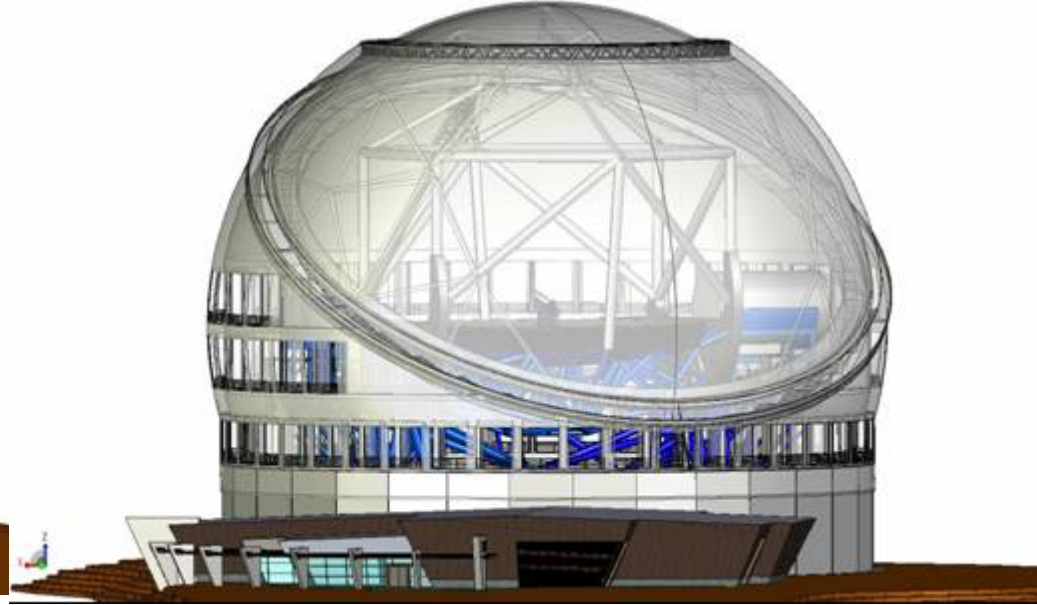
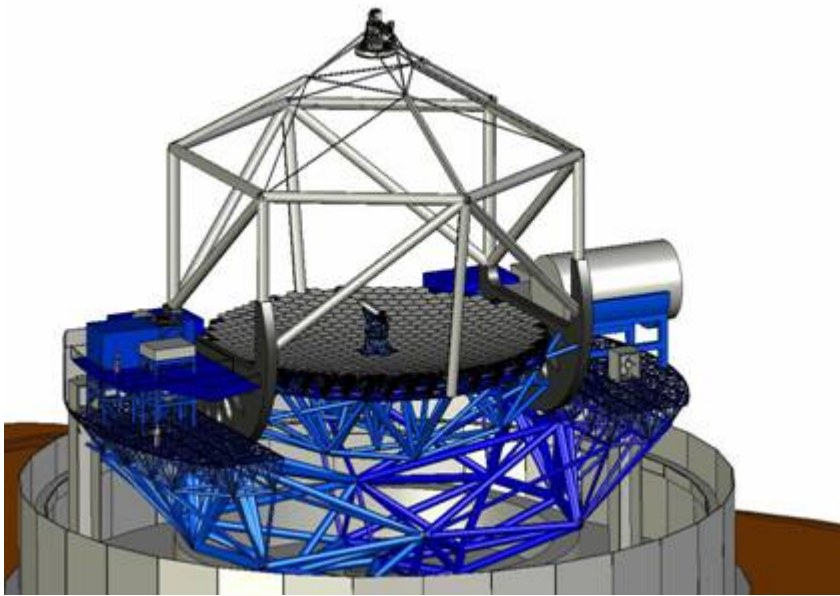


TMT

Presentation for Chicago GSMT Meeting
16 June 2008



TMT: Public Participation

- TMT genesis was response to 2000 Decadal Survey call for *private-public partnership* to build a GSMT
- Merging of 3 projects: CELT (UC/Caltech), VLOT (ACURA), GSMT (AURA). From the very beginning, the US astronomical community was a partner in TMT via AURA
- AURA withdrew at the end of 2006 after three productive years to take on the role of managing the overall GSMT effort
- US community through AURA played an important role in defining the TMT Observatory during the critical phase when the Science-driven Requirements Document (SRD) was drafted
- SRD: 18-month effort of the TMT Science Advisory Committee with equal membership from UC, CIT, ACURA and US community via AURA

- Although AURA withdrew, TMT has continued to make excellent progress in the Design Development Phase (DDP). Received additional \$15M from the Moore Foundation in Sept 2007, bringing the total funding for DDP activities to \$80M
 - Design and costs vigorously pursued and reviewed
 - Industrial partnerships established
 - Very capable team established
 - Completed extensive site survey, selected Armazones and Mauna Kea for further consideration
 - \$300M in pledges from the Moore Foundation, Caltech and UC
 - NAOJ interest in TMT led to participation as observers on Board and SSC
 - Cooperation agreement with ESO on development of common technologies

Current TMT Effort

- ◆ Pasadena Project Office – 33 FTE
- ◆ AURA/ACURA/HIA/JPL/Caltech/UC ~100 FTE
- ◆ Individual technical consultants – 26
- ◆ Significant industry or laboratory contracts – 29

The Way Forward

- Complete the Design Development Phase (Mar 2009)
- Initiate early construction phase (Apr 2010)
- Establish the final partnership capable of realizing the capital and operating funds, building on \$300M from Moore Foundation, UC, and CIT
- Integrate new partners into construction and operations
- Secure outstanding site
- Complete Construction (2009 - 2018)

US Federal Involvement

- We welcome NSF involvement and a renewal of our partnership with AURA
- TMT planned as public/private partnership from beginning. Have ~33% role for NSF (capital+ops over 20 years) in current business plan
- A high ranking for a GSMT in the next Decadal Survey is a critical step toward realizing this opportunity for US astronomy and maintaining future health of the overall US astronomy program
- Observatory design already reflects US community input
 - Early partnership with AURA
 - Continued community membership on SAC

www.tmt.org/foundation-docs/index.html

- Detailed Science Case 2007
- Observatory Requirements Document
- Observatory Architecture Document
- Operations Concept Document
- TMT Construction Proposal
 - Currently in use for funding proposals