## Deliverable 3 Proof – Project Report on Pilot Phase

<table>
<thead>
<tr>
<th>KIC project the report results from</th>
<th>Blockchain Solution for Incentivising Low-Emission Transportation (LET-Chain)</th>
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<tbody>
<tr>
<td>Name of document</td>
<td>Pilot Phase Testing Report</td>
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<tr>
<td>Summary/brief description of document</td>
<td>Records the results of the beta-testing of the LET-Chain</td>
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<td>Date of report</td>
<td>31.12.2017</td>
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### Supporting documents:

Report
LETchain Blockchain Pilot Phase Description

Abstract
This document aims to describe the pilot phase to test the reception and functionality of the LET token in a real world environment with testimonials. For a description of terms used in this document consult «LETchain Blockchain Technical Architecture Blueprint».

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Description of test phase

After a successful deployment of the LET token on a local test-net the last phase of the project will be initiated by distributing LET tokens to testimonials on the Ethereum main-net. This pilot phase will conclude the proof-of-concept and feedback from testimonials will provide additional information for a decision on how to continue the project.

There will be six testimonials with different professional and tech know-how background. The diversification of testimonials helps to receive differentiated feedback. Here’s an anonymized description of the testimonials

Testimonial I
Gender male
Age 42
IT knowledge1 2
Branch financial services

Testimonial II
Gender female
Age 29
IT knowledge 2
Branch industry

Testimonial III
Gender male
Age 38
IT knowledge 5
Branch IT

1 1 = poor, 5 = advanced
Testimonial IV
Gender  male
Age  45
IT knowledge  3
Branch  NGO

Testimonial V
Gender  male
Age  42
IT knowledge  2
Branch  graphic design

Testimonial VI (vendor)
Tbd

With these participants and the Blockchain Büro in the role of the admin (as described in the Blockchain blueprint) it will be possible to simulate the whole process: A small amount of money will be allocated to the participants in form of LET tokens which can be spent at the participating vendor. The participants will use desktop and mobile-Wallets to find out more about the usability of both.

Fig. 1: Desktop Wallet with LET token

Fig. 2: Mobile Wallet with LET token
Deployment of the LET token on the main-net

After several pre-tests on a local test-net, Version 0.1a of the LET token has been deployed on the main-net. This means, the smart contract is ready to be interacted with over the Ethereum Blockchain. Users of the pilot phase will be able to receive and send tokens by executing functions on the contract described in the blockchain blueprint. The contract address is 0x22d5296A47b9585B71Cdb8be92841F3ea37dd2dd.

Fig. 3: Snapshot of deployment transaction Source: etherscan.io

Tests

During the pilot phase several scenarios will be tested by executing the following functions from the deployed contract.

Transfer
Intended outcome: Tokens and fractions thereof can be transferred between the issuer (admin) and the participants.

Mint
Intended outcome: New tokens can be minted by the admin.

Burn
Intended outcome: Tokens can be permanently removed (destroyed) from a given address (Testimonial or token issuer).
Freeze

Intended outcome: A given account can be marked as frozen. Calling the frozen event (s. Blockchain Blueprint) reveals the address of a frozen account.

Output

Successfully being able to execute the described functions will define a positive outcome of the test. Furthermore, an interview with the participating testimonials will give hints about the convenience of handling the token and the willingness to use such an incentivize system. With the described setup it should be possible to run an analysis on how well the system works in a near real world environment.

Next steps

The participants of the pilot phase have been selected, for all but the vendor. Next, those will be gathered on the Slack platform to coordinate the tests. After this, every participant receives information about how to install their wallet (mobile or desktop) and eventually the simulation can start.