

agenda

- company and services
- authenticated Digital Originals
- two use cases
- Q&A



our mission

- with the help of technology, support a world where truth can prevail
- offer innovative solutions to ensure consistency, integrity and traceability of digital information in time, as well as protecting it from manipulation
- create independent proof that cannot be manipulated showing what happened, when and in what order
- all the above by delivering trusted e-services, compliant with the eIDAS regulation



enigio time

- innovation driven company founded in Stockholm 2012
- tech-competence: System development, Cryptography, Distributed Ledger Technology (DLT), e-Archive
- trade-competence: Bank & Finance, Medical, Archives, Musicindustry
- proprietary solutions and services developed on DLT based technology (blockchain and linked schemes)
- approved Swedish patents and 3 World PCT patent applications approved. Two new Swedish patents filed.
- active as collaborators in the global research project InterPARES
 Trust



our offerings



offerings

- digital Notary Service
- long term Preservation
- digital Original one and only one
- advisory services within the area



digital notary service

an independent and indisputable IT solution to prove:

- what happened
- when did it happen
- in what order did it happen

e.g. cloud integrity, record integrity, IoT, log files, prove Copyright, secure photos, film, etc ...

 Enigio's solutions do not expire in time like PKI and other certificate based trust-services



long term preservation

- SaaS (or Product)
 - preparation for e-Archive (migration to long term preservation formats)
 - closing down of old business systems and saving data
 - securing data from manipulation
 - easy to export to other e-Archive system



authenticated digital originals



the issue

 further digitalization of loan origination, creating digital promissory notes and other documentation for the mortgage market

(Authenticated originals are required in at least one step in the lending process in most European countries)

- Trade Finance documentation for Letters of Credit
- > eIDAS provides legal support
- Distributed Ledger Technology (DLT) is a key enabler



legal framework for promissory notes (northern Europe)

- the legal term "original" defined negatively in the legislation addressing counterfeit and fraud
- the law defines requirements of an original, not its medium
 - the law is technology neutral
 - no need for a physical medium, such as paper, pergament or cow-hide for that matter
 - promissory notes must be issued in one and only one single original to be legally enforceable in the Nordics and many other countries

our mission in creating digital bearer instruments was to:

- define a mechanism to separate an original from a copy
- ensure that the original instrument can be transferable



requirements

- a digital document counterfeit safe
- with certainty distinguish the single original document from a copy
- document content can be kept confidential
- the original should be able to be stored by the holder or in custody of his or her choice
- ownership of originals should be transferred safely

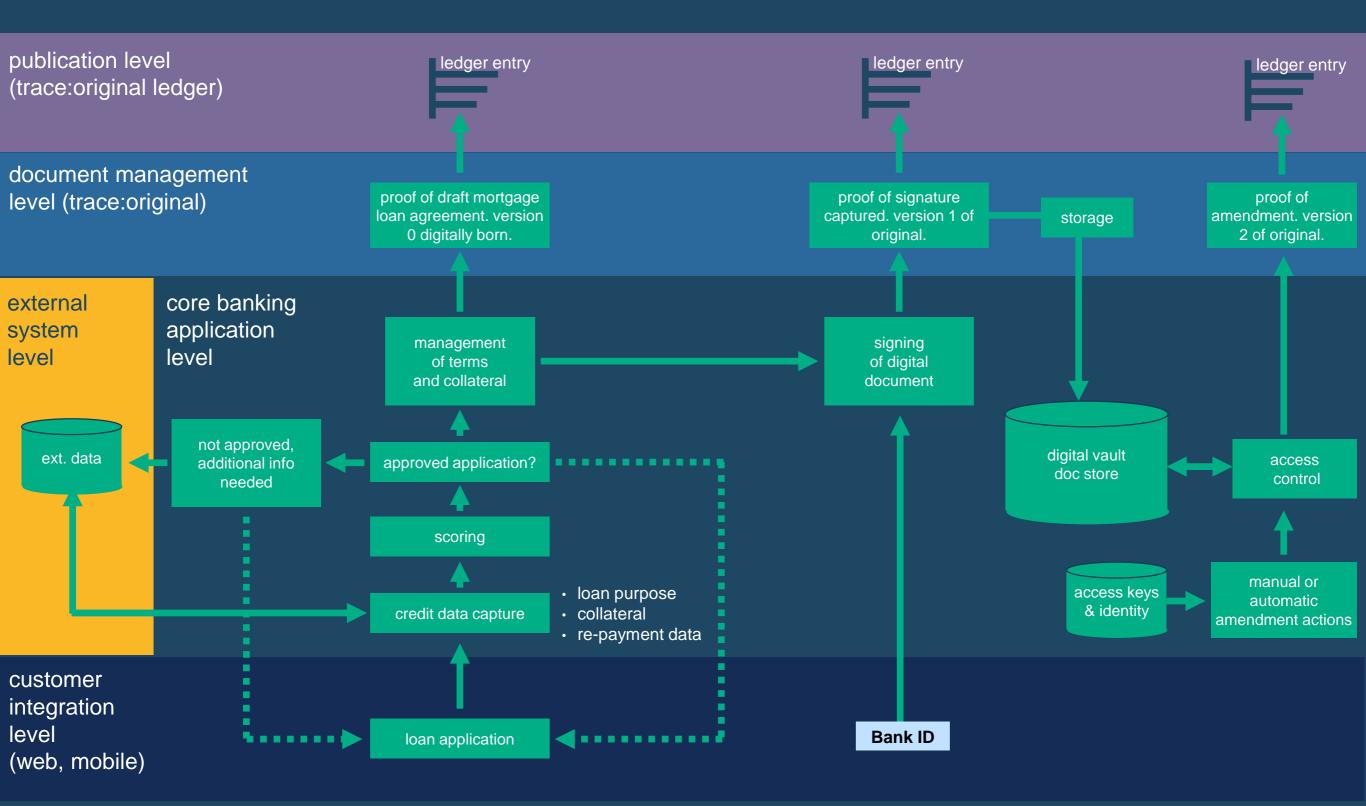


features

using trace:original you are able to:

- create a digital original one and only one
- maintain content confidentiality (stored by holder)
- prove ownership of a digital original
- amend data to a digital original
- create and distribute copies of a digital original that will be identified and authenticated as a copy of the original and not the actual original
- transfer ownership of a digital original
- invalidate a digital original
- and more...







benefits

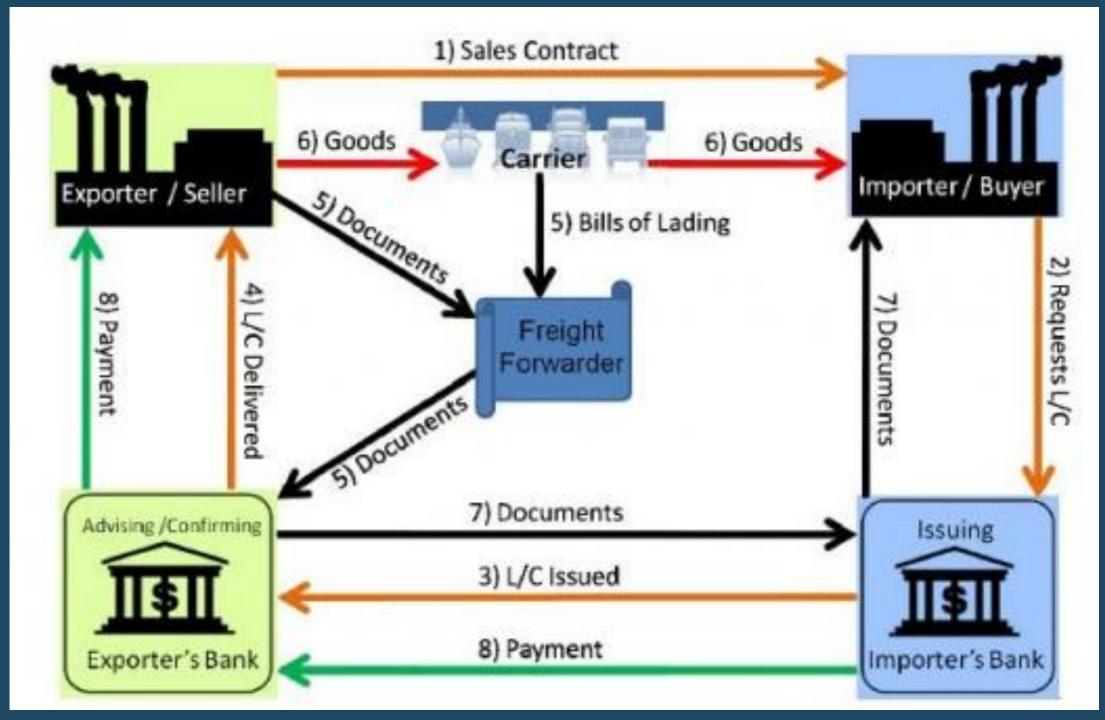
- a banks cost of handling physical loan deeds can be reduced by 80 – 90 %
- enables a full loan origination process through the internet bank
- environmental eliminates paper in the process
- simplifies GDPR compliance
- creates better consumer protection through an incorruptible audit trail (https://youtu.be/hxUAntt1z2c)



trade finance



letters of credit – flow chart





current handling of L/Cs

- a slow paper based process could significantly be mitigated through digitalization
- often dependent on courier services to speed up the process (Thousands of tons of paper constantly in orbit with FedEx, DHL and others)
- forgery is a significant risk in many regions
 - e.g. Bills of Lading are issued in three original documents to: the bank, the transporter and the importer. These are originals and all "bearer instruments"

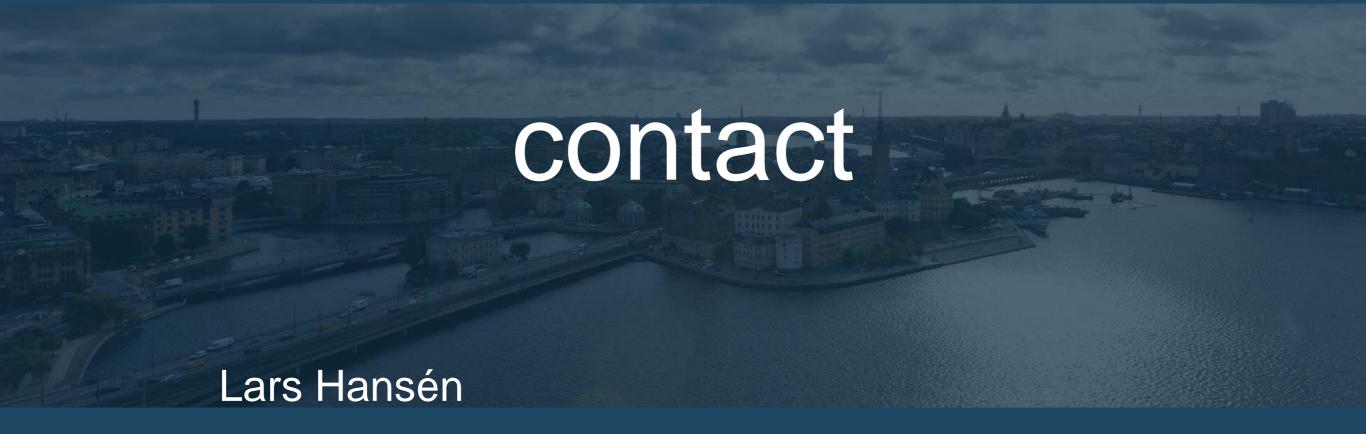


benefits compared to paper

- document fraud will be eliminated (except in cases of digital ID theft)
- the issuing process will be shortened by several days
- environmental effects:
 - thousands of tons of paper in air freight and land transport will be eliminated
 - the use of paper is eliminated
- cost of managing L/C documentation lowered by hundreds of Euros per L/C



trace:original will revolutionalise digitalization of record handling that requires an original document in the traditional sense where a central repository is not used



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