



BLOCKCHAIN & TRACEABILITY IN THE TEXTILE FIELD





Co-funded by Horizon 2020 Framework Programme of the European Union NIMBLE Consortium Copyright 2018



Agenda

- 1. Blockchain & Traceability
- 2. Nimble platform
- 3. Case History– Piacenza Cashmere





Blockchain & Traceability in textile field

In the present, fast evolving textile and clothing market, actions to answer unpredictable demand must be taken very quickly and require high level of diffused collaboration.

"Millennials are driving companies to sustainable practices ... New generations demand for <u>sustainable</u> products and a visible and transparent value chain: from "sheep to shop", something that <u>blockchain</u> is already enabling."

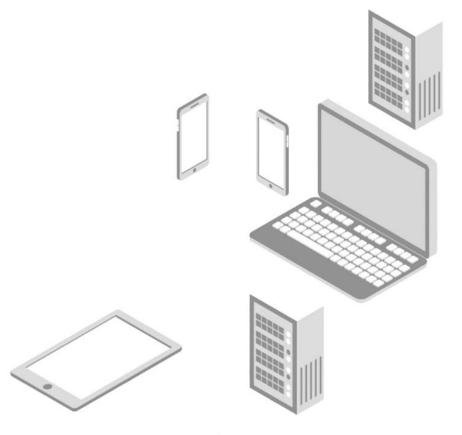






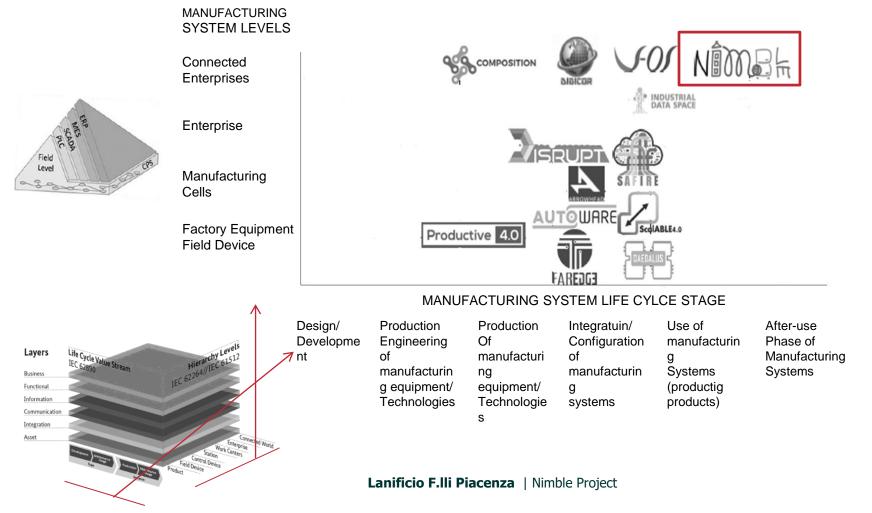
THE SOLUTION - DESCRIPTION

NIMBLE developed the software infrastructure for B2B platforms specifically designed for European manufacturing SMEs and service providers to help them grow.





THE SOLUTION POSITIONING (FOF-11-2016 PROJECTS)





KEY FEATURES

LIKE A MANUFACTURER

- register my company in one platform installation
- publish my products and services
- search for a product and service
- make requests for products and services
- negotiate terms and place orders
- manage contracts
- arrange and manage transportation and logistics
- link my data sources (IoT)

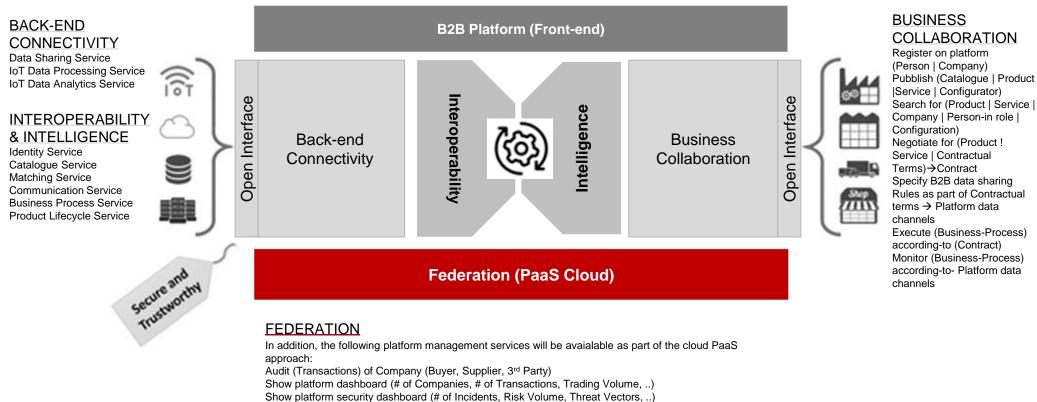
LIKE A MANUFACTURING B2B SERVICE PROVIDER / INTERMEDIARY

- deploy a NIMBLE platform installation
- custom / extend my platform installation
- run my platform installation to serve my customers/segment
- obtain analytics about platform operations



B2B PLATFORM FRONT-END

Graphical user interface services Request dispatching to underlying services



Manage user feedback (all user-facing functions should provide usability statistics and a back-channel to the development team)

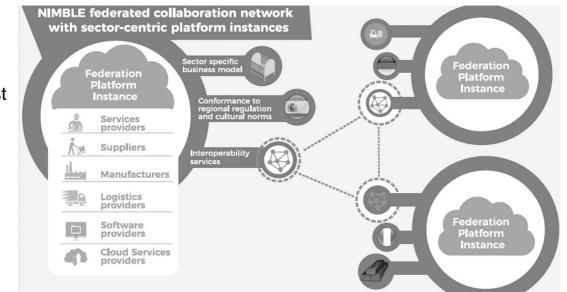


KEY FEATURES

FEDERATED

NIMBLE supports bottom-up, scalable growth. Federated platform providers give different sectors or regions a platform instance. Platform instances link via semantic interoperability services

LIGHTWEIGHT No need for SMEs to install software Fast onboarding Focus on supporting core business activities

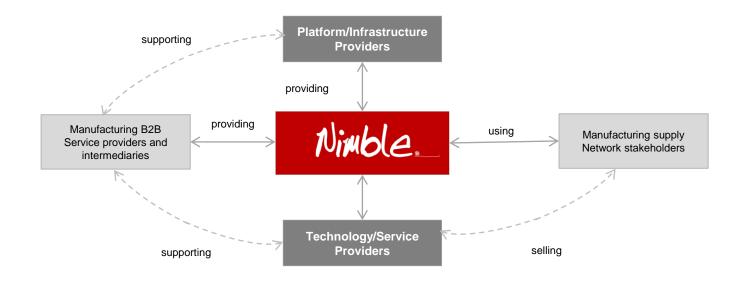


TRUSTWORTHY

NIMBLE implements novel reputation and trust assessment mechanisms and it ensures high level security standards for data access and control



KEY FEATURES



MULTI-SIDED

- Participating companies can optimize business workflows, breaking traditional supply chain pipelines.
- Optional added-value business functions can be provided by third parties

OPEN

- Core services are open source (Apache 2.0)
- Comprehensive API set to extend core services with specific plug-ins and added value tools



INSTANCES "ALIVE" OR PLANNED

Demo-System: https://nimble-platform.salzburgresearch.at

INSTANTIATIONS

- Live: NIMBLE Furniture Manufacturing P/F
- Live: Experimental eFactory instance
- Under testing: eco-houses platform Sweden
- Under testing: NIMBLE Textile & White Goods





Piacenza Cashmere – Case History





CHALLENGE

- Country: Italy
- Manufacturing Company: Piacenza
- Involved partners: Domina, ENEA
- Services + Textile CAD tool + IoT and Blockchain technologies



- Foster agility and value-creation, enabling environments for business collaboration
- Traceability of all production actions in the supply chain
- Provide updated data and accurate forecasts of machinery and product availability
- Information redirection/filtering in order to convey information to the right person at the right time



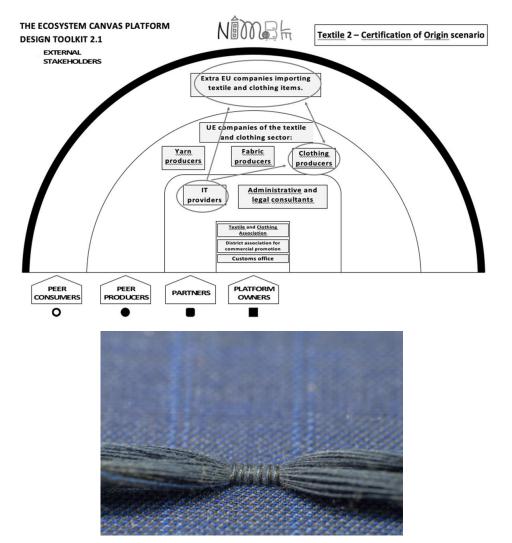
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BUSINESS IMPACT - BENEFITS

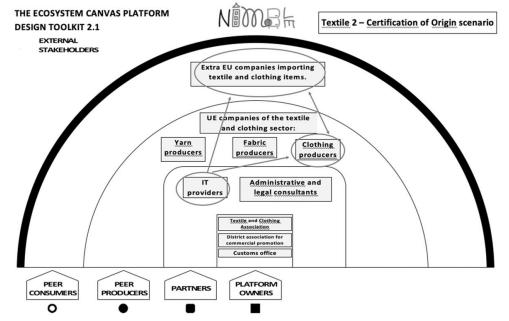
- Gain visibility in the sector
- Connect supply chain organizations
- Creating more offer variety, thanks to the standard language that makes everybody equal.
- Widen the range of suppliers and customers



Piacenza Cashmere - Case History

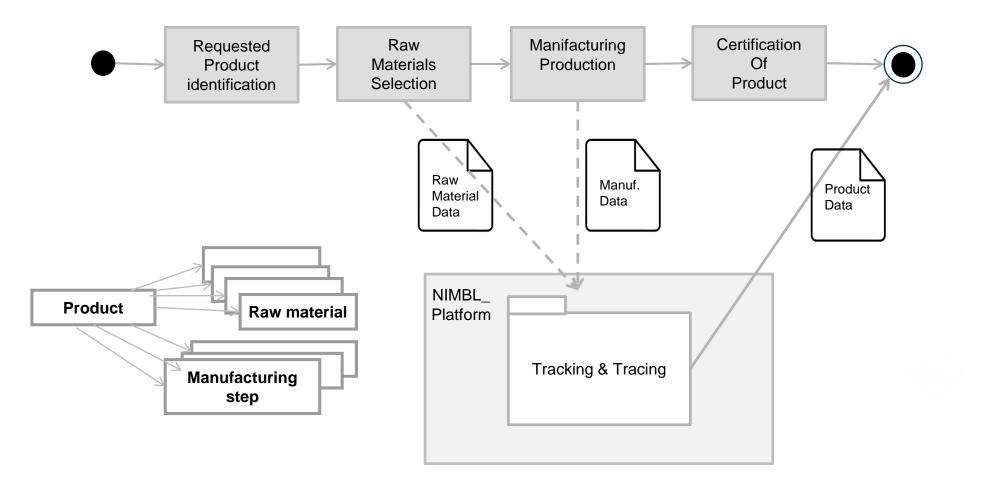








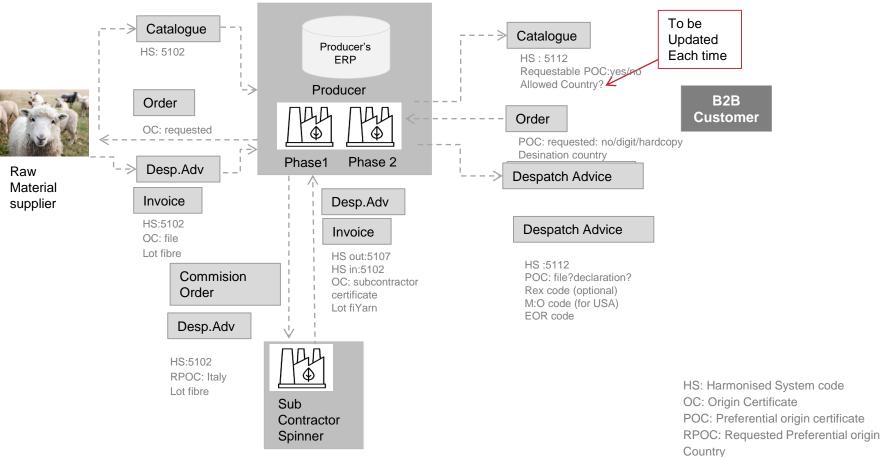
Piacenza Cashmere – Case History





Piacenza Cashmere – Case History

BLOCKCHAIN FOR TRACEABILITY



Lanificio F.lli Piacenza | Nimble Project

Country LOT: Lot identification



CONSORTIUM PARTNERS

