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

**Project Acronym:** AMIDST

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| <b>Dissemination Level</b>   |   |          |
| <b>PU</b>  | Public  | <b>X</b> |
| <b>PP</b>  | Restricted to other programme participants (including the Commission Services)        |          |
| <b>RE</b>  | Restricted to a group specified by the consortium (including the Commission Services) |          |
| <b>CO</b>  | Confidential, only for members of the consortium (including the Commission Services)  |          |

**Abstract:**

This deliverable contains information about the project and a Project Fact Sheet flyer that will outline the project's rationale and objectives, specify its technical baseline and intended target groups and application domains, and detail intermediate and final outputs.

**Keyword list:** Project Fact sheet, technical baseline, final outputs.

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## Document History

| <b>Version</b> | <b>Date</b> | <b>Author (Unit)</b> | <b>Description</b>             |
|----------------|-------------|----------------------|--------------------------------|
| 0.3            | 30.01.2014  | Anne Bock            | Started document               |
| 0.5            | 31.01.2014  | Anders Madsen        | Commenting                     |
| 1.0            | 31.01.2014  | Anne Bock            | Completing of the deliverables |

## **Executive Summary**

This deliverable contains the information about the project and includes a project fact sheet flyer, which will be used by the project partners in connection with dissemination activities.

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# 1 Project details

## 1.1 *Project name*

Analysis of Massive Data Streams - AMIDST

## 1.2 *Project logo*



## 1.3 *Project website*

[www.amidst.eu](http://www.amidst.eu)

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## 1.4 **Project abstract**

The objective of AMIDST is to develop a toolbox providing a scalable framework that facilitates efficient analysis and prediction based on information captured in streaming data. The work includes developing and scaling up existing algorithms in order to make the AMIDST toolbox flexible and versatile enough as to cope with the needs and requirements of a wide variety of applications. The toolbox will be particularized to address three industrial use-cases. Each use-case solution will be used to rigorously test the framework on real and complex data.

The consortium has a strong and balanced combination of research and industrial partners. The academic partners ensure a scientific approach to theoretical and methodological aspects of the project. The industrial partners illustrate the importance of the potential developments provided by AMIDST for the EU economy, as they represent four strategic EU areas: software development, automotive industry, energy, and finance.

AMIDST will make significant contributions towards the expected impacts of the call objectives. It will provide a generic framework for analysis of extremely large volumes of streaming data, thereby adding, creating and increasing the value of existing and new data resources as well as providing a means for more timely and efficient decision making. Each use-case solution represents an important contribution to its application domain.

The industrial and commercial involvement in AMIDST ensures a high degree of commercial exploitations of the solutions developed. Each use-case represents one domain of commercial exploitation of effective solutions whereas the general framework will be applicable to a wide range of other domains.

With the objective of creating a strong positive synergy, AMIDST takes an integrated European approach and joins partners with high interests in probabilistic modeling methods as well as techniques and algorithms for analysis of extremely large data volumes.

## 1.5 **Project Coordinator**

| <b>Administrative Coordinator</b>  | <b>RTD Manager and Deputy Coordinator</b>  |
|--|--|
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## 1.6 Project partners

|   |   |
|---|---|
|                                | <p><b>Aalborg University (AAU) - Denmark</b></p>                                |
|  <p>UNIVERSIDAD DE ALMERÍA</p> | <p><b>University of Almería (UAL) - Spain</b></p>                               |
|                                | <p><b>HUGIN EXPERT A/S (HUGIN) - Denmark</b></p>                                |
|                                | <p><b>Norwegian University of Science and Technology (NTNU) – Norway</b></p>    |
|                              | <p><b>Daimler AG (DAI) – Germany</b></p>  |
|                              | <p><b>Verdande Technology AS (VT) – Norway</b></p>                              |
|                              | <p><b>Cajas Rurales Unidas Sociedad Cooperativa de Crédito (CM) – Spain</b></p> |

## **1.7      *Administrative details***

### **1.7.1      **Contract No****

- Contract Number: 619209

### **1.7.2      **Entry into force of the contract****

- 1<sup>st</sup> January 2014

### **1.7.3      **Duration of the project****

- 36 Month
- 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2016

### **1.7.4      **Overall Budget****

- 3.922.756 €
- Of which a maximum of 2.762.000 € is granted by the EC.

## **1.8      *Project fact sheet flyer***

See next page.

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Today, omnipresent sensors are continuously providing streaming data on the environments in which they operate. For instance, a typical monitoring and analysis system may use streaming data generated by sensors to monitor the status of a particular device.

Analysis and monitoring systems should be designed to make predictions about the future behaviour of the device, or diagnostically infer the most likely system configuration that has produced the observed data. Sources of streaming data with even a modest updating frequency can produce extremely large volumes of data, thereby making efficient and accurate data analysis and prediction difficult. This calls for scalable data analytics.

The objectives of the AMIDST project is to provide a scalable framework that facilitates efficient analysis and prediction based on information captured in streaming data. This includes developing and implementing methods and algorithms for scalable data analytics using probabilistic graphical models. AMIDST will develop a toolbox and supporting tools that provide a scalable framework that facilitates efficient analysis and prediction based on information captured in streaming data. The work includes developing and scaling up existing algorithms in order to make the AMIDST toolbox flexible and versatile enough to cope with the needs and requirements of a wide variety of applications. The work will provide a generic framework for analysis of extremely large volumes of streaming data, thereby adding, creating and increasing the value of existing and new data resources, as well as providing a means for more timely and efficient decision making.

The AMIDST toolbox and developments will be applied to three industrial use-cases that deliver real and complex streaming data. The use-cases originate from the finance, automotive and oil industries. Each use-case solution represents an important contribution to its application domain. Each use-case represents one domain of commercial exploitation of effective solutions, whereas the general framework will be applicable to a wide range of other domains.

With the objective of creating a strong positive synergy, AMIDST takes an integrated European approach and joins partners with a great interest in probabilistic modeling methods, as well as techniques and algorithms for analysis of extremely large data volumes.

Intermediate outputs of AMIDST include the publication and dissemination of technical and scientific results, as well as the development of open source software and a supporting community. AMIDST will develop a community around the open source toolbox that supports the further development and usage of the results beyond the end of the project. The final outputs of the project are a scalable framework with supporting tools including open source tools, as well as solutions for three industrial use-cases requiring scalable data analytics of streaming data from the finance, automotive and oil industries.

Read more: [www.amidst.eu](http://www.amidst.eu)

#### Partners

- **Aalborg University (AAU) - Denmark**
- **University of Almería (UAL) - Spain**
- **HUGIN EXPERT A/S (HUGIN) - Denmark**
- **Norwegian University of Science and Technology (NTNU) – Norway**
- **Daimler AG (DAI) – Germany**
- **Verdande Technology AS (VT) – Norway**
- **Cajas Rurales Unidas Sociedad Cooperativa de Crédito (CM) – Spain**