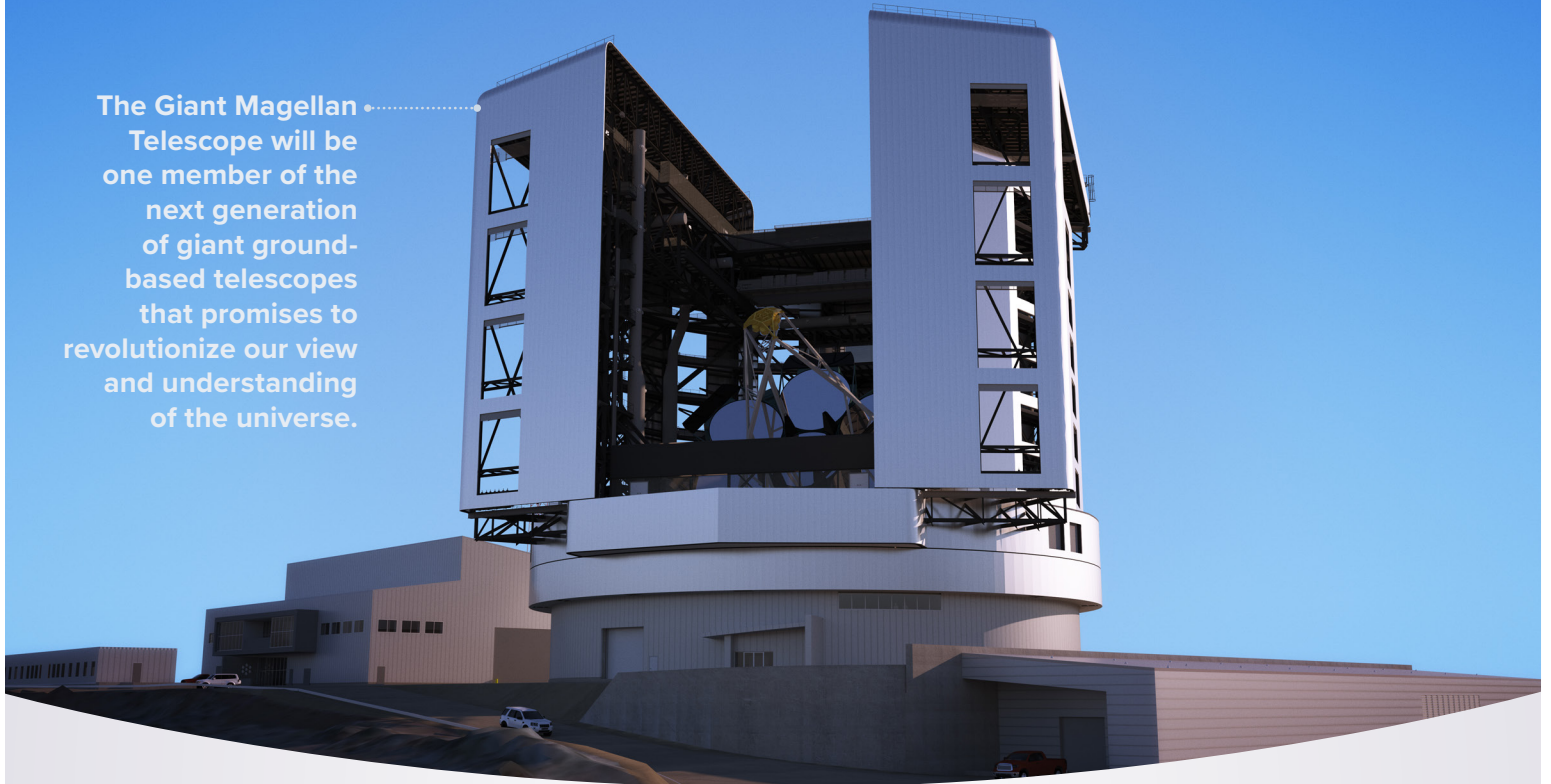


GIANT MAGELLAN TELESCOPE

The Giant Magellan Telescope will be one member of the next generation of giant ground-based telescopes that promises to revolutionize our view and understanding of the universe.



SCIENCE GOALS

The Giant Magellan Telescope will have a resolving power 10 times greater than the Hubble Space Telescope. It will investigate: the origin and evolution of planetary systems, star formation, evolution of the chemical elements, black hole growth, dark matter and dark energy, formation and evolution of galaxies, first light and reionization.

LOCATION

Las Campanas
Observatory, Chile

ELEVATION

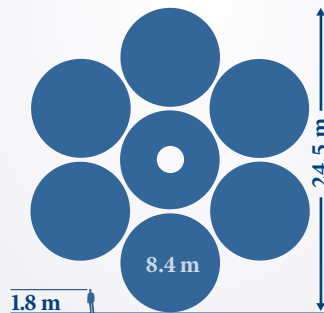
2,500 m

WAVELENGTH RANGE

Optical to infrared

FIRST LIGHT TARGET DATE

Late 2020s



Primary mirrors are being fabricated at the Richard F. Caris Mirror Lab at the University of Arizona

EFFECTIVE DIAMETER FOR DIFFRACTION

24.5 meters

EACH MIRROR DIAMETER

8.4 meters

INSTRUMENTS

ComCam

Commissioning Camera
(PI: Jeffrey D. Crane, Carnegie)

G-CLEF

Visible echelle spectrograph
(PI: Andrew Szentgyorgyi, SAO/Harvard)

GMACS

Visible multi-object spectrograph
(PI: Dan Fabricant, SAO/Harvard)

GMTIFS

Near IR IFU and adaptive optics imager
(PI: Rob Sharp, ANU)

GMTNIRS

Infrared echelle spectrograph
(PI: Dan Jaffe, UT Austin)

MANIFEST

Facility fiber optics positioner
(PI: Jon Lawrence, AAO)

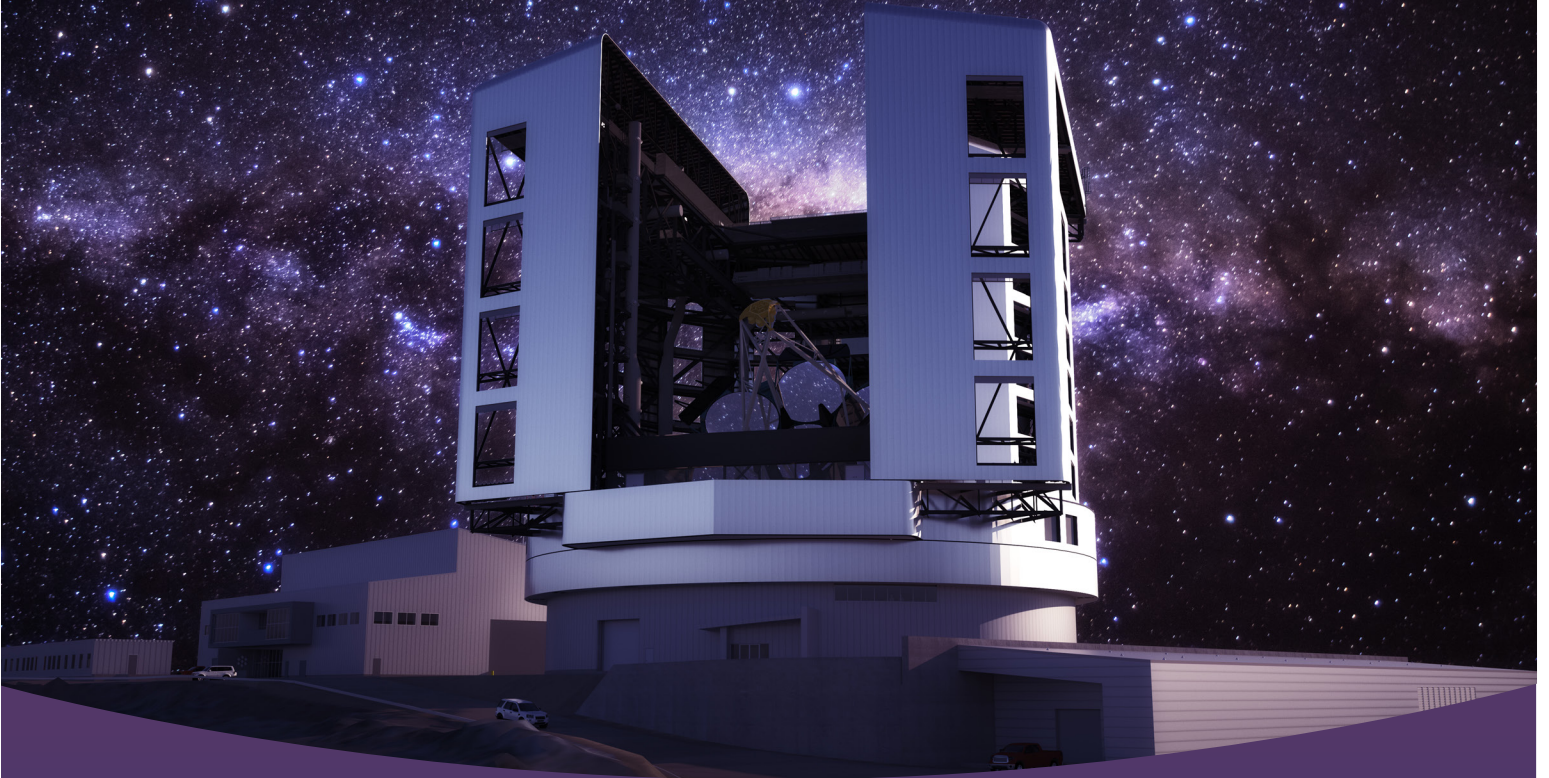
To learn more visit
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