

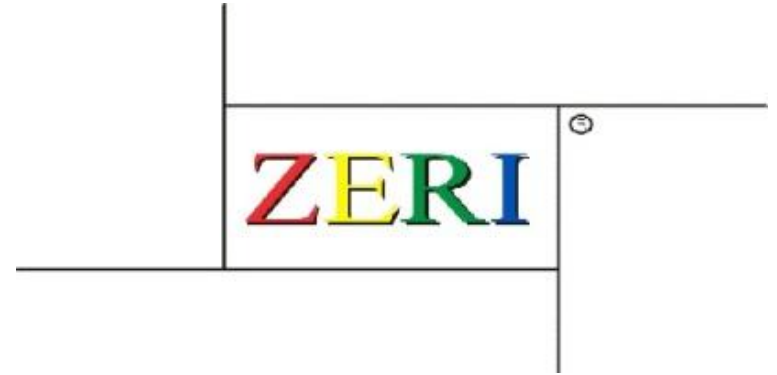


# Zero Emissions Research and Initiatives

*Zero Emissions* – eliminating the concept of “waste” by mimicking natural systems

*Research* – developing novel technologies for creating value-added products from process residues

*Initiatives* – meeting peoples needs on five continents



Cluster enterprises so that the residue from one becomes input for another, producing added TBL value:

- > greater profits
- > more jobs (*Upsizing*)
- > less pollution



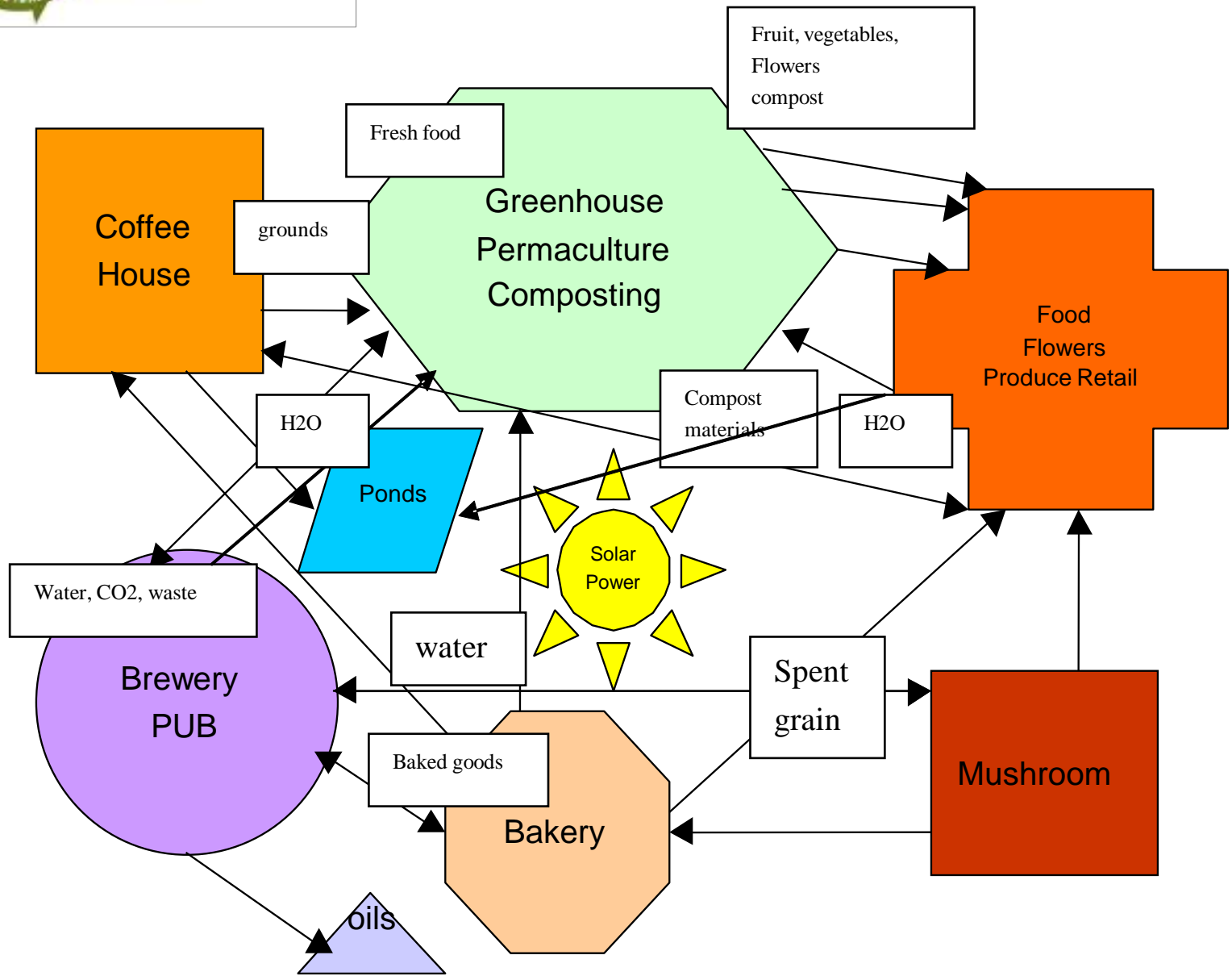
## ZERI Business Model

- Assemble total throughput model using input-output tables; maximize efficiency.
- Seek value-added using output-input tables.
- Model business clusters to exploit the systemic connections.
- Identify breakthrough technologies.
- Identify or design industrial policies to support the business.





# ZERI Durango Ecopark





## ZERI Durango Ecopark



**Durango Compost Company:** vermiculture processing of coffee residue from **Durango Coffee Company** and other organic residues



**Ska Brewery:** multiple waste-reduction initiatives, including potential collaboration with **Durango Compost Company**



# Extended ZERI Business Model

- Step 2: Seek value-added using *relationship mapping* and output-input tables
- Step 3: Model business clusters (*physical and virtual*) to exploit the systemic connections.

