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### Abstract

We need VIPER rover ASAP. We need to look deep into at least one lava tube. Since volcanos on earth generate so very much steam and gas, there might be monolithic ice in lunar lava tubes. We should look. The rover should be able to deal with the debris below the window. the rest of the lava tube should be fairly smooth. Following VIPER we will likely want to pull some core samples in the S. Pole craters. We need a heavy crane and excavator for lunar operations. I have put together 20 slides that show how to deliver and assemble such a crane.

### A short bio

Lifelong space & science fan. Civil Engineer, Project Manager on a wide Varsity of construction contracts from a few K to over 100M. Admin for FB group Colonize The Moon.