

D5.1 AEOLIX LIVING LABS IMPLEMENTATION PLAN

Lead Beneficiary: GIVENTIS INTERNATIONAL BV

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The AEOLIX concept will be verified by a number of strong user communities - Living Labs - across Europe, which have identified concrete, urgent operational challenges that the innovative approach enabled by AEOLIX seeks to address. This verification will occur through the conduct of 11 Living Lab trials or test cases, where the operational challenge is identified, the data gap and sources pinpointed per actor in the chain or unit of analysis, and the required data made available via the AEOLIX architecture. The challenges can roughly be defined as being – respectively - hub, terminal and port oriented; supply chain visibility and vertical control oriented; and network level, horizontal collaboration oriented.

Each Living Lab (LL) challenge will have one or more of these orientations to address, where a lack of appropriate data availability and information exchange is a strong contributor to the challenges identified. We also expect to see a shift in the kinds of data exchange required and the level of intelligence to be developed within the Intelligent Dashboard to provide the required functionality.

Logistics Orientation			
	Hub, Port, Terminal	Supply-chain visibility and vertical control orientated	Network Optimization
Management Needs	Process control, customs clearance Capacity planning scheduling	End-to-end visibility and exception management Vertical cooperation, mode conversion	Load factor, capacity optimization Horizontal collaboration
Relevant LL	LL1. Intermodal Logistics Management LL2. TermiLab LL3. Multimodal information exchange collaboration	LL5. Inland Waterway Doneau LL6 Intelligent Port and City LL7. Coop retail inbound LL8. EU-China Logistics	LL9. Cross chain collaboration LL10. Collaborative automotive industry LL11. Load Center Control
Data needs and outputs (examples)	Vessel load Berthing schedule Load plan ETA Container location Customs clearance Status	Load size and format, origin, destination Asset availability Capacity availability Schedule Voyage reports Travel authorization Shipment status ETA	Combined Demand Combined Loads Combined Locations Combined Destinations Corridors Combined Lanes, Schedules
Application intelligence level needed	Data availability, visibility, document transfer	Data availability, visibility, document transfer On-line booking links, confirmations Intelligent agent, exception alerts	Lane analysis Optimization algorithms Cost analysis

Table 1: Logistics Orientation of AEOLIX Living Labs



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In the implementation phase, it is foreseen that the application of the AEOLIX concept begins with the LLs oriented around hubs, ports and terminals, where the partners are physically close to each other and can confer intensively regarding the operational issues and information gaps to be addressed across multiple players. The sequencing of LLs to be supported progresses then to supply chain visibility and vertical control challenges, and lastly to the network level horizontal collaboration.

The AEOLIX Living Lab Coordination Plan (Deliverable 1.4) seeks to ensure the controlled and consistent implementation of the Living Labs work package (WP) 5 (AEOLIX Verification with Living Labs) so as to obtain understandable and replicable results across the Project.

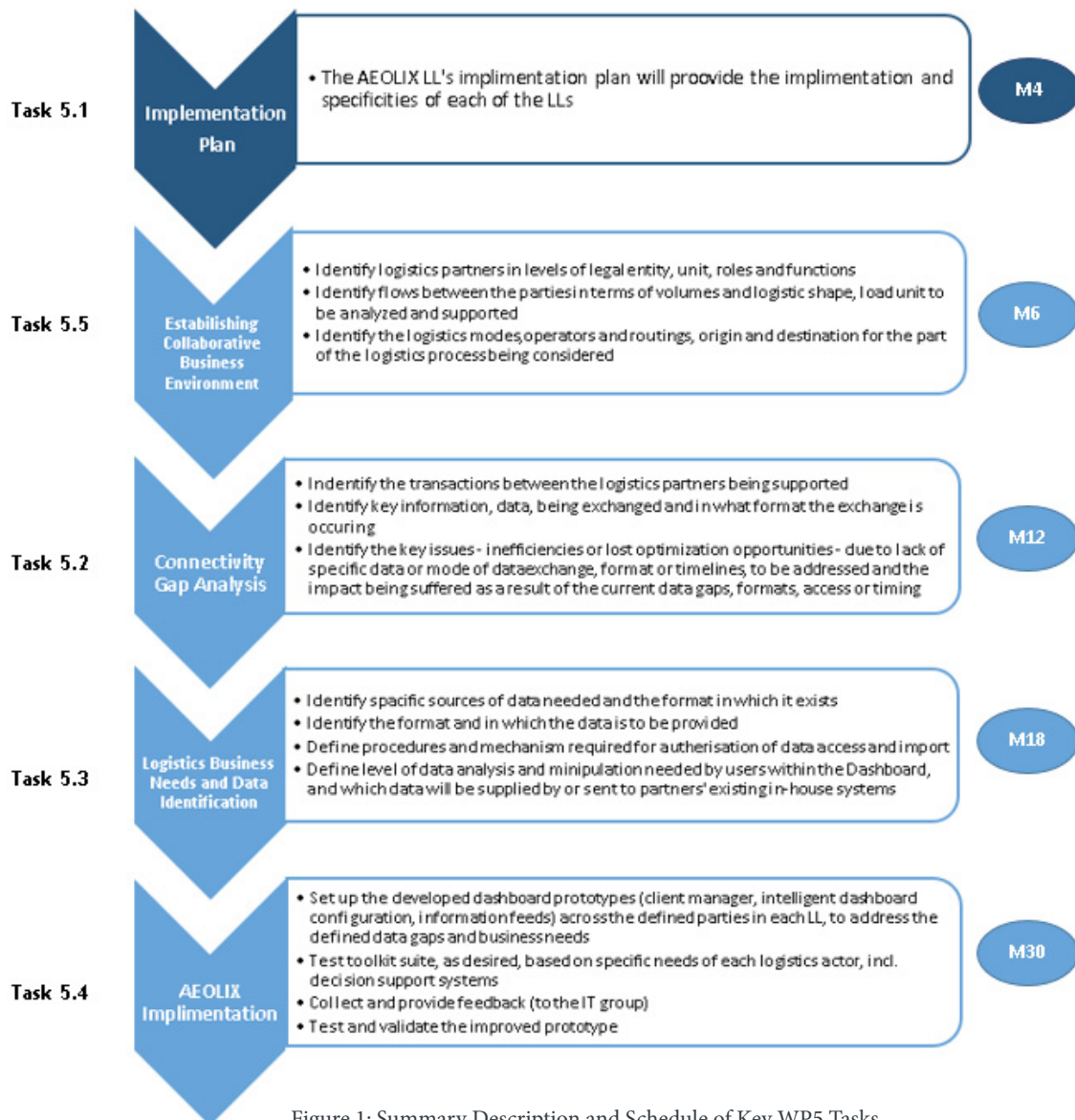


Figure 1: Summary Description and Schedule of Key WP5 Tasks

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The main coordinating mechanism is the Living Lab Methodology. This ensures that each LL will – regardless of the specific context and content – work along the same dimensions and phases. The WP5 Tasks will be the same for each LL case to be examined, and the Task Deliverables will consolidate the results across the LLs.

Each LL will operate by the standardized methodology, and will report accordingly for each Task and subtask. The methodology identifies the partners to join in the collaborative environment, the connectivity gap, the data needs as informed by the business needs within each LL situation, and will then implement the AEOLIX architecture in conjunction with the WP3 (AEOLIX IT Ecosystem) team. Each of the 11 LLs have a Consortium Member as Lead, and are supported by other Consortium Members. As needed, further Associate Members of the Consortium are involved.

Each Task under WP5 is divided, as needed, into operational subtasks, which will be adapted to the realities of each LL's context and scope. The timing of the subtasks are not official deliverable dates, but internal, operational progress benchmarks and acts as a phasing mechanism. While these are internal, operational benchmarks, they will be included in the common time line as targets to achieve.

Deliverable 5.1 AEOLIX LLs Implementation Plan will provide more detailed support for the implementation of the methodology. Each LL team have detailed their own implementation and specificities of each of the LLs. Thus the subtasks for D5.1 are the Implementation Plans for each LL. These plans are presented in the annexes of the full deliverable.

