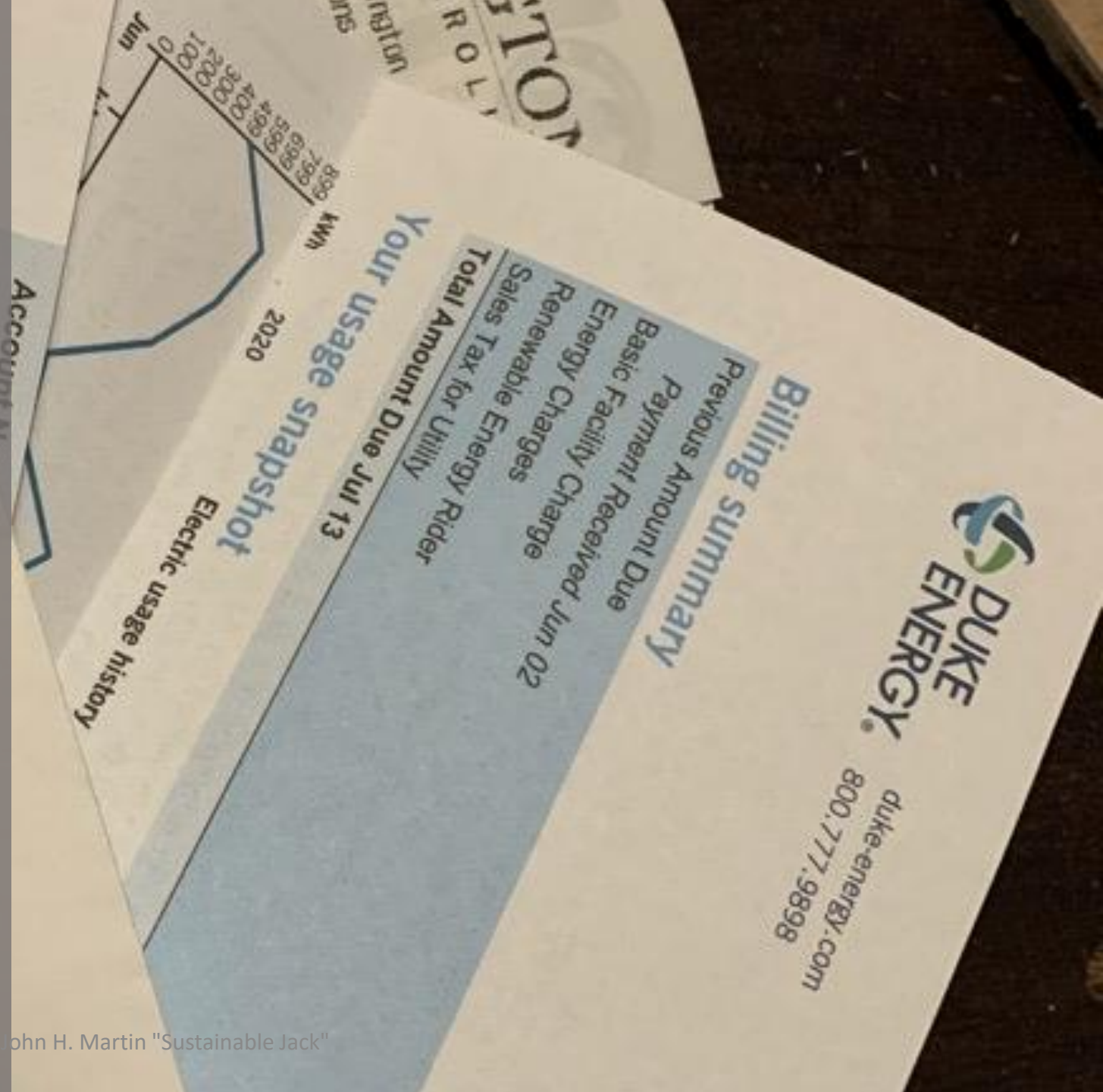


When I say utility- most will think of bills:

- Communication
- Light/Electrical
- Gas
- Water
- Wastewater
- Garbage





Your body can exist for fractions of a sec.
without electricity

Without communications you are
unconscious

You can last 3 min without air
3 hours without shelter or proper
clothing

3 days without water

3 weeks without food (maybe)

In a natural disaster you are responsible
for yourself (and others) for a minimum
of 3 days or more

We can meet these emergencies with local renewable power

But why?

Renewable power is available. Not just for emergencies. Why not use it all the time?

Emergency to Livingry

Integration is the key to providing energy, communication, water/waste water, food and discard disposal. The IUU provides the sources, infrastructure, appliances. You provide the shelter.

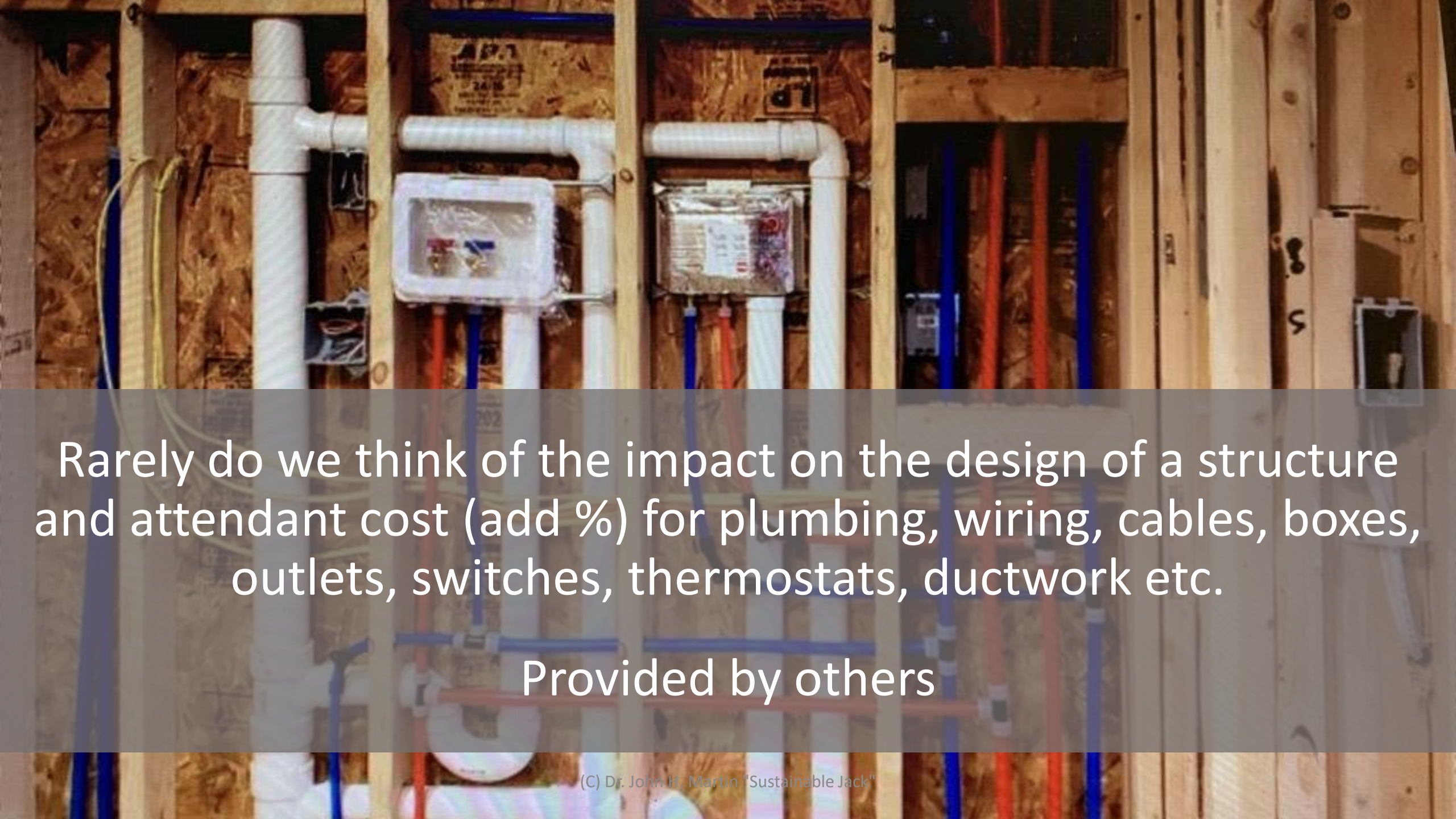


Large scale utility providers to your property



These are the umbilicals that connect us to sources

Sources provided by others



Rarely do we think of the impact on the design of a structure and attendant cost (add %) for plumbing, wiring, cables, boxes, outlets, switches, thermostats, ductwork etc.

Provided by others



And even less for the required appliances- phones, TV, computers, light fixtures, lamps, HVAC, vacuum cleaners, water heaters, clothes washers and dryers, dish washers, showers/tubs, sinks, toilets etc.

Which we purchase and must maintain.

And with an electrical outage- (a more common occurrence) most of this becomes perfectly useless.

Problem- Need medium portable IUU

Solution-

- Wheeled tote bucket of approximately 22" x 18" x 17" size
 - Lockable waterproof
- 5-7 nested sterilight containers
- 100-500 watt solar array
- Balance of systems 740Wh x 2 battery packs Himcen
- Small foldable solar cooker
- Biogassifier stove
- Coleman butane stove
- Microwave
- Cook kit
- Eating kit
- Survival kit –waterproof matches
- Refrigerator
- Food 3-8 days
- LUCI inflatable lights
- Solar gooseneck flashlight
- Solar windup radio and light
- Tool kit
- First aid kit
- Gas mask
- Space blanket
- Mosquito net
- Sleeping bag
- Thermorest pad 24x75x2"
- Clothes- bandana
- Shoes
- Hat
- Parachute cord- web belts
- 9x5 ft tarp (rainwater collection)
- Canvas bucket
- Sawyer Water purifier
- 25 toilet kit
- 5 plastic bags

I started small...

and got smaller

4 ft. wide by 8 ft. long by 4 ft. tall

That raises up to 8 ft.

Giving 256 cubic ft.

reduced to

3 ft. wide by 6 ft. long by 4 ft. tall

That raises up to 8 ft.

Giving 144 cubic ft.

PV

Cool water storage

Tarp/water collection

Dishes/Dishwasher

Sink

Stove

HVAC

Clothes washer

Refrigerator/Freezer

Water-based toilet to
bio-digestor

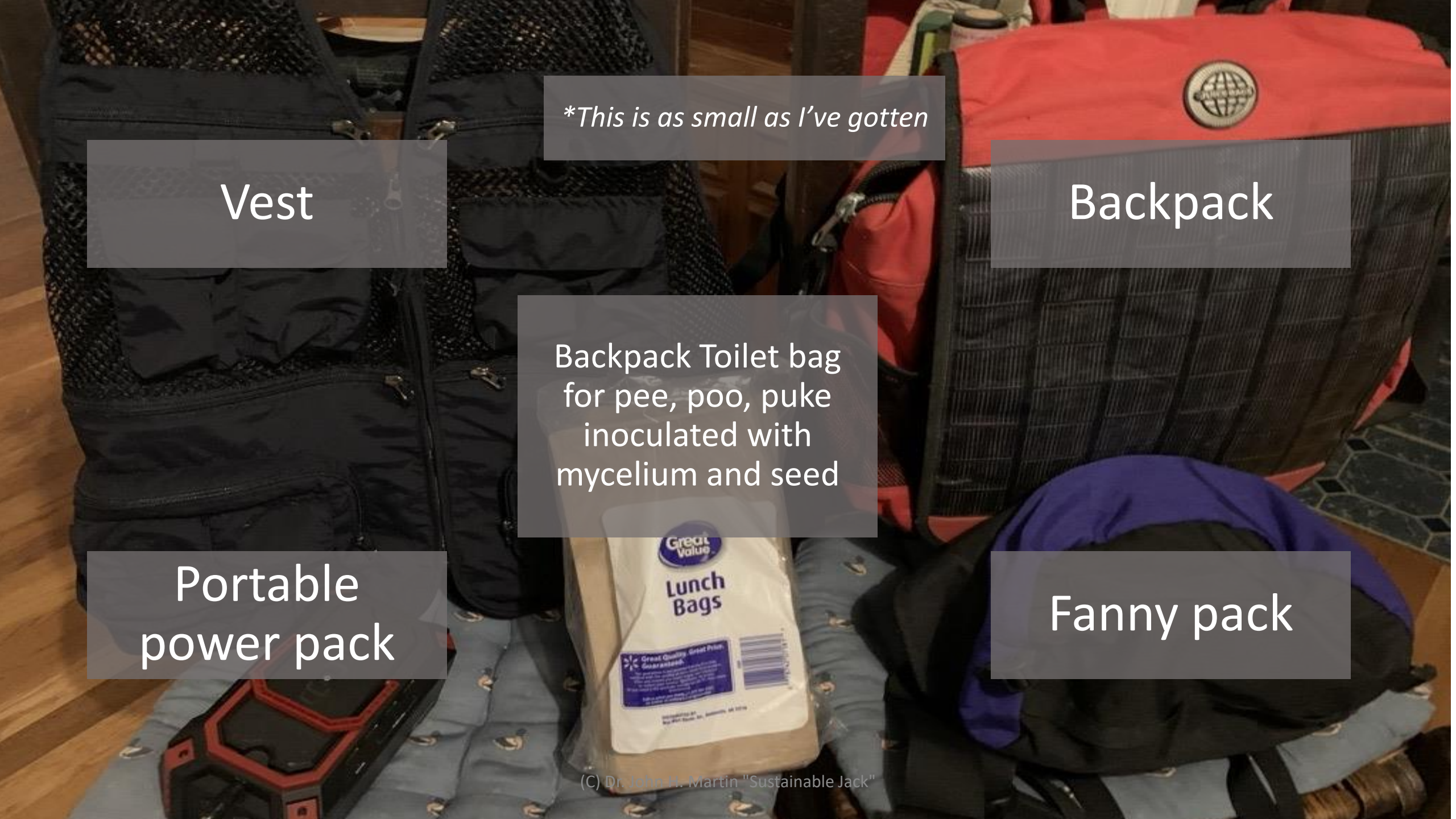
Power Center

Shower/bath floor and drain

(C) Dr. John H. Martin "Sustainable Jack"

IUU – PV and balance of system, smart phone and iPad, insulated space blanket. Water purification and storage bag. Toilet bag with mycelium inoculated wax paper compost bag with seed. Solar water bag, solar concentrator/heater

Transport this in a wheeled tote bucket of approximately 22" x 18" x 17" size which will fit in between seats in a Prius or bike trailer



Vest

**This is as small as I've gotten*

Backpack

Backpack Toilet bag
for pee, poo, puke
inoculated with
mycelium and seed

Portable
power pack

Fanny pack