## Understanding: Working Groups, Projects and Ideation Topics

### The Working Groups

- Address certain topics found to be of high relevance for the logistics industry.
- We have organisational, legal and technical topics within each working group.
- Participation in working groups is limited to members of the Foundation’s Support Association.
- Working Groups can host several projects on one overarching topic.

### The Projects

- Jointly develop initial ideas into promising open source solutions.
- Development, testing and documenting of open source software and components.
- Collaboration of software developers from different companies.
- High organisational transparency and clear assignment of roles.

**Code for the future: Use and adapt.**

### The Ideation Topics

In workshops, experts from our Innovation Community jointly develop topics regarding open source solutions they want to work on next.

- A multi-stage process through open ideation and idea generation.
- Unbiased moderation of contributions and proposals made, discussions, clustering and prioritising of ideas.
Project: eConsignment note (eCMR)
Start: May 2022

Goal/Mission
The use of paper documents for decades has led to many problems such as language barriers, loss of time, manipulation and transmission errors. The eCMR project will enable companies to create, edit, store, transmit and archive CMR transport documents in an electronic, human- and machine-readable format.

Status
The first implementation is available and initial tests have been carried out with two platforms communicating with each other. Several logistics companies are currently participating in the test.

Completed
• Reference implementation with a focus on single instances is available
• Reference implementation has been tested based on different use cases
• 4 Blockchain nodes in stable operation (4 companies)
• eCMR instance running in 2 companies
• Legal questions regarding signatures on the eCMR are clarified by the Legal Product Owner

In Progress
• Agree on a governance model for the blockchain components
• Present and discuss eCMR solution with national authorities
• Obtain feedback from pilot implementation for possible improvements
• Connect more stakeholders to the test network

Next Steps
1. Pilot for the cross-platform exchange of eCMRs
2. Pilot for one platform with several guest exchanging eCMRs
3. Define and implement basic functionalities for a common open source solution
**Working Group: Digital Air Cargo**

**Goal/Mission**
The level of digitalisation in air cargo is still low. NE:ONE will implement a ONE Record data hub to establish digital processes and seamless data exchange between different air cargo stakeholders such as airports, airlines, shippers and authorities.

**Status**
Development of NE:ONE is ongoing. Version 1.0.0 released at the ONE Record Hackathon in Seeheim

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**Completed**
- Basic NE.ONE 1R functionalities implemented and available in the Open Logistics Repository
- 1R Core API functionalities have been implemented and are available in the Open Logistics Repository
- Release of NE:ONE v1.0.0

**In Progress**
- Finetuning and improvement of a standard together with IATA in the final steps
- Design of efficiency features and implementation still in progress
- Preparation of partner use cases
- Define required stakeholders for 1R test network

**Next Steps**
1. Implementation of 1R core and efficiency functionality
2. Set up of 1R test network including external and internal connections
3. Testing 1R use cases
Working Group: Open Customs Blockchain

Projects: GPID & BORDER
Start: January 2023

WG Members

Goal/Mission
The working group aims to achieve better integration and networking of digital customs procedures and data exchange to prevent manipulation.
GPID: Simple data set to speed up cross-border exchange.
BORDER: Export data on blockchain based on EAD.

Completed
- Identification of stakeholders that are necessary for the success of the pilot project
- EAD on blockchain functions released as open source in BORDER
- Authenticity verification via hashed documents; Reference implementation running in GPID

In Progress
- Presentation of the Working Group to customs officials from various EU and non-EU countries and commissions
- Obtain approval from exporters/importers to participate in a pilot project
- Preparation of a pilot network to test different use cases

Next Steps
1. Encourage DG Taxud to cooperate
2. Encourage 4 traders to cooperate
3. Open source release of additional blockchain and customs application
4. Refined designing of governance and infrastructure (access policies; authorization management)
5. Technical set-up of pilot network
6. Pilot network test

Status
First reference implementations running within test network.

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We agreed on the scope of the key app features. They were reduced to the essential functions and made more precise.

The key functionalities can be divided in two groups of information:

1. Basic information from the driver
   - Position or geolocation
   - Arrival times
   - Proof of delivery (POD) and confirmation about the acceptance or nonacceptance of the delivery
   - Status transmission (where at least some common definitions of statuses are needed)

2. Basic information towards the driver
   - Submittance of (transport) orders including all needed parameters like sender, recipient, time window
   - Order changes during the process

Basic information
- Joint implementation of a white-label driver application focused on the spot market. White label driver app should run in parallel to existing company-individual apps
- Common approach for a standardised solution

Workshop results
- We agreed on the scope of the key app features. They were reduced to the essential functions and made more precise.
- The key functionalities can be divided in two groups of information:
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Challenges
- Attract the drivers to use our solution
- Manage to become the "one" solution that succeeds against the many existing individual solutions

Open questions
- Which type of implementation is the best in terms of acceptance: App, website or messenger solution?

Next steps
- Find a leading company to drive further activities
- State-of-the-art analysis of existing driver apps, solutions and technologies relevant for a white label driver app
- Joint marketing and communication needed

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Ideation Topic: Train & Wagon

Basic information
- Common data model for the exchange of multimodal freight transport information
- Focus on all train and wagon related information

Challenges
- The research projects "Rail Freight Data Hub", "DIANA", "Silicon Economy: SWIn" together with "DIN SPEC 91073" have been identified as relevant. One of the challenges will be to find a way to link our project with them.

Workshop results
- Three main areas could be identified:
  1. "Common data models"
     - uniform information on train path allocation
     - loading lists
     - loading units
     - sequences
  2. "Uniform Event Standards"
     - supply chain events
     - events from automatic or automated systems such as OCR
  3. "Commodity services"
     - linking customs-relevant information directly to loading lists
- The interface and service to the customer continues to be seen as a competitive factor and must be implemented individually by the companies.

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Open questions
- Who (which company) will take the lead on the topic?

Next steps
- In the Common Data Models theme cluster, relevant preliminary work has already been identified. This work can be used as a starting point for common descriptions
- Get in touch with Railnet Europe
**Ideation Topic: Track & Trace + ETA**

**Basic information**
- Uniform definition of a track & trace process including data and events
- There is so much overlap between Track&Trace and ETA that it is useful to consider these two areas together

**Workshop results**

This topic focuses on common data and event models, including implementation guidelines, for the exchange of track & trace-related data between different companies along the supply chain. The main objective is to achieve interoperability across different platforms and systems. The focus is on land transport, covering road and rail. Air and sea transport will be added later.

A three-step approach was identified during the first workshops:

- Common public API for the exchange of track & trace-related data
- Harmonised events (in addition to public API) which can arise during a transport process
- Joint definition of common steps in the supply chain

**Challenges**
- Create a minimum set of common data based on consensus, while still allowing for individual additions

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**Open questions**
- How can we create synergies with other ideation topics, especially train and wagon information?

**Next steps**
- Overview of existing standards, established data models and data exchange formats available
- Start to define the minimum information required for a useful track and trace approach