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Towards a data platform providing a holistic support to AtLAST operations

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AtLAST (Atacama Large Aperture Sub-millimeter Telescope) is a project that aims at building and operating the next large single-dish facility observing at sub-mm wavelengths in Chile. In addition to pursuing transformational science and expanding technological limits, we put a strong emphasis on sustainability aspects. Among the many outcomes from the recently completed EU-funded design study was a number of transformational science cases covering several different of astrophysics. In addition, we have created a comprehensive operations plan that envisions remote distributed operations, a modern user support model and the implementation of infrastructures enabling an easy and transparent access to the data. Here, we want to explore strategies for describing, storing and sharing the different types of data that AtLAST will produce including engineering, weather and science data at different stages of processing. We envision a platform where the different AtLAST stakeholders (science users, proposal reviewers, telescope astronomers and operators, engineers etc) will be able to access the technical and scientific data they need as well as the tools necessary to analyse these data.

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