Is there an option for intermediate BFT?

There is a need to raise production

Yet, Is it just the big guys game?

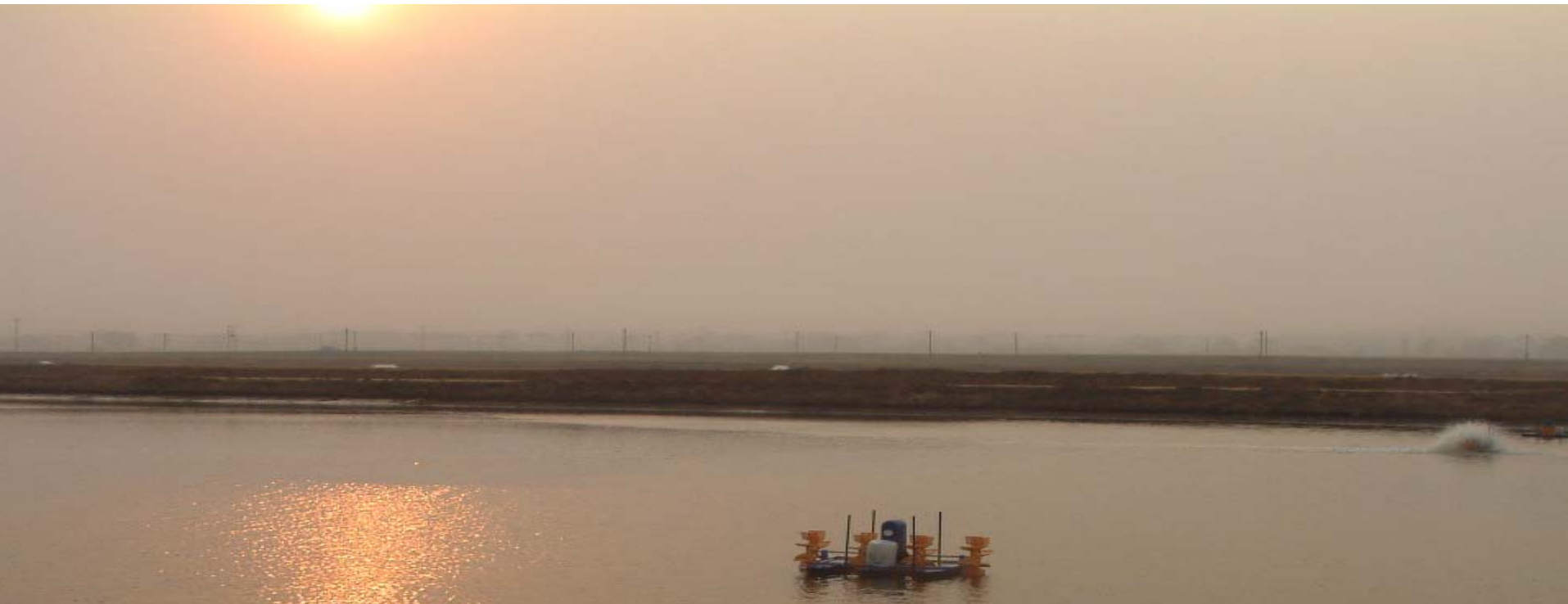
Water Consumption:

Evaporation = 4-10 mm/day

Seepage ~ 2 mm/day

Avg 9 mm/day = 90 m^3/ha day

~30,000 m^3/ha yr

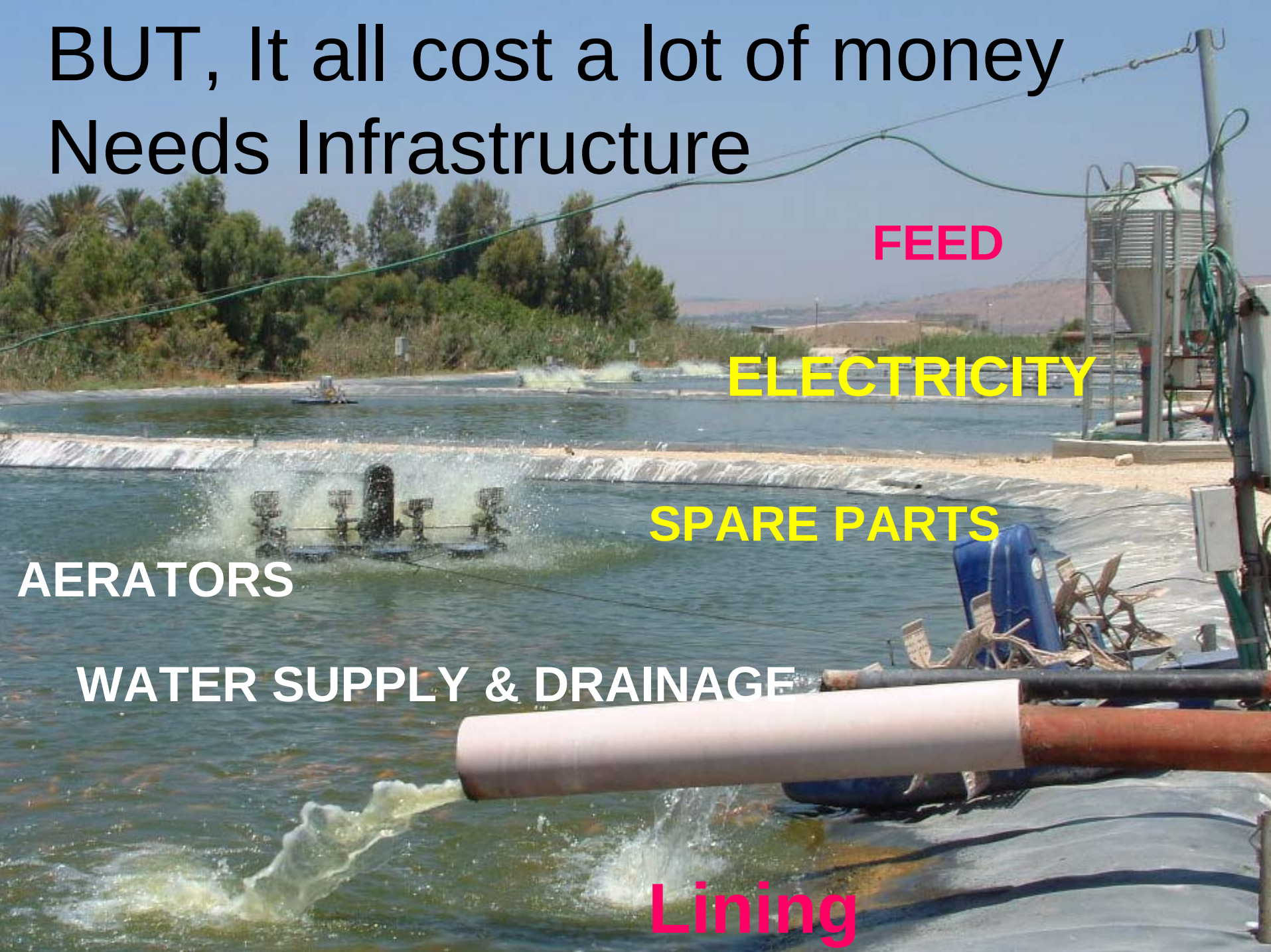


For 1 ton/ha, 30,000 m^3/ton fish
For 3 ton/ha 10,000 m3/ton fish
For 6 ton/ha 5,000 m3/ton fish


Extensive ponds (<2 ton/ha)
Are not sustainable!!!!

Fish for he small farmer?
Fish to the market?

- In many developing countries, most farmers have small impoundments.
- Assume, 20 m2 pond, and biomass of 20 kg/m2, you get 400 kg fish.
- Is it feasible??


BUT, It all cost a lot of money
Needs Infrastructure
FEED
ELECTRICITY
SPARE PARTS
AERATORS
WATER SUPPLY & DRAINAGE
Lining

Lining is essential

- Without lining organic residues mix with the soil and create anaerobic pond bottom.
- Hard to clean.
- Difficult to drain sludge

- Cheap lining???
- Latterites; cheap plastics ??? Residues?

Mixing of bottom

- Using fish to stir bottom
- (Carps, other?)

–AERATION

Gradual build up of optimal aeration capacity?

Fish with low oxygen demand?

- African catfish??

YOUR IDEAS PLEASE!!!

- Readers of the web page are invited to send ideas, response and advice.

- Yoram Avnimelech

- Agyoram@tx.technion.ac.il