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**Título:** Science Opportunity Analysis for the Jupiter Icy Moons Explorer (JUICE)

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**Resumen:**

JUICE is the first large mission chosen in the framework of ESA's Cosmic Vision 2015-2025 program. JUICE will survey the Jovian system with a special focus on the three Galilean Moons. Currently the mission is under study activities during its Definition Phase. For this period the future mission scenarios are being studied by the Science Working Team (SWT). The Mission Analysis and Payload Support (MAPPS) and the Solar System Science Operations Laboratory (SOLab) tools are being used to provide active support to the SWT in synergy with other operational tools used in the Science Operations Department at the European Space and Astronomy Centre (ESAC) in order to evaluate the feasibility of those scenarios. This contribution will outline the capabilities, synergies as well as use cases of the mentioned tools focusing on the support provided to JUICE's study phase on the study of its critical operational scenarios and the early developments of its Science Ground Segment demonstrating the added value provided to planetary science missions.