Providing Access to Sustainable Housing Solutions

Samuel Hsu
Background
Background
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Purpose
Purpose
Goals

- Design
- Build
- Test
Solution

- Manual Compressed Earth Block Press
Design

- Cost
  - < $1000
Design

- Portability
  - Size
  - Weight
Design

- Efficiency
  - Blocks/day
Design

- Simplicity
  - Assembly
  - Maintenance
Design

- Block Shape
  - Consistency
Design

- Block Strength
Solution

- Early Design
Build
Build
Test

- Preliminary Testing
- June Site Team Trip
Summary

- Designed Press
- Built Prototype
- Test Prototype - June Site Team Trip
Future Work

- Redesign Tubing
  - Reduce Tubing Size
  - Variable tubing position
Future Work

- Ease of Assembly
Future Work

- Corrosion Resistance
Future Work

- Measure Block Strength
Future Work

- Measure Press Pressure
Future Work

- Measure Press Pressure
Future Work

- Add Linkage Stop
Future Work

- Redesign Lid Catch
Conclusions

- Sustainable Housing
- Potential Business
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Questions?
PROVIDING access to sustainable housing solutions

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