

# Archives in Post-Operations and Legacy

Bruno Merín 12/02/20<u>19</u>

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 **European Space Agency** 

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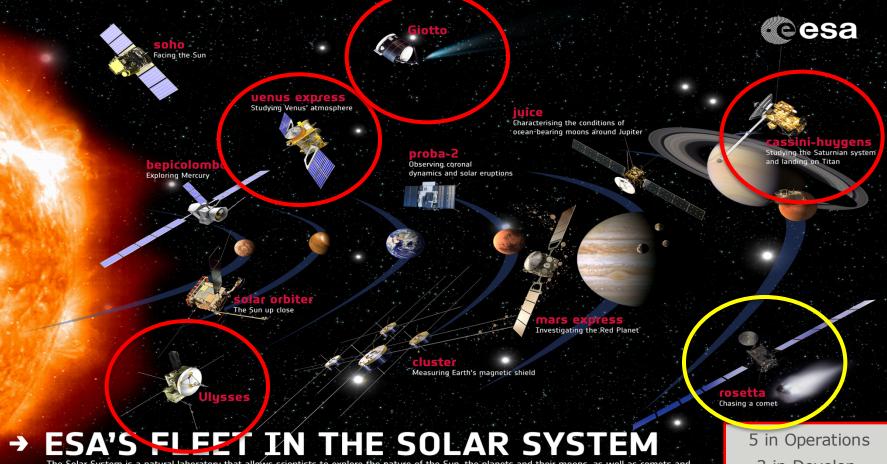
- Current missions in post-operations and legacy
- Scientific productivity of legacy missions
- How do we take care of the Legacy missions ?

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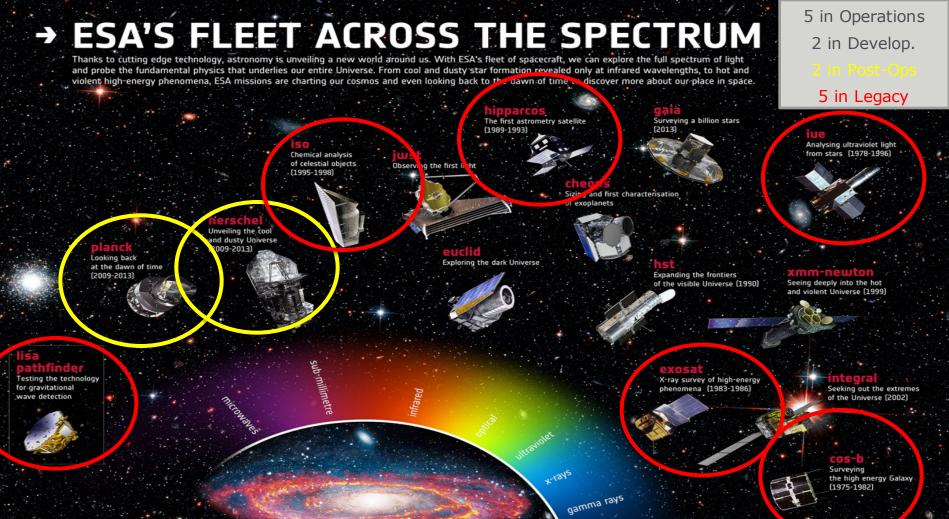
**European Space Agency** 

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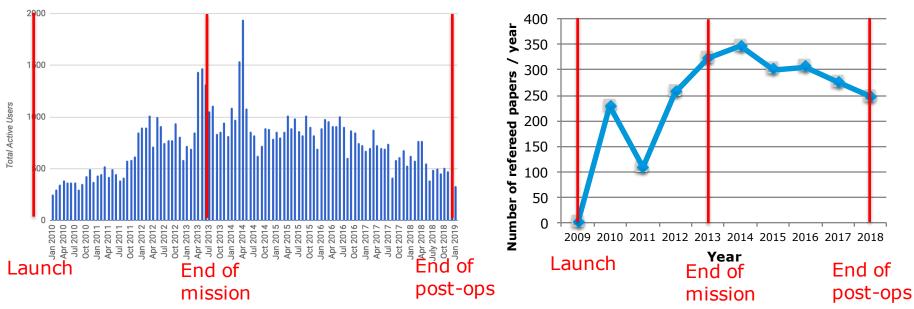
The Solar System is a natural laboratory that allows scientists to explore the nature of the Sun, the planets and their moons, as well as comets and asteroids. ESA's missions have transformed our view of the celestial neighbourhood, visiting Mars, Venus, and Saturn's moon Titan, and providing, new insight into how the Sun interacts with Earth and its neighbours. The Solar System is the result of 4.6 billion years of formation and evolution. Studying how it appears now allows us to unlock the mysteries of its past and to predict how the various bodies will change in the future.

5 in Operations3 in Develop.1 in Post-Ops4 in Legacy



### Scientific productivity of the Legacy missions





Herschel refereed publications

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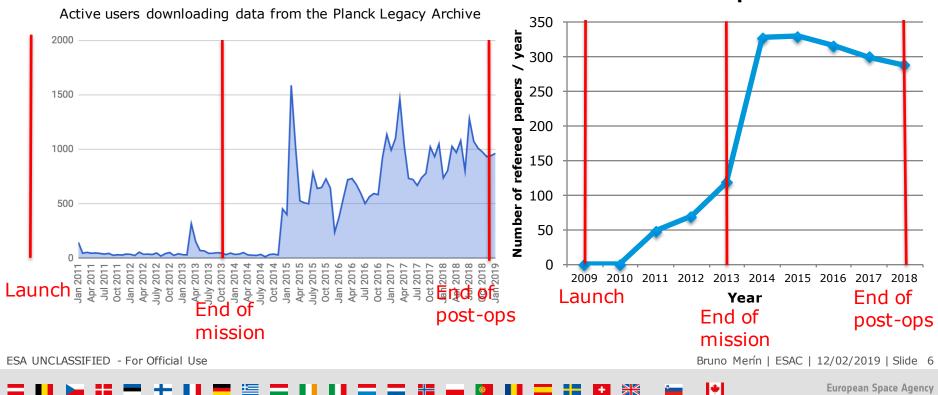
HSA Active Users downloading data per month

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## Scientific productivity of the Legacy missions



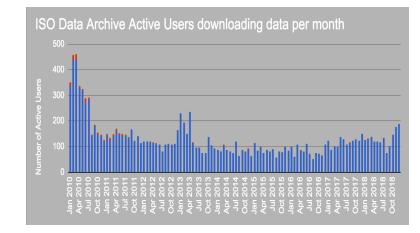


### Planck refereed publications

## Scientific productivity of the Legacy missions

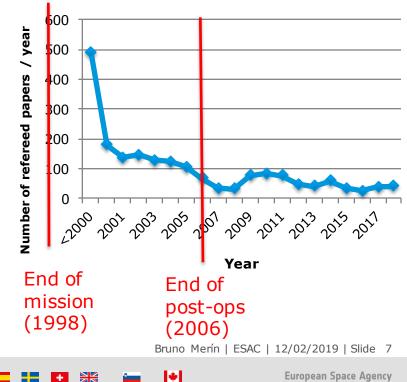


Active users downloading data from the ISO Data Archive

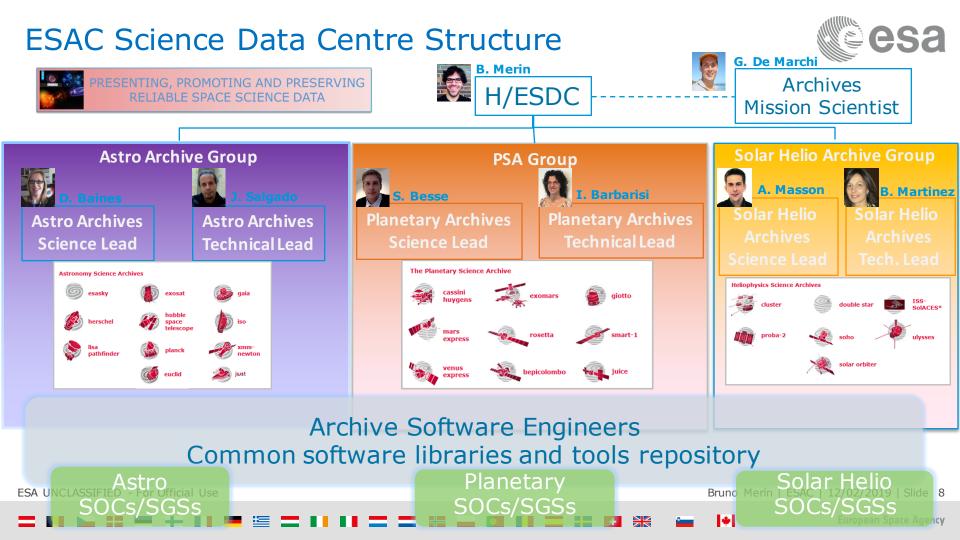


End of post-ops (2006)

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### **ISO refereed publications**



How do we take care of the legacy missions ?



- No development is foreseen in Legacy archives
- Small operational costs to keep archives running are absorbed by the active and development missions
- The Long-Term Data Preservation+ (LTDP+) ESA-wide activity allows for external contracts to:
  - Provide data in Planetary Science Archive with geometric information
  - Support the development of "valorisation" tools like ESASky
  - Migration of old ISO archive into a new interface (future)
  - Provision of added-value science products in ESA archives (future)

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