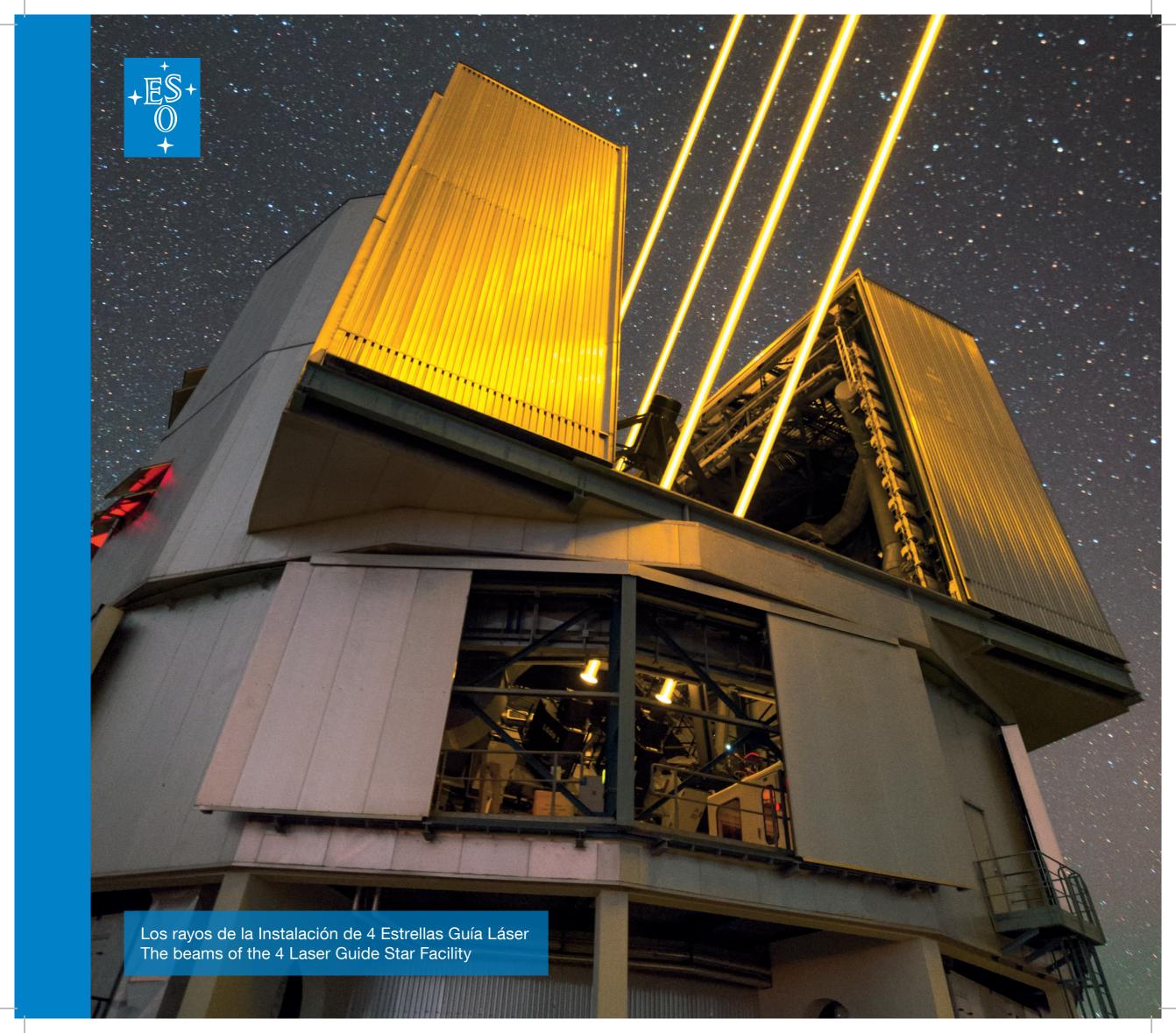
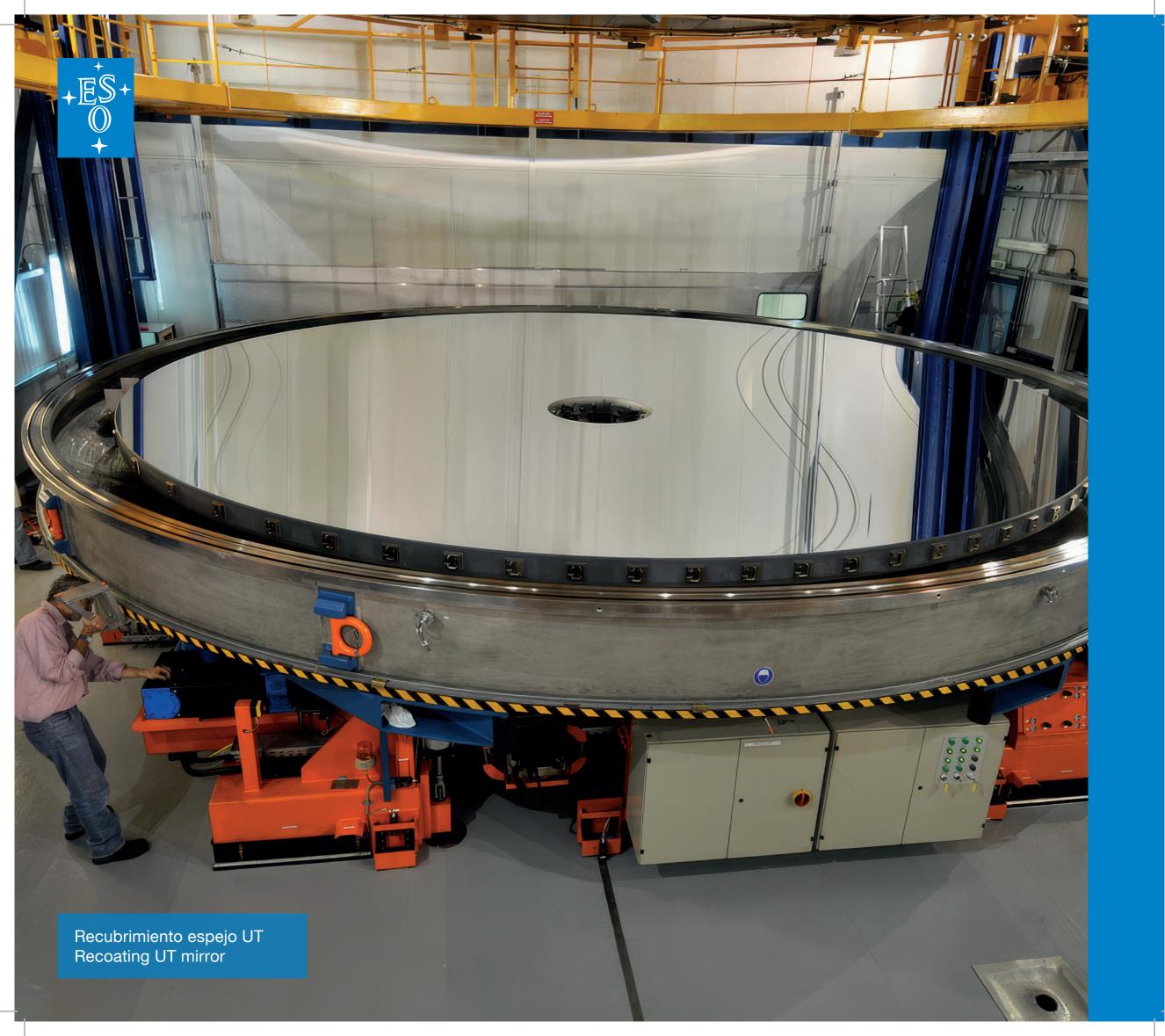


Diagrama VLTI VLTI diagram







Astronomical mirrors are coated with a 80 nanometer (0.000 080mm) thin aluminum layer for light reflection. The layer would scratch during cleaning – therefore is it renewed every 2 years. The procedure lasts 1 week.



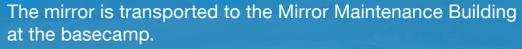
Dismounting from the telescope. 96 screws hold the mirror cell on the telescope structure.



The mirror and its mirror cell (45 ton) is lowered on a special air cushion vehicle.



The air cushion vehicle is provided with a lifting device from the telescope and loaded on a special transport truck.







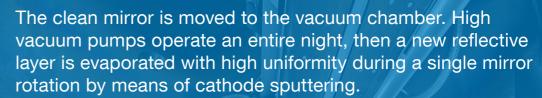
The mirror is removed from its mirror cell by means of a lifting machine.



23 tons of glass ceramic hang on 15 hooks!



The old aluminum layer is removed in a clean room with acid and high-purity water.







The vacuum tank is opened again and the new mirror layer is inspected.



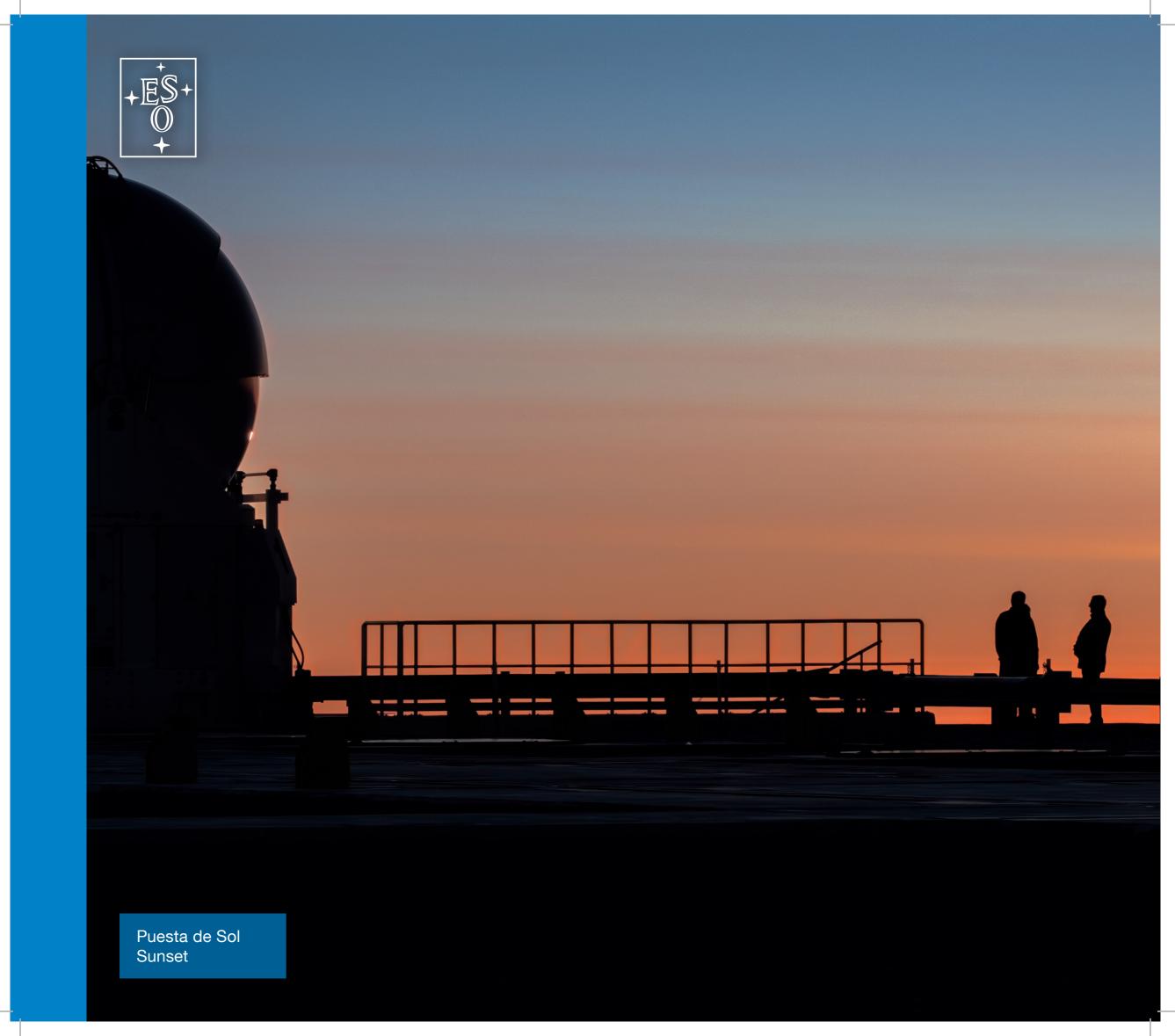
The mirror is back in its mirror cell. All 64 lateral mirror supports are carefully fastened.



The mirror with the cell is transported back to the telescope.



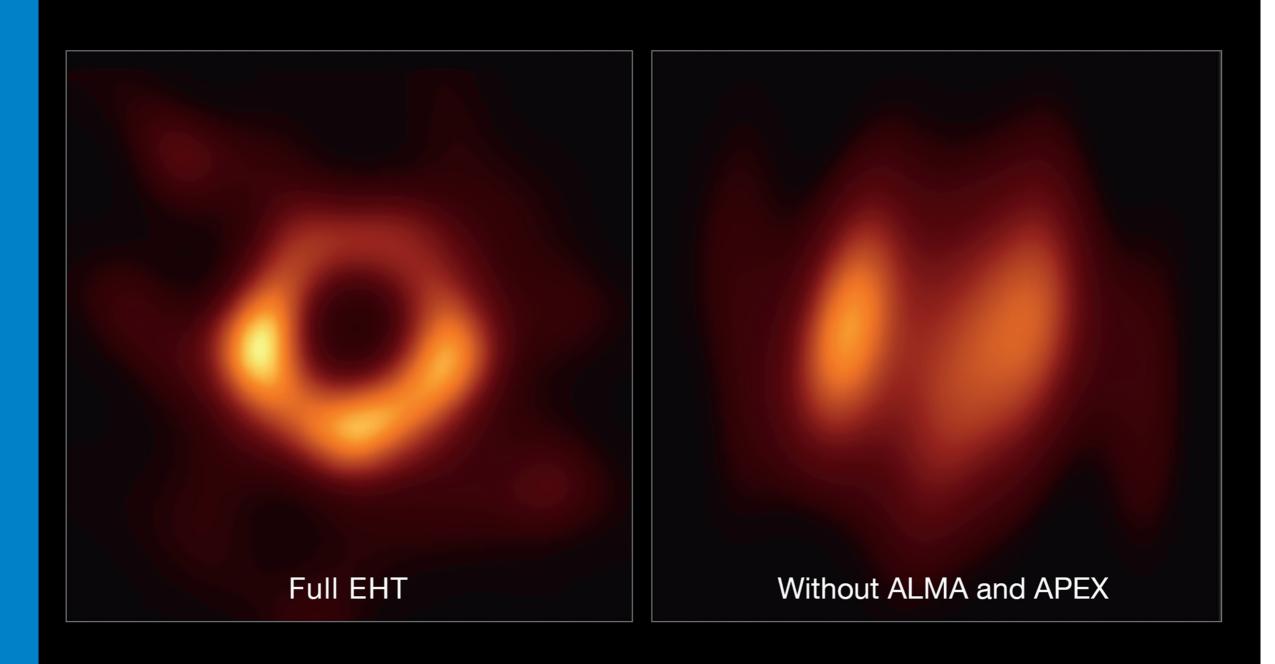
Done!



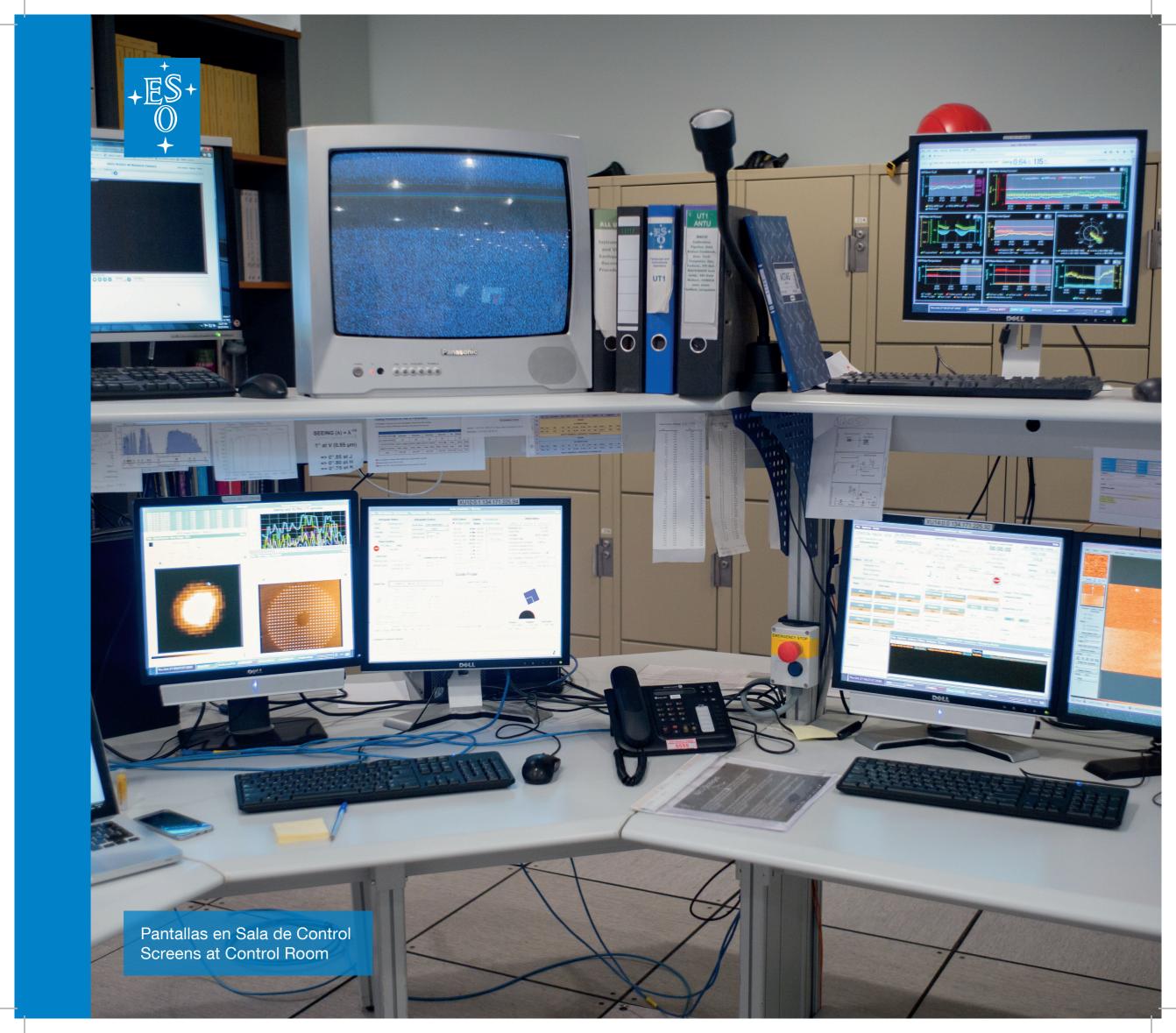


Primera imagen de un agujero negro First image of a Black Hole









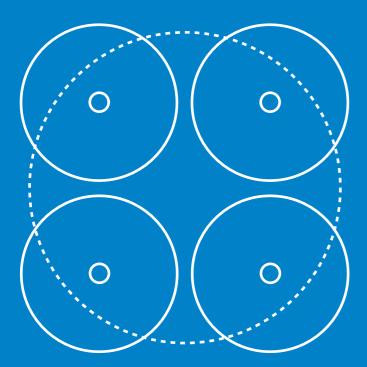




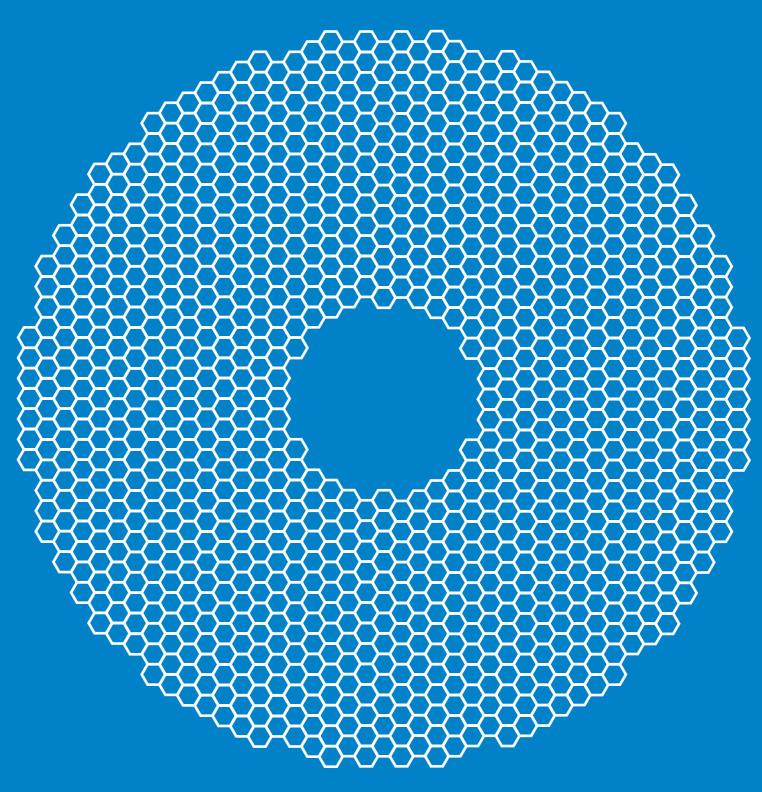




ESO 3.6-metre telescope La Silla, Chile



Very Large Telescope
Cerro Paranal, Chile



Extremely Large Telescope
Cerro Amazones, Chile

Espejos de telescopios ópticos ESO a escala ESO optical telescope mirrors to scale

0 5m 10m

