

# ESOcast Light: ELT telescope and dome construction starts

<p><b>ESOcast Light Episode: ELT telescope and dome construction starts</b></p>	
<p><b>00:00</b>  <b>[Visual starts]</b>  <b>New ESOcast intro</b></p>	<p><b>00:00</b>          New ESOcast introduction          Incl ESO logo</p>
<p><b>Title: ELT telescope and dome construction starts</b></p>	
<p>1. <b>The first stone of ESO's Extremely Large Telescope</b> has been laid on Cerro Armazones, at 3046 metres altitude in northern Chile.</p>	
<p>2. The ELT will be the <b>largest telescope of its kind ever built.</b></p>	
<p>3. Its <b>giant 39-metre main mirror</b> will be housed in a 85-metre-diameter rotating dome that weighs 5000 tonnes.</p>	
<p>4. The telescope has a <b>unique five mirror optical design</b> including a main mirror made of 798 segments.</p>	
<p>5. The ELT will tackle some of our <b>biggest scientific challenges...</b></p> <p>...finding Earth 2.0, testing theories of fundamental physics, and observing the assembly of the first galaxies in the Universe.</p>	
<p>6. The ELT is targeted to see first light in 2024. Today is <b>the dawn of a new era of astronomy.</b></p> <p>#ItBegins #BiggestEyeOnTheSky</p>	

**00:00**  
**[Outro]**

*Produced by ESO, the European Southern  
Observatory.  
Reaching new heights in Astronomy.*