• tiring, back-breaking work constantly bending over



RANGF

BIG PROBLEM!

Market (worldwide)

- 1.3 billion workers
- \$105 billion industry

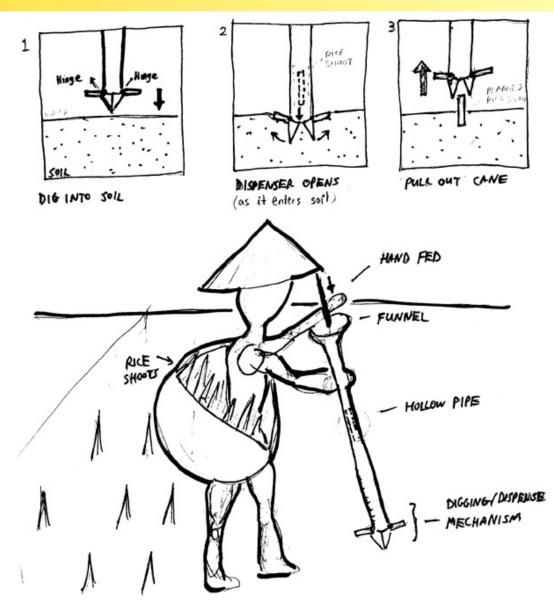
China

- 0.5 billion workers
- costs \$125 USD per hectare more to transplant by hand
- 28 million hectares
- manual labor is 50% cost of production



Design intent

- simple
- ergonomic
- portable
- manageable in mud
- low-cost

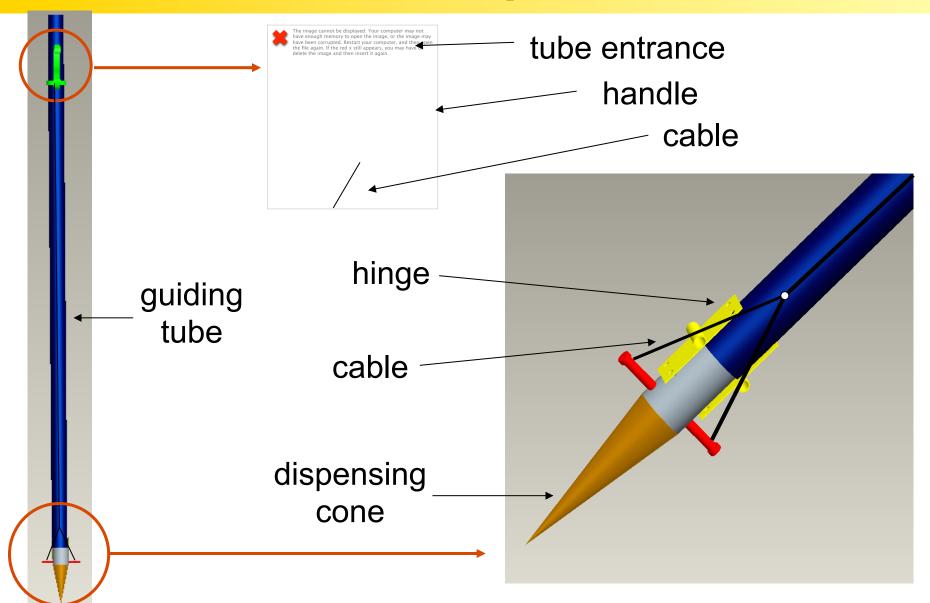


ORANGE

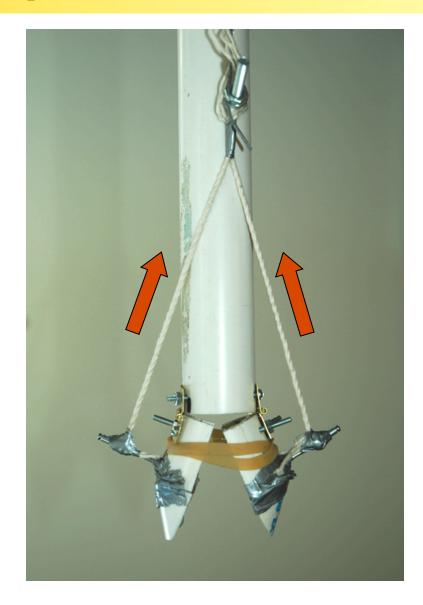
В

ORANGE

B







ORANGE

В

Next Steps

- adjust tube diameter prevent tube blockage
- optimize dispensing cone shape strengthen the cantilever
- replace hinges with torsion springs restoring force to reset dispensing cone
- shield cable prevent cable from breaking or clumping with mud