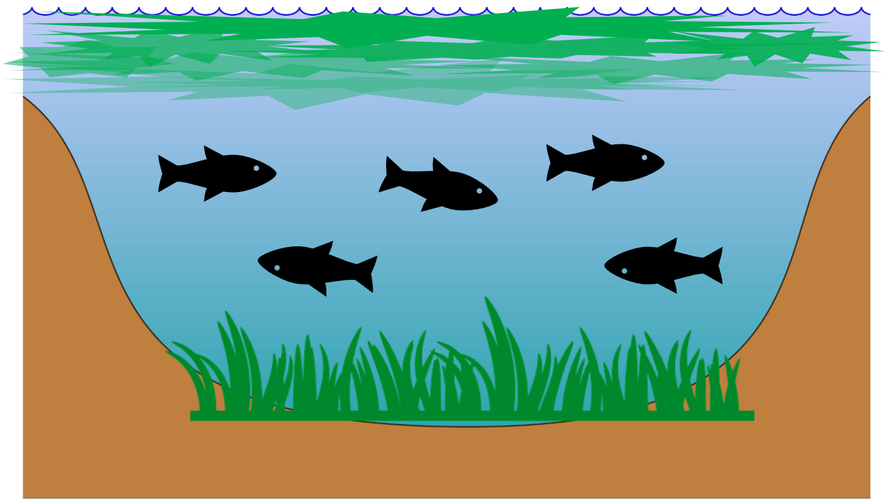
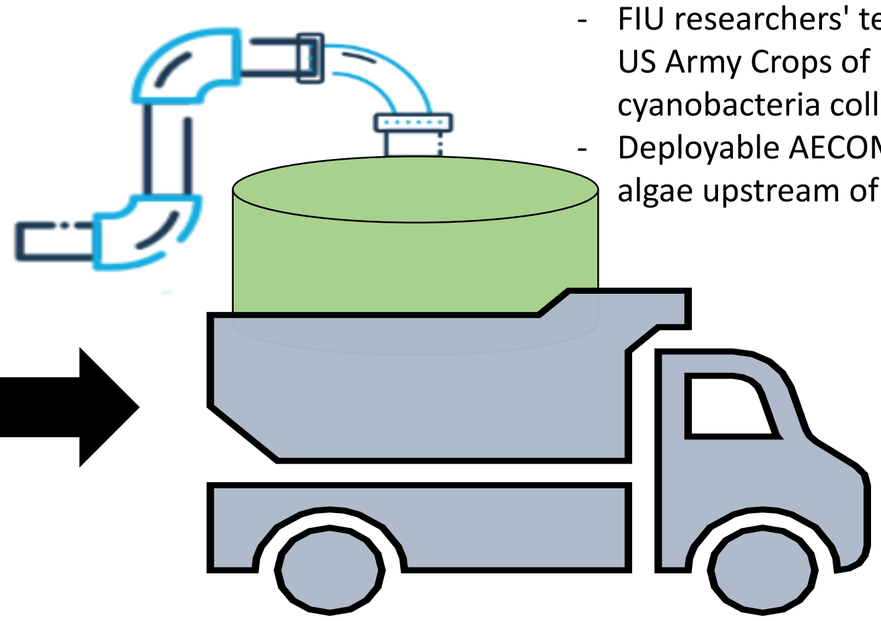
- Cyanobacteria infestation (>60%) in the Lake Okeechobee
- Marine life (Dolphins, Manatees, Fish etc.) is in danger
- Causing several water quality issues (hypoxic conditions)
- Human health problems if consumed infested water



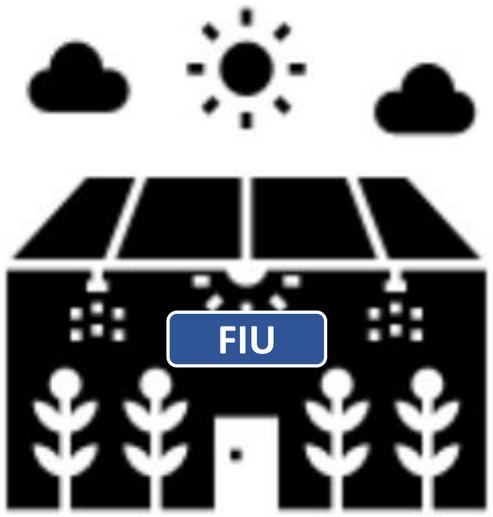
Lake Okeechobee

- “Float it up and skim it off”
- FIU researchers' teams up with AECOM and US Army Crops of Engineers for cyanobacteria collection
- Deployable AECOM system for intercepting algae upstream of a spillway



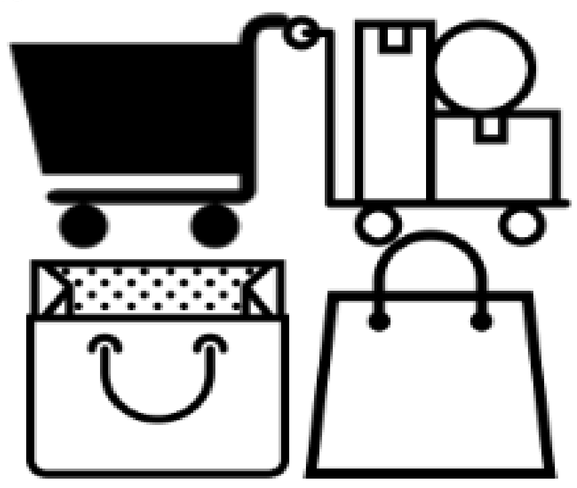
Cyanobacteria Collection unit

- Collected cyanobacteria will be transported to FIU shade house
- Samples will be dried in the facility for biofertilizer preparation



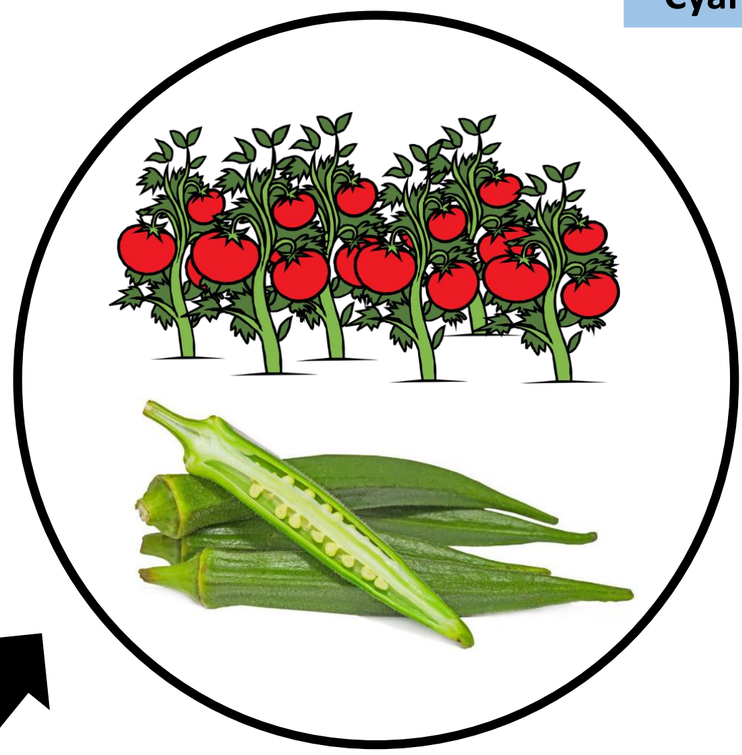
Cyanobacteria processing unit
FIU Shade House

- Processed cyanobacteria will be stored in plastic bags as biofertilizer
- Stored in cool, dark, and dry place
- Plastic bags will be loaded in cardboard storage boxes and ready to be transported in farmers’ field



Storage of cyanobacteria biofertilizers

- Organic tomato (*Lycopersicum sp*) and okra (*Abelmoschus esculentus*) production
- Premium price and higher revenue for farmers



Tomato and Okra

- Cyanobacteria biofertilizer will be applied in our cooperative farmer’s field
- Tomato and Okra production

Farmer’s Field

- FIU Agroecology will conduct workshops, training, and field days
- Role of cyanobacteria biofertilizer will be demonstrated to farmers, stakeholders, and general public
- FIU graduate students will be involved

Extension & Outreach

Figure 3. Schematic diagram of overall project (cyanobacteria collection, processing, application in the greenhouse and field, and outreach activities for this project