Models** - We encourage the replication of enterprises that derive from the GVCS platform as a route to truly free enterprise - along the ideals of Jeffersonian democracy.

A modern, comfortable lifestyle relies on a variety of efficient Industrial Machines.

If you eat bread, you rely on an Agricultural Combine. If you live in a wood house, you rely on a Sawmill.

Each of these machines relies on other machines in order for it to exist. If you distill this complex web of interdependent machines into a reproducable, simple, closed-loop system, you get these...

## The GVCS 50:

✓ = Prototyped


3d Printer


3d Scanner


50kw Wind Turbine


Aluminum Extractor


Backhoe


Bakery Oven


Baler


Bioplastic Extruder

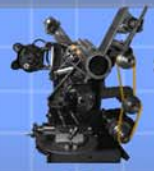

Bulldozer


✓ Compressed Earth Block Press


Cement Mixer


Chipper/ Hammermill


Circuit Mill


CNC Multimachine


✓ Torch/ Router Table


Dairy Milker


Dimensional Sawmill


Electric Motor/ Generator


Gasifier Burner


Hay Cutter

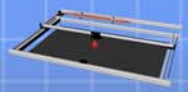

Hay Rake

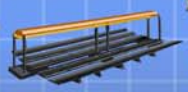

Hydraulic Motors


Induction Furnace


Industrial Robot


Ironworker Machine


Laser Cutter


Linear Solar Concentrator


Loader


Metal Rolling


Microcombine


Modern Steam Engine


✓ Microtractor


Nickel Iron Batteries


Open Source Automobile


Open Source Truck


Pelletizer


Plasma Cutter


✓ PowerCube Hydraulic Power Unit


Press Forge


Rod and Wire Mill


✓ Rototiller and Soil Pulverizer


Spader


Steam Generator


✓ Tractor


Trencher


Universal Power Supply


Universal Rotor


Universal Seeder


Welder


Well-Drilling Rig