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CO	Confidential, only for members of the consortium (including the Commission Services)	

## Abstract:

In this document, we explore the different family distributions exhibited by the data for the three use-case providers. Based on these findings and the expert knowledge provided, we introduce the AMIDST modelling framework as a model that is capable to automatically learn from data and take advantage of potential domain knowledge. This preliminary model aims at being expressive enough to deal with the use cases (and potential future use cases) but also sufficiently self-contained so as to maintain complexity under control.

**Keyword list:** AMIDST modelling framework, application scenarios, preliminary models, data analysis, Bayesian networks, dynamic Bayesian networks, conditional linear Gaussian models.