

## Video: The making of the largest 3-D map of the universe

April 15 2019

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DESI, the Dark Energy Spectroscopic Instrument, will mobilize 5,000 swiveling robots – each one pointing a thin strand of fiber-optic cable – to gather the light from about 35 million galaxies.

The little robots are designed to fix on a series of preselected sky objects that are as distant as 12 billion light-years away. By studying how these

galaxies are drifting away from us, DESI will provide precise measurements of the accelerating rate at which the universe is expanding.

This [expansion rate](#) is caused by an invisible force known as [dark energy](#), which is one of the biggest mysteries in astrophysics and accounts for an estimated 68 percent of all mass and energy in the universe.

In this video, DESI project participants share their insight and excitement about the project and its potential for new and unexpected discoveries.

Provided by Lawrence Berkeley National Laboratory

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