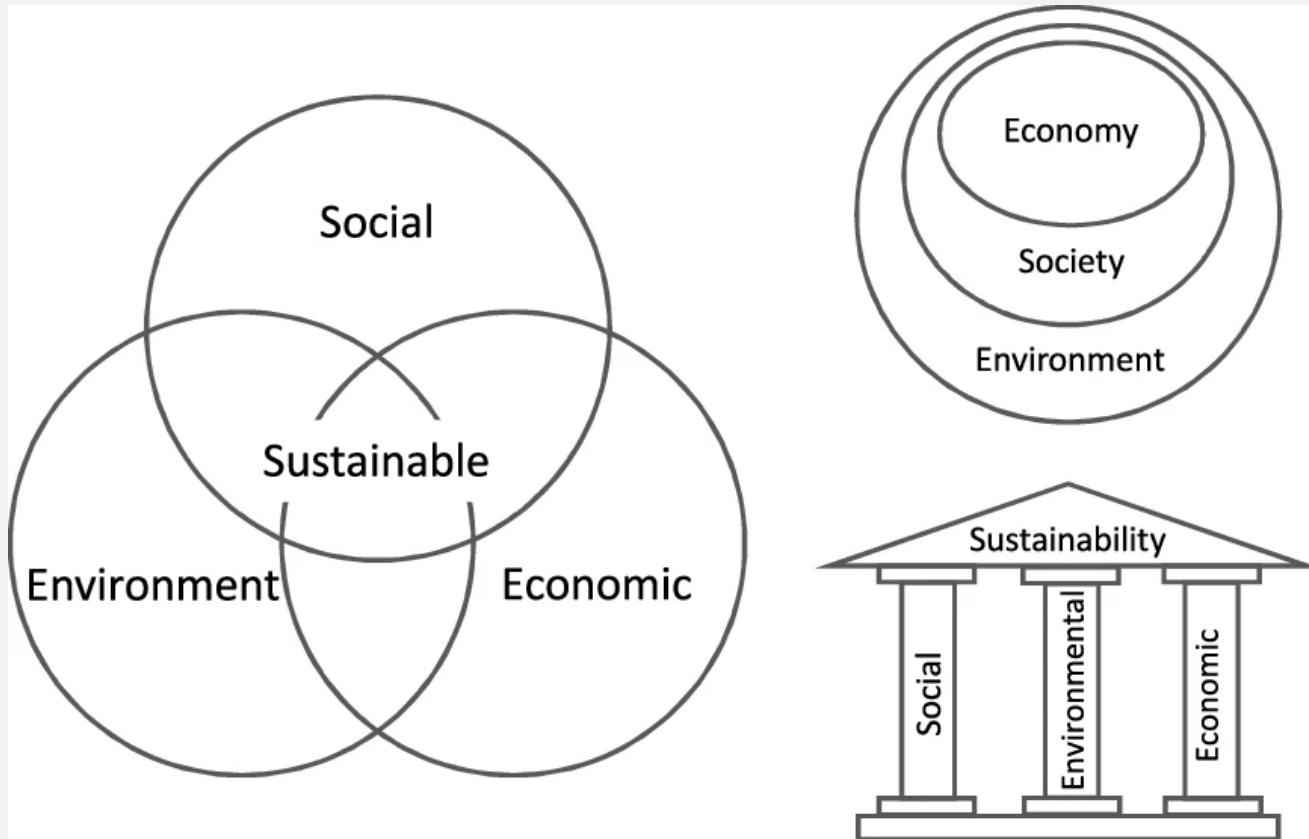


# SUSTAINABLE STUDIOS

Make a difference in your studio and your business

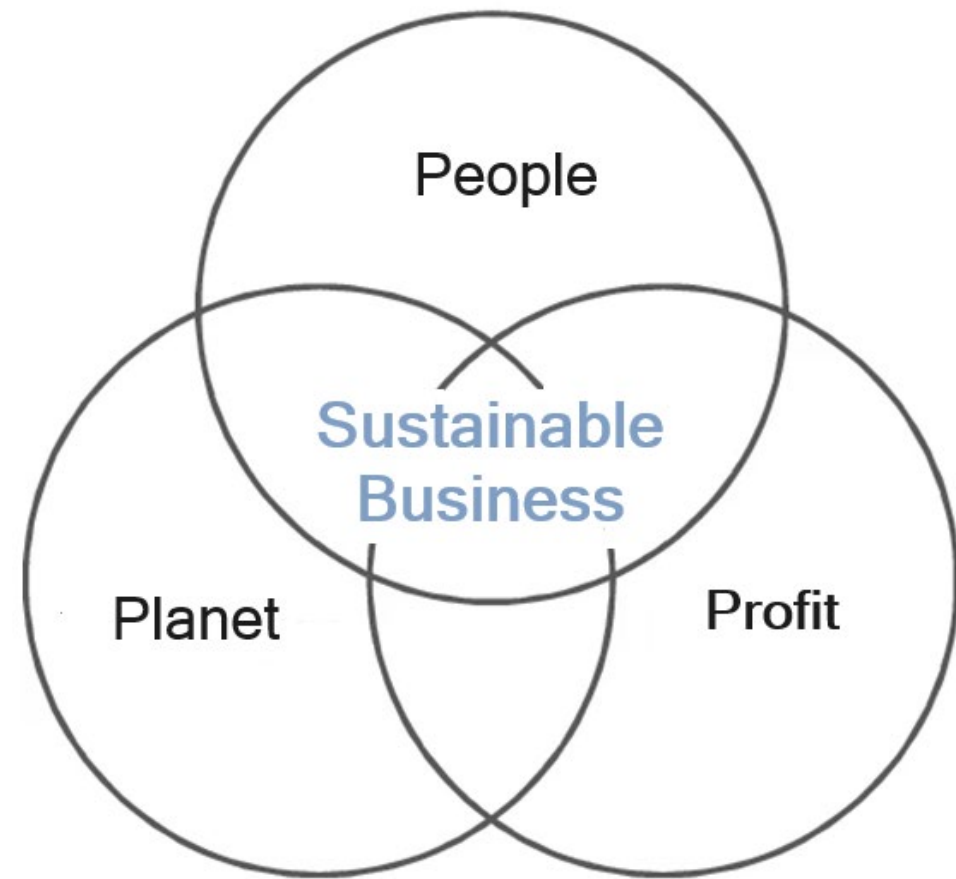
# SUSTAINABILITY



- Meeting the needs of the present without compromising the ability of future generations to meet their own needs.

- (United Nations 1987)

# SUSTAINABLE BUSINESS



**Triple Bottom Line**

## BALANCING ACT



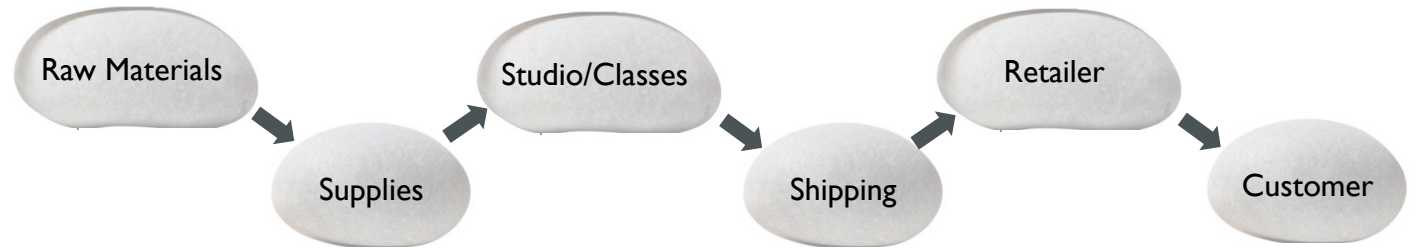
- **“Perfect”** is the enemy of progress
- Change in ONE area impacts the other TWO



- Start small
- First identify areas of concern
- Can you measure your progress?
- Be aware of SCALE



# SUPPLY CHAIN FOR STUDIO BUSINESS



## Questions to ask

- Who is involved?
- Where are materials sourced?
- How are materials sourced, manufactured, packaged, shipped?

# MATERIALS & SUPPLIES

## People

- Global Impact
  - Purchase from sustainable companies
  - Who is profiting?
  - Human rights
- Local Impact
  - Who else is purchasing?
  - Group order with colleges

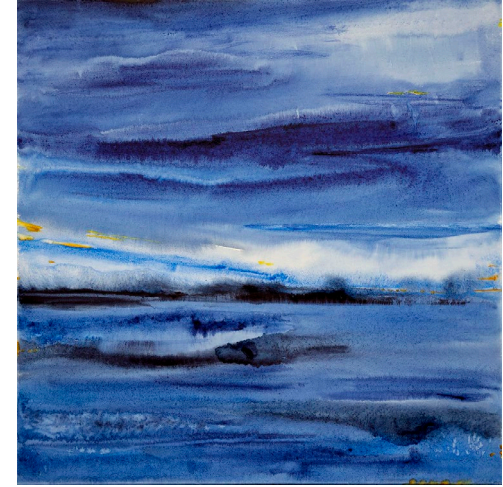
## Place

- Global Impact
  - Carbon footprint to ship
  - Can it be sourced locally
  - Impact on environment
  - Supply and demand, will we run out?
- Local Impact
  - Repair old equipment
  - Purchase dry, not wet
  - Reuse of containers
  - Second hand stores
    - Habitat
    - ISU Surplus

## Profit

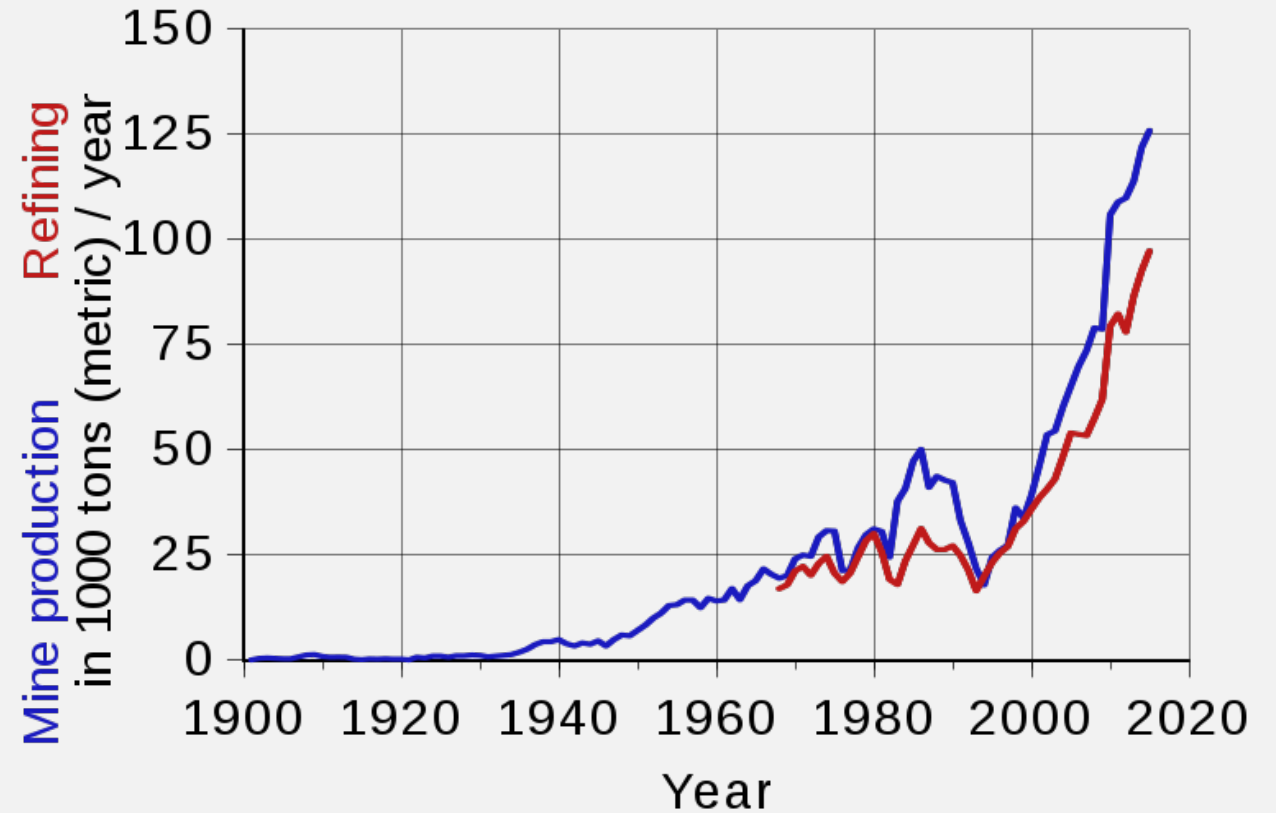
- Reduce waste
- Lower cost to replace
- Reduce shipping costs (to and from studio)
- Increase networking with community

# COBALT



# COBALT MINING

- Many, many, uses
- Spike due to Lithium batteries
- Is it renewable? NO
- Is it recyclable? YES
- Likely to run out? Not likely
  - Recycle batteries!!!!
- So we are good, right? NO.....



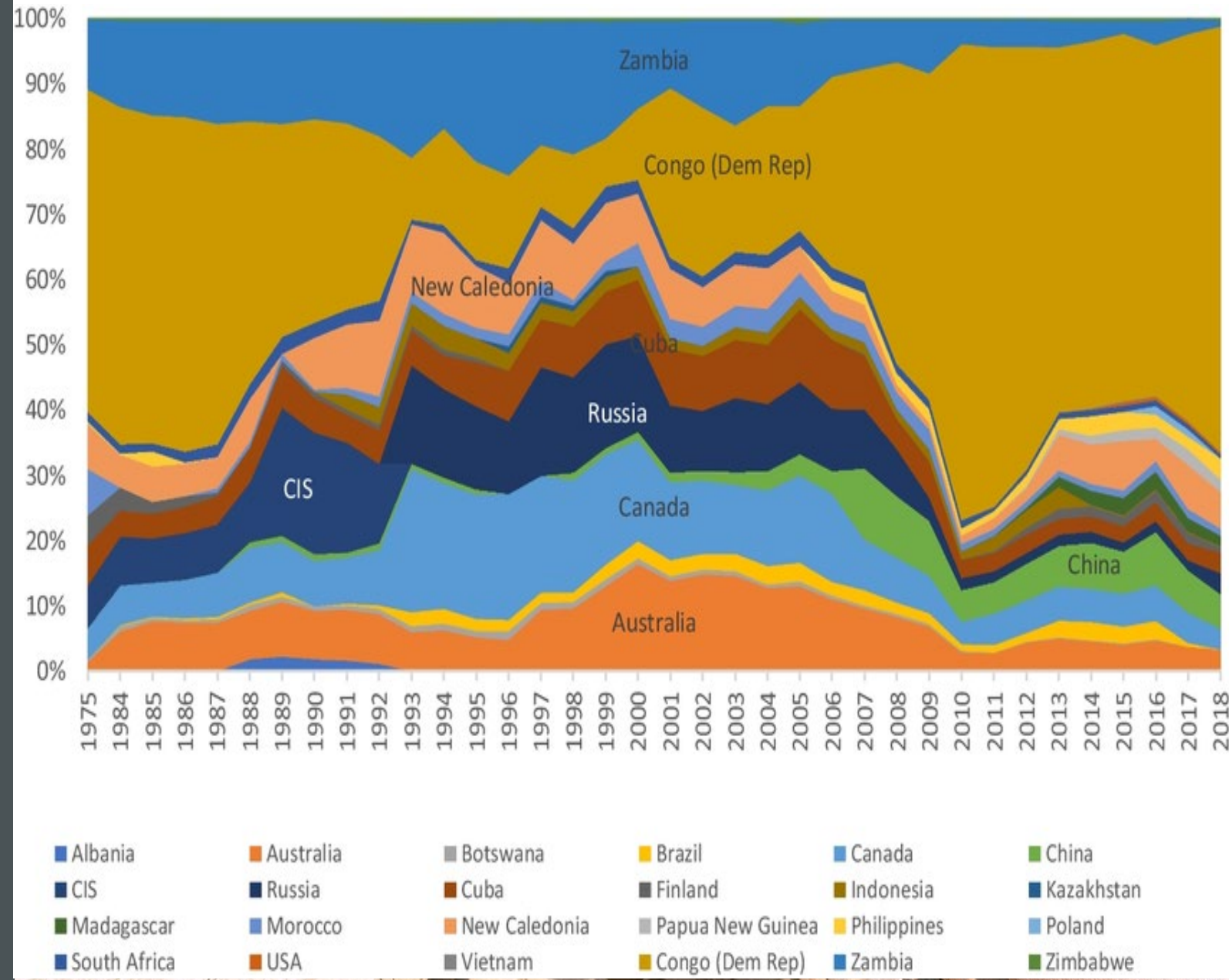
By Leyo - U.S. Geological Survey, Public Domain,  
<https://commons.wikimedia.org/w/index.php?curid=2359121>



# IMPACT ON PEOPLE

- Democratic Republic of the Congo – estimated 70% world's cobalt
- 18-30% cobalt from Democratic Republic is from artisanal mining
- Artisanal mining is illegal/unsupervised mining

Mine production of cobalt by country (%)  
Sources: USGS, BGS, WMD various years





## NO SAFETY PROCEDURES

- There are no regulations, no safety, no environmental protection
- Cobalt dust covers workers and nearby towns (heavy metal)
- Mines collapse
- Workers make about \$2/day





## CHILD LABOR

The U.S. Department of Labor [estimates](#) that at least 25,000 children are working in cobalt mines in the DRC.

# NO SIMPLE SOLUTION

- Long history of human rights violations in the Congo area
  - Belgium colonization
  - China managing mines
- Shutting down the mines, who does it effect?
- Some human right improvements due to global awareness
- What can we do?
  - Raise awareness
  - Ask suppliers where they are sourcing cobalt
  - Recycle rechargeable batteries to reduce mining
  - Do not waste cobalt materials you use in your studio

# STUDIO

## People (Local)

- Educate about sustainability
- Donate used items
- **Increase audience (community)**
  - Open studio
  - Mental health workshops
  - Club visits – 4H, Scouts, local schools
- Work with your colleges (competitors)
- Employees? Get them involved

## Place (Local)

- Energy (renewable)
- Water
  - Conserve
  - Contamination
  - Recirculating sink
- Waste
  - Chemical mgmt
  - Reduce
  - Repair
  - Recycle
- Purchase from second hand stores(Habitat for Humanity)
- **Community Art Resources!**

## Profit

- Marketing
- Reduce costs
- Help in studio
- Reputation
- Increase employee retention
  
- Avoid fines for improper disposal
- Eliminate plumbing costs



# COMMUNITY DAYS



# CLASSES

## People

- Educate sustainable methods
- Sustainable pedagogy
  - Students help clean
  - Focus on experience, less on product (photo)
  - Competitions?
- Discounts/scholarships?
- Work with your colleges (community first)

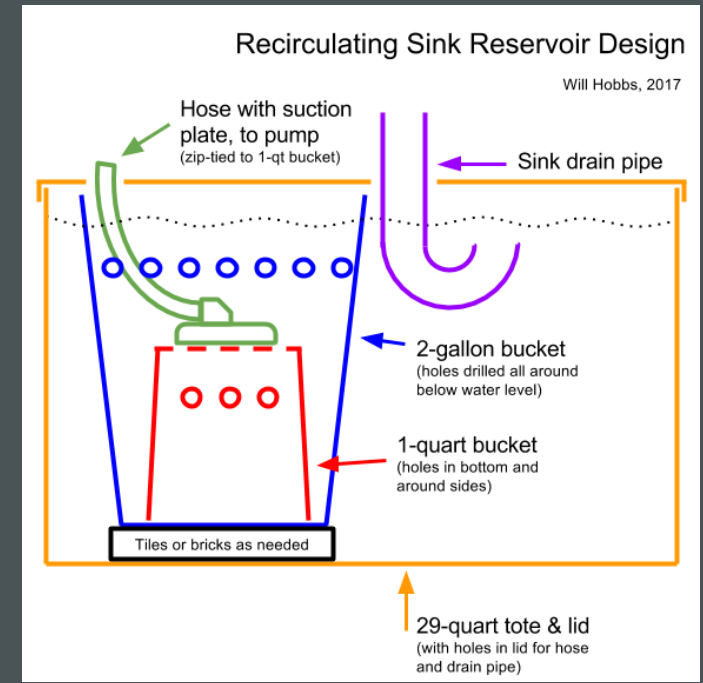
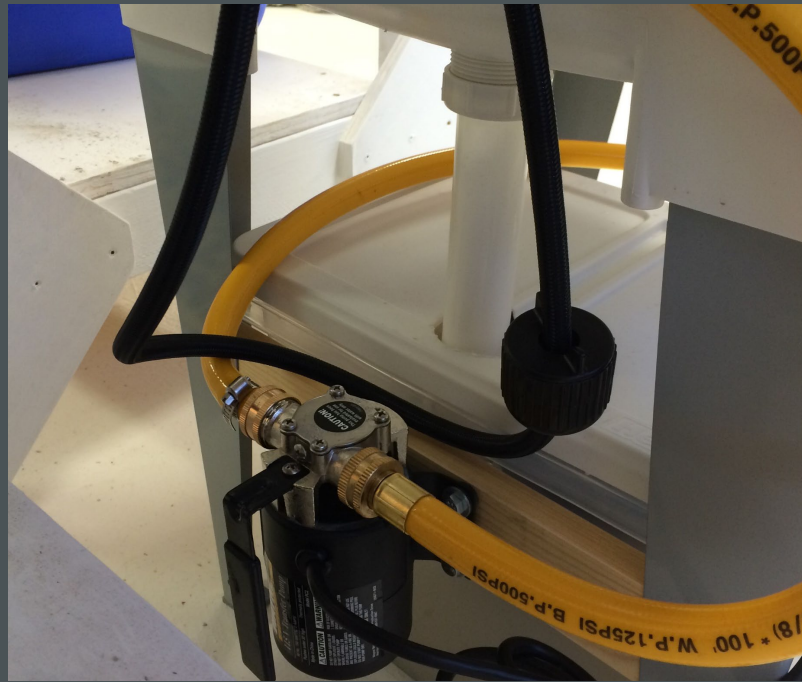
## Place

- What impact of scale
- Reduce water/energy usage
  - **Recirculating sink**
- Rewards to bring in reusable materials (containers, tools, etc...)
- Reclaim materials (i.e. clay)

## Profit

- Increase audience
- Reputation
- Marketing
- Lowers cost of materials
- Reduces workload





## RECIRCULATING SINK

- Cheaper than plumbing
- Prevents chemicals from entering water table
- Need to clean out sediments and dispose of properly



# WEEKEND PROJECT



# SHIPPING & RETAIL

## People

- Educate customers
- “Sustainability” Notes
- Group shipping
  
- Who is your customer?
- Look outside of traditional audience
  - Main street!!!
  
- Who can afford your work?
  - Small, less expensive, pieces to reach larger audience

## Place

- Reduce plastics
- **Cardboard shredder**
  
- Sell local
  
- Carbon footprint to ship your product
- Returns? Is it worth it?

## Profit

- Reduce costs for packaging materials and shipping
- Reduce or eliminate shipping
  
- Increase audience/sales
- Loyal customers

# CARDBOARD SHREDDER

- **The Octagon!!!!**
- Community share
- Eliminate purchasing new packaging materials
- Unlimited cardboard and paperboard in community
- Leave a note to customer about sustainable packaging



## SMALL STEPS

- Easy to get overwhelmed
- Once a year, reassess and plan next step
- Join with others, everything is easier with community
  
- How can we join together?
  
- Questions/Comments?