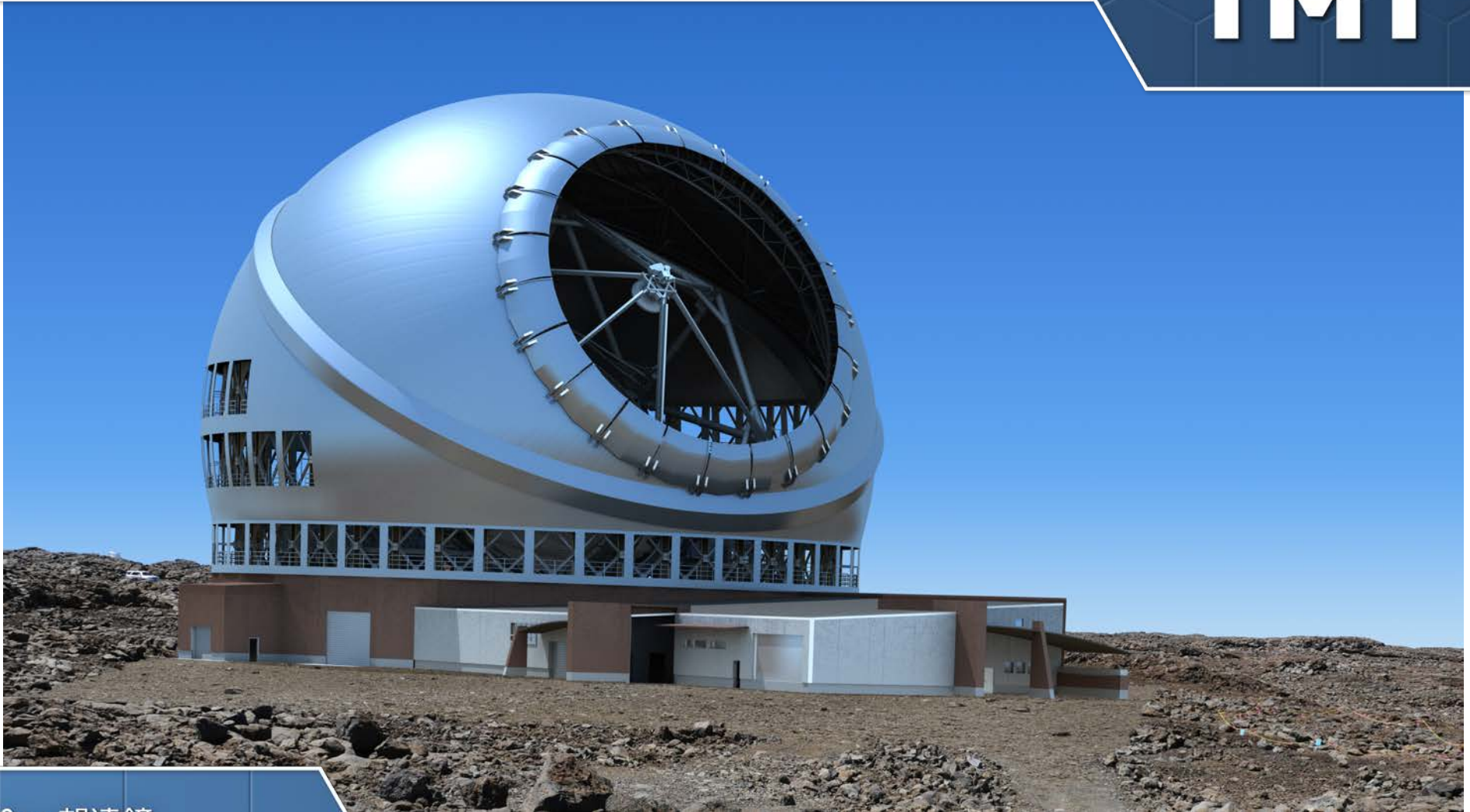


Thirty Meter Telescope



TMT



30 m 望遠鏡
三十米望远镜
तीस मीटर दूरबीन
Thirty Meter Telescope
Télescope de Trente Mètres

Caltech

INDIA
TMT



国立天文台
NAOJ
National Astronomical
Observatory of Japan



Significant funding provided by the Gordon and Betty Moore Foundation

Project Partners	Caltech, Canada, China, India, Japan, and the University of California
Site	Either Maunakea 13 North on the island of Hawaii or on La Palma, Canary Islands
Enclosure	Calotte enclosure
Telescope	<ul style="list-style-type: none"> • Ritchey-Chrétien optical design with a D=30m primary mirror made of 492 segments, a D=3.1m convex secondary and a 2.5m x 3.5m articulated tertiary mirror for rapid instrument changes • Nasmyth platforms for instrumentation
First Light Adaptive Optics	<ul style="list-style-type: none"> • Laser guide star (LGS) Multi-Conjugate AO (MCAO) • Diffraction-limited performance in J, H, K • 30" corrected field of view with > 50% sky coverage
First Light Instruments	1) Near IR (IJHK) imager+IFU ("IRIS"), (2) Optical, multi-object spectrograph ("WFOS")
Point Source Sensitivity Gain	<ul style="list-style-type: none"> • 14x for seeing-limited observations • 200x for AO-assisted observations
Schedule	Tentative re-start of civil construction in 2019 First light (including instrumentation and AO) in the late 2020s