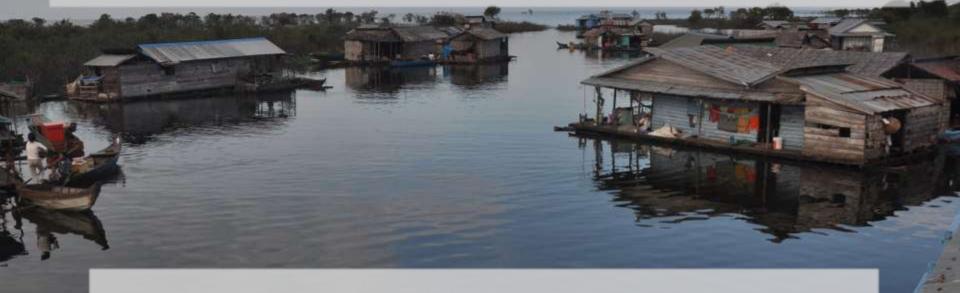
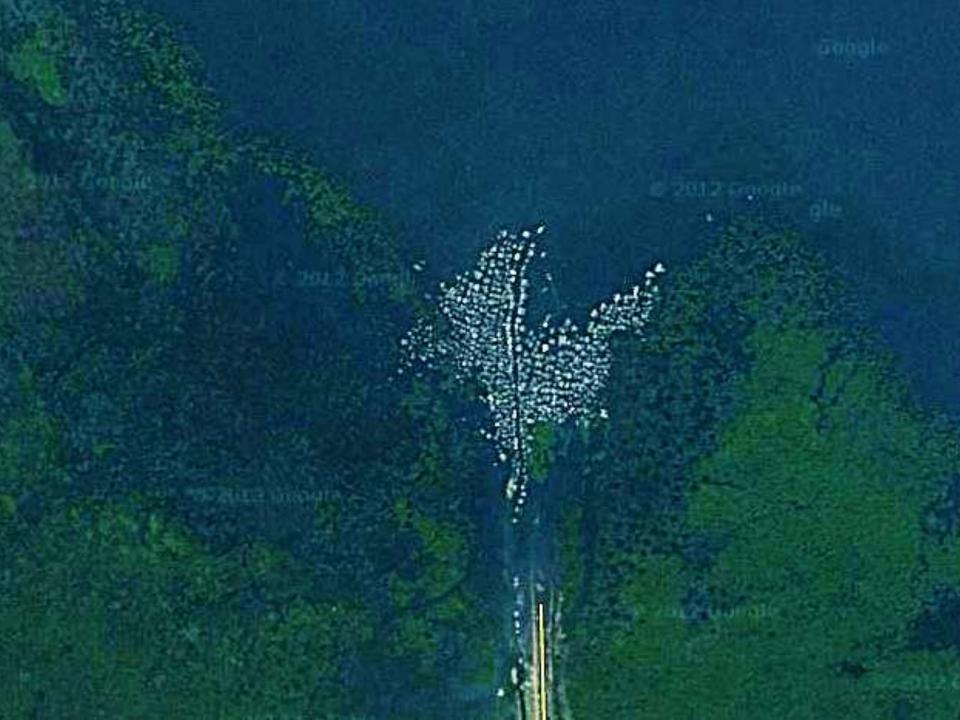


Floating villages



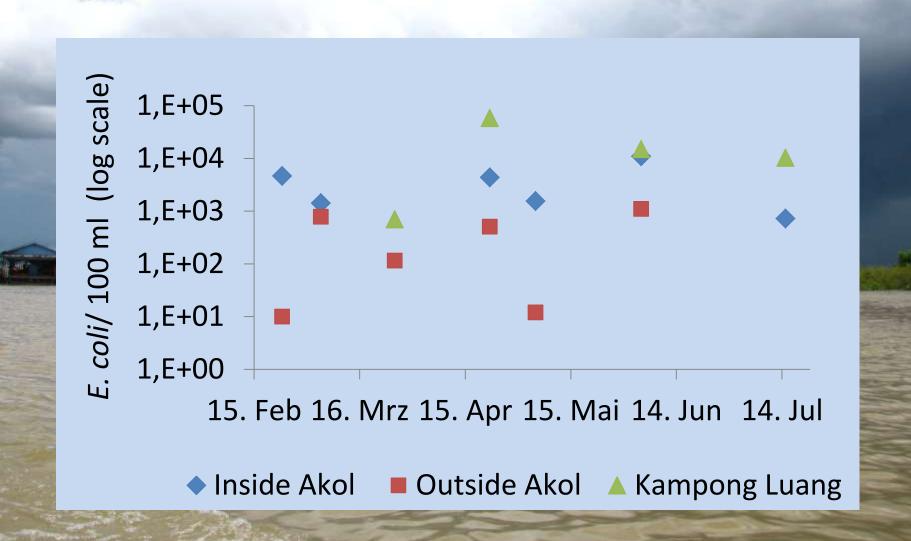
- >100,000 live in floating homes with no sanitation
- Villages move throughout the year
- Difficult to access



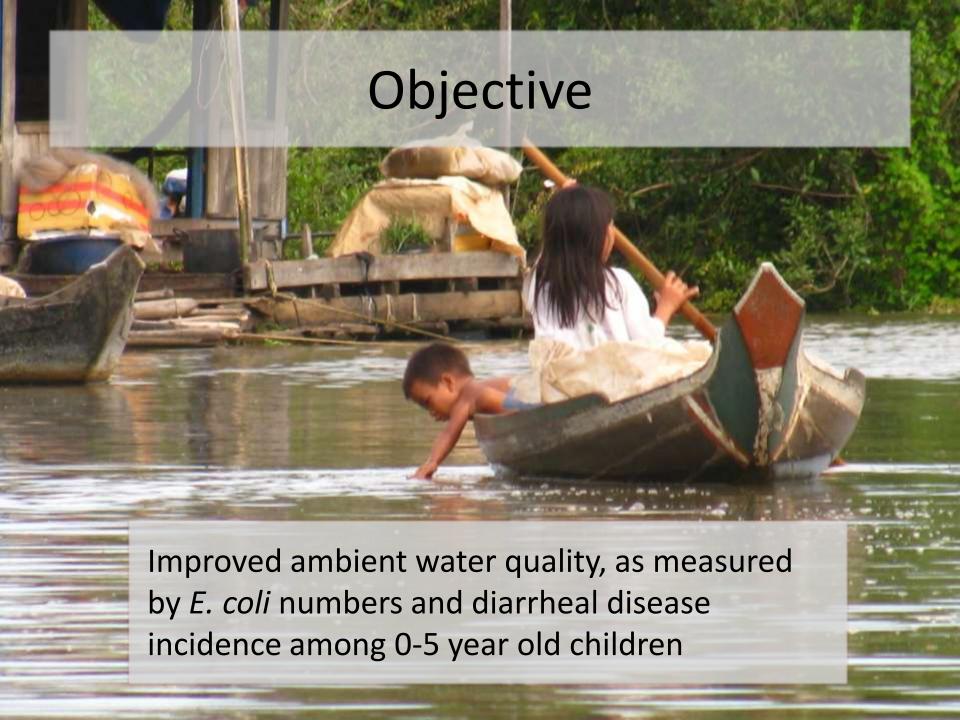




Ambient water quality





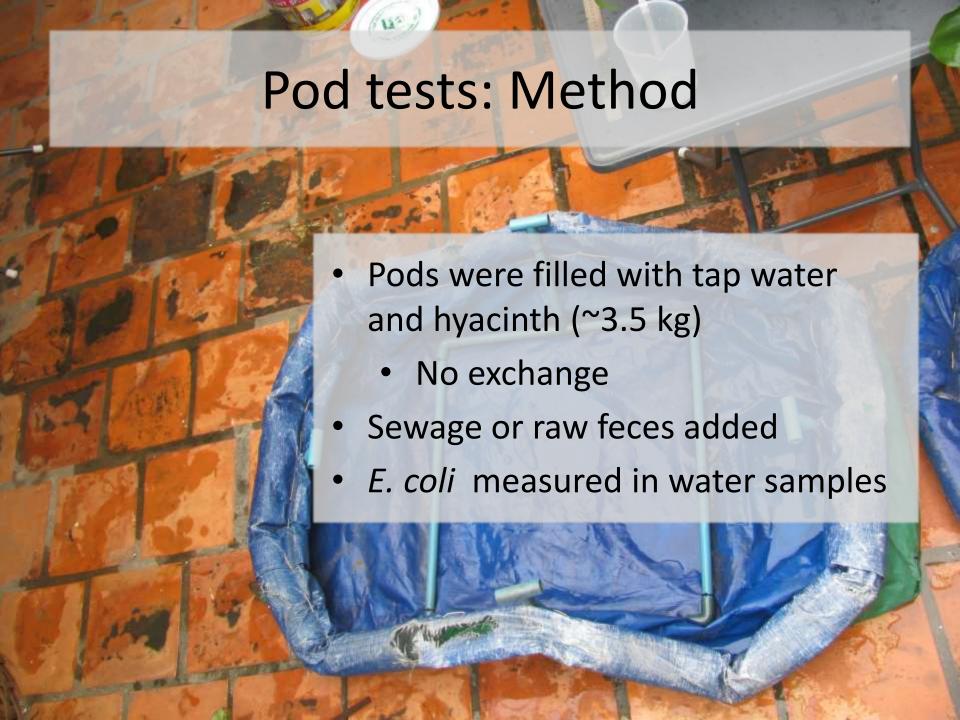




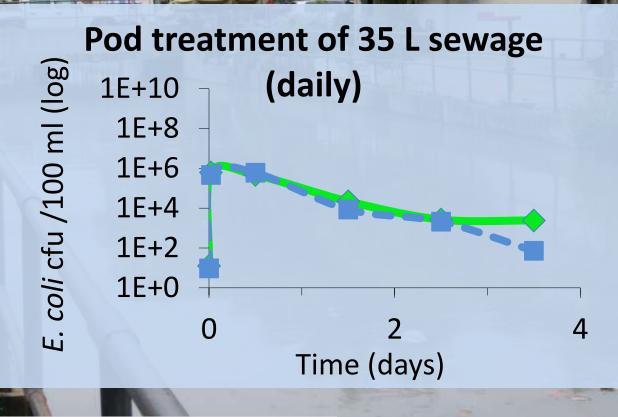


Water hyacinth (Eichhornia crassipes)

- Well-documented remediation abilities
- Originally from South America, now widespread in tropics
- Fast growing
 - In Pod: mass increased 5-fold over 3 weeks
- Resilient
- Large root surface area for microbiological activity



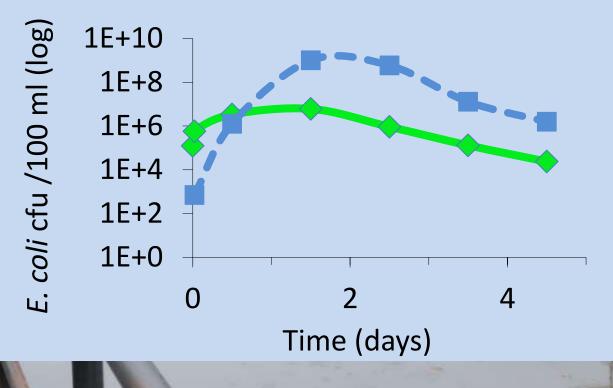
Pod test 1: Sewer water



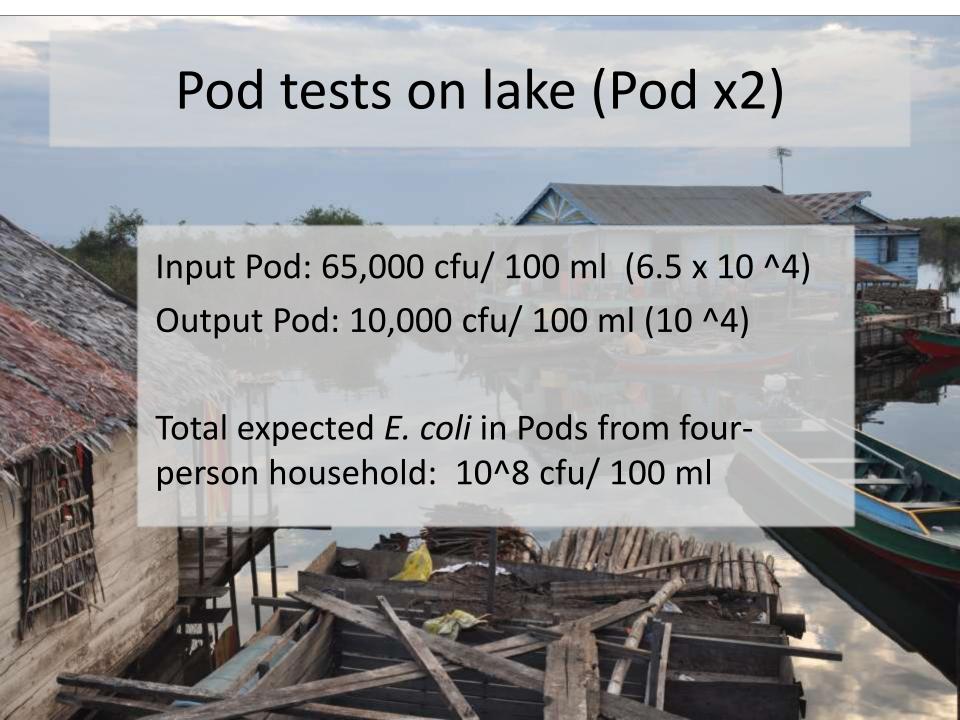
Sewage: ~10-5 - 10^6

Pod test 2: Feces





Differences in smell and appearance of water







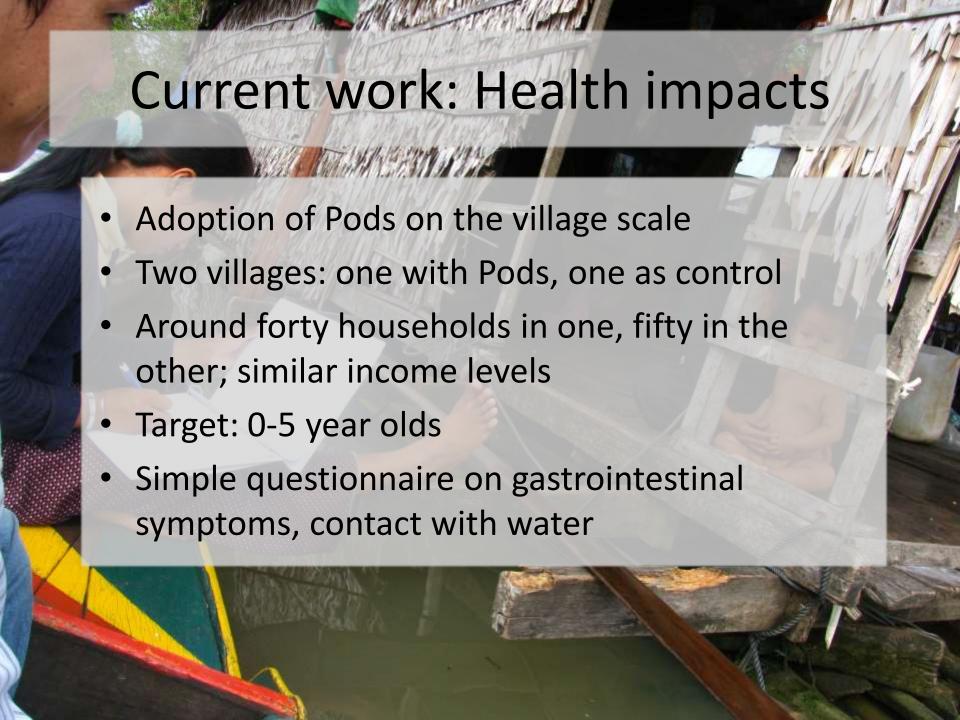
Evolution of design

Key features of design:

- Affordable (current model: \$20, including platform)
- Local materials, production
- Low-maintenance
- User-friendly









Lake Inle



