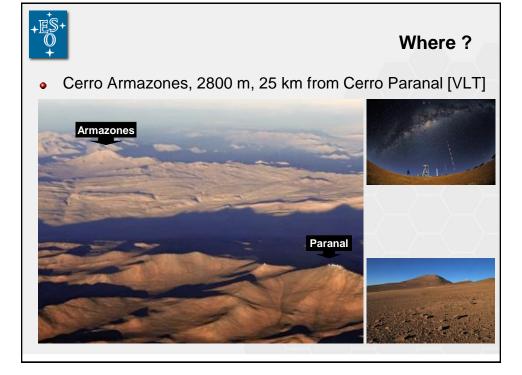
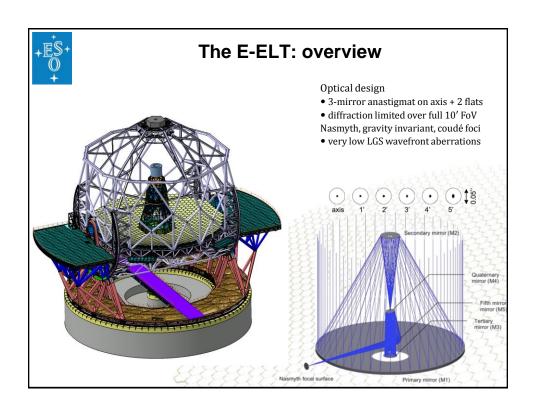


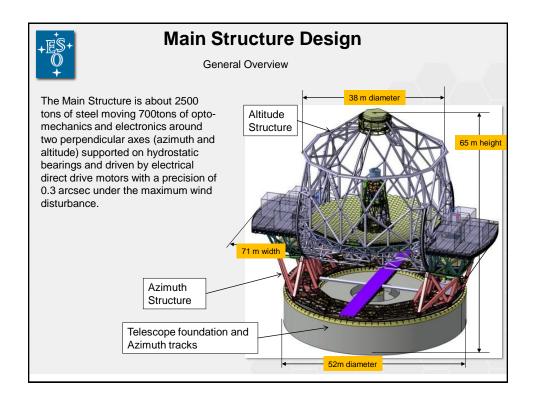


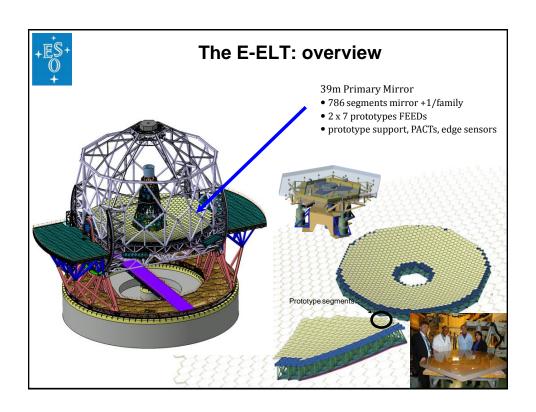
Science → Requirements

- Diameter: ≥39m (area ≥ 1000 m²)
 - Alt-Az, F/15 to F/18, fully steerable (0-360,0-90). Operational ZD: 0-70
- · Adaptive telescope
 - GLAO correction (≥ 5 arcmin, 90% sky, 80% time)
 - better than 2x FWHM improvement for median seeing conditions
 - Post-focal: SCAO, MCAO, LTAO, ExAO, MOAO, ...
- · Science field of view:
 - 10 arcmin unvignetted. Diffraction limited by design
 - 5 arcmin unobscured by guide probes
- Wavelength range: 0.3 24 μm
- · Transmission @Nasmyth:
 - >50% at $>0.35 \mu m$, $>60 % at <math>>0.4 \mu m$, >70% at $0.7 \mu m$, >80% at $> 1 \mu m$
- Focal stations
 - Two Nasmyth (multiple instruments, including gravity invariant option)
 - At least one Coudé
 - Fixed instrumentation (fast switching: < 10 min same focus, < 20 otherwise)

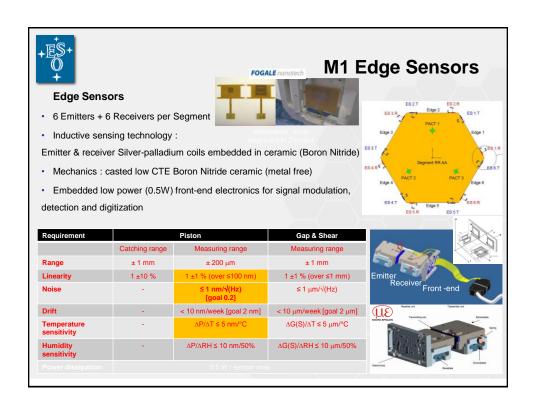


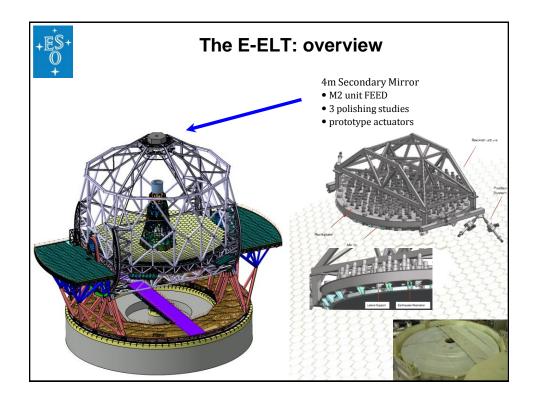


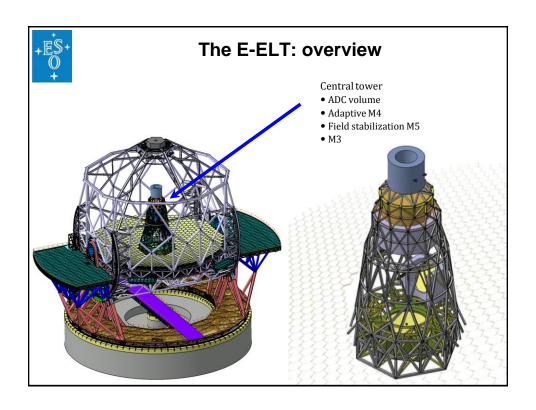


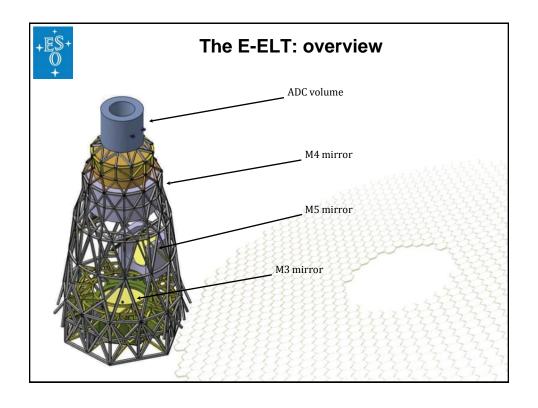


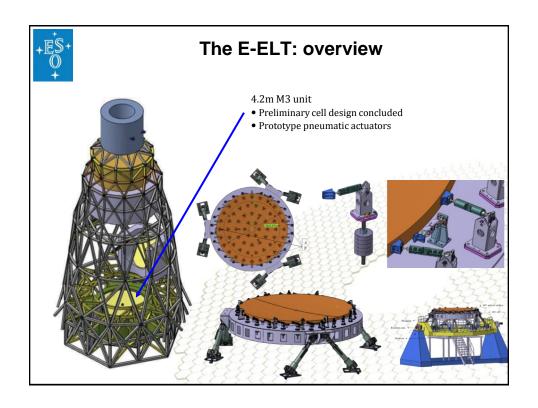


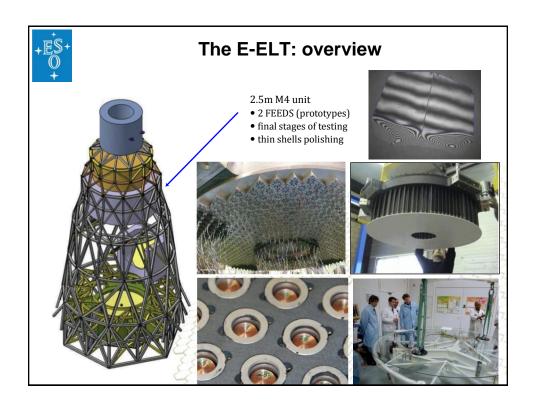


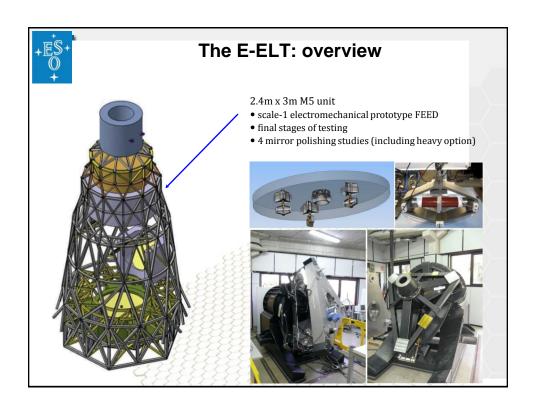


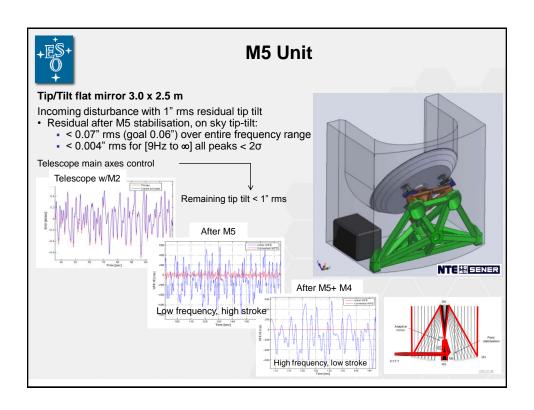


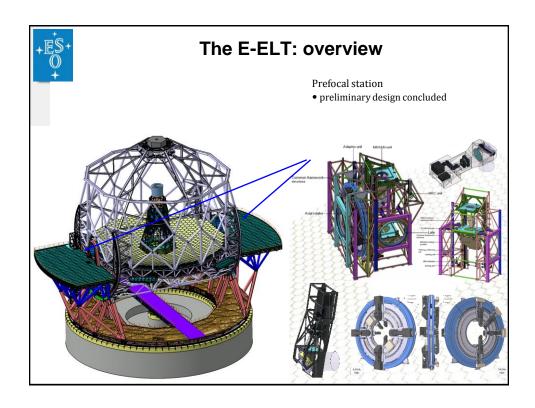


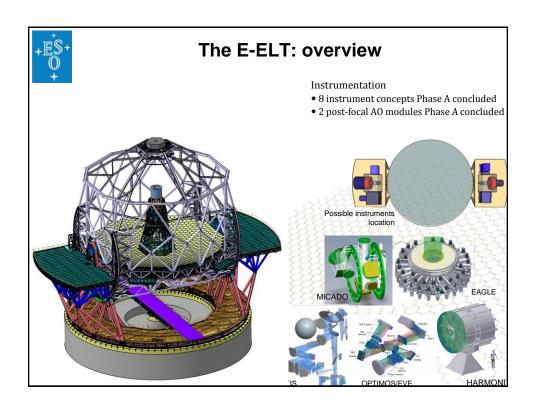


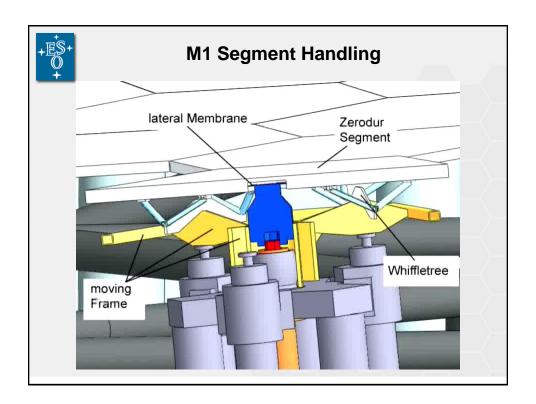










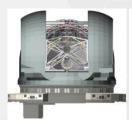




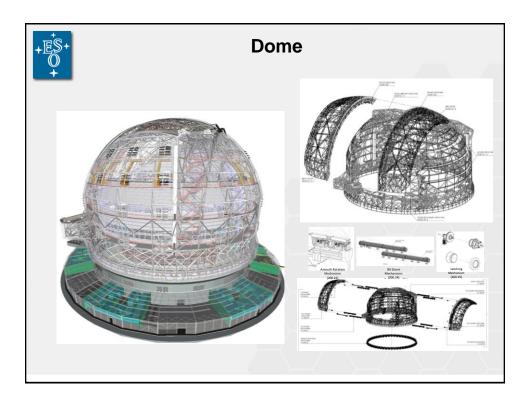
Dome Scope

Dome contains:

- · the primary and secondary steel structures
- the concrete foundations for the dome and the main structure
- all mechanisms for the rotation and operation
- · louvers, windscreen, ventilation and air-conditioning
- storage areas required within the dome and general access facilities such as staircases, platforms, elevators, cranes etc.
- all auxiliary installation like electrical equipment, thermal control equipment, lighting facilities etc.
- the hardware and software for the local control of the dome functions.



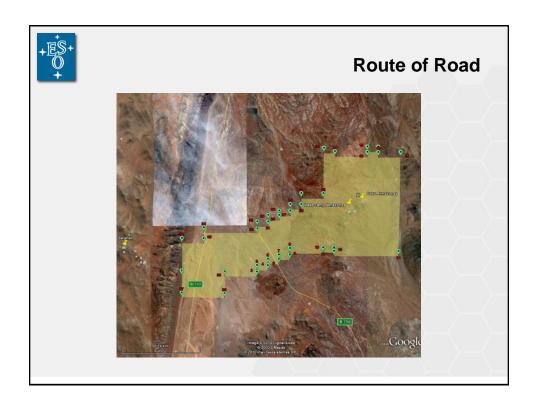


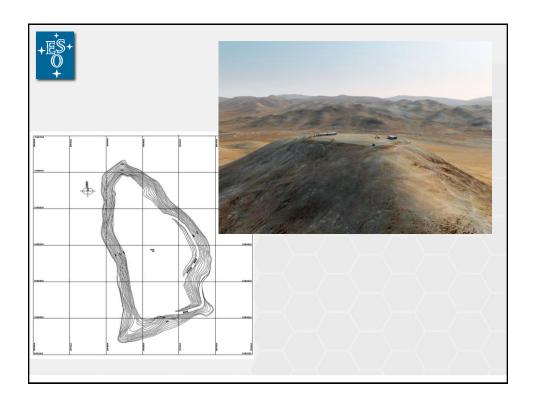




Areas of Interest for Industry

- Electronics and IT
 - > Detectors
 - > Control Electronics
 - > Safety & Interlocks
 - > Software
 - > IT Hardware
- Infrastructure
 - > 4 MW Stand-by Power Generation
 - Coating Plant for 1.4m segments
 - > Coating facility for large mirrors (4m diameter class)
 - > Handling equipment







Areas of Interest for Industry

- Mechanical Engineering
 - > Steel Structures
 - > Actuation & Metrology
- Civil Engineering
 - > Dome civil construction
 - > Civil Works
 - > Roads & Infrastructure
 - > Consultancy
- Optics
 - > Small Optics
 - > Large Optics
 - > Coatings



Areas of Interest for Industry

- Cryogenics & HVAC
 - > Cryogenic storage and handling
 - > Compressors & Cooling Engines
 - > Vacuum Equipment



Up-coming Contracts

- Road Construction And Platform Preparation
- Final Design and Construction of Dome
- Final Design and Construction of Main Structure
- Procurement of 6000 Edge Sensors
- Procurement of 3000 Primary Mirror Segment Actuators
- Procurement of Power Supply

