Full organics management

Pilot proposal for how to add on food waste processing to an existing leaf & yard debris compost site.



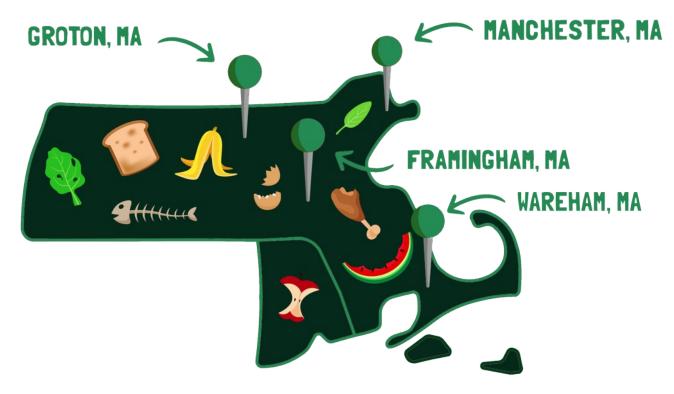


Black Earth Compost

Compost Collection
Compost Production







Why is this important

- Household food scraps is best suited for composting.
- Most diversion.
- 25 sites most cost effective for MA

- Each site handles 5-10 neighboring towns.
- Decentralization Keeps trucking costs low and avoids traffic.
- Nutrient rich compost is a boon for the area's soils.



We propose a pilot project

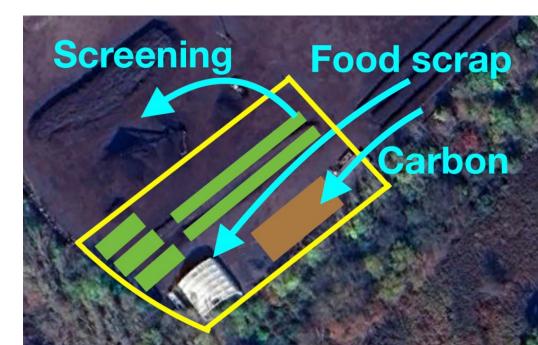
Purpose: Test the controlled addition of food scraps into a side stream of Hartwell's existing management of leaf and yard debris.

Tests: Technical Viability, Financial Viability of composting food scraps at Hartwell.

- 3 year
- ~1 acre in back corner.
- Indoor Receiving of Food Scraps. Aerated Static Pile (ASP) composting method

Questions?

- Black Earth staffs and has a wheel loader
- 3 Trucks stationed bringing food scraps from Lexington and region in (~1:2 ratio)
- 2020 McSweeney assessment
- Transparent Cost/Revenue books on operation
- 5% reduction in Town collection bill = \$20,000/year
- Revenue to Hartwell: \$7-15/cubic yard of food scrap compost that Black Earth sells. = \$20,000/year
- Creates synergies with Hartwell's staff.
- Leads to the big picture goal of **Owning the Infrastructure**



Do Nothing Future

- Hartwell composts only Leaf & Yard Debris
- \$\$\$\$ Cost to collect food waste and drive far away for recycling
- \$\$ Cost to tip at 3rd party recycler
- 3-5 year contract
- Exposed to interstate markets and global markets

Own the compost facility

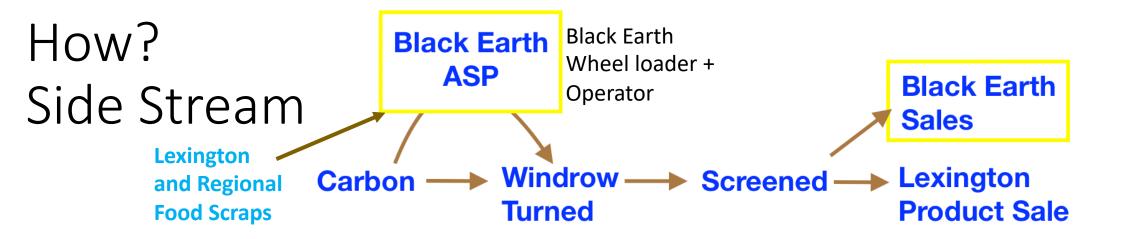
- Hartwell composts Leaf & Yard
 Debris + Food Scraps
- \$\$ Cost to collect food waste and recycle in town.
- \$\$ Revenue from neighboring towns.
- 20-30 year contract
- Resistant to global market strife

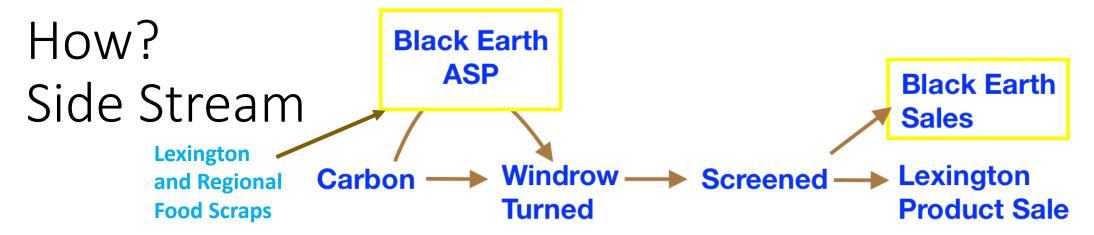




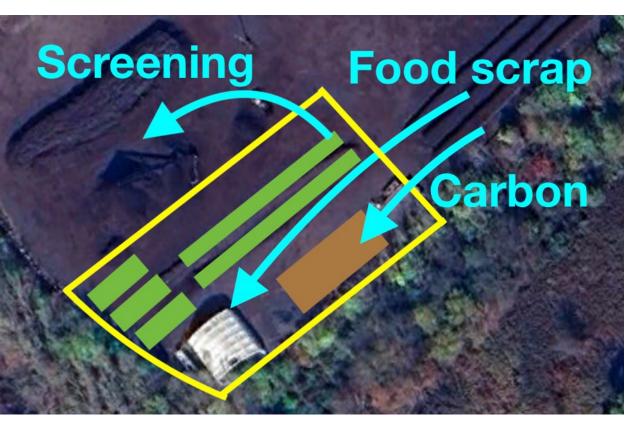


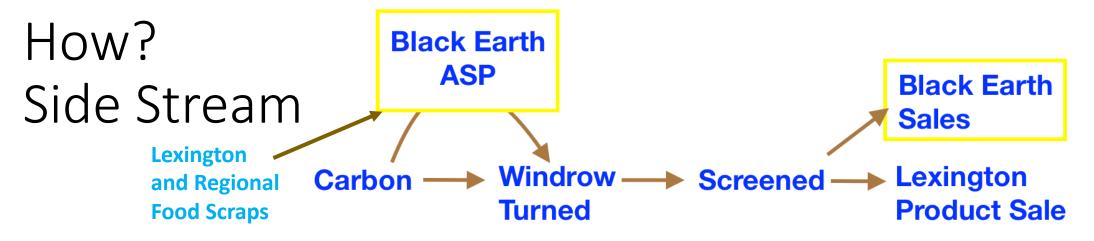
How? Side Stream



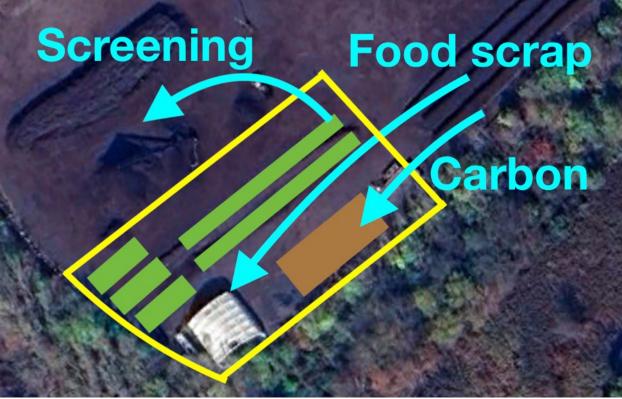


Pilot Phase

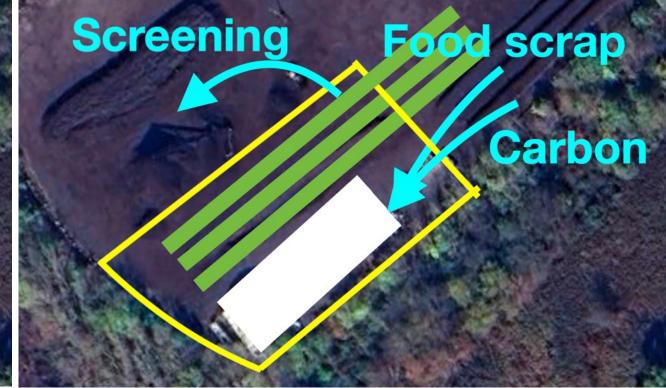




Pilot Phase



Future



Contracting/Procurement

- **DEP Permit**: uses existing town permit
- Term: 3 year pilot
- Start: Summer 2025
 - Site will have least material on it
 - Prep for Fall leaves coming in
- **Procurement**: Exempt from 30B
- Transition: into a long term contract after 3 years?
 - Year 2 consider contracting/permitting for permanent structure
 - Pilot phase baselines town benefits to then frame a long term contract
 - Additional Savings for Lexington