SmartLog Pilot 1: BLOCKCHAIN **Taking Logistics** to 4.0







European Union European Regional Development Fund

SmartLog blockchain logistics platform live testing in Port of Tallinn

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Shared ledger technology

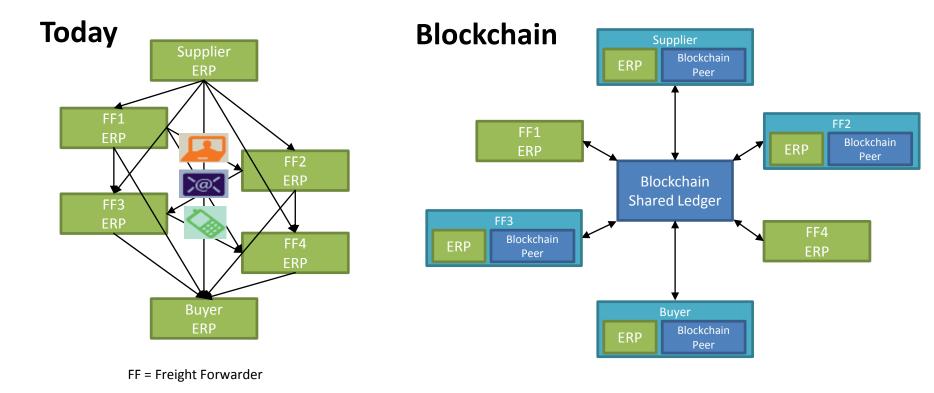
Introducing Blockchain

What?

A shared ledger technology allowing any participant in the business network to see THE system of record (ledger)



Comparison between solutions





Broader participation, lower cost, increased efficiency

Three different blockchain frameworks

- R3 Corda <u>https://www.corda.net/</u>
- Ethereum https://ethereum.org/
- Hyperledger Fabric <u>https://www.hyperledger.org/</u>

R3 Corda

- Specialized platform for the financial services industry.
- Takes the highly regulated environment into account by augmenting smart contracts with legal prose.
- No own currency.

Ethereum

- Independent of any specific field of application.
- Not modular, but a generic platform for all kinds of transactions and applications.
- Own currency- Ether. Tokens via smart contracts.

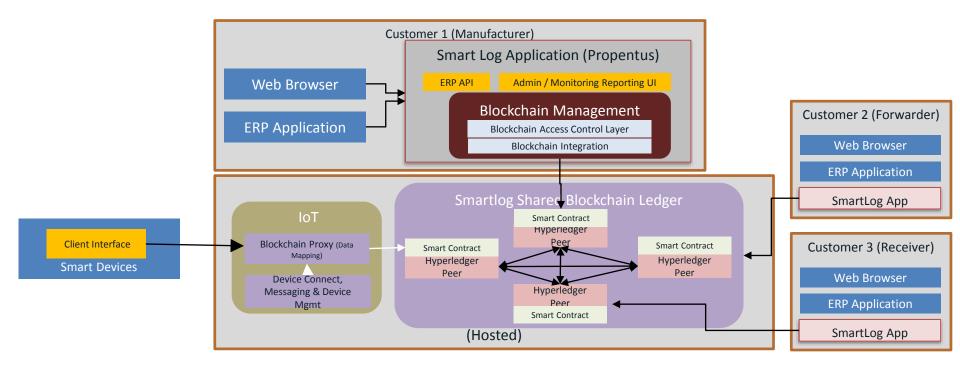
Hyperledger Fabric

- Modular and extendable architecture that can be employed in various industries.
- A versatile toolbox. Can be customized to a multitude of applications.
- No own currency.

SmartLog PoC Project

- Project SmartLog is about introducing a blockchain technology application into the logistics business operational data transfer traffic – not just as a commercial, proprietary application suite, but rather as an industry-wide open solution to which every interested and involved party can join and from which every involved party can directly benefit from.
- SmartLog blockchain shared ledger platform is based on the Hyperledger Fabric.
- https://smartlog.kinno.fi/solution/

SmartLog Hyperledger Fabric based Architecture



SmartLog Pilot1 Participants

- 1. A Port
- 2. A Container Terminal
- 3. An Ocean Shipping Line
- 4. Container Trucking Companies
- 5. Shippers
- 6. Customs Brokers
- 7. Customs

SmartLog Pilot1 in the Port of Tallinn

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You are welcome to contact SmartLog!

Thank you for the attention!

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