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**Project full title: Analysis of Massive Data STreams**

**Project Acronym: AMIDST**

**Deliverable no.: D2.1**

**Title of the deliverable: The AMIDST modelling framework – Initial draft report**

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| **Dissemination Level** | | |
| **PU** | Public | **X** |
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**Abstract:**

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| In this document, we firstly discuss and justify the preliminary probabilistic graphical models for the different application scenarios of the three use-case providers previously identified in Deliverable 1.2. Then, we introduce the AMIDST modelling framework as a general model class that can be applied to solve each of these application scenarios and, potentially, future similar problems in other domains. |

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