

Fortrac® 3D An Advancement In Erosion Control and Slope Repair

Revegetation and Erosion Control going hand in hand





Applications for Fortrac 3D

 Fortrac 3D - Erosion Control – slopes, channels, stream banks, levees

 Fortrac 3D-A - Engineered Slope Repair and Reinforcement – Repairing shallow slope failures with Fortrac 3D and earth anchors



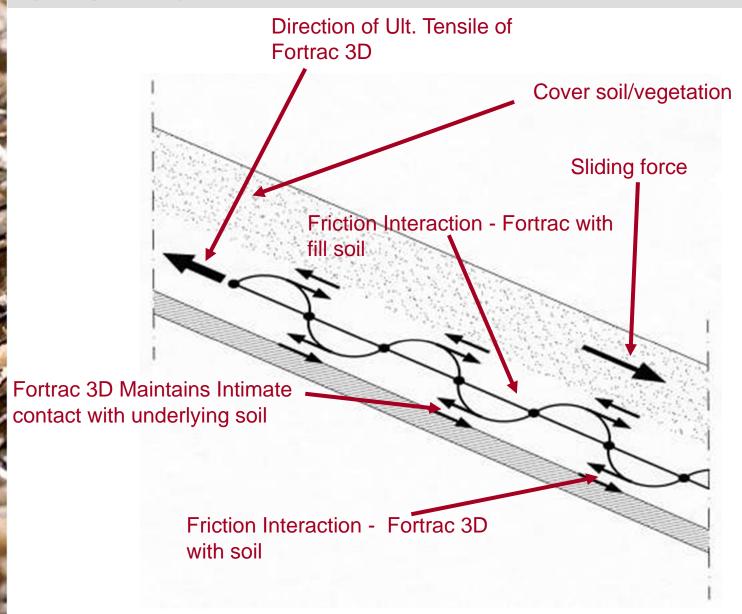
Benefits of Fortrac 3D verses other TRM's

- Strength Options of Uniaxial Geogrid
 - Fortrac 3D 30,60,90,120 combines high wide width tensile strength options (2055 lb/ft – 8220 lb/ft per ASTM D-6637)
- Low Elongation (12% Maximum vs. up to 65% in other TRM's)
- Variable Mesh Density to match soil and vegetation type to be used
- Wider and Longer Roll Size (14.76' x 328.1' = 538 yd2 per roll) Allows for longer continuous runs and reduces overlaps and end laps

www.huesker.com



Fortrac 3D Application Concepts





The roots of plants intertwine with the grid structure of Fortrac 3D adding reinforcement to surface

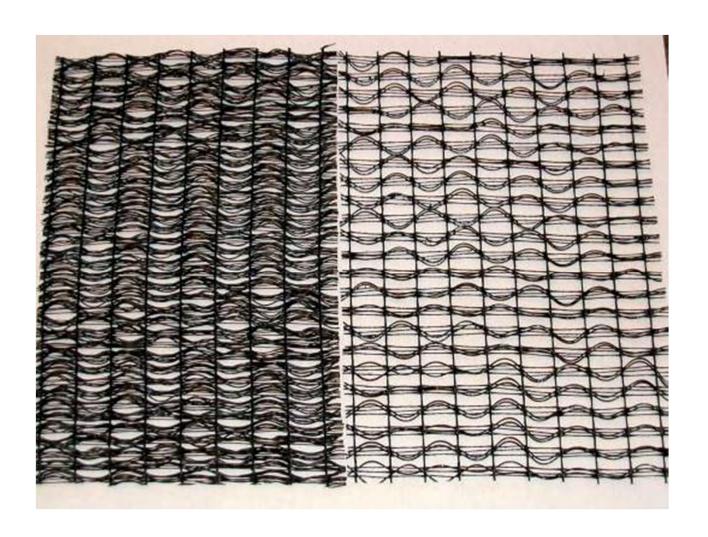








Variable Density Options on Fortrac 3D





Benefits of Fortrac 3D-A System

- Designed for Shallow Plane Slope Failures
- Low impact solution, no large equipment or slope cut/fill required
- Slopes can be vegetated creating a storm water Best Management Practice
- Huesker Design support
- Aesthetically pleasing
- Less costly than traditional repairs



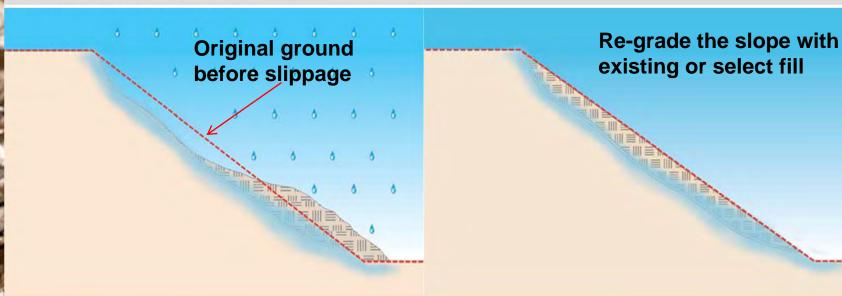
Typical Slope Failures

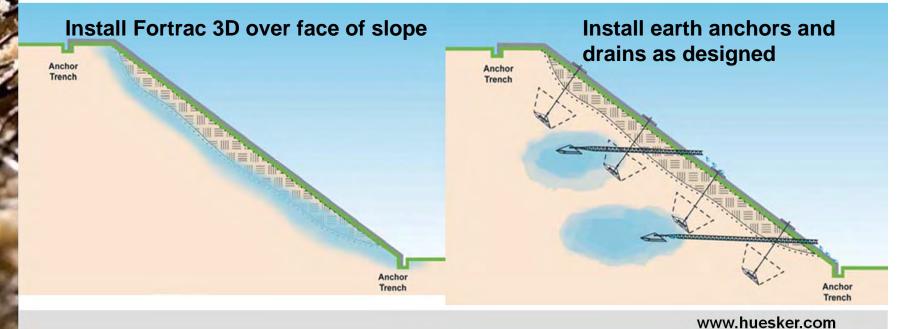










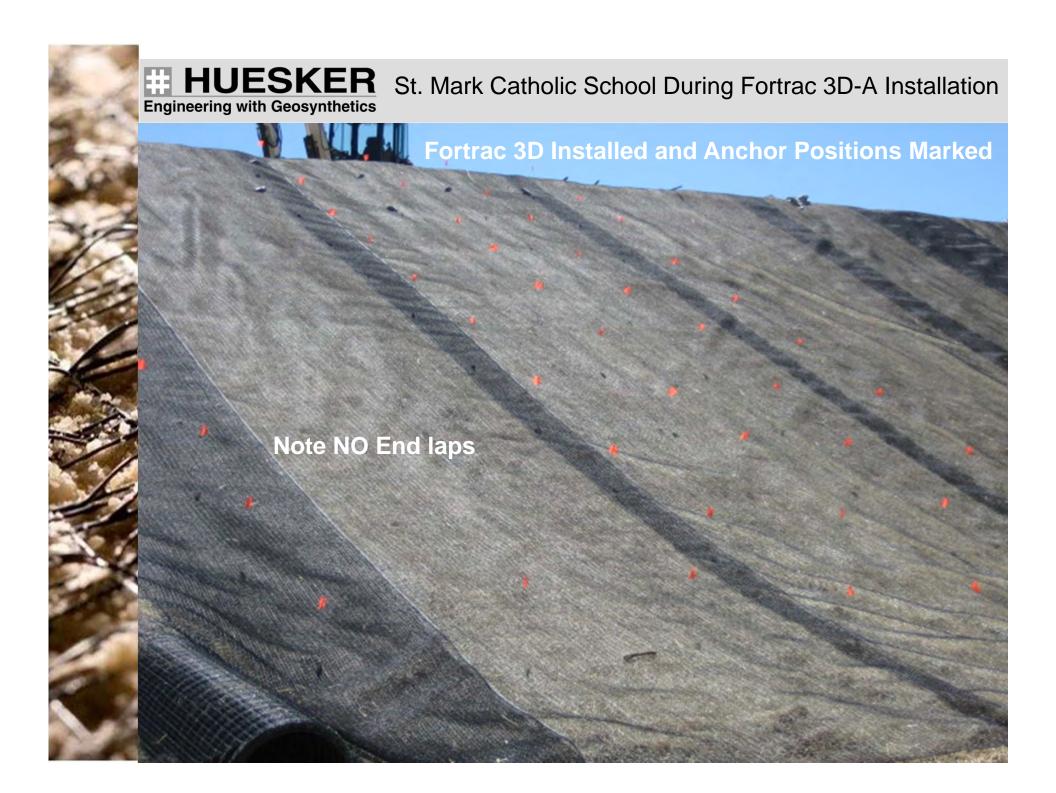


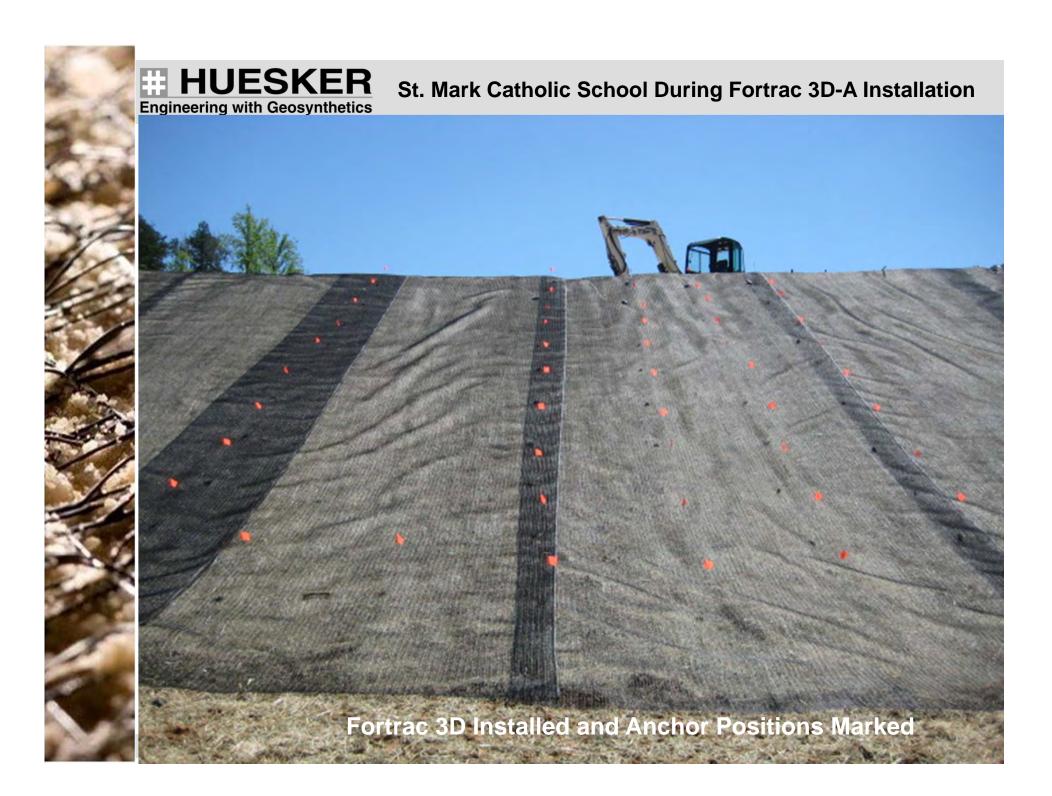


Recent Projects with Fortrac 3D-A System

- St. Mark Catholic School, Huntersville NC
- Carolinas Medical Center, Northcross NC

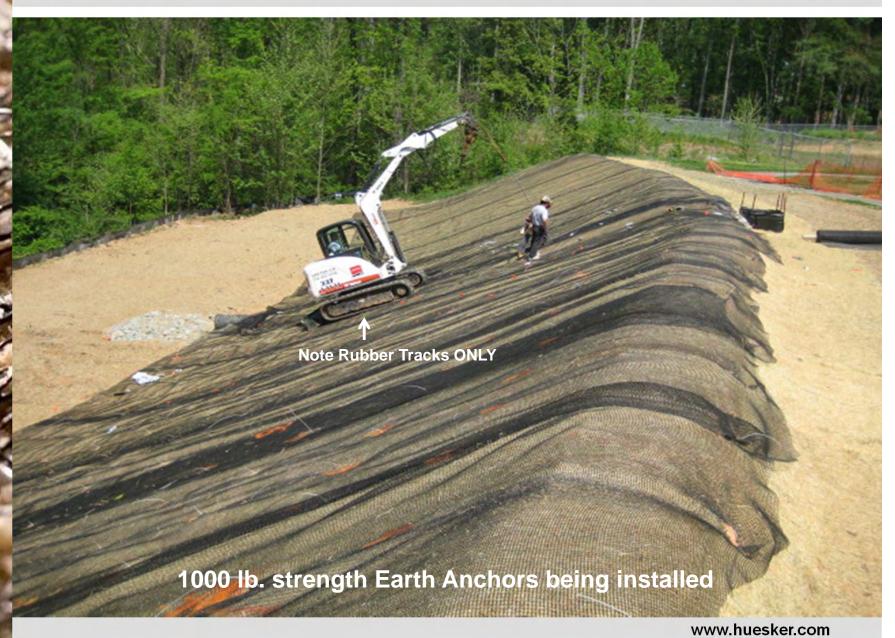








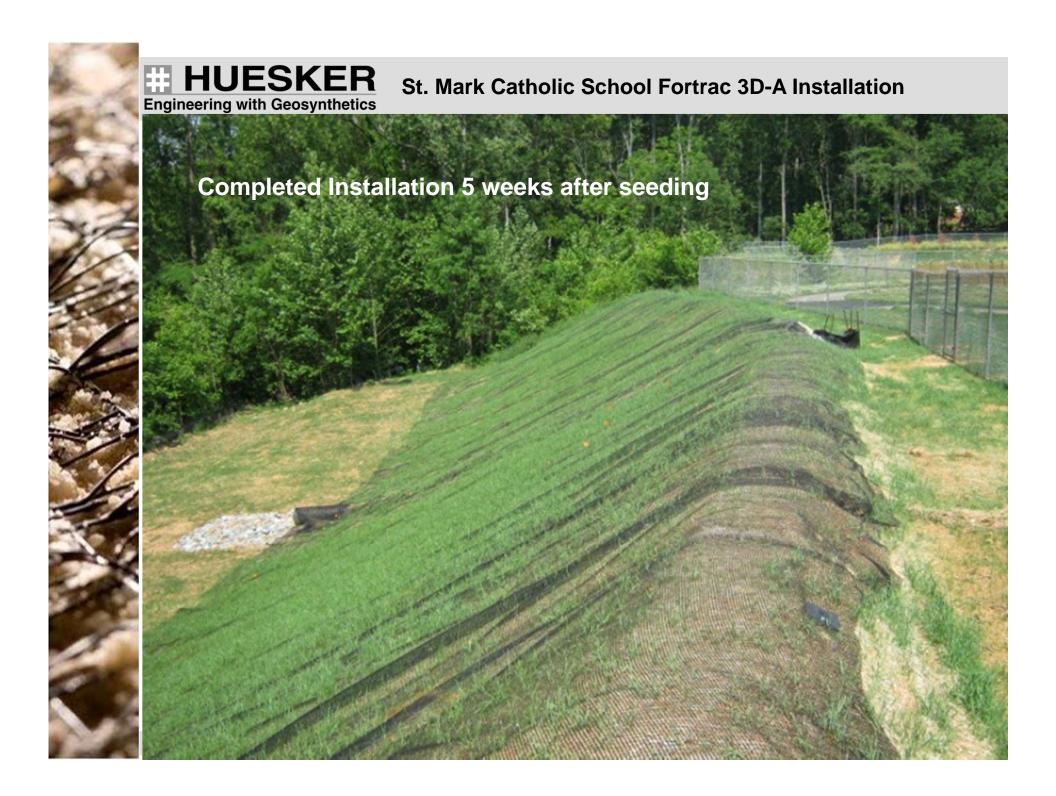
St. Mark Catholic School During Fortrac 3D-A Installation

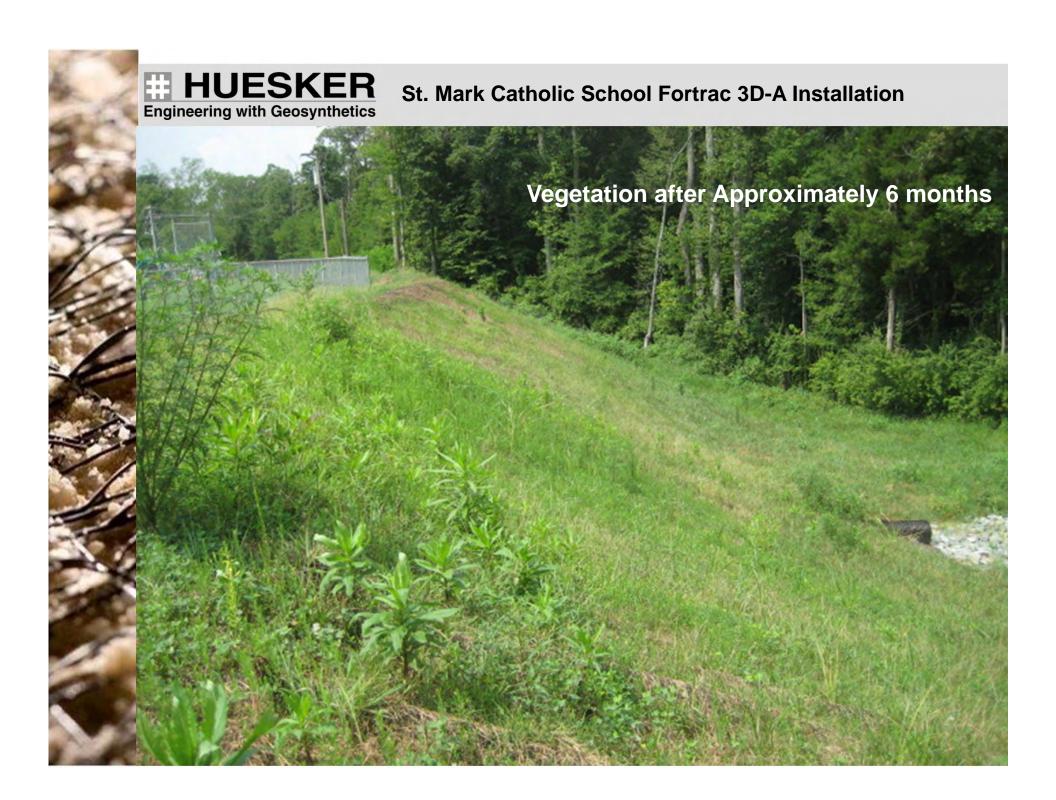


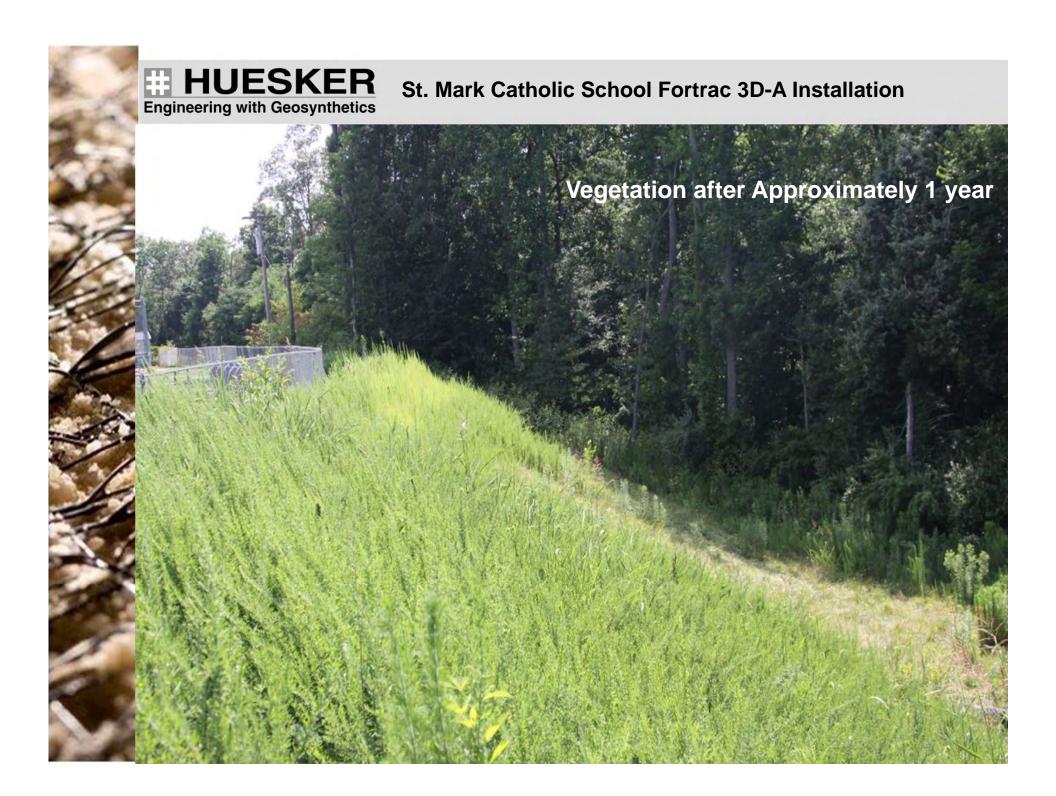


St. Mark Catholic School During Fortrac 3D-A Installation











Carolinas Medical Center Fortrac 3D-A Installation











Fortrac 3D Installation

Anchor trench at the top edge of the slope

Pins or Anchors

Properties of the material against erosion, as well as the number of pins or anchors will be calculated in the design.

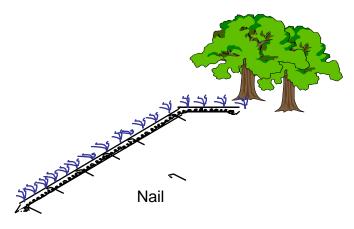


Anchor trench at the top of the slope





Erosion Control of Slopes











Further examples from other markets





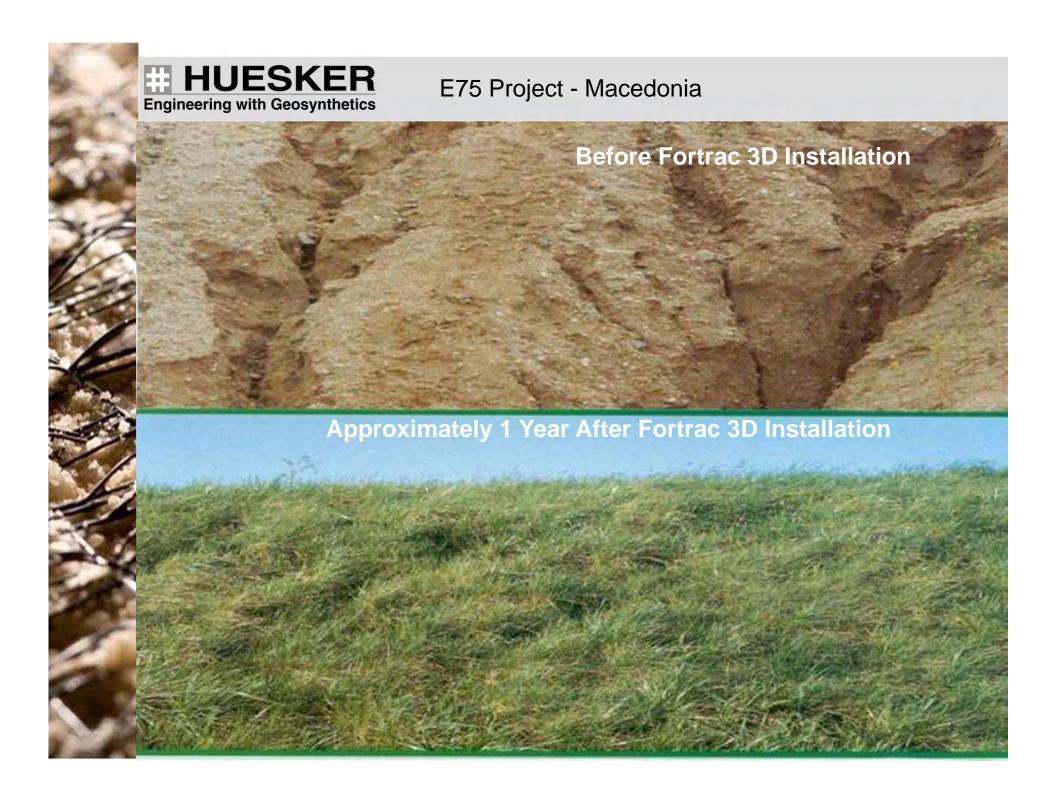
Problem Erosion Control and Slope Reinforcement





E75 Project - Macedonia







Field testing of Fortrac® 3D reinforced levee













Usage at bridge slopes





Reinforcement of the river shore and reservoir















Questions?