

Soil Types, Excavation & Compaction

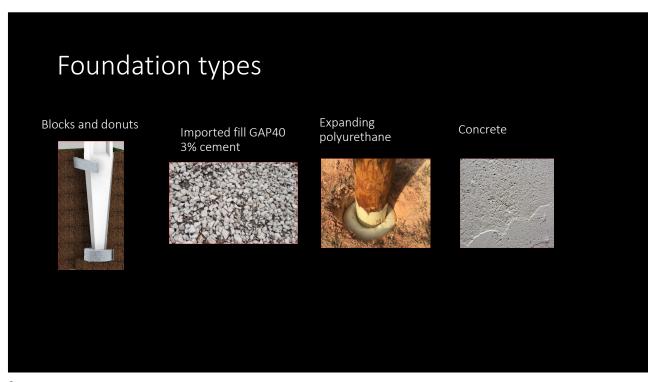
2 types of excavation

Non cohesive soil

Cohesive soil

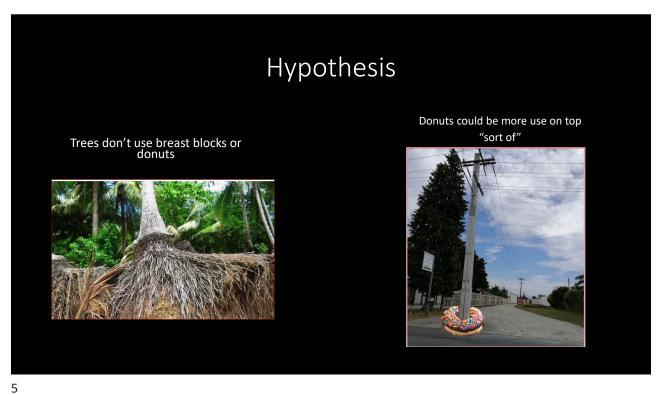
Compaction of soil using hydraulic tamper good for cohesive soils

Compaction of soil using a vibrating plate compactor good for non cohesive soils

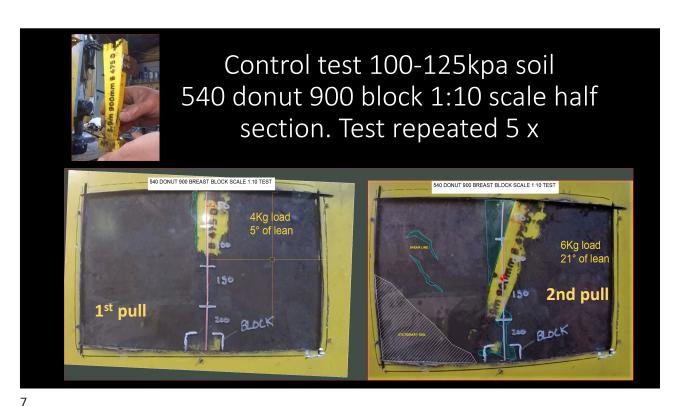


## Question

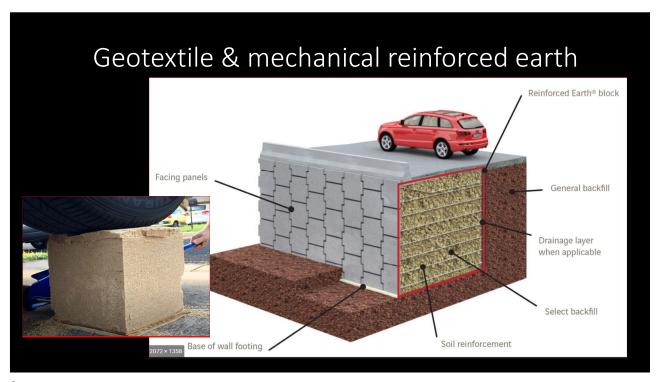
- How is the soil moving as a result of pole overturning
- How can I insure soil compaction was correctly installed
- What can I do to improve foundation strength



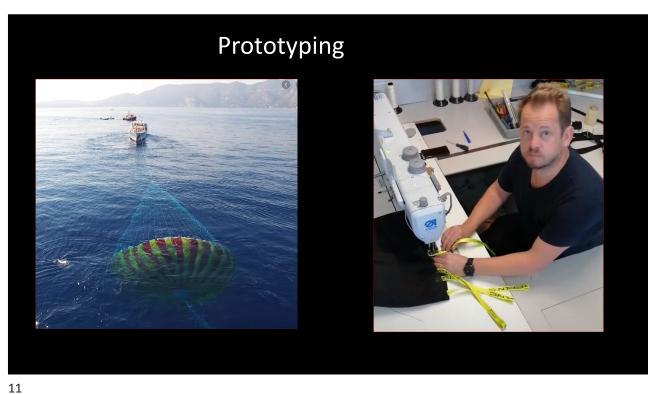


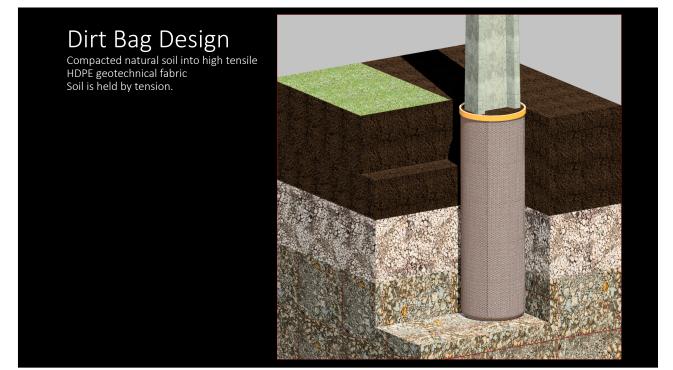


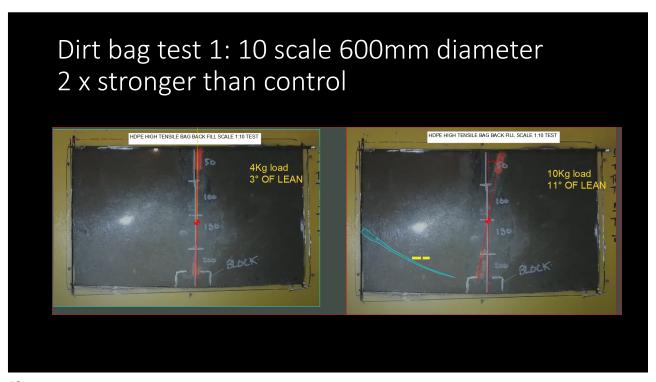
## Imported back fill test 1:10 scale 540 donut 900 block MPORTED BACK FILL SCALE 1:10 TEST





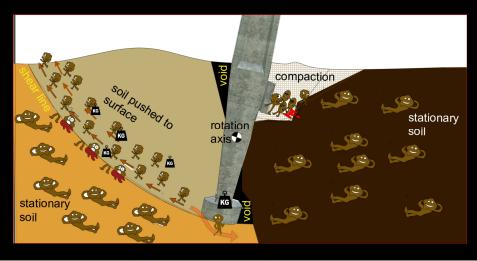








## Conclusion Controlling the shearing of soil is the best design



15

## Mechanical soil reinforcement

- Is 1.7 to 2 x stronger then the control method in all soil types tested
- Controls the shear lines in soil
- The weight is 2% of the control method
- Made from recycled HDPE
- Controls contraction and expansion of soil due to moisture change
- Will never rot or rust

Donuts on top.....sort of

2000kg mass compaction method removed after 3 to 6 months

