

## EU Horizon Europe Project: AutomaticS in spAce exPloration "ASAP"



The principal aim of the ASAP project is to design and develop algorithms for the automation of operations on board space missions, based on the use of artificial intelligence techniques to be implemented on the on-board processors. We plan to identify, select and develop artificial intelligence algorithms, in particular Machine Learning algorithms, and to investigate the possibility of their usage in real scenarios on board spacecraft.

The overall goal is to make automatic many of the on-board operations, such as, for example, the recognition, the real-time analysis and the selection of data to be transmitted to the ground, the identification of regions of relevant scientific interest, the activation of the burst mode to increase the resolution of the measurements in regions where this is necessary, etc.

