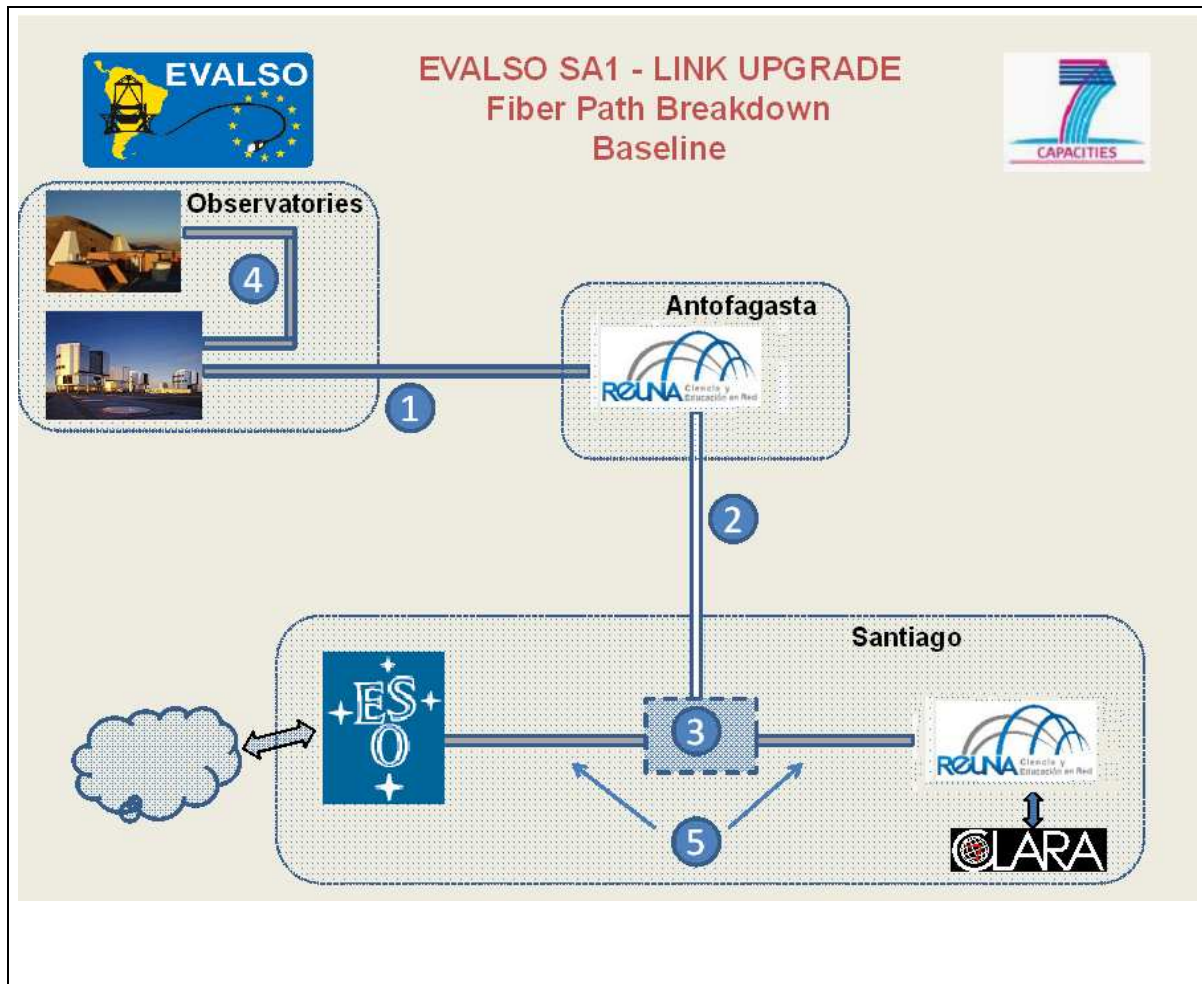


## Annex B

### EVALSO link infrastructure

EVALSO already run a procurement for its link infrastructure, the result is shown in the following diagram.

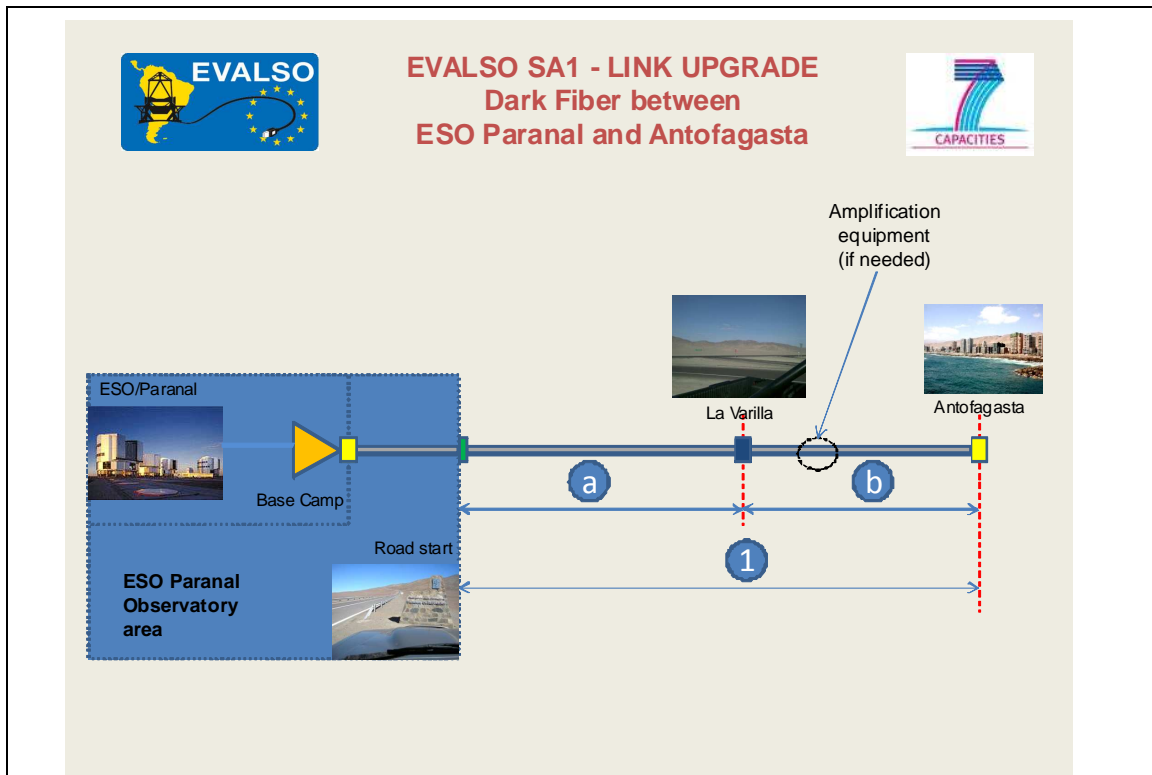


The identified items are:

- Item 1: Dark Fibre between ESO Paranal and REUNA Antofagasta
- Item 2: Fixed Wavelengths (one Lambda) between REUNA Antofagasta and the Santiago area (TELCO PoP)
- Item 3: Housing space for EVALSO equipment at the TELCO PoP (Santiago)
- Item 4: Dark Fibers between OCA and ESO Paranal
- Item 5: Dark fiber between TELCO PoP and the end points in Santiago, namely ESO/Vitacura and REUNA/Providencia

Detail information for each Item:

- Item 1: Dark Fibers between ESO Paranal and REUNA Antofagasta



Path divided in two segments: 1a and 1b

Segment 1a: Under construction

Type of fiber: ITU G652.D

Length: 75 Kms

Attenuation: 18,5dB @ 1550nm

Chromatic Dispersion: ps/nm 1258

There is no option to put an equipment in the middle of the path

Segment 1b: In production since several years

Type of fiber: ITU G652.D

Length: 50 Kms

Attenuation: 11,5dB @ 1550nm

Chromatic Dispersion:

There is no option to put an equipment in the middle of the path

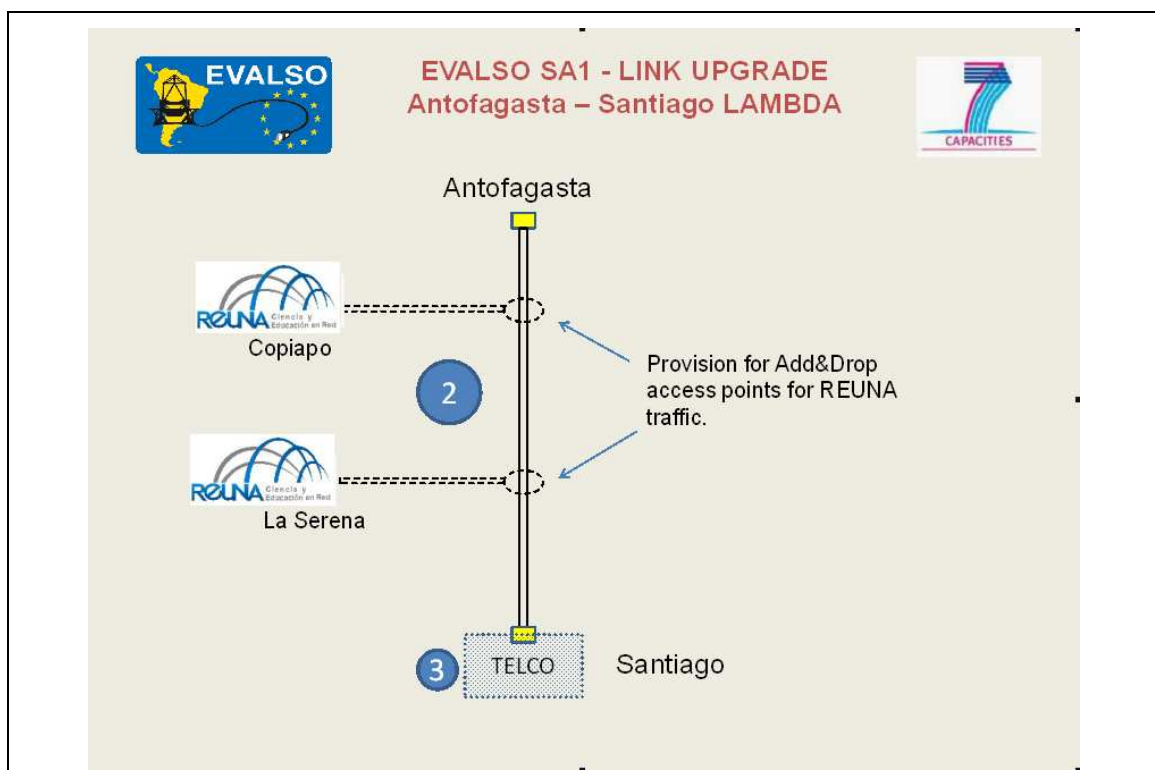
Total Length: 125Kms

Total Attenuation: 30dB @ 1550nm

- Item 2: Fixed Wavelengths (one Lambda) between REUNA Antofagasta and the Santiago area (TELCO PoP)

EVALSO through the link procurement acquired in a long term contract an optical wavelength (lambda) transport from Antofagasta to Santiago. The lambda is an OTU-2 OTN standard, delivered by the Telco in an OTU-2 optical interface not in a 10GEth interface.

As shown in the following diagram, the lambda from Antofagasta to Santiago will be “add&drop” it in two cities a long the path, Copiapo and La Serena. In both middle nodes, some the traffic has to pass in a transparent way and some other traffic will be send to a L2/L3 equipment, the details are explain in Annex C.

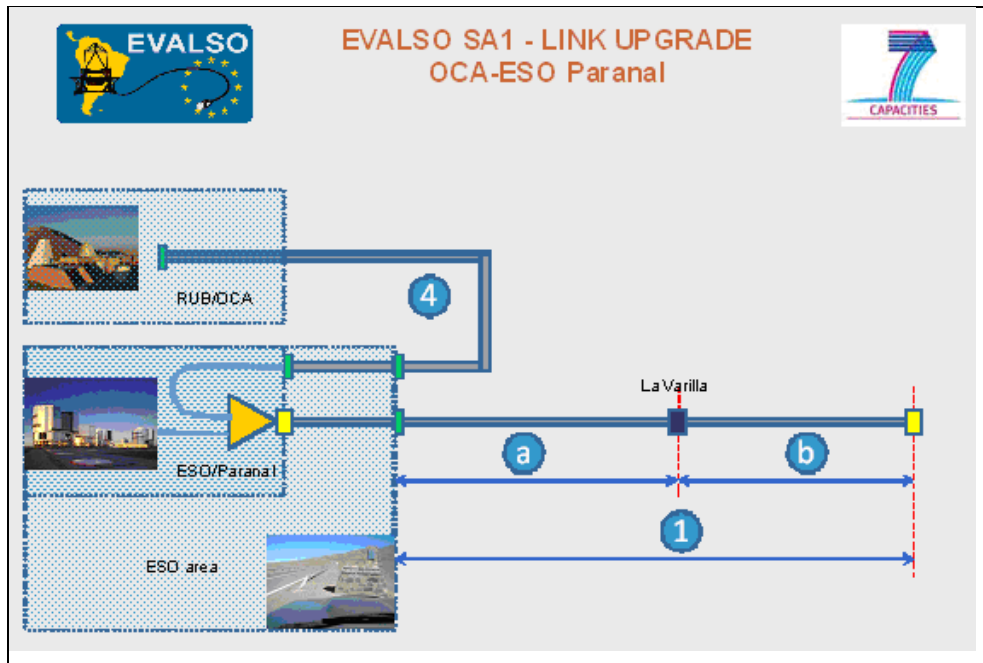


Then, it will be interconnection with the Telco at OUT-2 level in four points: Santiago, Antofagasta, Copiapó and La Serena. See OUT-2 Telco interface details in Annex C.

- Item 3: Housing space for EVALSO equipment at the TELCO PoP (Santiago)

The main point here is the housing space is 19” rack kind and –48V DC power with 220V AC optional.

- Item 4: Dark Fibers between OCA and ESO Paranal



Segment 4: Under construction

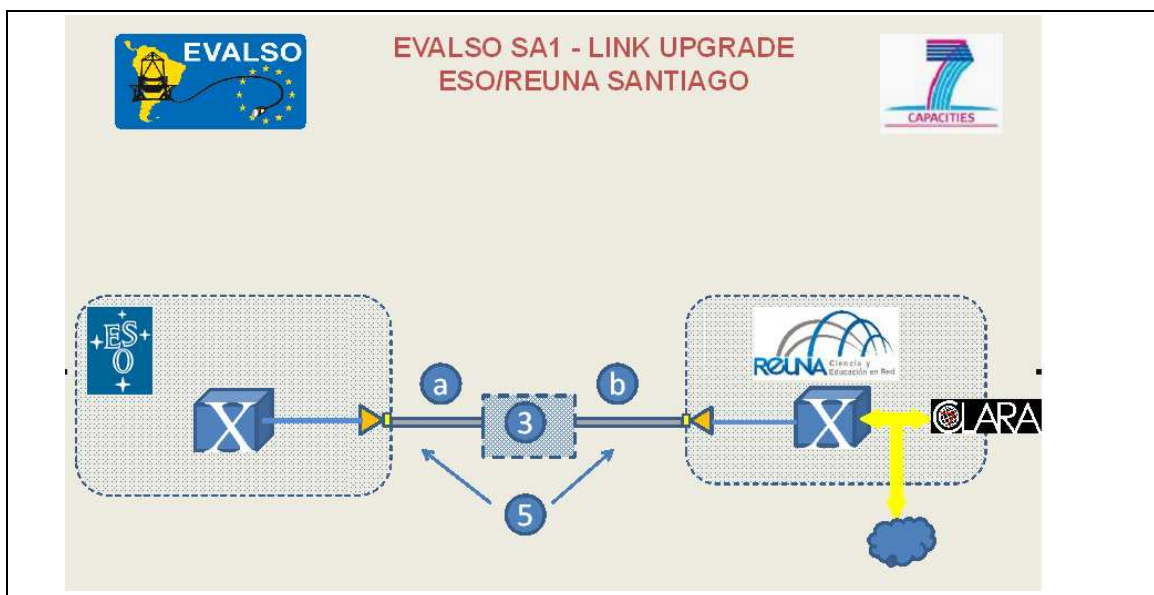
Type of fiber: ITU G652.D

Length: no longer than 30 Kms

Attenuation: 9dB @ 1550nm

There is no option to put an equipment in the middle of the path

- Item 5: Dark fiber between TELCO PoP and the end points in Santiago, namely ESO/Vitacura and REUNA/Providencia



Type of Fiber: G.652

Length: In the order of 12 kms