D5.4 AEOLIX LIVING LABS IMPLEMENTATION REPORT

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

This report describes the Implementation Reports of the Living Labs as conducted under AEOLIX. As proposed and confirmed under the Grant Agreement, the AEOLIX concept has been verified by a number of strong user communities – the Living Labs - across Europe, who in the early stages of the project identified concrete, urgent operational challenges that the innovative approach enabled by AEOLIX has addressed under this project.

This verification of AEOLIX has been conducted through 12 Living Lab (LL) trials and test cases. As reported earlier, the operational challenges were identified, the data gap and sources pinpointed per actor in the chain or unit of analysis, and the required data was made available via the AEOLIX architecture.

This Deliverable D5.4 focusses on the final results achieved by the Living Labs, as reported in their individual Implementation Reports included in the relevant Appendices that follow.

Specific data sources and samples of the data to be shared have been sought, and the specific visibility requirements were defined. A number of questionnaires were used to structure the information in a uniform manner, as per the Methodology in place.

For each of the critical nodes in the supply chain, the Living Labs have selected and developed formal Use Cases that specify the problem being addressed and solved and the flow of information between the parties needed to do so. The Use Cases thus form the basis to identify the sources of data to be used to address the Information Gap experienced by the actors.

Typical information gaps result from LLs having to log into specific and disparate systems to see the status and location of shipments and trucks, read the emails with any updates, and then act on this information when the facts by then are already changed. Trucks will already be on the way as scheduled, and arriving at the terminal, have to wait. These are the types of Information Gaps being addressed by the AEOLIX platform and being validated by each of the LLs through the Use Cases being developed.

The Living Labs cover a broad range of logistical arena's. We can characterise these arena's and the Living Labs as typically:
- Hub, port or terminal oriented
- Supply chain visibility and control oriented
- Network optimization oriented

For each of these orientations, different types of management needs are evident, ranging from local process control, end-to-end-visibility and vertical collaboration, to load factor and capacity utilization optimization through horizontal collaboration.

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The main coordinating mechanism is the Living Lab Methodology, within which the current Report represents final reporting phase. This has sought to ensure that each LL operated along the same dimensions and phases.

The Methodology as implemented has proceeded along the following phases:
- D5.1 Implementation Plan
- D5.5 Establishing the Collaborative Business Environment
- D5.2 Connectivity Gap Analysis
- D5.3 Logistics Business Needs and Data Identification
- D5.4 AEOLIX Implementation

As foreseen in the Proposal and Grant Agreement (GA), and in accordance with subsequent agreed and approved Amendments, there are 12 LLs identified, each with a Consortium Member as Lead, and supported by other Consortium Members. As needed further Associate Members of the Consortium have been involved.

The Living Labs have continued to evolve as to where the most impact can be made, with visibility on the supply chain being pursued. As parties moved forward in actual implementation, the technical options and requirements continued to be refined, based on actual availability of required information, and the manner in which this can be mobilized to solve the information gaps at hand.