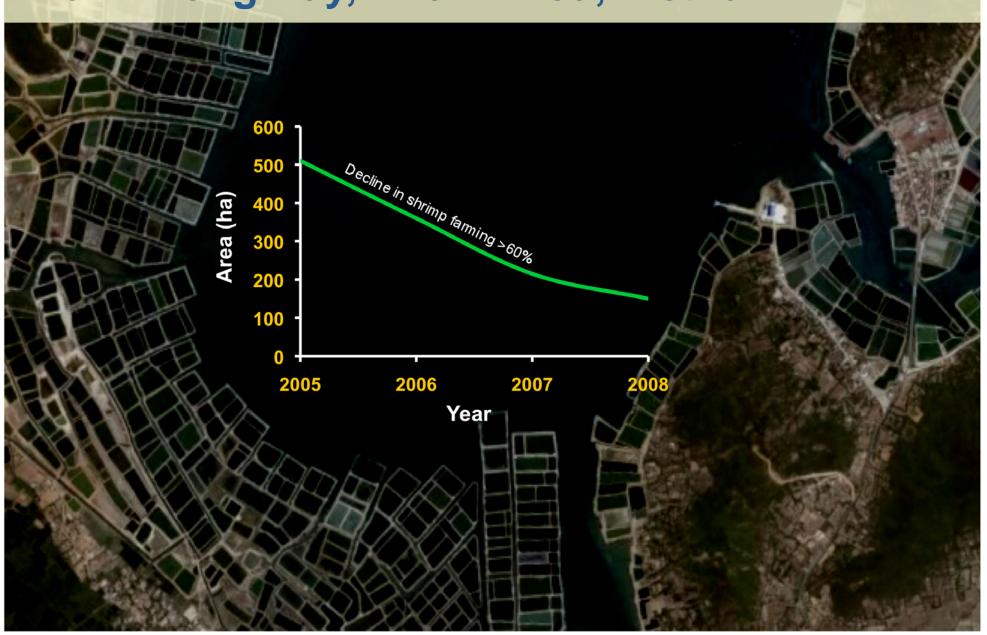


Van Phong Bay, Khanh Hoa, Vietnam



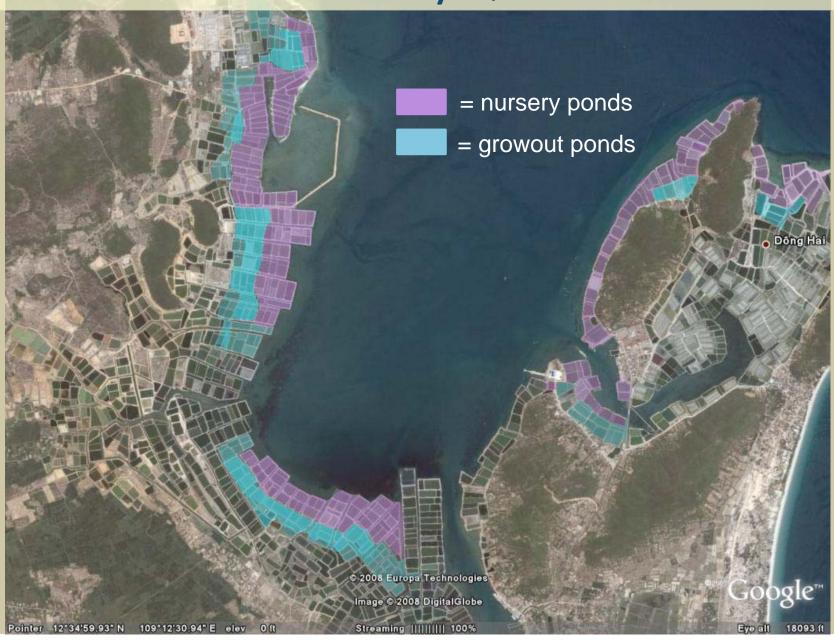




Advanced Nursery - partial solution Hapas Hatchery 2-5g 10,000 Ha⁻¹ month grow-out 10,000 Ha⁻¹ 10,000 Ha⁻¹ 10,000 Ha Limitance Printsery in due teswet ages on 20-50g Sea 10,000 Ha⁻¹ Ranching 10,000 Ha⁻¹

Advanced Nursery - pond use

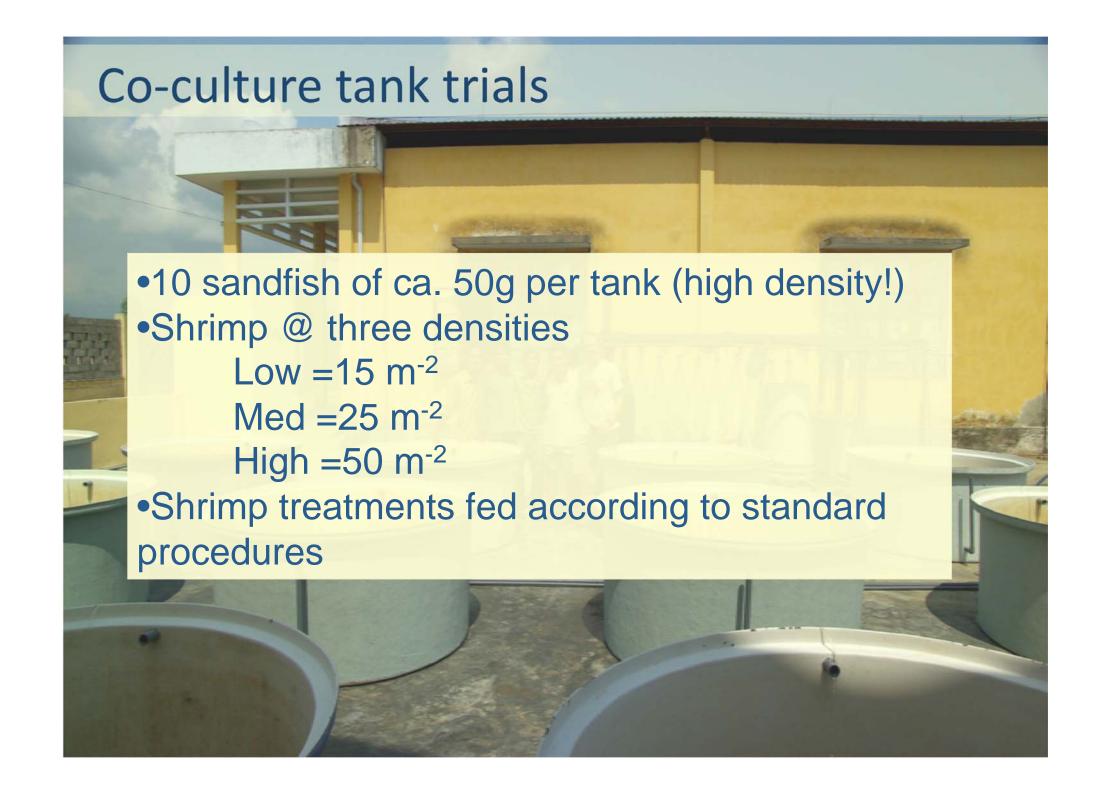




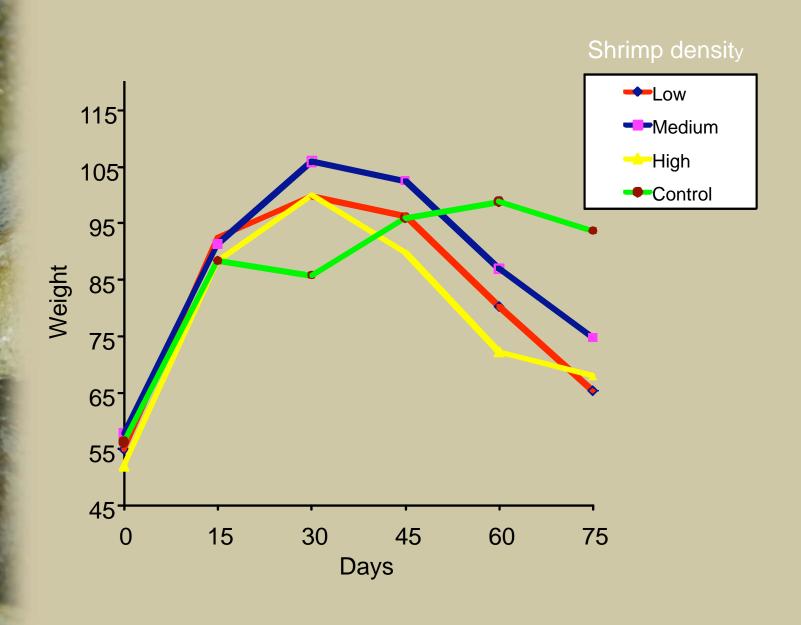


Premise for new shrimp co-culture trials?

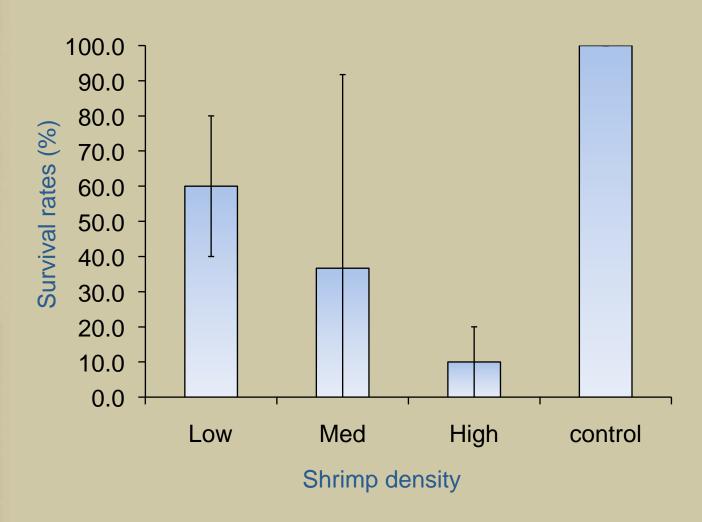
- Hasn't it already been done to death? (Pitt,
 Duy et al monodon, Bell, Purcell et al stylirostris)
- Vannamei has different behaviour patterns less burying/more swimming than monodon, and greater reliance on natural productivity in pond
- Different approach to sizing
 - Sandfish at 40g+ (from advance nursery) with vannamei
 post –larvae
 - Potentially allows for concurrent harvest
- Direct comparison with rotation
- Interest by farmers but high risk



Co-culture tank trials

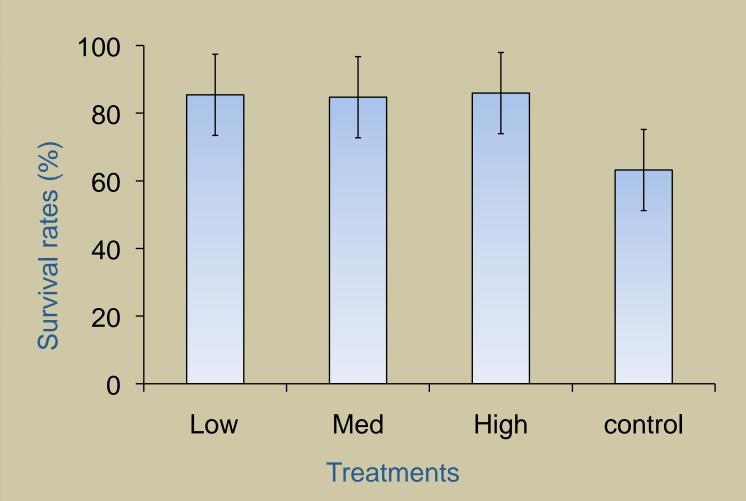


Sandfish survival rates





Shrimp survival rates





The culprit!

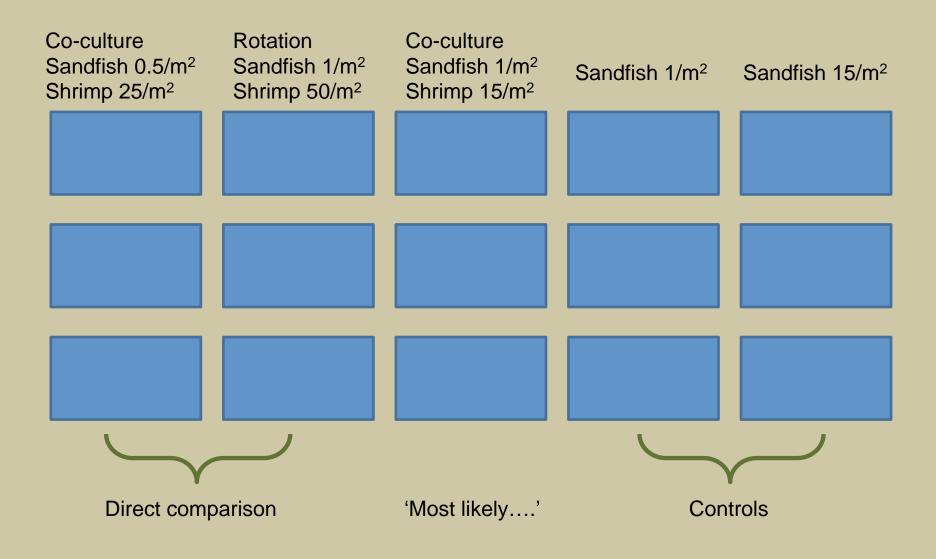






Refurbished ponds

Pond trials – experimental design





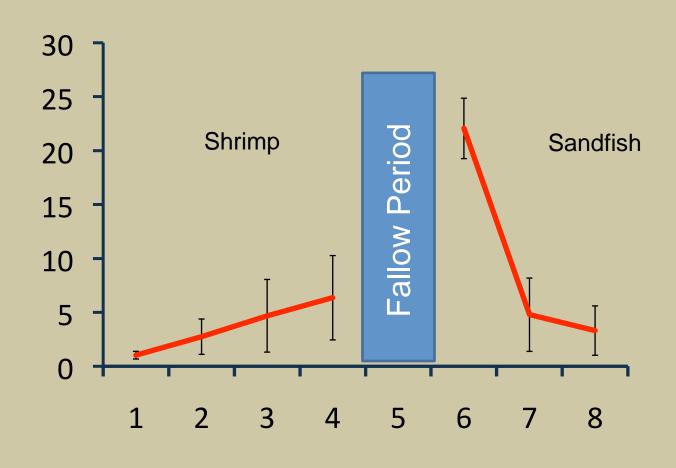
Harvesting shrimp



Growth - sandfish



Rotational culture - sulphur





Conclusions

- Advanced nursery very effective at overcoming issues with grow-out period and wet season
- Will pay substantial survival dividends for ranching
- Co-culture with vannamei is NOT and option
- Rotational culture appears to work well and long-term advantages should be monitored

