





13 April 2021







Topics

- Chajnantor connectivity
- Control Room Extension to Santiago Office







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- Control Room Extension to Santiago Office









= Dark fiber = LAMBDA (OTU2)

= 1 G-Ethernet

AOS Calama Antofagasta

Felefinica

DWDM

DWDM

DWDM

DWDM

The Chajnantor plateau hosts/will host a number of astronomical facilities. Conversations carried out in the past years aimed to optimize the available communication infrastructure to minimize the use of MW based solutions. Two issues were addressed:

- Last mile
- Communication operations

Transponder (one per Lambda OTU2)

Optical
amplifier (one per fiber)

DWDM
internal
backplane

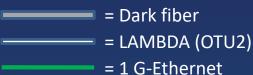




REUNA PoP@ANF

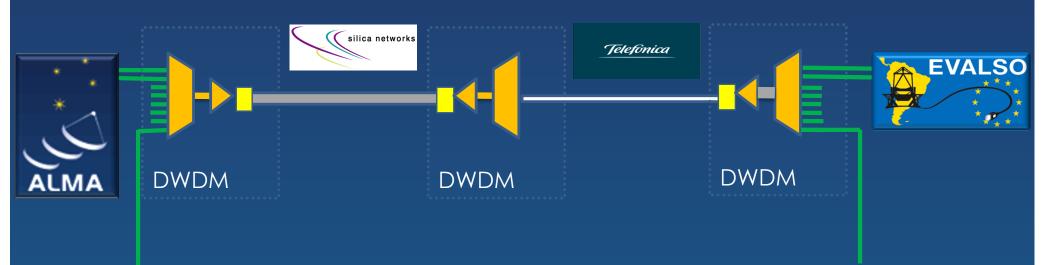






AOS Calama

Antofagasta



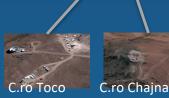


First part: PoP

Second part: Last mile

3 zones hosting other projects



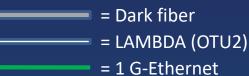


C.ro Chajnantor Pampa La Bola











Future work: ANF/SCL infrastructure (in progress)





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Control Room Extension to Santiago



- Motivation: Use the communication infrastructure to increase operational flexibility by allowing opportunistic testing activities from SCO
- Inspiration: Several mining companies in recent years started exploring remote operations with similar requirements and constrains
- "Santiago Remote Control Room Laboratory Project" was initiated in July 2019 to develop and implement a virtual extension of the OSF control room to Santiago Central Office for operational testing from Vitacura Campus.
- Project took around 8 months to complete, just before the pandemics reached Chile ...

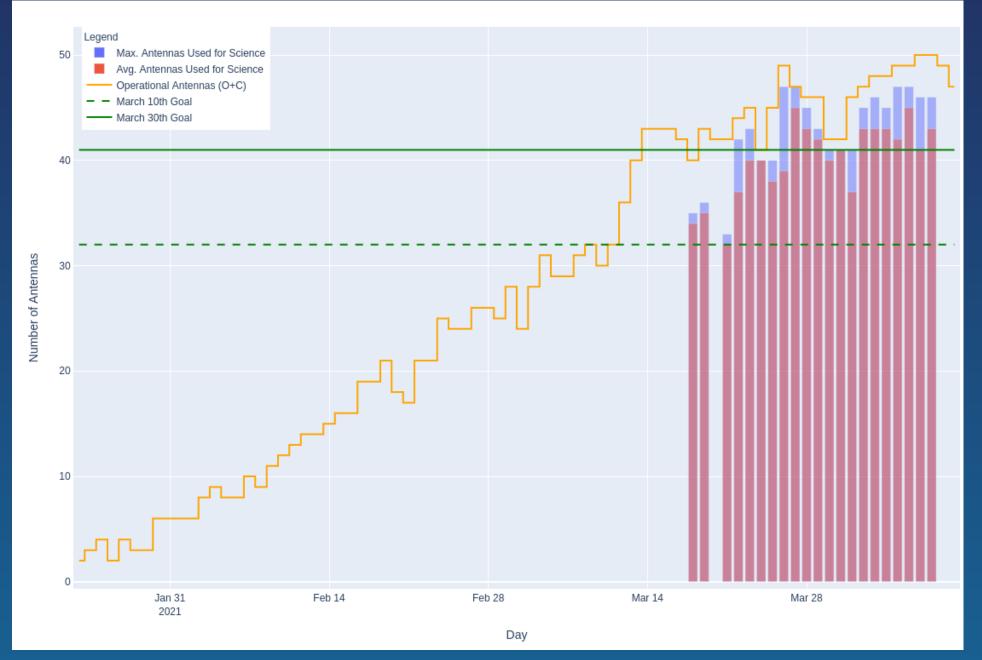


Today: Basic Science Operations

















Thank you For Listening