

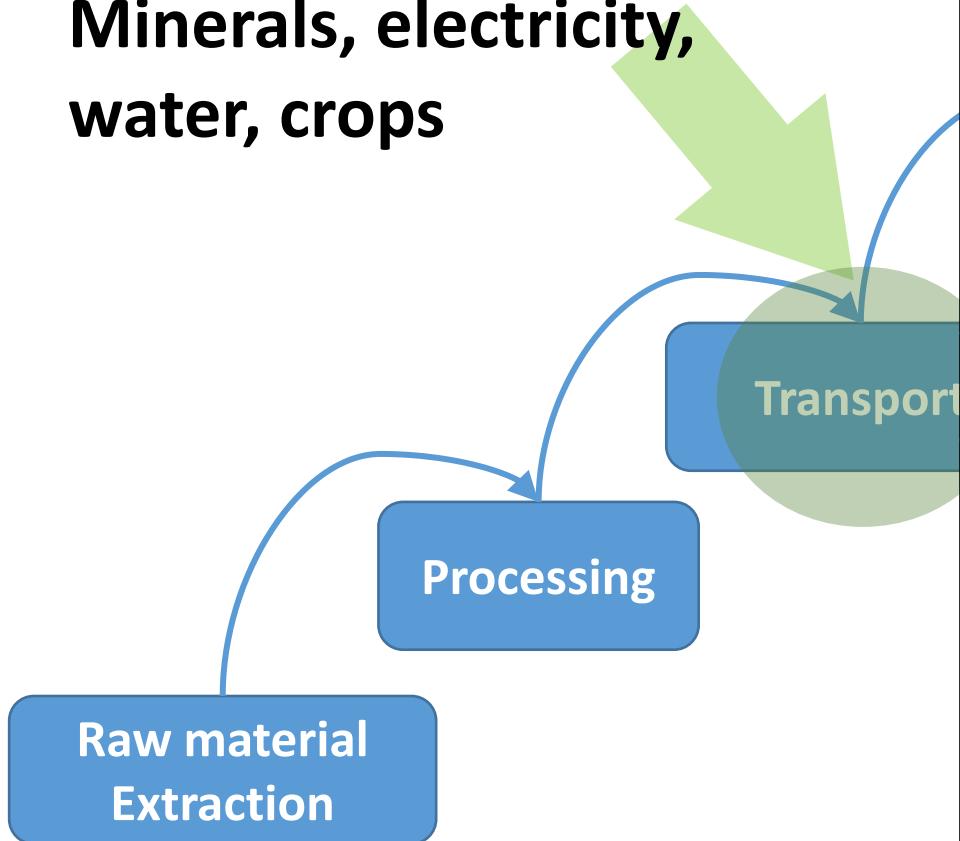
# Life Cycle Assessment (LCA)

## Environmental Evaluation of a Technology



# Life Cycle Stages

**Use of Resources:**  
**Minerals, electricity,**  
**water, crops**



Impact category	Unit
Agricultural land occupation	m2a
Climate change	kg CO2 eq
Fossil depletion	kg oil eq
Freshwater ecotoxicity	kg 1,4-DB eq
Freshwater eutrophication	kg P eq
Human toxicity	kg 1,4-DB eq
Ionising radiation	kBq U235 eq
Marine ecotoxicity	kg 1,4-DB eq
Marine eutrophication	kg N eq
Metal depletion	kg Fe eq
Natural land transformation	m2
Ozone depletion	kg CFC-11 eq
Particulate matter formation	kg PM10 eq
Photochemical oxidant formation	kg NMVOC
Terrestrial acidification	kg SO2 eq
Terrestrial ecotoxicity	kg 1,4-DB eq
Urban land occupation	m2a
Water depletion	m3

**Env. Impact**  
**Function**

- Capacity
- Quality
- Time (20 yrs?)

## 1. Distributed



Multiple, smaller WWT  
on site

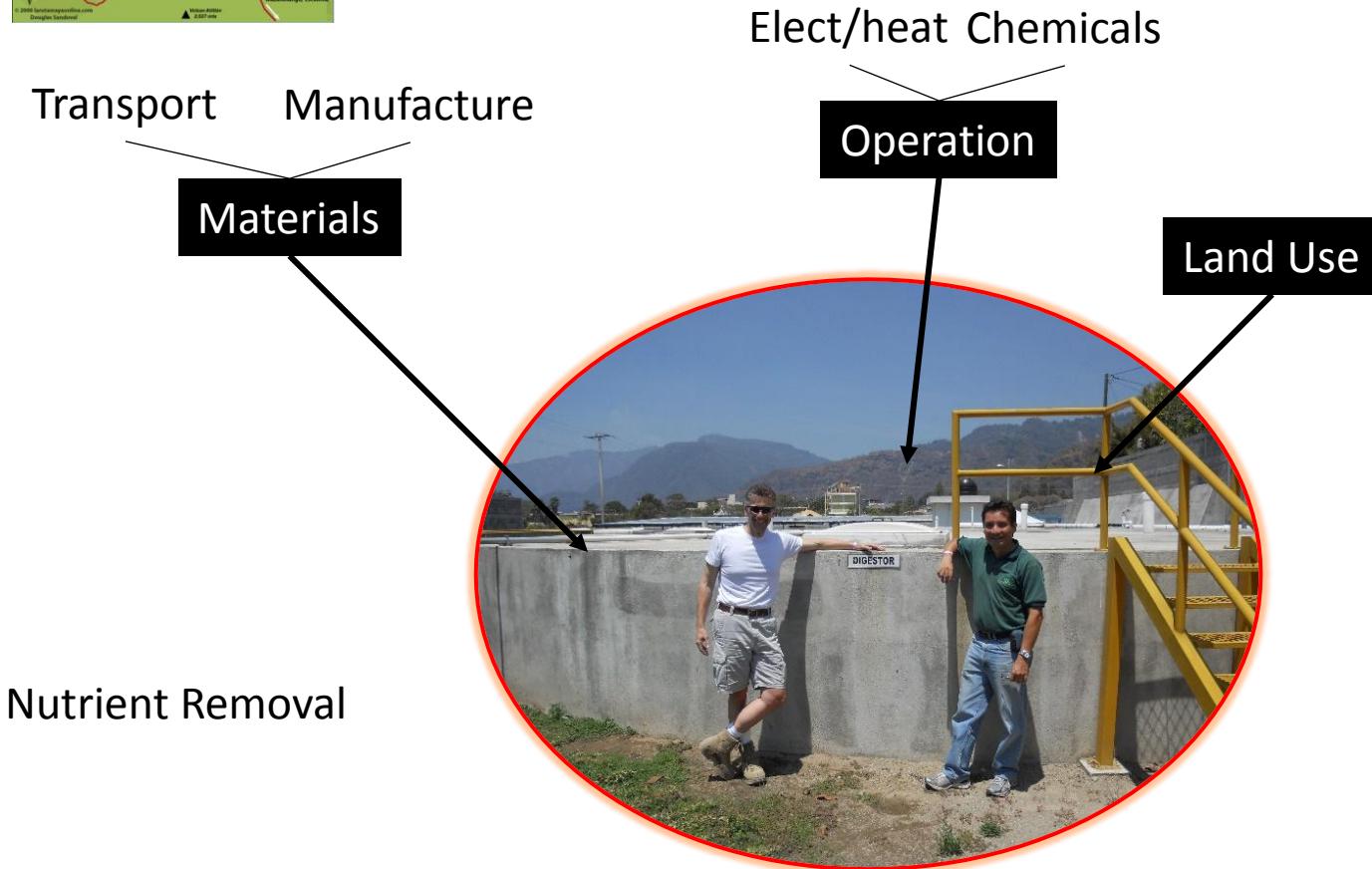
## 2. Centralized



Collection, one central WWT  
Off site



# 1. Distributed





## 2. Centralized

