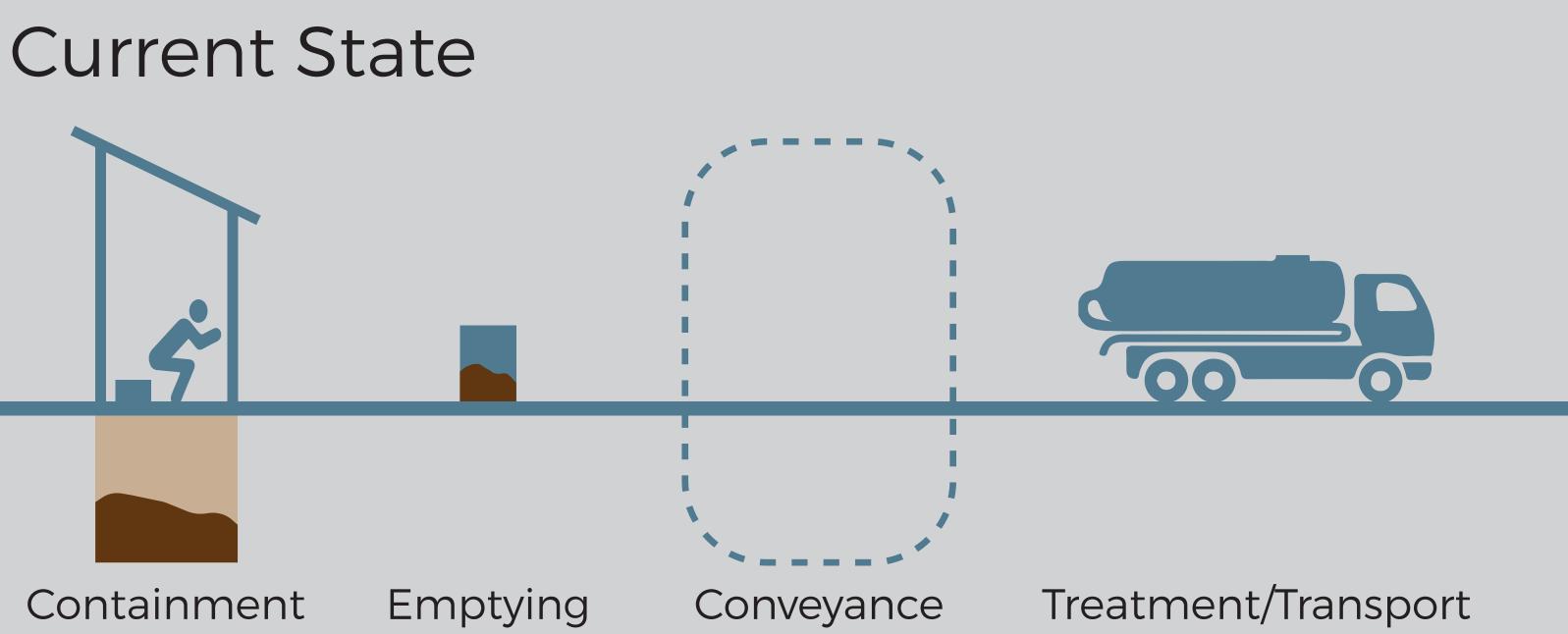
Bill & Melinda Gates Foundation SCOPE Team

Context		Re
	Sewered sanitation is expensive	20 r
	Pit latrines are a common solution	100 3 L/9
	But pits fill up	4 ba



Our Task

Connect two 3" interfaces with a cheap, durable, and lightweight system without causing harm to the users and the environment

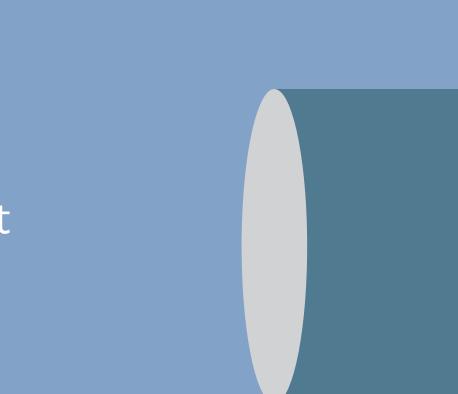
equirements

m vertical travel

) m horizontal travel

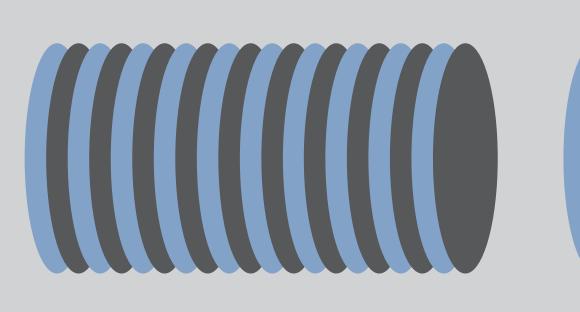
/s travel speed

par pressure



Solution:

Hose



3" EPDM Intuitive setup Stored on truck 7 sections 50ft length

Impact

(+)

Pit contents get treated instead of dumped



Safer working conditions



Homeowners save time and space

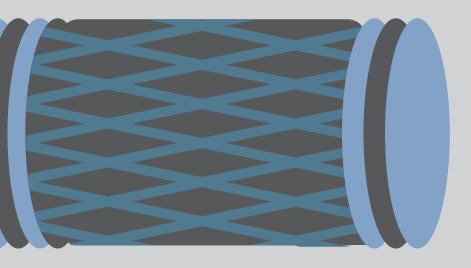
Team members: Mary Keenan, Gwyneth Phelps, Steven Meyer, Claire Kincaid, Micaela Chiang



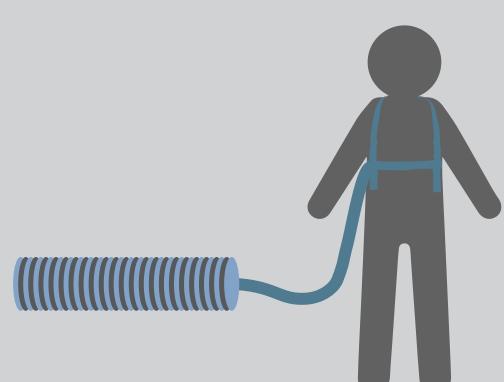
Faculty Advisor: Scott Hersey

Hose Trap

Harness



Strong seal Lightweight Easy to use Flexible webbing



More ergonomic Inexpensive Easy to use Improves setup time

Next Steps



Continue developing connectors



Investigate manufacturing hose in-house



Determine details of harness manufacturing









