

Hexayurt

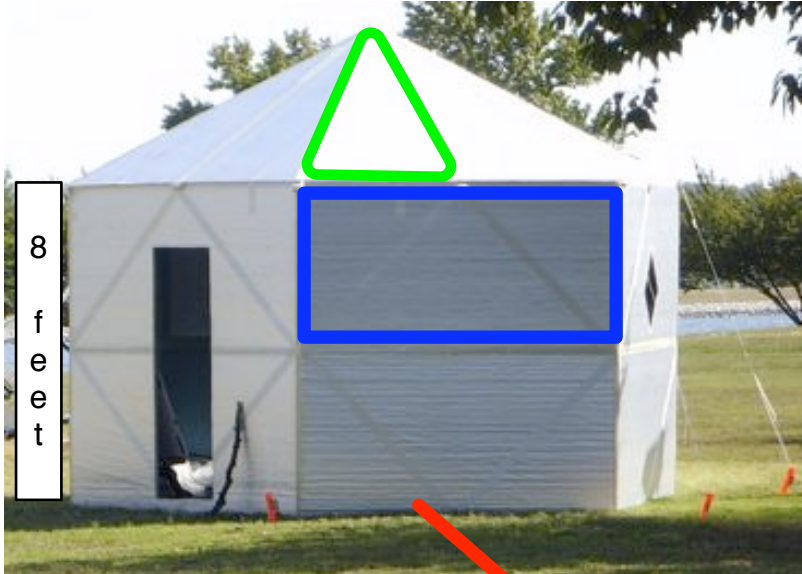
Materials

Utilities

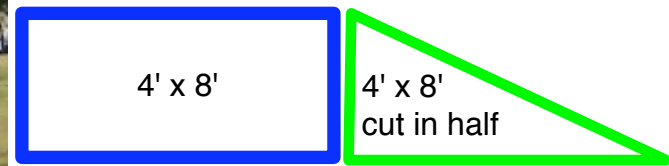
Aid and Development

Free / Open Source

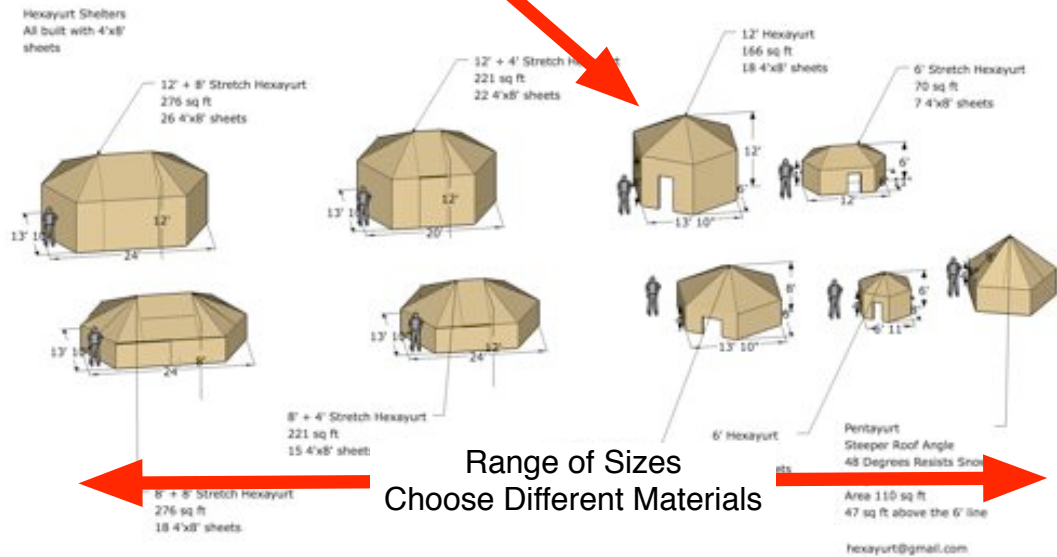
Revolutionary Technology



Family of simple shapes that cut from standard 4' x 8' or 1.2m x 2.4m sheets.



18 boards for a big one
12 for a smaller one



Too simple to work?
Very clever details: tape anchors, materials, **tensile members.**

You can get anything in 4'x8' sheets.

One geometry gives rise to many different kinds of structures if you use different materials.

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Revolutionary Technologies

Thermax HD

Aluminium - as thick as a coke can on top of
Styrofoam - 1" thick for insulation

1+ million board feet a day, \$30 a panel, maybe 20 year lifespan???

Hexacomb

Aluminium - because it does not rot in the sun over
thick honeycomb industrial cardboard

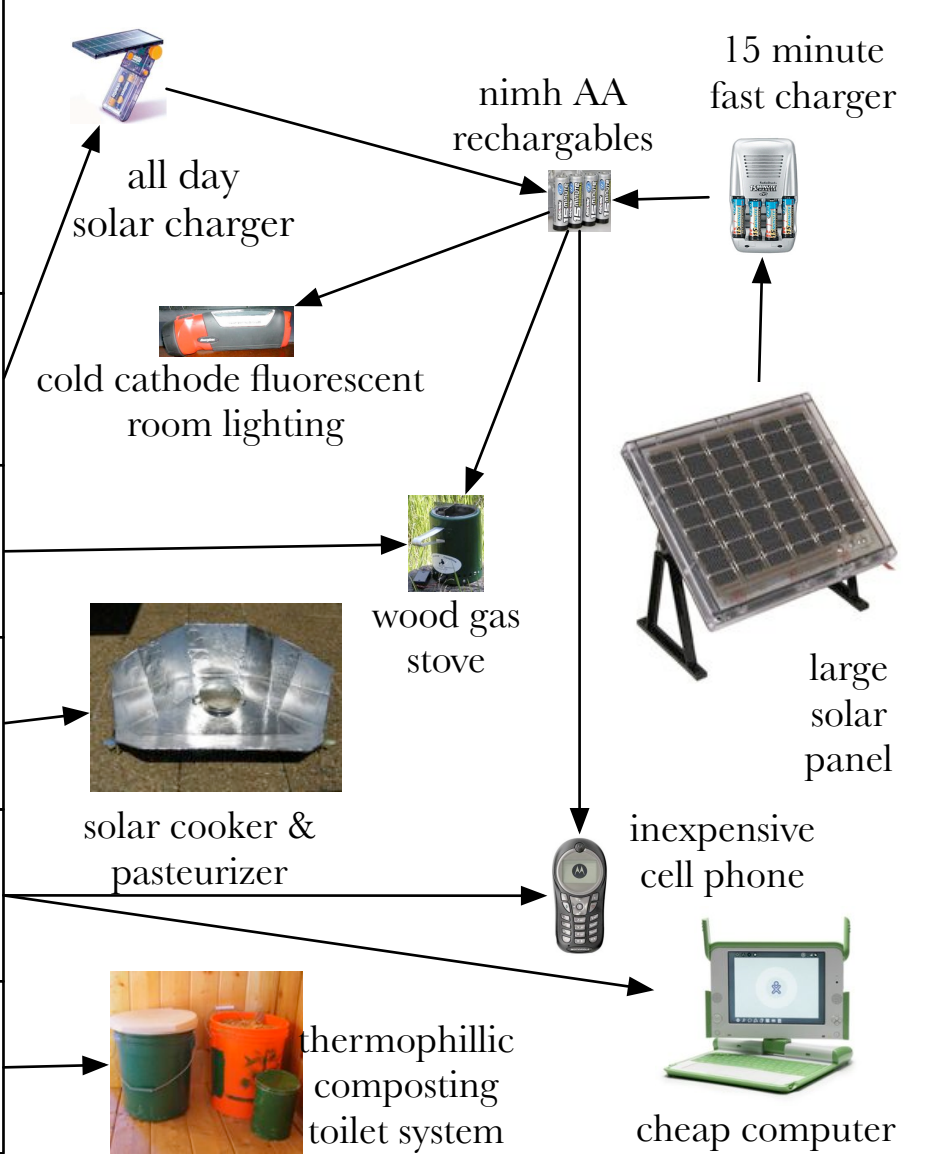
Field Fabrication

Ship the honeycomb flat, so a 4'x8' piece looks like a piece of lumber. Manual labor to make panels from raw parts. \$7 a panel, maybe?

900 lbs / 400 kg TAPE

- Utilities
- Aid and Development
- Free / Open Source
- Revolutionary Technologies

Pipe/Wire	Developed World Civilian Infrastructure	Hexayurt Utilities Package
Electricity	National grid	Solar with rechargeable AA battery storage
Gas	Natural gas system (pipelines, terminals)	Wood Gas Stove Wood and other biomass fuels
Water	Water treatment plants, viaducts	Solar Water Pasturizers
Comms	Wired phone network, cell towers	\$100 computers? Cell phones?
Sewage	Sewer system, sewage treatment plants	Composting toilet



Q: What's the difference between making < \$1 a day and being a refugee?

A: *Which government is ignoring you.*

The \$100 House
Super cheap materials because industrial chemistry works.
Make more problems that it solves?

Sustainable Settlements Charrette
Design meeting between NGOs, environmentalists, military.
Shelters and infrastructure that refugees can take with them.

Ship Homes + Infrastructure
So you have seas of cheap, long lasting houses that are designed to be scavenged back to raw materials?
No Problem.

- Aid and Development
- Free / Open Source
- Revolutionary Technologies



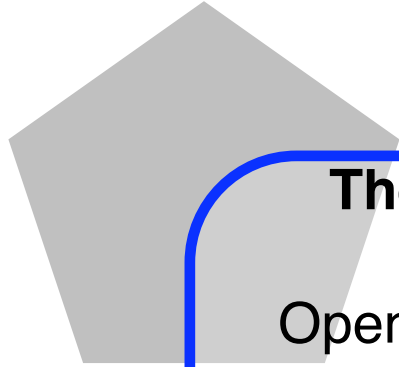
**If you give it away
people cannot ignore
you.
They also can't get rid
of your uncomfortable
insights**



Linux/BSD
Rapidly replacing the
commercial operating
systems market???



**Open Collaboration
works for engineers**
Money has always
got in the way of
engineers sharing like
scientists do. Free/
Open Source helps
But how to get paid?



**The American
Military**
Open collaboration
works - they're used to
getting billed a fortune
for junk.
Free and good gets
them moving.



Free /
Open
Source

Revoluti
onary
Technolo
gies

The Second Industrial Revolution is Approaching *FAST!*

Network Arrives in the slums and villages

5 years from now, a \$20 cell phone will look like an iPhone or better.

Cheap Solar Panels

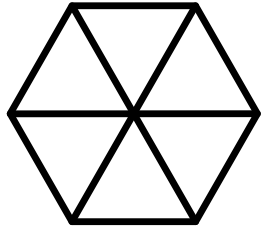
Nanosolar: \$0.30 per watt, starts in Spring 08

Konarka (Heeger): \$0.10 per watt, starting in 09?

Way cheaper than grid power.

Abundant Cheap Power + Liberal Access to Free Information

Time to save the world. Refugees are a test bed for some parts of this.



Hexayurt Project

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Ask us about:

The Appropriate Technology Wikipedia (<http://appropedia.org>)

Mass evacuation of developed world cities (<http://disastr.org>)

Cheap, privacy-protecting digital ID cards (*printed on paper*)

(<http://guptaoption.com/cheapid>)

Appropriate technology as foreign policy (<http://guptaoption.com/>)

STANDARRD - a network for sustainable technology professionals

(<http://standarrd.org>)