PROJECT SUMMARY

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PROJECT   **Extended Data Pipeline Concept for the Circular Economy Transition in the Netherlands**

Project acronym and number:	DATAPIPE — 101094495

Summary

The DATAPIPE project aims to help the Customs Administration of the Netherlands and the Ministry of Infrastructure and Water Management of the Netherlands to be better equipped to meet their responsibilities in the context of the circular economy. The project will deliver a diagnostic problem analysis report, blueprint for piloting, and recommendations.

Context

The Green Deal, the Circular Economy Action Plan, and national policies and objectives aim to retain value of products, reduce the use of primary materials and eliminate waste. Monitoring the practical implementation of circular economy policies and instruments will be challenging and when borders are crossed customs will continue to play a key role. Traceability of product and their material composition is of key importance for trade to enable recovery of high-quality secondary materials and to allow companies to show compliance. Achieving such traceability is very hard, as information is held by multiple actors in in complex supply chains.

Support delivered

DATAPIPE will build upon earlier innovation projects (ITAIDE, CASSANDRA, CORE, PROFILE) that led to the development and large-scale piloting with the "data pipeline" concept- a digital innovation that allows data sharing among supply chain partners and allows customs to reuse business data from the source (provided on voluntary basis) for government control purposes. DATAPIPE will develop the extended data pipeline concept for digitization and monitoring of the circular economy. The key deliverables of the project include: (1) a problem analysis report; (2) a comprehensive concept analysis and blueprint for piloting; (3) recommendations and follow-up plan.

Results achieved

The expected result is that DATAPIPE will develop the extended data pipeline concept for the digitization and monitoring of the circular economy, which next to goods and logistics data will enable sharing of data on material composition and production processes. This will be done in the context of the automotive industry, by applying and extending the Digital Transport and Logistics Forum (DTLF) semantic model. The concepts can be subsequently applied to other industries. The results will lay the foundation for follow-up piloting. DATAPIPE has a EU added value and entails sharing of results and collaboration with other Member States.

EU funding statement

PARTICIPANTS

Participants

The beneficiaries for this project are:

1. Delft University of Technology (TU Delft)- project coordinator
2. Netherlands Institute of Applied Scientific Research (TNO)- project partner

RESULTS AND ACHIEVEMENTS

Results and achievements

The main expected result is that the data pipeline concept will be extended (in the context of the automotive industry) and the benefits will be conceptually analysed and made explicit, with possible further extension and application to other industries in the future.

VISUALS

Visuals

DATAPIPE CONCEPT