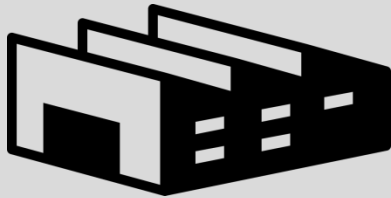


CLEAN Cannabis Strategies



**Commercial Grow
Facilities**



Operators



Sustainable Practices



By understanding our waste impact and resources. We can interact with our community and environment in a cleaner way.



Waste Impact



Hazardous/Toxic Waste



Municipal Solid Waste

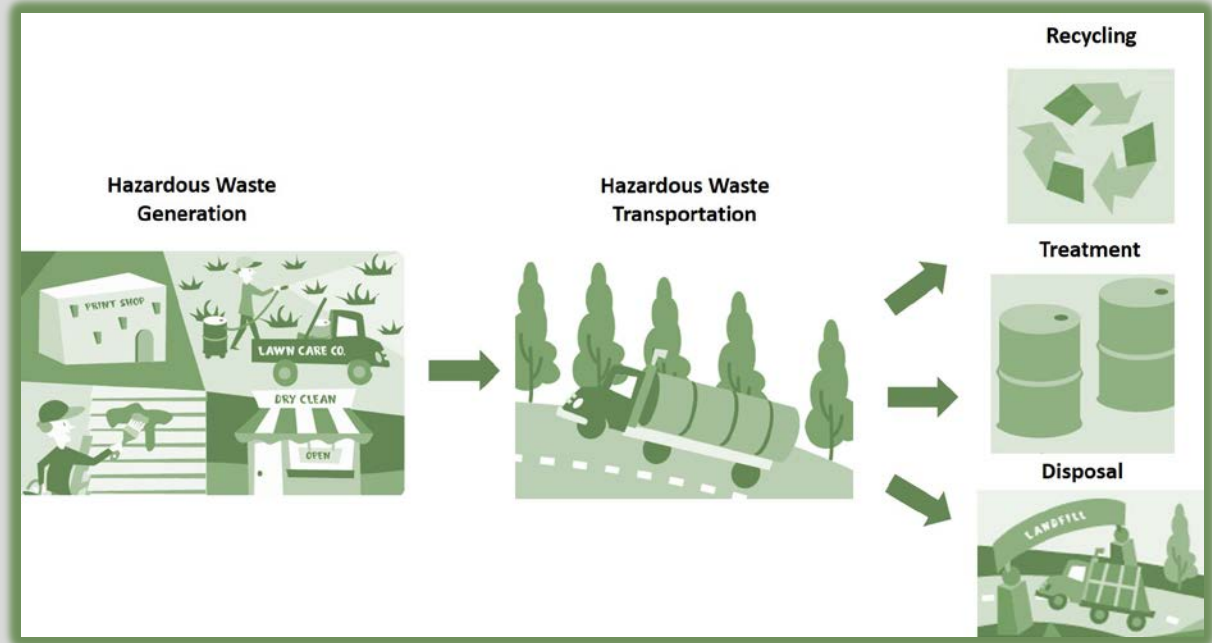


Green/Plant Waste



Hazardous/Toxic Waste

- Pesticides
- Fertilizers
- Corrosive Chemicals
- Cleaners
- Paint
- Batteries
- Ballast
- Bulbs: High Pressure Sodium, Metal Halide, Ceramic discharge, Fluorescent tubes & compacts



*EPA



Municipal Solid Waste

- Biodegradables
- Recyclables
- Construction & Demolition
- Electrical/Industrial Equipment





Green/Plant Waste



- **Growing Median-** Soil, Coco, Perlite, Rockwool, Hydroton, etc...
- **Plant Material-** From all stages of growth must be made unrecognizable/unusable by MED rules & regulations.



Bokashi

- **Is a fermentation process that breaks down plant and organic materials through an anaerobic process involving an accelerator, culture mix, & micro-organisms.**
- **The process takes 7-10 days if done correctly and It chemically changes the material so it's unusable no THC.**
- **During the process the nutrient rich organic material is left in a form that can be easily broken down in soil or compost.**
- **Also a nutrient rich bokashi tea is drained during the process, and can be used in gardens or compost piles as well.**
- **This material can add nitrogen, phosphorous, & potassium back to the soil, or can revitalize, and charge up a compost pile.**



Pros & Cons of Bokashi

Pros

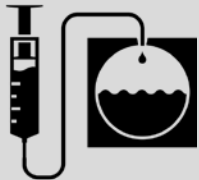
- Renders plant waste unusable
- Ability to manage large amounts of plant material in a compact area.
- Odor won't attract pest's
- End product is rich in nutrients
- Can be used/donated to community gardens or compost piles
- Keeps large amount of material out of Landfills

Cons

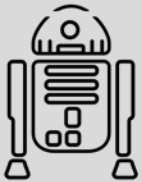
- Cost of Equipment/Machinery
- Labor
- Logistics
- Educating the end user



Management Techniques to Minimize Waste Stream



1. **Develop consistent production formula's**

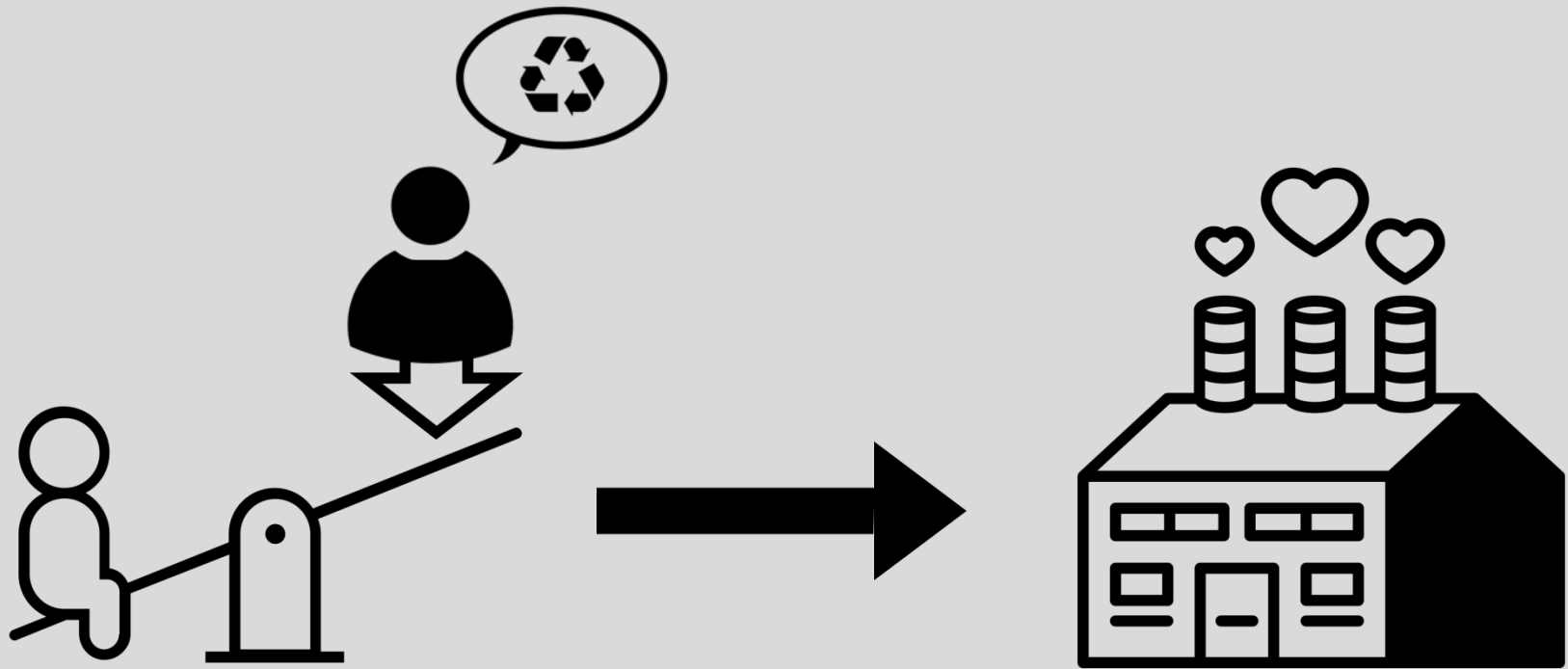


2. **Invest in superior/new technology for energy efficiency, longer usage life & monitoring data**



3. **Prepare a waste management plan in your initial design phase, and integrate it in to your work flow.**

CLEAN Cannabis Strategies



A beneficial relationship for business, community, and our environment



Waste Resources

Hazardous/Toxic Waste:

Waste Management –
wmatyourdoor.com

Region 8 Enviro-
r8enviro.com

Batteries+Bulbs-
batteries pus.com

CDA-
colorado.gov

Municipal solid waste

Waste Management-
wm.com

Alpine waste & Recycling-
alpinewaste.com

Republic Services-
republicservices.com

City of Denver-
denver.org

Bokashi/fermentation

Bokashi Cycle-
bokashicycle.com

Unconventional Farmer-
theunconventionalfarmer.com

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