NWO, COMMIT2DATA AND TKI DINALOG STIMULATE THE REALIZATION OF AN
OPEN INFRASTRUCTURE FOR TRUSTED, MULTI-LATERAL DATA SHARING

WITH THE PROJECT
DATA LOGISTICS FOR LOGISTICS DATA (DL4LD)

Sharing Sensitive Data
Enforcing Data Sharing Agreements
Application of Law
Dispute Settling
The DL4LD project addresses the need for improved data sharing in the supply chain.

Market Dynamics are changing
• This requires sharing trustworthy data in the supply chain.

Digital business ecosystems and supply chains with logistics
Sharing of data between (potentially) distrusting parties
Open infrastructure for sharing trustworthy data

Requirements

Enabled by

Logistics
Applications & Processes
Other Sectors
Applications & Processes
Data Control, Access & Usage
Open Infrastructure for Trusted Data Sharing
Connectivity

Internet
DL4LD ENABLES THE TRUSTWORTHY SHARING OF SENSITIVE DATA ACROSS ORGANIZATIONS AND SECTORS

THE DL4LD PROJECT

Reference architecture:
• To share (logistics) data on a large scale
• That supports trust and is secure

Forward looking research aimed at:
• Enforcement of laws
• Rapid construction
THE DL4LD PROJECT DEMONSTRATES THE CONCEPTS FOR TRUSTED DATA SHARING IN AN OPEN INFRASTRUCTURE

Towards a reference architecture for sharing trustworthy data
- Trust enabling functions are implemented on an open infrastructure

Must have trust enabling functions
- Terms of Use, Legal and Commercial Conditions
- Access & Usage Policies
- Clearing, Settlement & Billing
- Monitoring, Logging, Auditing

Realized by
- Enforced Data Sharing Agreements
- Data and Processing at the Source
- Open through Standardization of Connectors
- Certification and Attestation

An open infrastructure for trustworthy data sharing

Defined in
- Ecosystem, open to participate and supported by (trusted) roles
The DL4LD project builds upon IDS concepts:

- It demonstrates how the IDS trust enabling concepts support an open infrastructure for trustworthy data sharing.
- It assesses its applicability and interoperability across sectors and organizations.
- Supported by TKI Dinalog, the Dutch Institute for Advanced Logistics.

See: [www.internationaldataspaces.org](http://www.internationaldataspaces.org)
IDS CONSISTS OF

A REFERENCE ARCHITECTURE AND

IMPLEMENTATION SUPPORTED BY A STRONG COMMUNITY

DL4LD co-operates with organizations that develop, promote and deploy IDS

- DL4LD disseminates the IDS data-sharing concepts to logistic business ecosystems

IDS Association (IDSA)
- Governance of a reference architecture
- Develop the standards for the IDS
- Initiate national hubs, e.g. The Netherlands (TNO)

The IDS reference architecture
- Blueprint for the data space
- Trust through data sovereignty
- Data at the source Peer-to-peer, no data lake

A reference architecture International Data Space (IDS)

www.internationaldataspaces.org
IN ADDITION, DL4LD’S FORWARD LOOKING RESEARCH EXPLORES:

EFFECTIVE DEPLOYMENT OF DIGITAL BUSINESS ECOSYSTEMS

Simplified creation of business ecosystem via governed Digital Market Places
- Data sharing agreements with the market place instead of with every member
- Enforcing legal compliance

Governed business ecosystems
Governance imposed by automatic enforcing of digital contracts

Trusted organizations and governance
- to settle disputes
- to ensure legality of transactions
- to determine trustworthiness of organization
- to allow access to digital ecosystem

require

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