



# **LTO NETWORK**

## **System Integrator Presentation**



# Collaborating on multi-stakeholder processes

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When we collaborate on processes that run outside of our own organization we communicate like we are still in the 00's



And this produces unstructured data which is very hard to automate

# 'The Silo Problem'

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Every organization processes the data into their own systems and databases, creating data silos.

Data silos are the top barrier for organizations to reach the next level of efficiency when collaborating on repetitive processes.

## DATA-SHARING MATURITY

% of respondents who say their organization is very effective at data and intelligence sharing at various levels of the enterprise.

Sharing within executive or management groups

43%

Sharing within small employee teams

26%

Sharing within functional groups or business units

29%

Sharing within the larger enterprise

21%

Sharing with their key vendors/suppliers

15%

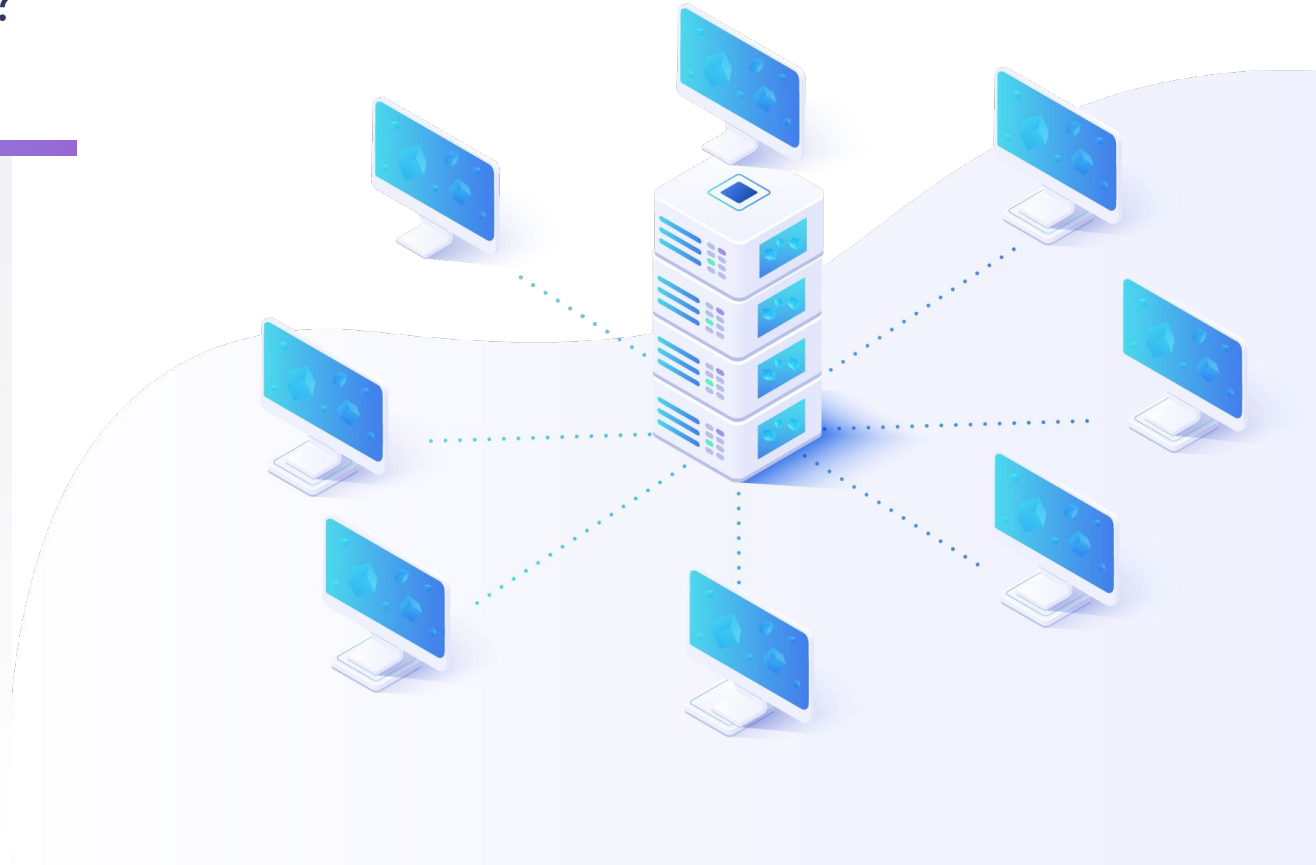
Sharing with their digital ecosystem partners outside their industry

14%

SOURCE: HARVARD BUSINESS REVIEW ANALYTIC SERVICES SURVEY, AUGUST 2018

So, why not use one  
central system?

...because  
**trust**  
outweighs  
*efficiency*

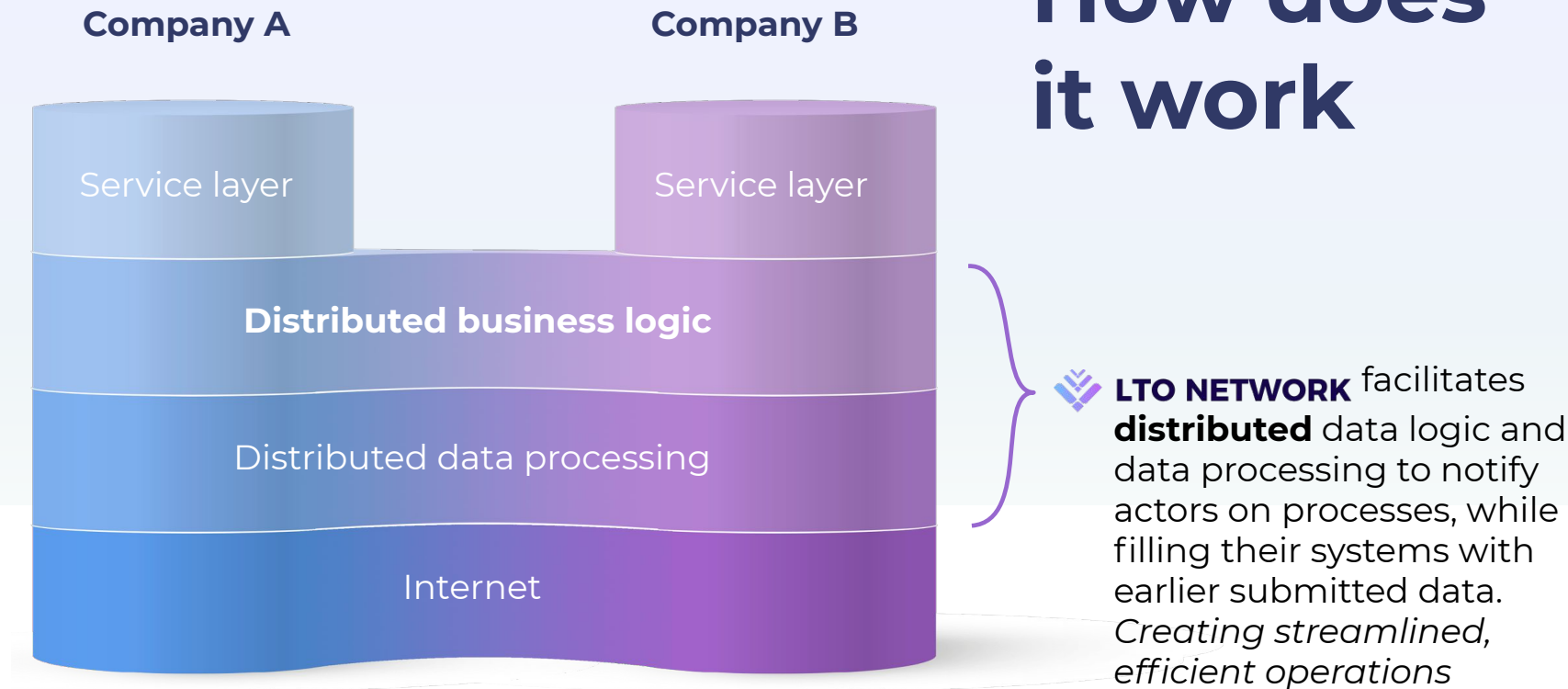


# Then along came blockchain

LTO Network took this approach for unlocking a **new level of efficiency** through distributed business logic and data processing.

Facilitating immutable, trustless, verifiable, collaboration.

# How does it work



Entity system A

Data

Business process

Contract

Protocol

Contract

Business process

Data

Entity system B

LIVE CONTRACTS ON BLOCKCHAIN

# Enabling trustless collaboration

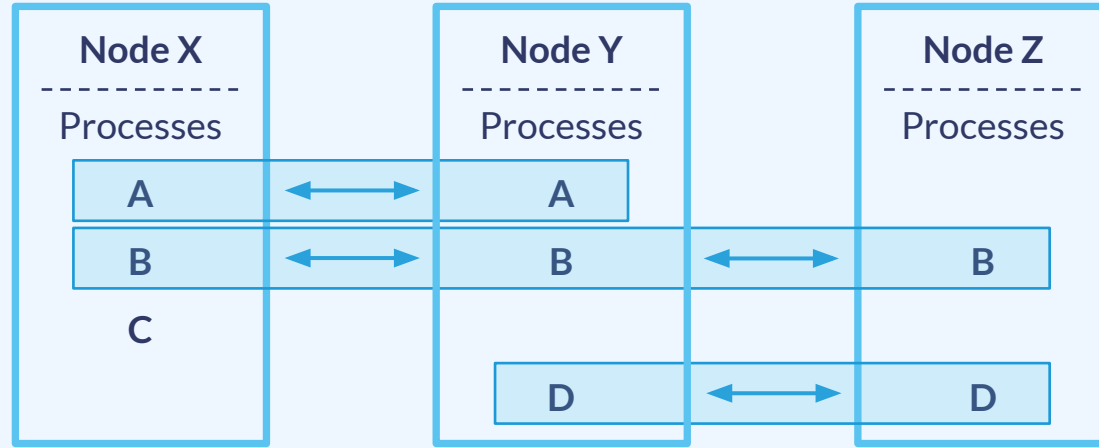


**All parties involved can benefit from data re-use, real time updates on processes and automated compliance without having to rely on one party managing the system**

**The processes that run in our hybrid blockchain are only visible for the parties involved.**

**Private layer**

Communication of private data only visible for involved participants and apply on a single processes.



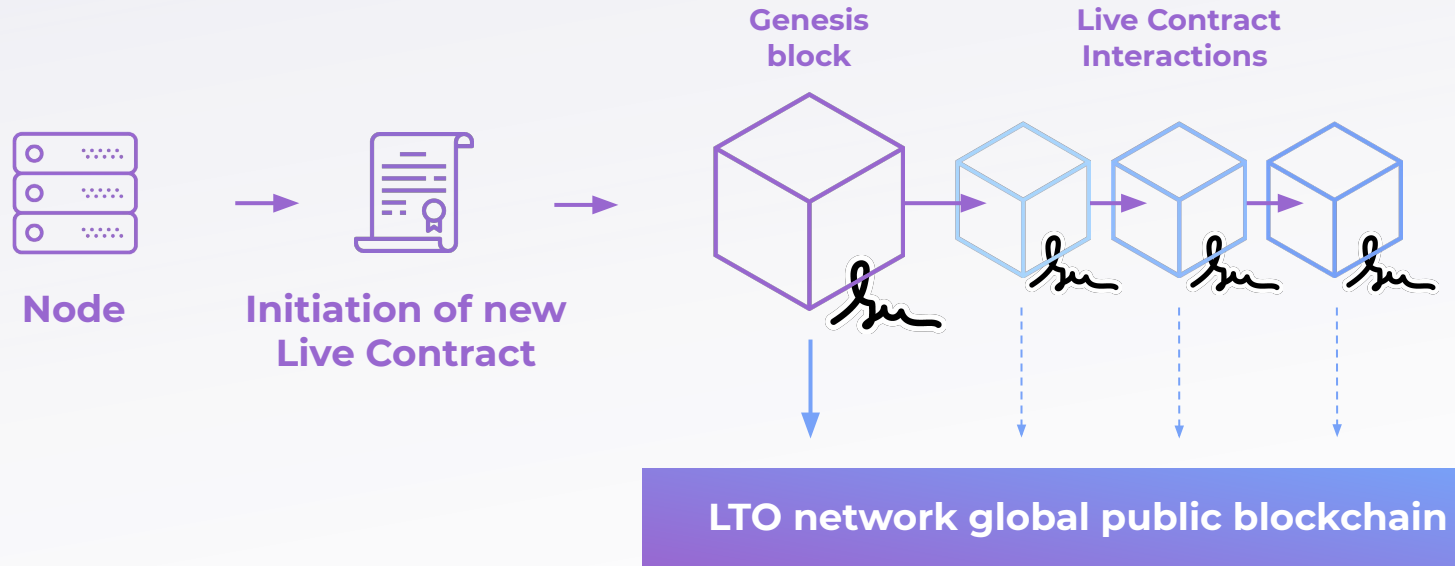
**Public layer**

Data is hashed on the public chain for data integrity purposes





**LTO network global public blockchain**



# Every event creates a new block on the private chain, which is anchored on the LTO Network public blockchain



# Enterprise fabric comparison

Fabric	Security	Throughput	Setup Cost	Integration difficulty
	<b>LTO Network public chain (PoS)</b>	<b>Infinitely horizontally scalable</b>	<b>\$</b>	<b>Very low</b>
	Trusted third party (notary)	170 TPS	\$\$\$	Medium
 <b>HYPERLEDGER</b>	Endorsement (PoA)	2000+ TPS	\$\$\$	Hard
	Endorsement (PoA)	100 TPS	\$\$	Medium

# 8 Reasons Why integrators should use **LTO Network**



## **Interoperability**

You want an instant transaction receipt

## **GDPR compliant**

Encrypted & hashed proof of data

## **Easy to integrate**

Your systems are linked in minutes

## **Demo portal**

Get your white label demo portal

## **Smart connectors**

Precooked integrations with SAP etc.

## **Open source**

Get started with building instantly

## **Costs**

The most cost efficient solution

## **Enterprise Node**

Integrator reseller license model

# Use case

## Transfrontier Waste Transports in the EU



Inspectie Leefomgeving en Transport  
Ministerie van Infrastructuur en Waterstaat



SAMEN MAKEN WE  
MORGEN MOOIER

**OVAM**



# Use case overview

## Short description:

To reduce the supervision costs related to European waste transportation, the Ministry wanted to combine blockchain technology with existing IT-systems. This way the inspection authorities can automate a significant portion of their tasks. This frees up knowledge and expertise for other important tasks that cannot be performed without human assistance (yet).

## Objectives:

The PoC is meant to demonstrate that blockchain technology can be used to create efficiency and transparency within the cross-border waste transportation process in the EU. Besides, it is meant to reduce the supervision costs related to European waste transportation.

## Blockchain Attributes:

- Permit requests are checked, verified and accepted through an artificial intelligence expert machine.
- Scales connected through the Internet-of-Things communicate weight to the process and the permit.
- Permit data is shared with all stakeholders and determines the next tasks in the process on the blockchain.

# Use case overview

## Predicted outcome

Applying blockchain technology will enable all government bodies and companies to get real-time verification of each step in the process. The project will be supported by two major waste recycling companies, the Dutch waste authority and the Flemish waste authority. The project will be applied to waste transports between The Netherlands and Flanders.

## Stakeholders:



## Press:

- [ComputerWeekly.com](https://www.computerweekly.com)
- [Sociable.co](https://www.sociable.co)

# Transfrontier Waste Transports in the EU: Bringing value by streamlining transportations in multiple jurisdictions

## EU-pilot for 1.000 waste transports between Netherlands and Belgium

€14,-

Cost savings  
per transport

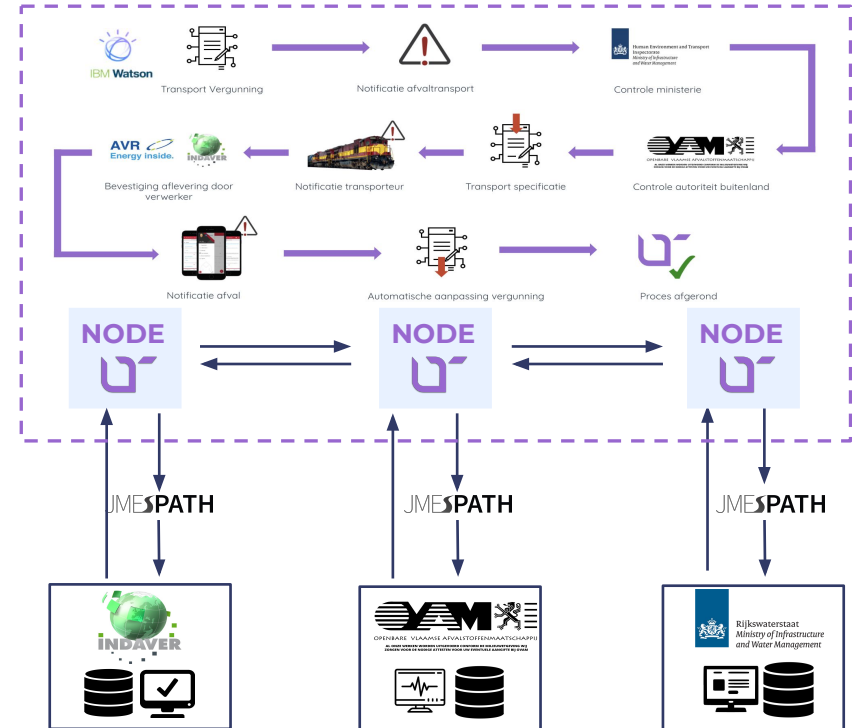
€7.000.000

Total cost  
savings

(based on all 500.000 transports, calculations by Ministry of ILT)



**Sustainable:** Eliminated **all unnecessary paperwork** in the document-heavy process!







Video impression of the  
waste transport solution



# Clients using LTO Network



**AXVECO**

**Morgan Lewis**



# Executive team



**Rick Schmitz**  
CEO

Tax Lawyer, Ex-PWC and Co-founder of LTO Network. Member of ISO committee on blockchain standardization.



**Martijn Migchelsen**  
CFO

Economist, Ex-PwC and Co-founder of LTO Network.



**Arnold Daniels**  
Software Architect

Significant open-source contributor and lead on ProActive (acquired by Visma in 2018) and Cloud9 IDE (acquired by AWS in 2016).



**Sven Stam**  
CTO

CTO of LTO Network. Artificial Intelligence and DevOps expert.



**Martijn Broersma**  
COO

Operations manager, responsible for LTO Networks daily operations for the past three years.



# LTO NETWORK

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