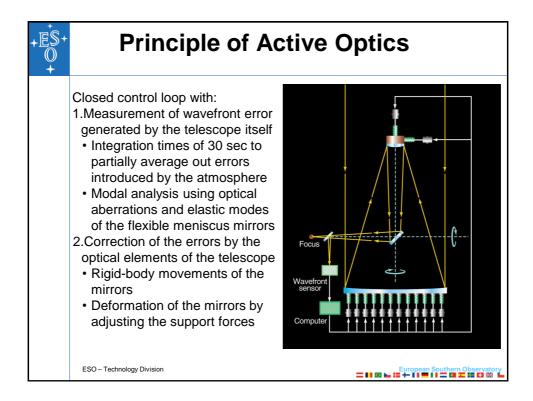
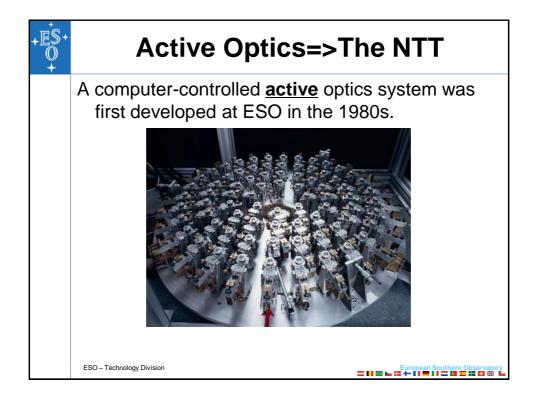


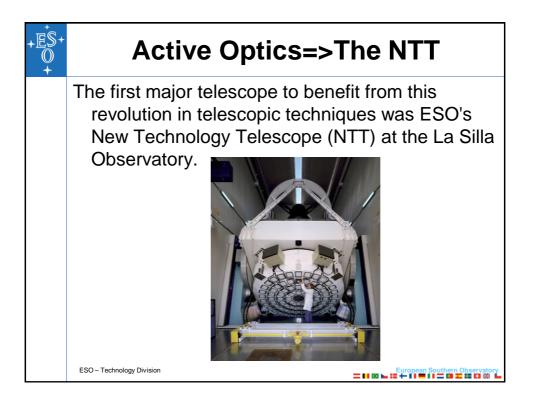
Active Optics

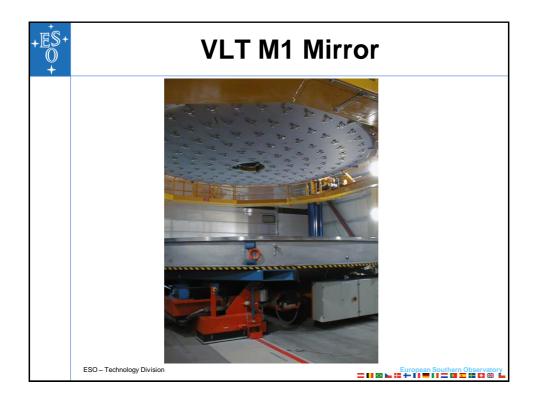
In the past, mirrors over several metres in diameter had to be made extremely thick to prevent them from losing their shape as the telescope panned across the sky. Eventually such mirrors became prohibitively heavy and so a new way had to be found to ensure optical accuracy.

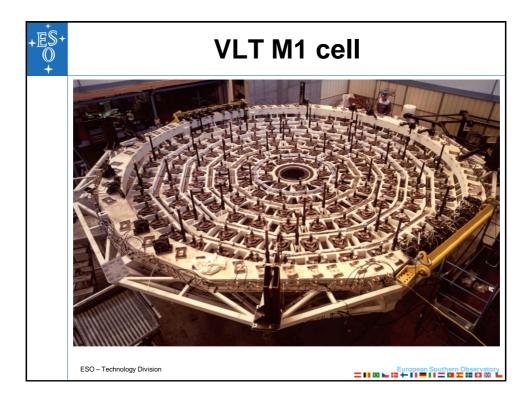
Telessens	Die /Helue	
Telescope	Dia/thkn	year
ESO 3.6	6	1960s
ESO NTT	15	1970s
ESO VLT	47	1990s
ESO E-ELT	840	2010s
ESO – Technology Division	– Technology Division	

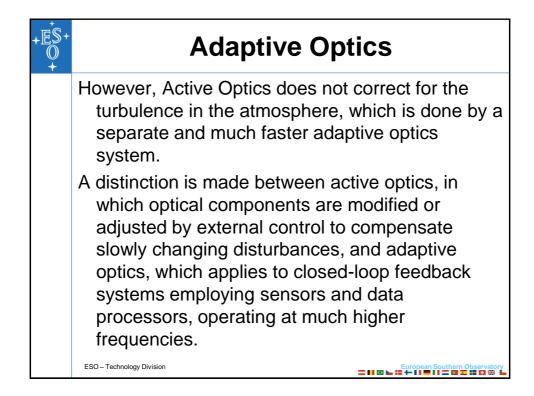


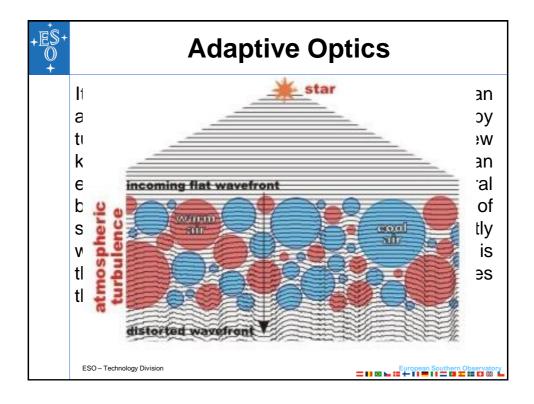


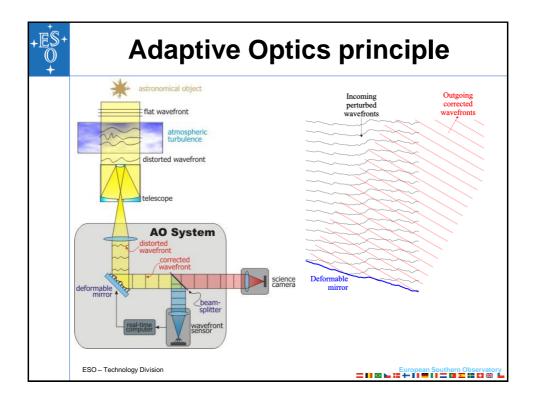


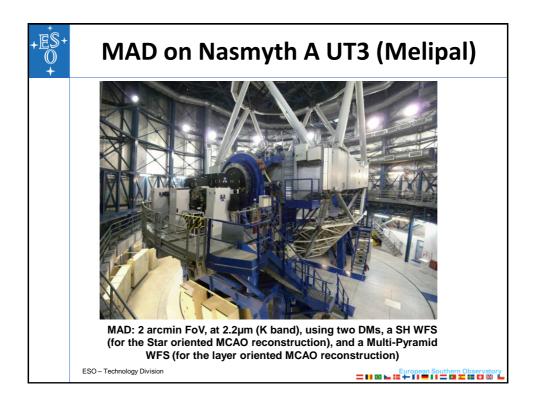


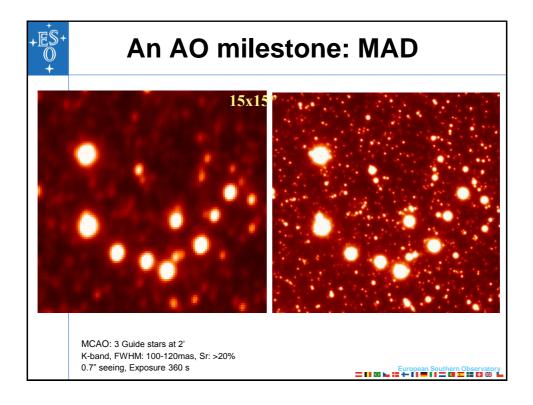


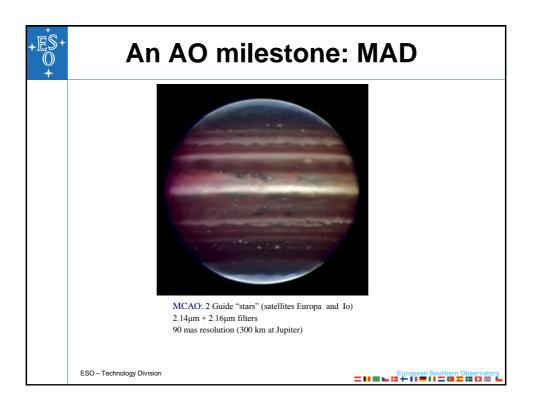


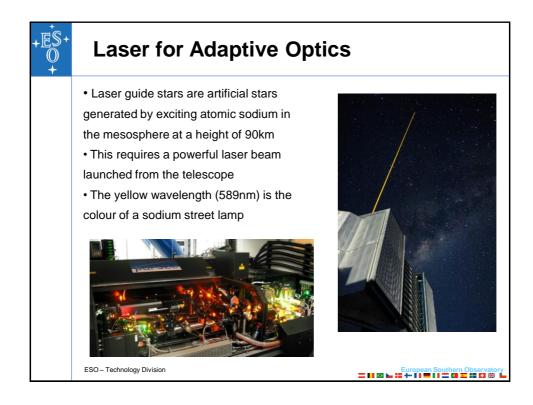


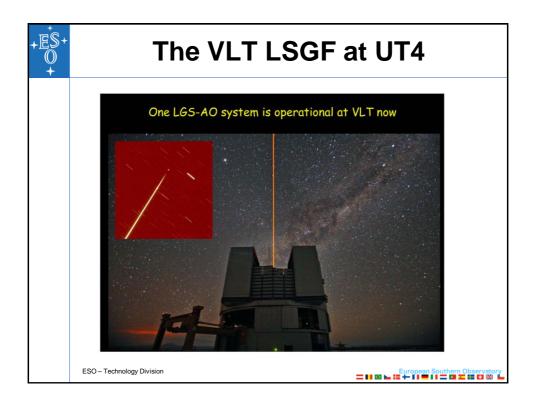








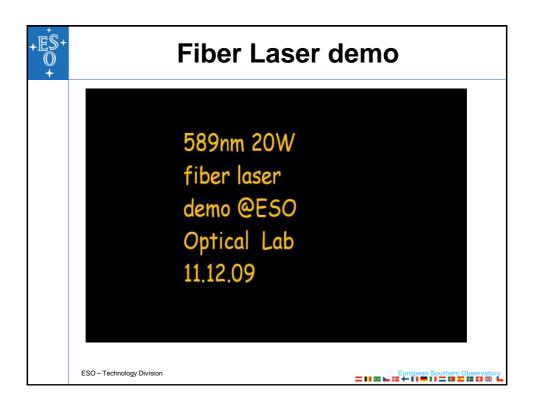


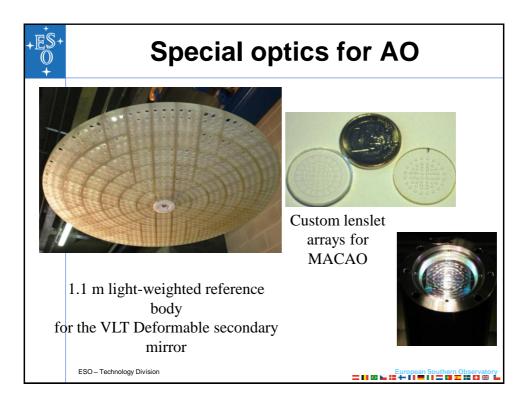




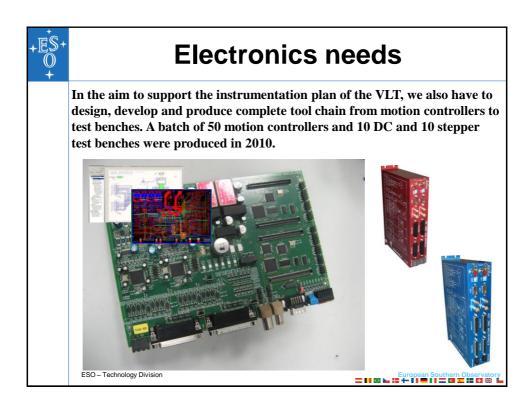


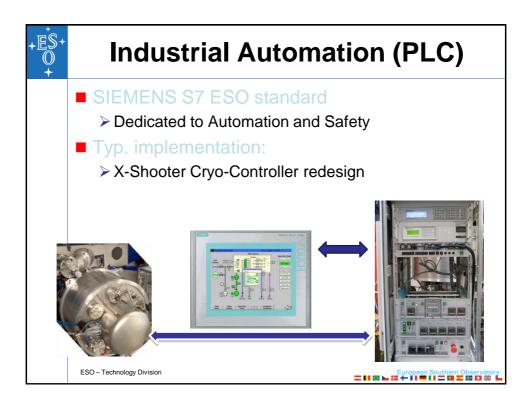












Electronics needs ESO is also providing expertise in the domain of EMC tests, electrical safety and CE marking. This year the effort was mainly concentrated on the first European ALMA antenna acceptance. We have now to investigate the use of the WiFi within the telescope area. The uses of mobile phones GSM frequencies is falling in the same frequency band, we will have to investigate if we can allow their use. ESO - Technology Division

