

Gaia Data Release 3

Estado del satélite y de la misión

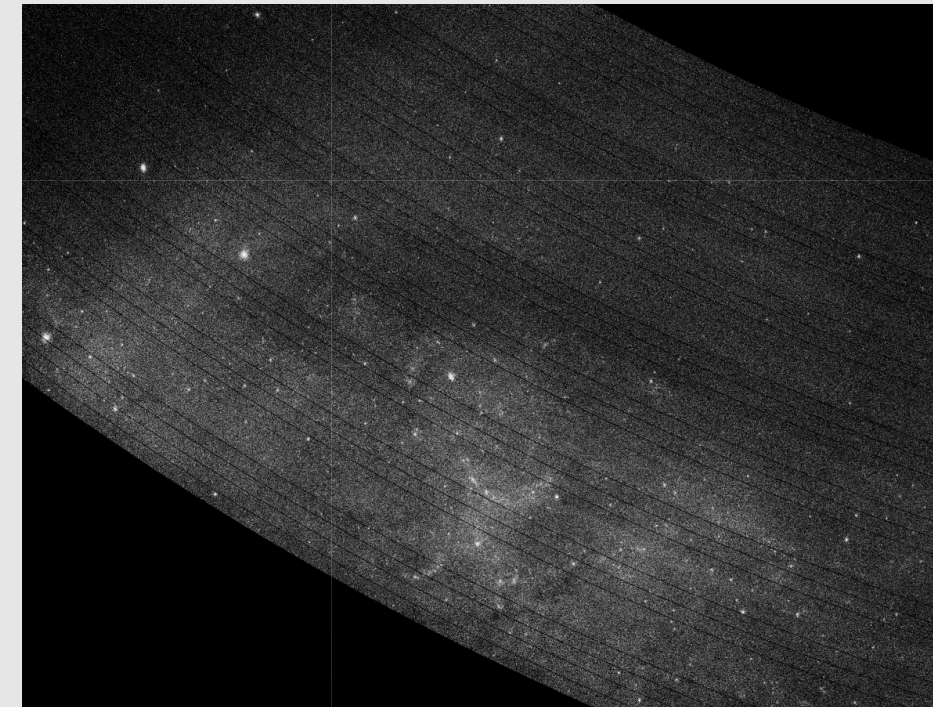
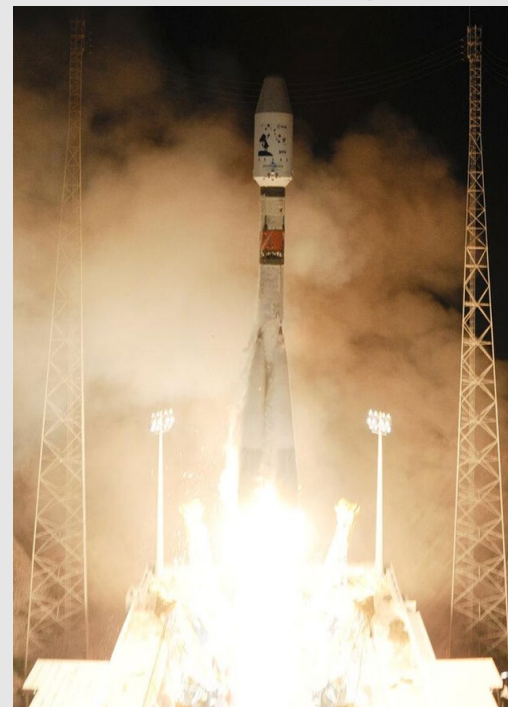
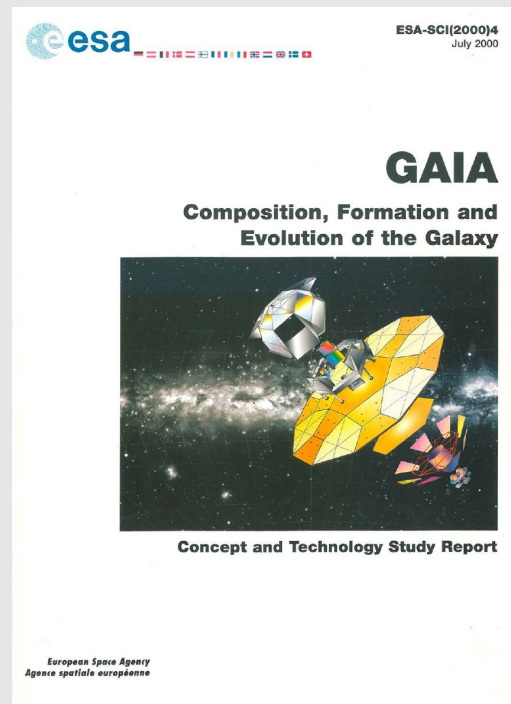
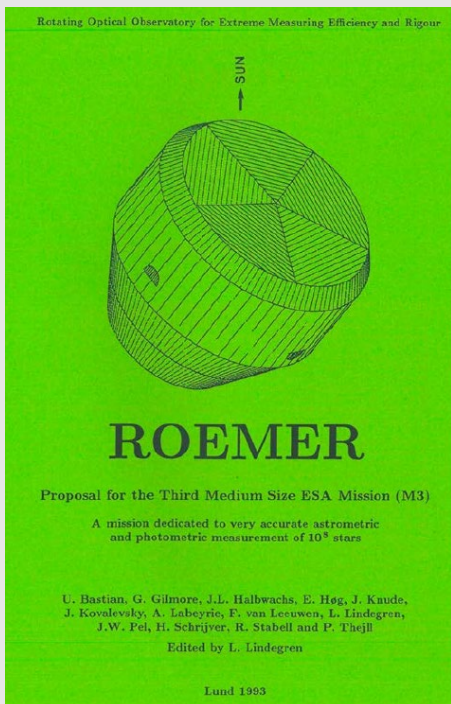
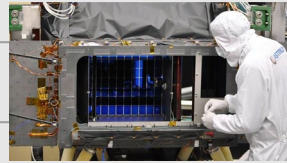
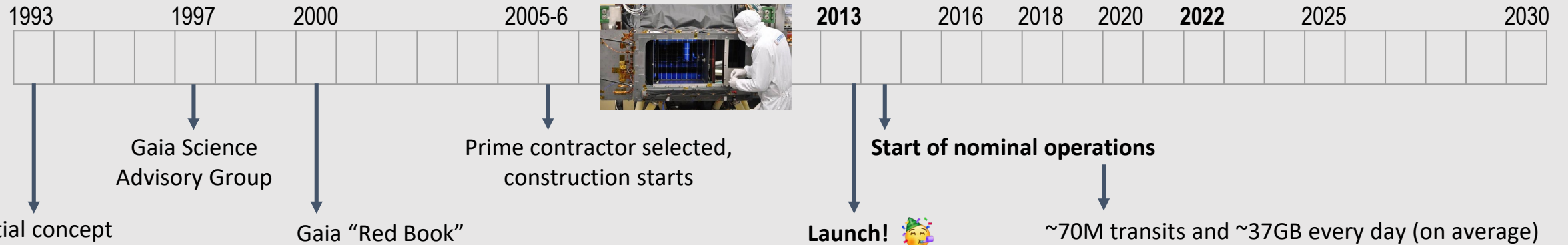
Jordi Portell (ICCUB/IEEC, Gaia Project Office)
en nombre del Equipo Gaia -UB

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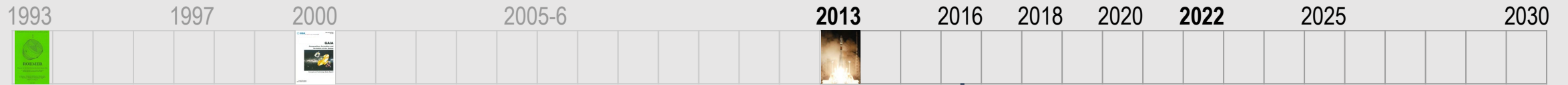
Airbus Space

ESA/Gaia/DPAC

A brief history of Gaia

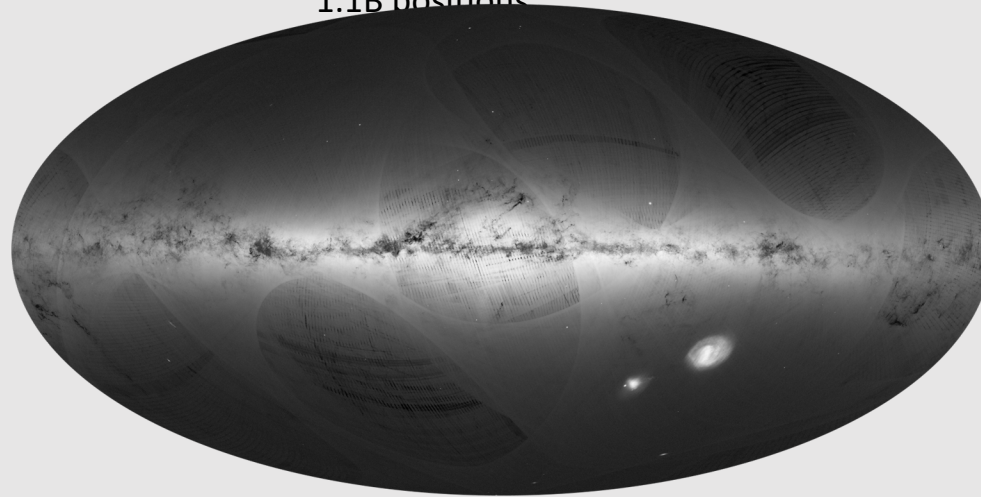


A brief history of Gaia

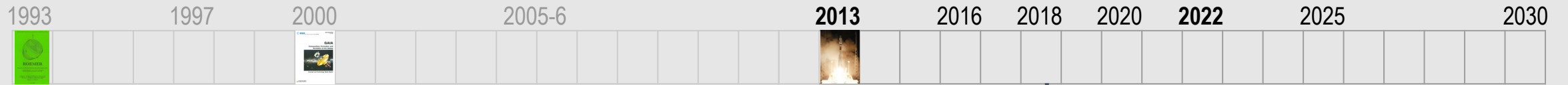


DR1

13.7 months
29B transits used
2M parallaxes +
motions
1.1B positions

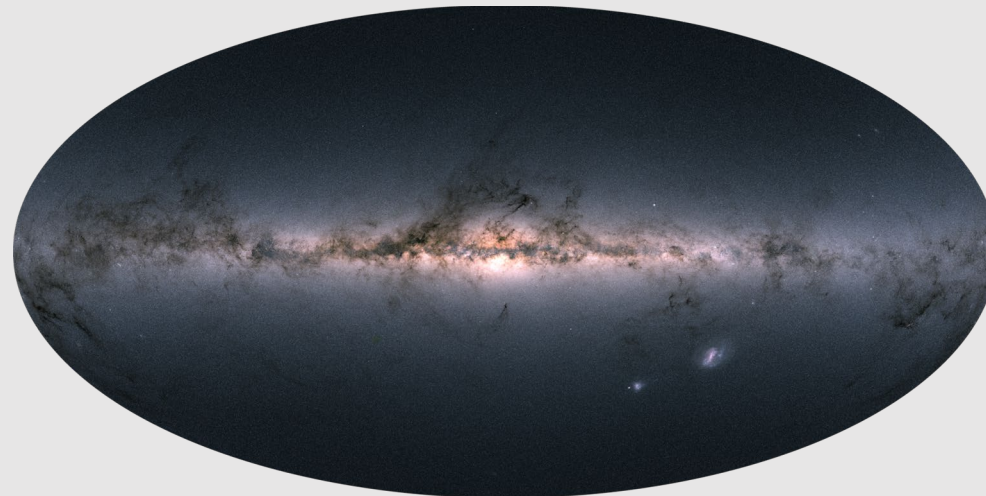


A brief history of Gaia

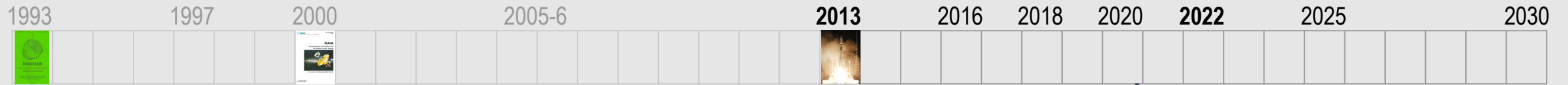


DR2

22 months
57B transits used (3.7B RVS)
1.3B parallaxes, motions and colours
7M radial velocities
Variables, asteroids, astrophys. params...

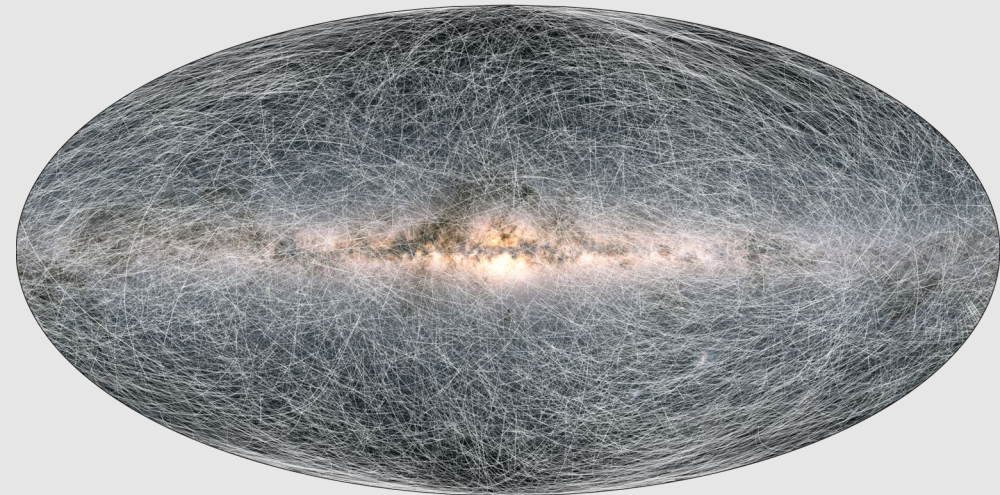


A brief history of Gaia

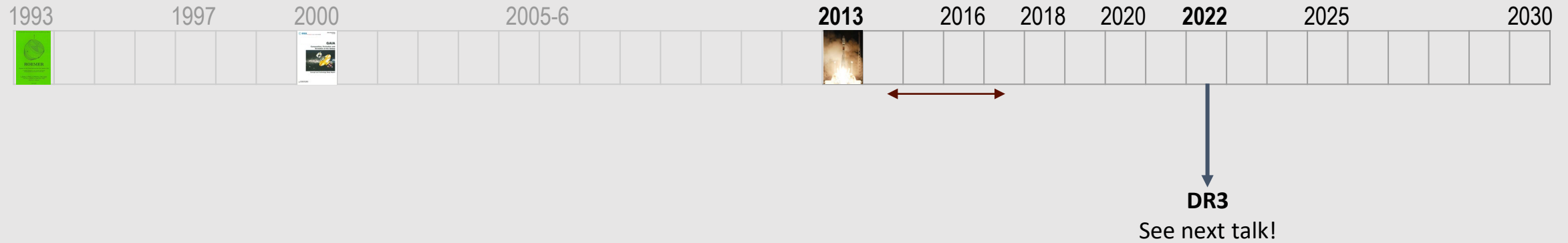


EDR3

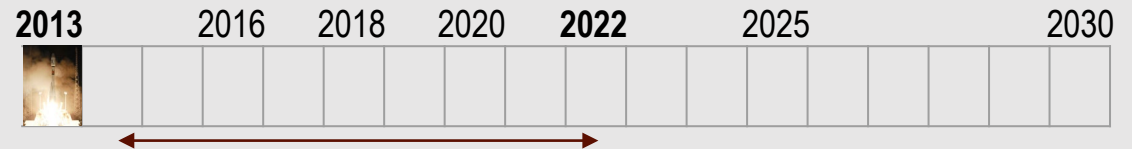
34 months
78B transits used
1.4B parallaxes, motions and colours
7M radial velocities (DR2)



A brief history of Gaia



Current status of The Discovery Machine



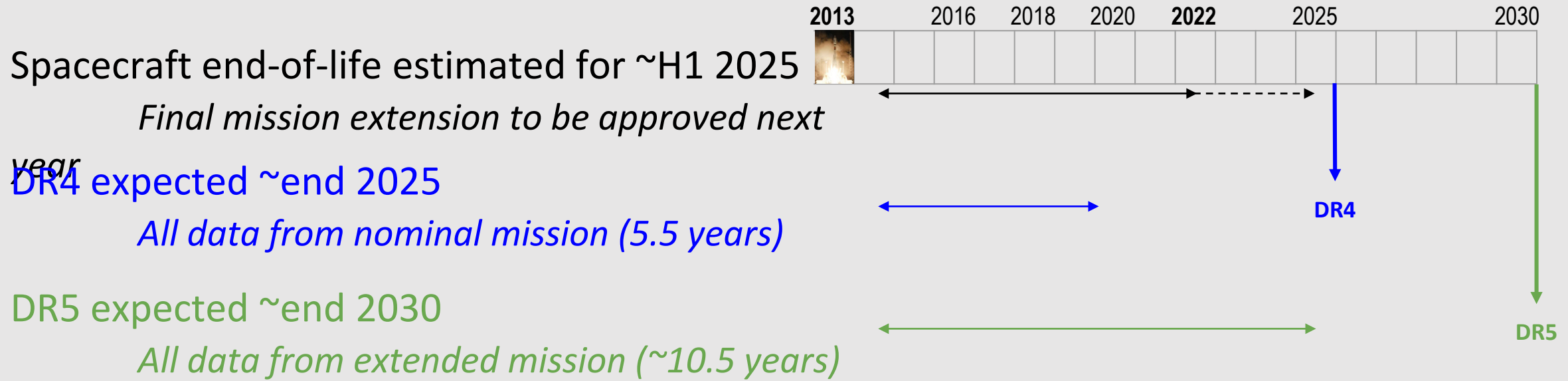
All systems up and running without significant problems

- Overall on-board observation efficiency (“uptime”) well above 95%
- 2880 days (**7.9 years**) in nominal operations
- Over **106 TB** of data collected from the spacecraft
- 202 billion transits (SM + AFx9 + BP+RP), 13 billion RVS transits (3 spectra each)
 - Nearly **2 trillion (2E12) astrometric CCD measurements**

Downlink and on-ground daily data processing systems also running without problems

Almost all DPAC pipelines ready for the next releases!

Looking ahead



Some cyclic DPAC systems (mainly astrometry) well advanced towards DR4

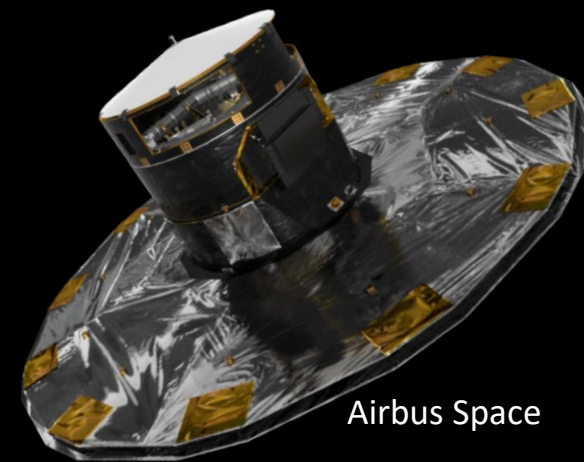
Daily DPAC systems already processing DR5 data since 2020

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