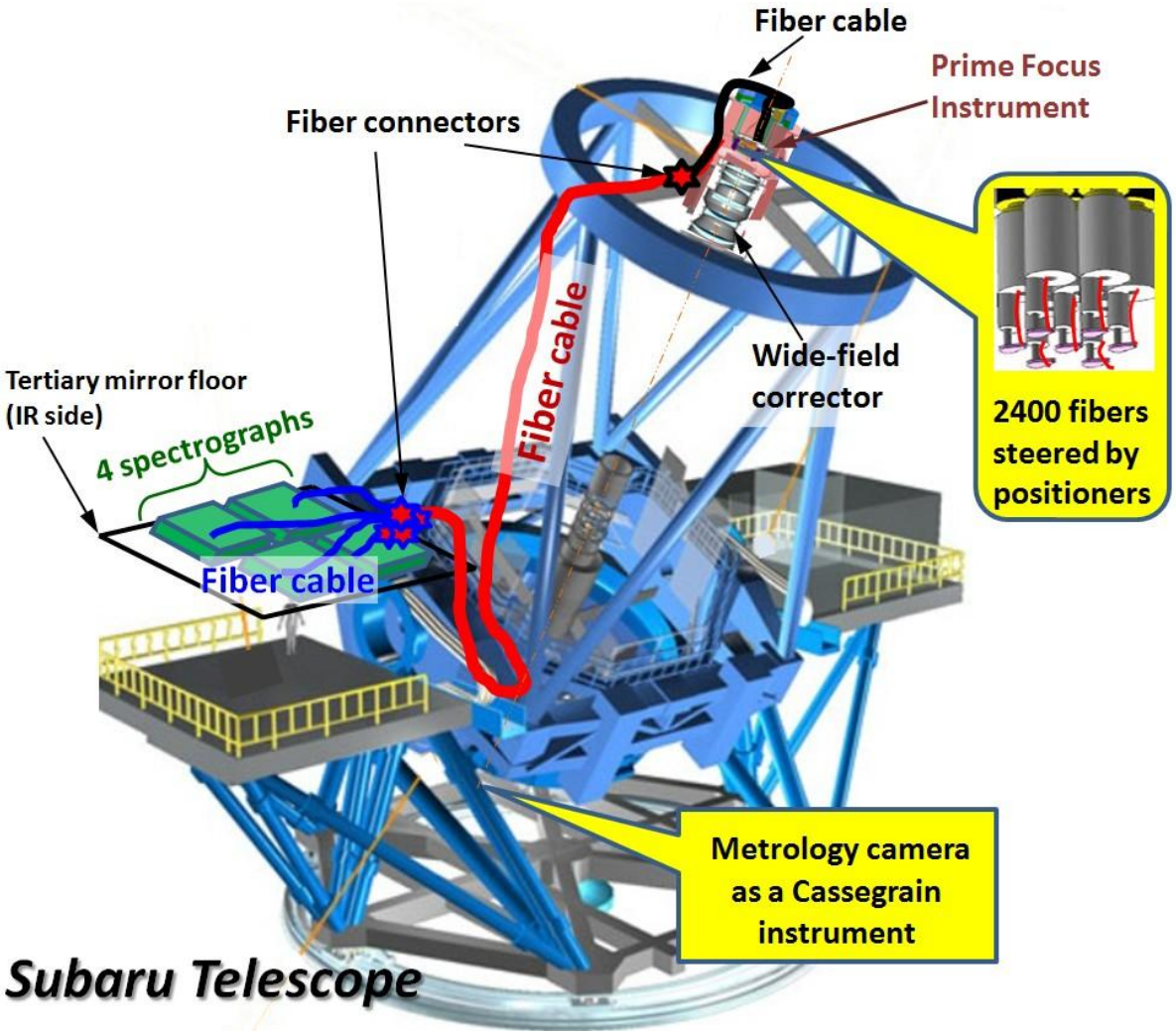
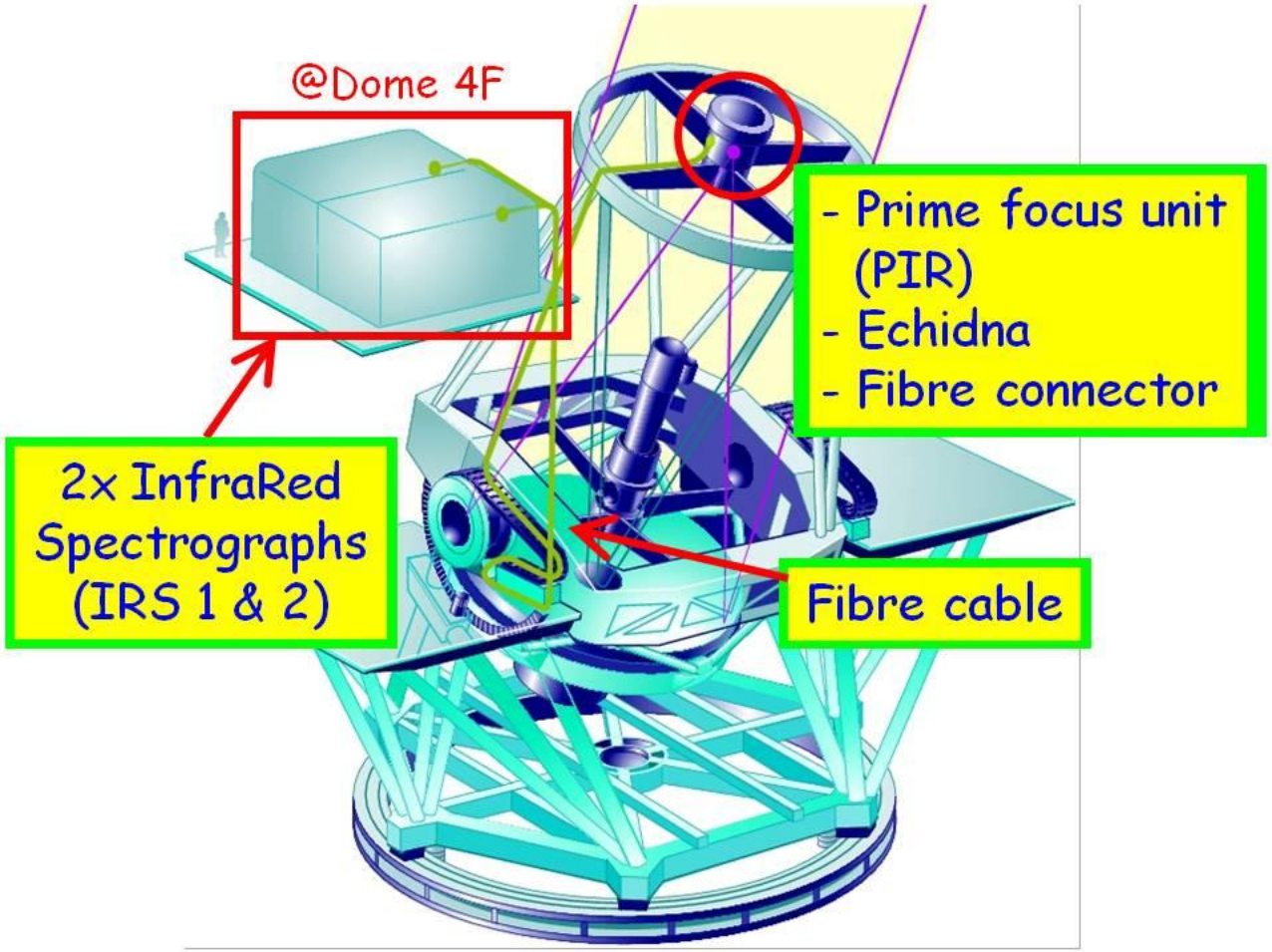
PFS (Prime Focus Spectrograph)



FMOS


@Dome 4F
- Prime focus unit (PIR)
- Echidna
- Fibre connector
2x InfraRed Spectrographs (IRS 1 & 2)
Fibre cable

PFS vs FMOS

PFS will be more capable than FMOS except H-band spectroscopy.

Instrument	Wavelength range [μm]	Number of fibers	FOV (deg)	Spectral resolution
PFS	0.38 – 1.26	~ 2400	~ ϕ 1.3	(1) 2000(blue) to 5000 (IR) (2) 5000 (red)
FMOS	0.92 – 1.8	~ 400	~ ϕ 0.5	(1) 600 (2) 2200

Decommission FMOS before PFS installation?

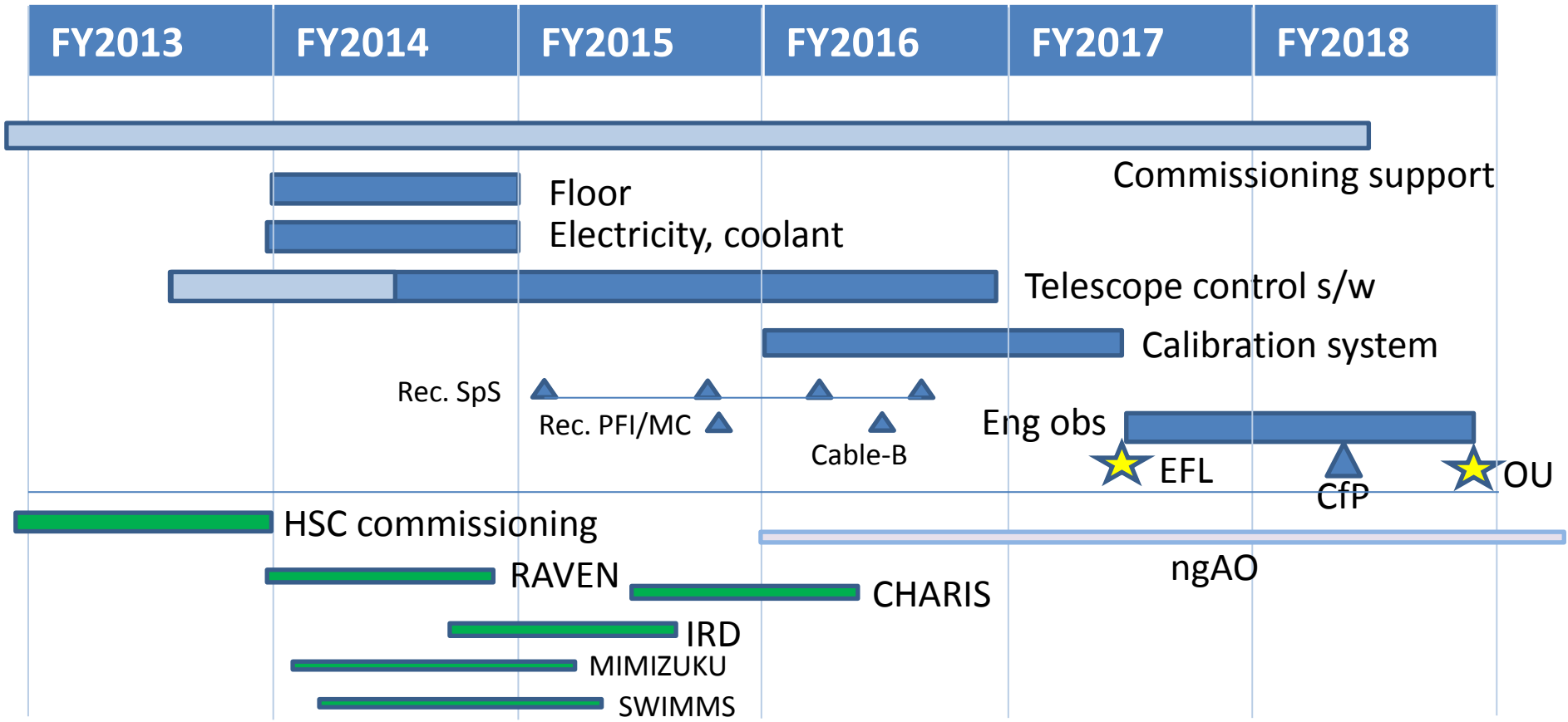
Pros

- reduce construction cost
  (floor , coolant, electricity, …)
- reduce observatory's workload
- Larger area for spectrograph: good maintainability

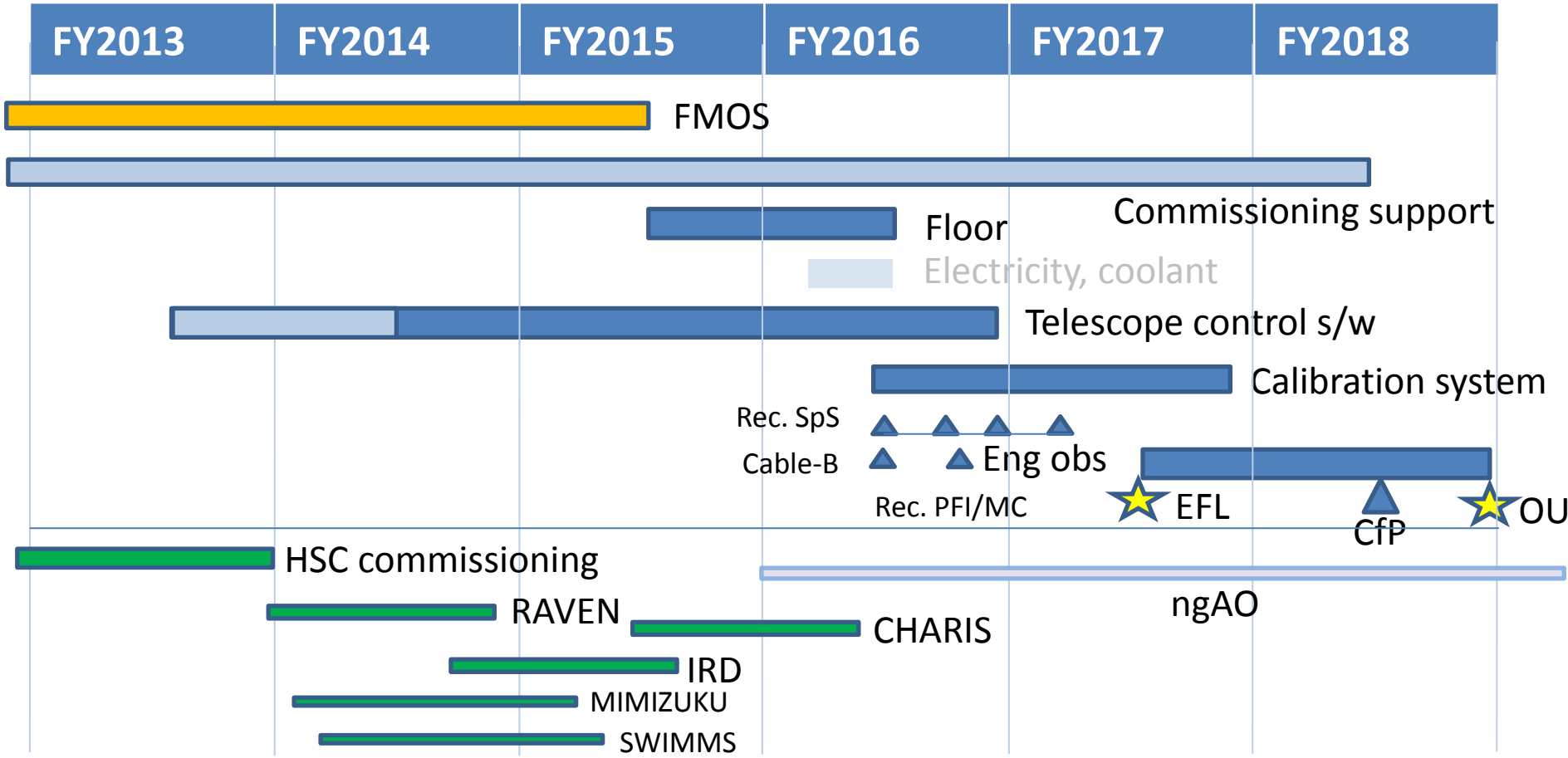
Cons

- Have we got enough scientific returns from FMOS?
- lose Subaru's unique capability for a few years (~4 yr)

Schedule (original)



Schedule (FMOS decommission)



Possible decommissioning process of FMOS

2013/Oct. Subaru internal meeting
- asses impact of the decommissioning

2013/Oct., Nov. Subaru Advisory Committee
- discuss with representatives of Subaru users

2014/Jan. Subaru Users Meeting
- discuss with Subaru community

2014/Jan. Subaru Advisory Committee
- SAC recommendation to Subaru

2014/Feb. Announce FMOS decommission

2014-2015 Intensive use of FMOS in S14B and S15A

2015/Aug. FMOS decommission Aug. 2015