SUPPLY CHAIN PROTOCOL

Automatisation and new business logics for the Supply Chain

05.06.2018 // Automotive Summit / Kathleen Olstedt / Lei Liu / Florian Seffert

Speakers

Kathleen Olstedt

+D (Supply Chain Protocol)

Business & Collaboration lead with former positions at Daimler, Axel Springer, IBB Ventures, IoT-European Platforms Initiative

Florian Seffert

Imperial Logistics International

IT & Logistic executive; Head of Innovation at Imperial Logistics International and former position at Panasonic

Lei Liu

Microsoft Deutschland

Digital Transformation Advisor and Enterprise Architect; Expert digital Strategy and Innovation for Automotive

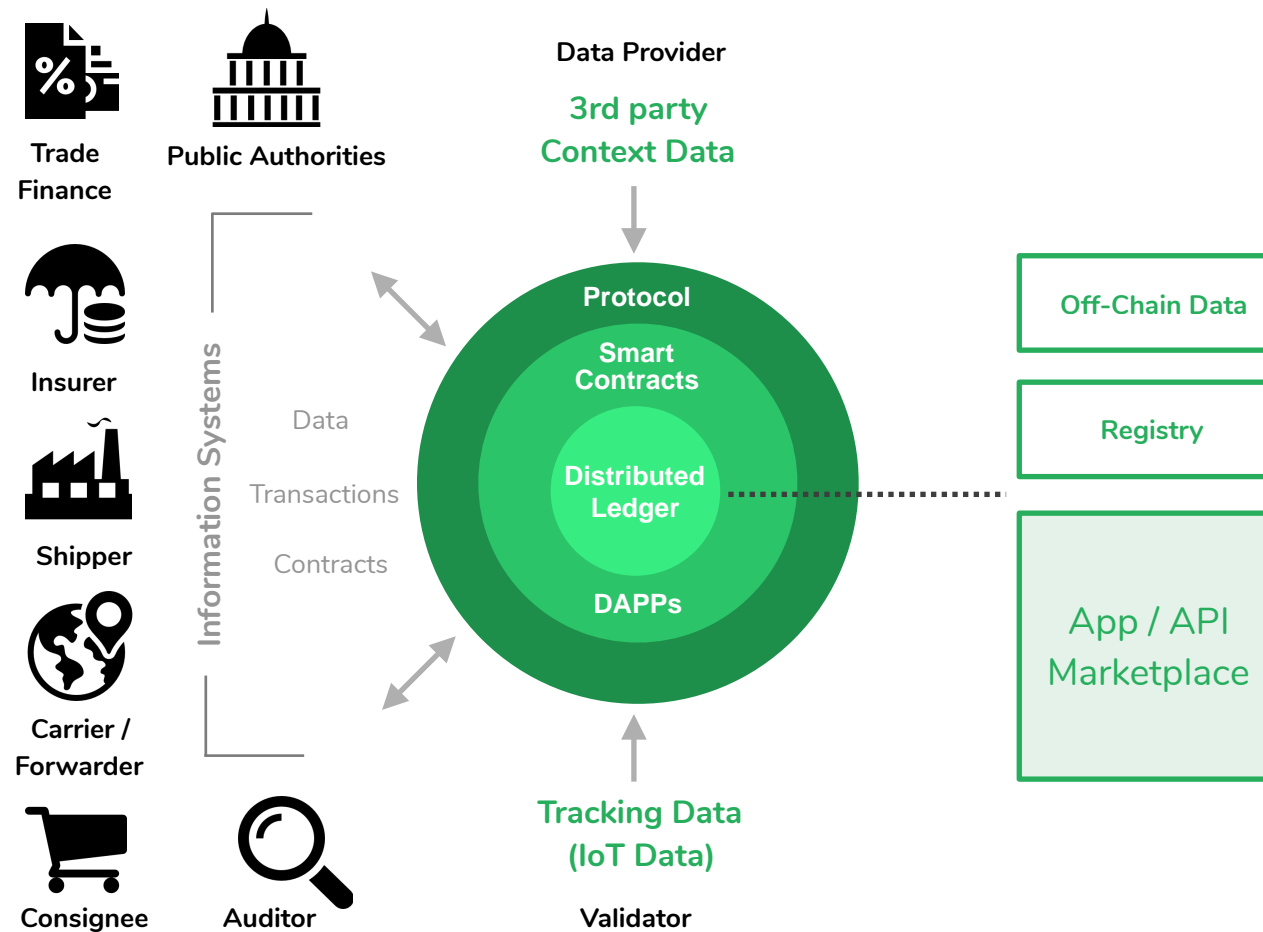# Manual Contracting leads to major Inefficiencies

- Manual document handling causes **long payment periods** and **high error rates**, such as wrong invoicing

- Manual claims investigation causes **high labour costs**

- **Missing links** between datasets and assets/processes lead to **limited transparency** causing higher **risk of fraud** and **unusable optimisation potential**

- **Data silos hinder synergies** amongst different protagonists

€280*
Saving Potential
Container/Trip

€80*
Saving Potential
Trailer/Trip
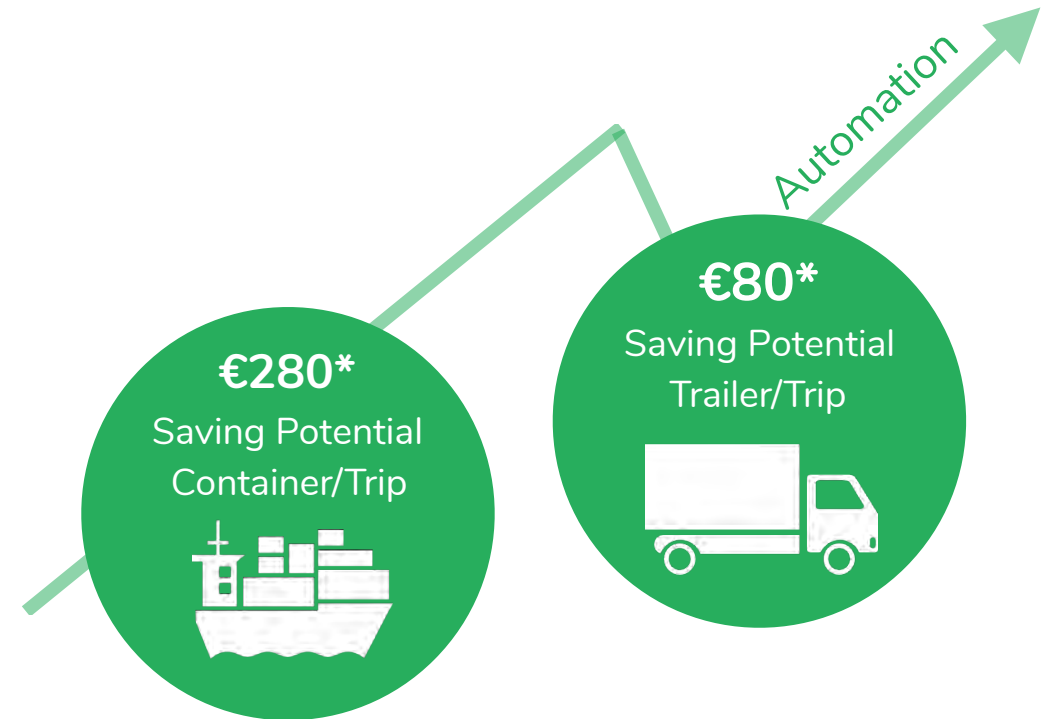
Automation

Contract Automation is key!

*study Marine Transport International & own calculations

Automated contracting with +D

Trade Finance

Public Authorities

Insurer

Shipper

Carrier / Forwarder

Consignee

Auditor

Information Systems

Data

Transactions

Contracts

Data Provider

3rd party Context Data

Protocol

Smart Contracts

Distributed Ledger

DAPPs

Tracking Data (IoT Data)

Validator

Off-Chain Data

Registry
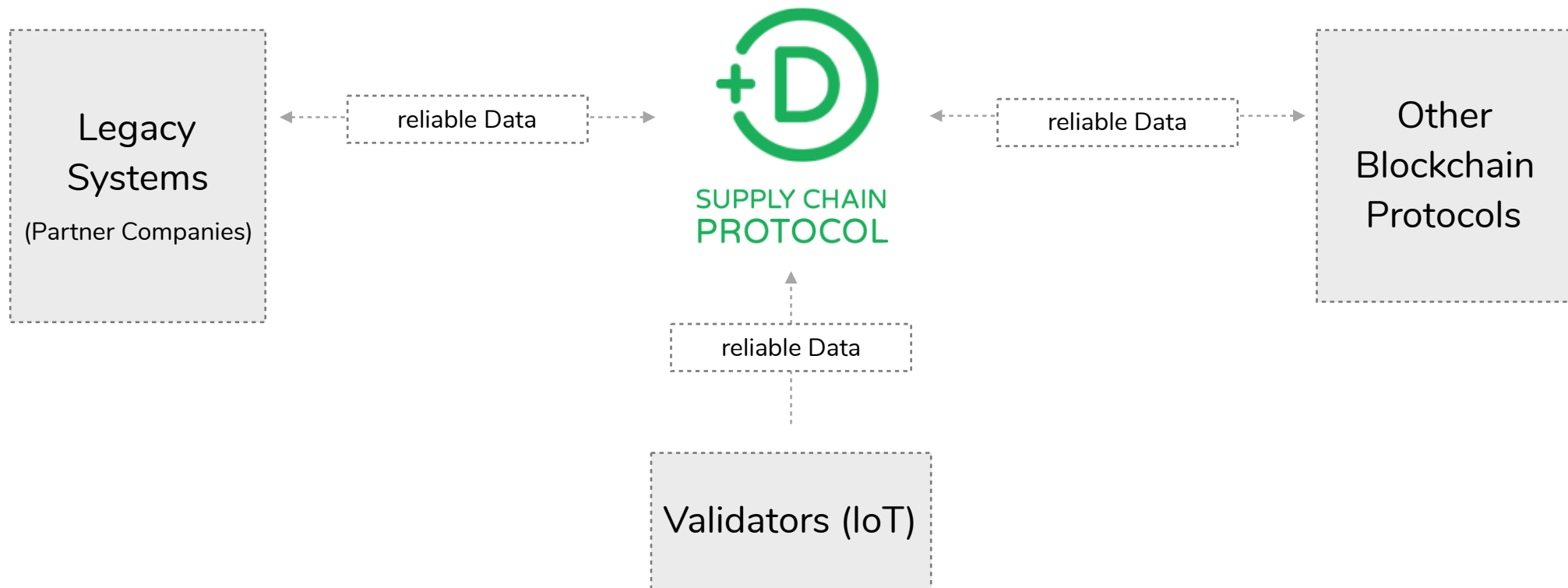
App / API Marketplace

+D is an **Open platform** powered by an open source transaction **protocol** for the logistics industry

Blockchain based decentralised applications (e.g. Insurance policy) can integrate external services via oracles
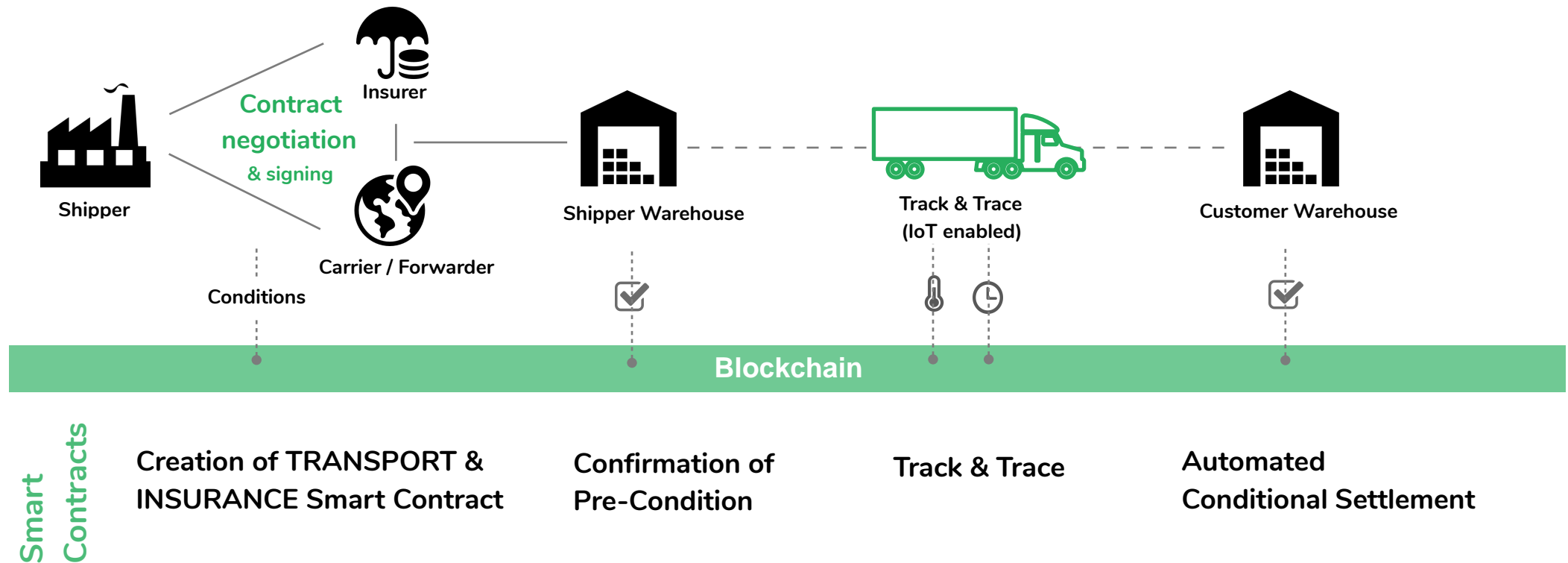
Open Marketplace gives access to ready-to-use applications and APIs

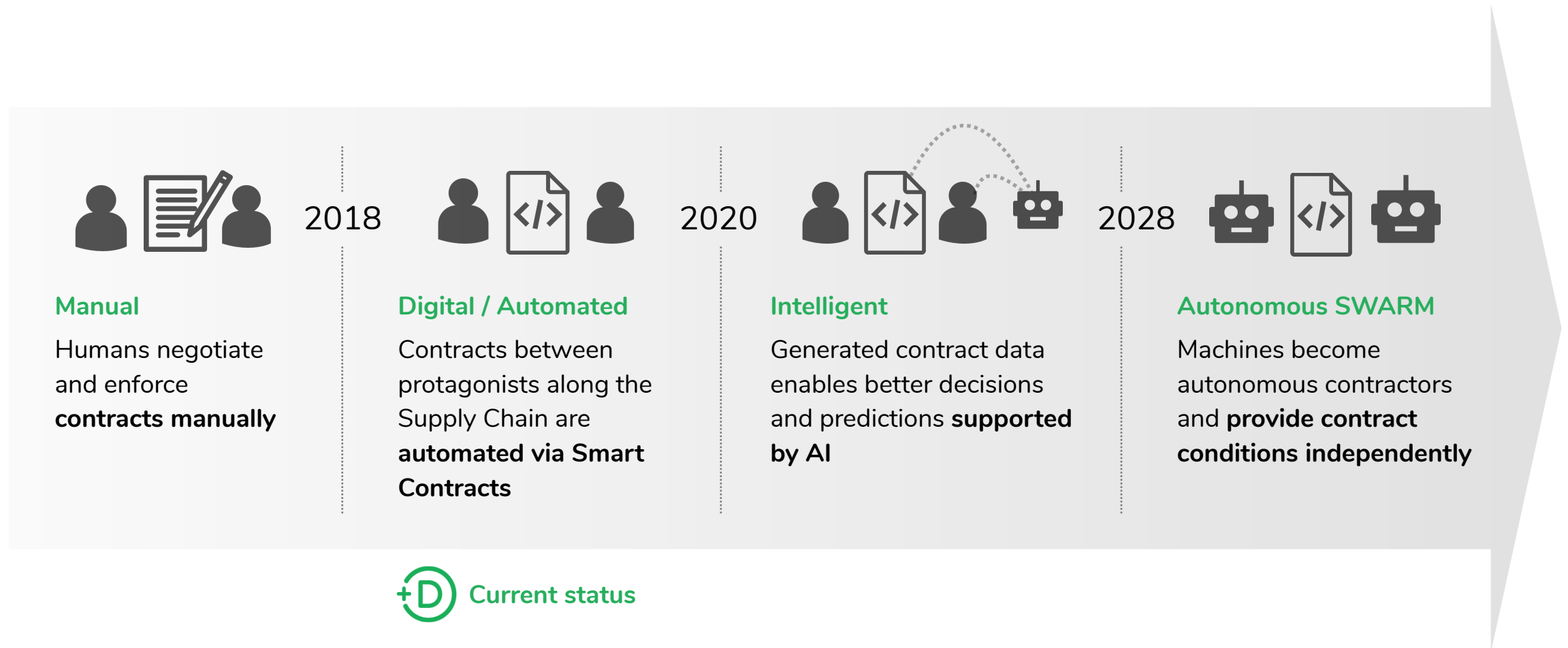# Data Reliability & Interoperability are our strong suits

- Only **reliable Data** can confirm the status of the contract requirements and therefore validate legally binding Smart contracts!

- Only **Interoperability** with existing legacy systems and other Blockchain protocols ensures seamless and secure ecosystem building!

Example Use Case for +D Protocol

Contract negotiation & signing

Insurer

Shipper

Carrier / Forwarder

Conditions

Shipper Warehouse

Track & Trace (IoT enabled)

Customer Warehouse

Blockchain

Smart Contracts

Creation of TRANSPORT & INSURANCE Smart Contract

Confirmation of Pre-Condition

Track & Trace

Automated Conditional Settlement

Automated contracting enables SWARM logistics

2018   **2020**   **2028**

Manual

Humans negotiate and enforce **contracts manually**

Digital / Automated

Contracts between protagonists along the Supply Chain are **automated via Smart Contracts**

Intelligent

Generated contract data enables better decisions and predictions **supported by AI**

Autonomous SWARM

Machines become autonomous contractors and **provide contract conditions independently**

+D Current status

+D Participation Models

	Core Members	Active Users	Passive Users
Shaping consortium governance	●		
Onboarding own company ecosystem	●	●	
Passive usage of infrastructure	●	●	●
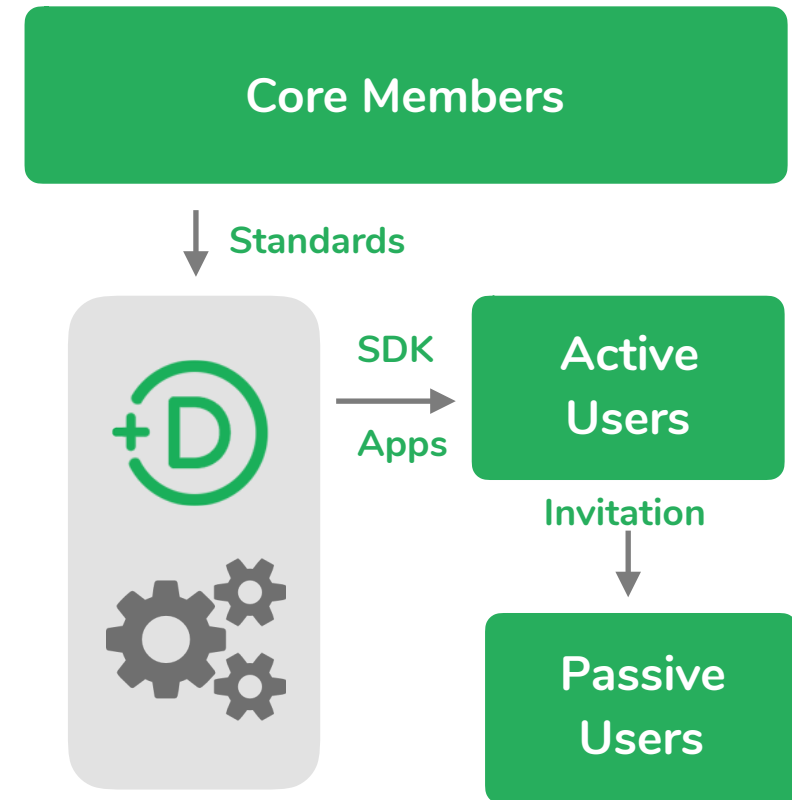
Status Quo // +D Pilot

Digitalisation of the process flow & modular automation of 2 contractual relations
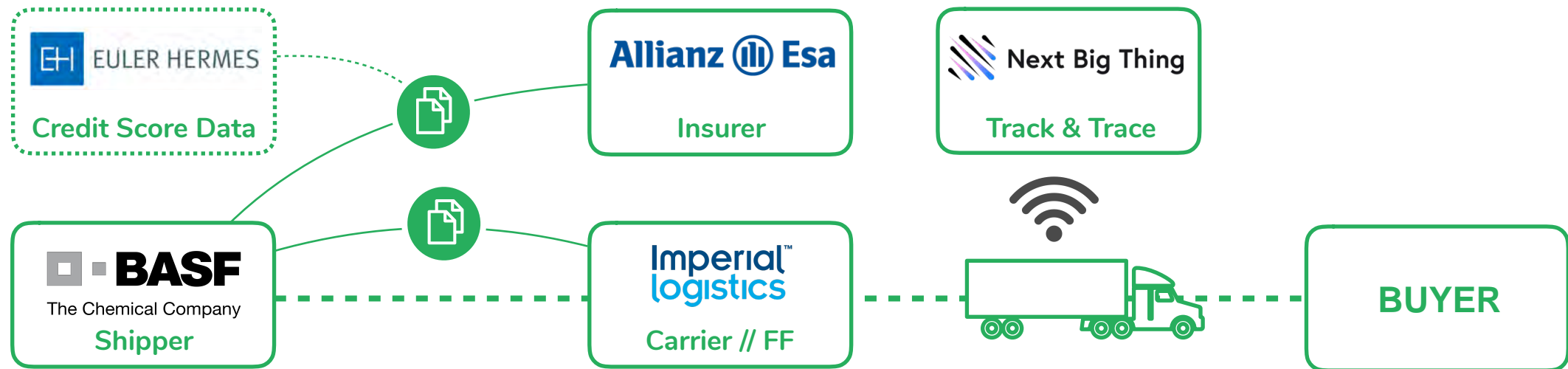
+D Founding Member Imperial

Why +D?

Efficiency and new business opportunities via common Supply Chain Protocol

Why becoming a core member?

- Close collaboration with most innovative market participants
- Hands-on information and active involvement in shaping the direction of the Supply Chain Protocol
- Adjustment of the +D protocol to the company's needs
- Early adoption of automation potential > Identifying low hanging fruits for fast deployment
- Securing new revenue streams via +D Apps and API marketplace
- Building the company's development ecosystem (Community Building)

Building an end-to-end blockchain app is a huge undertaking

Microsoft

Why challenging?

- Blockchain ledgers designed for public networks not for enterprises
- Smart contracts demand bespoke development & new skills
- Integration with existing IT difficult and costly

>> High trial-cost for blockchain pilots

How Microsoft helps?

- DLT/Blockchain agonistic solution for building blockchain apps
- Populating modular and preconfigured templates and infrastructure on Azure
- Enabling prebuilt connections to Azure and the tools you are familiar with
- Building simple interfaces for deploying services and authoring smart contracts

>> Focus on adding value for your business

Contact

Kathleen Olstedt

kathleen@plusdecentral.org

+49 179 2314 074

Florian Seffert

florian@plusdecentral.org

+49 176 15 26 90 15

www.plusdecentral.org