

## D4.2 AEOLIX GUIDELINES FOR HIGH LEVEL ARCHITECTURE FOR COLLABORATIVE DATA EXCHANGE

**Lead Beneficiary: ATOS**

**Author(s): Alejandro García, ATOS; Carmen Perea, ATOS; Elisa Herrmann, ATOS; Germán Herrero, ATOS; Javier García, ATOS; Eusebiu Catana, ERTICO; Thomas Deseilles, ERTICO**

Full deliverable available here: <http://aeolix.eu/deliverables/>

Deliverable 4.2 contains all the information related to the high level governance architecture related to the integration, securing, management of data flows and their organization within AEOLIX. The content written in this deliverable is Public. This document provides relevant information for logistic business departments willing to explore new ways of sharing information and business models. The document contains data sharing patterns and information about business models.

The overall objective of WP4 is to identify and assess key AEOLIX practices for collaborative data sharing. WP4 is considered to be complementary to the technical approach for a collaborative architecture being developed in WP3. It aims to establish a sustained flow of information across modes, entities and countries enabled by interoperable systems and standards, allowing the re-use of data and trustworthiness of the data content. WP4 has addressed the structural problems and barriers of data exchange and sharing and develops solutions to overcome these problems in deliverable D4.1.

The proposed AEOLIX governance model is to address the different levels of data exchange, reaching from strategic through tactical to operational issues; key stakeholders in industry and administrations are involved. More specifically WP4 aims to:

- Identify and assess key AEOLIX practices for collaborative data sharing (liaise with LL) (Task 4.1)
- Define an architecture for cross entity data exchange and sharing (Task 4.2)
- Define guidelines for a framework for trusted, interoperable and high quality data exchange (Task 4.3)
- Define a certification framework to certify company, who want to join the AEOLIX platform (Task 4.4)

The current deliverable summarized the work carried out in Task 4.2 Define an architecture for cross entity data exchange and sharing. The structure of this deliverable is as follows: section 2 describes the literature review on data sharing business models, related research projects, potential barriers and drivers for data, to conclude the section provides recommendations to address the concerns of data sharing and to take advantage of the data sharing benefits. Section 3 provides the generic data exchange and sharing architecture for AEOLIX and the cross-entity data sharing practices. Moreover, the basis for assessing the implementation of GDPR policies in AEOLIX is provided and legal and contractual constraints for data sharing are identified. Section 4 explains the suitable business models for the AEOLIX Platform. The final section 5 includes conclusions.

