

Based on the Working Paper 'Building Blocks of a Green FinTech System', www.ssrn.com/abstract=4163002 (with Dr. Anker-Sørensen)

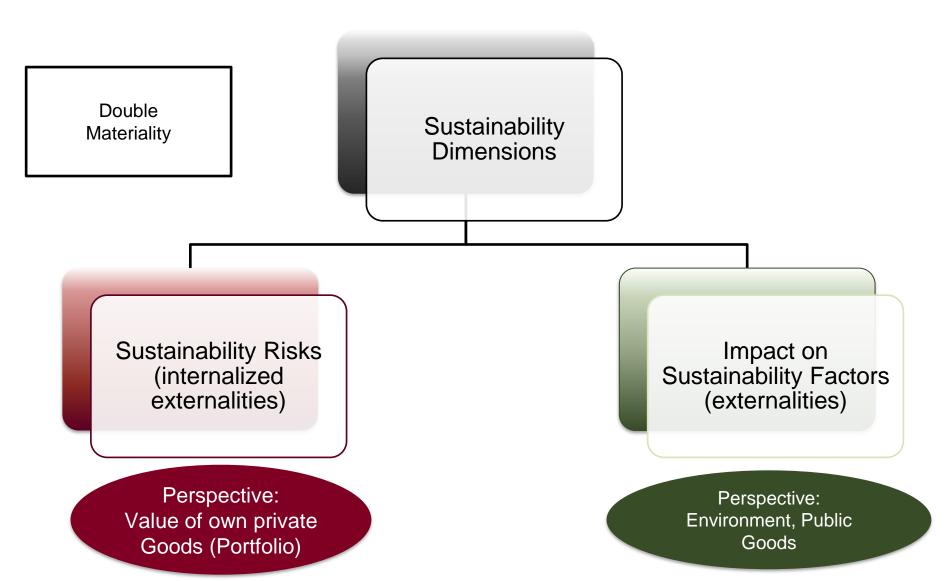


- Sustainability Risks & Impacts as Source of Disruption
- Enhancing relevance of Law (so far (-))
- Green FinTech & DLT as Solution
- What can law do to Sustainable Supply Chain Solutions?

Double Materiality: Sustainability Risks & Impacts

☐ FACULTY OF LAW, ECONOMICS AND FINANCE





Sustainability Impacts on Supply Chain

☐ FACULTY OF LAW, ECONOMICS AND FINANCE



Risk	Impact on Supply Chain	Risk Management
Rising sea level, more severe storms	Unreliable transportation	More stock, "make" > "buy", but: supply of raw ingrediants?
Droughts: Shortage of water supply for farmland and population	Unreliable production	Irrigation systems; new wells; desalination OR more stock, "make" > "buy" (s.a.)
Social crisis, political instability	Coup d'etat, Strikes => unreliable production and transportation	Reallocation of production OR More stock, "make" > "buy" (s.a.)
Health crisis (Covid)	Unreliable transportation	More stock, "make" > "buy"

All RM measures capital intense => Consumer prices? Competitiveness? Supply of raw ingredients=

Overview

12 FACULTY OF LAW, FRONDMICS AND FINANCE



- § 1 Introduction (+)
- § 2 Core Issues of Sustainable Finance
- § 3 How can FinTech assist in addressing these issues
- § 4 How law can support Green FinTech
- § 5 Conclusion: Building Blocks of a Green FinTech System

§ 2 - Core Issues of Sustainable Finance

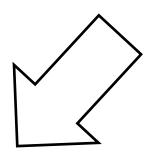
1.7 FACULTY OF LAW, FEONOMICS AND FINANCE

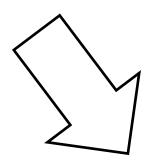


Information asymmetry:

Who delivers truly on the Green promise?

Oversupply of Capital seeking Green cash-flows





Enhanced Agency Conflicts

(Greenwashing, variance of issuer-paid Sustainability Ratings etc)

Asset Price Bubble

§ 2 - Regulatory Response to Core Issues

12 FACULTY OF LAW, FRONOMICS AND FINANCE



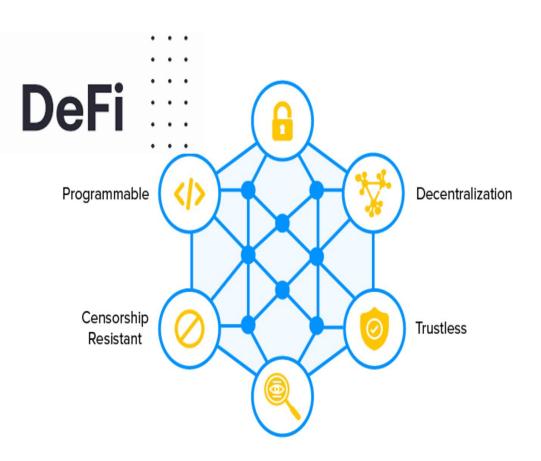
- Develop Uniform Standards
- Enhanced Disclosures
- Prudential Requirements
- Better Oversight: Rating Agencies, Indices, Audits
- Towards 'double materiality'
- ⇒ Enforcement ⇔ Agency Conflicts
- ⇒ No Word on FinTech

§ 3 - How can FinTech assist in addressing these issues?

CO FACULTY OF LAW, FRONDMICS AND FINANCE



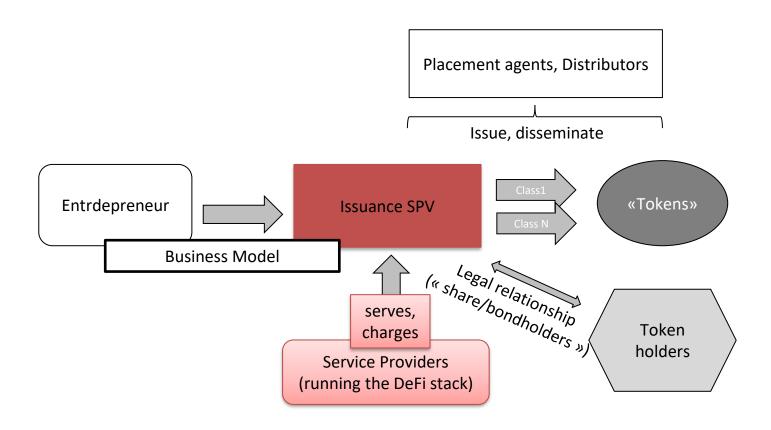
- What is FinTech?
 - A Algorithms
 - B BigData
 - C Cloud
 - D Distributed Ledgers (with Blockchain&Smart Contracts)
 - ⇒ General trend: decentralized finance, disintermediation



§ 3 - Tokenized Assets







§ 3 - Bundling Cash-flow and Sustainabilty Data

12 FACULTY OF LAW, FRONDMICS AND FINANCE

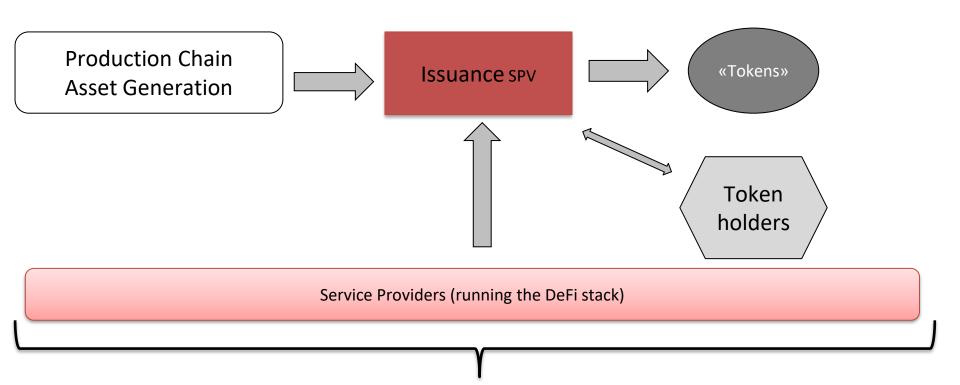


- FinTech: automatization of all issuance elements
 - Disintermediation
 - Immutability
- Inseparable link [cash-flow + sustainability data]
 - Less information intermediation
 - Reliability of 'ultimate data provider' essential
 - ⇒ Disintermedation

§ 3 - Sustainability Certificate of Origin

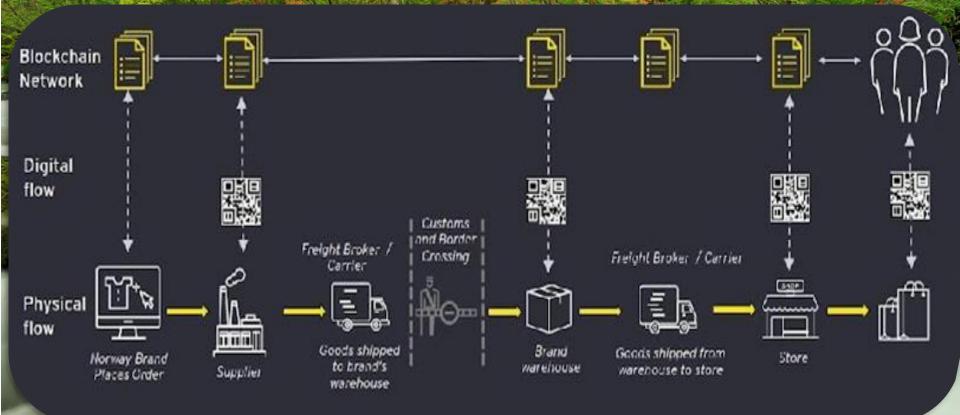
12 FACULTY OF LAW, FRONDMICS AND FINANCE





Token = stored data: cashflow + sustainability

Norwegian Fashion-Hub Sustainability Chain



Sustainable raw material production

Measurement of CO2 emissions and other parameters real time

Increased security and reliable verified data

Complete clothing cycle history



- Uniform categories of sustainability risks + factors (taxonomy)
- ⇒Sectorial to comprehensive
- Enabling approach to data transmission
- Accountability and liability of the 'data originator'

§ 5 – Building a Digital Sustainable Finance

12 FACULTY OF LAW, FRONDMICS AND FINANCE



- Tokenization => FT disintermediation
 - Inseparable link sustainability data ⇔ asset
 - Data Straight-through-processing (STP)
- Potential effects
 - lesser intermediary and agency costs
 - facilitating suitability tests
 - limiting substitutability of cash: separating economy into Green/Brown
 - targeted subsidization (tax rebates, capital surcharges, etc.)
- Legal preconditions
 - Uniform Taxonomy (encodement via ISO standards)
 - Enabling approach to data STP
 - Reliable 'ultimate data providers': enforcement re asset + data

Please find our latest work at SSRN: www.ssrn.com/author=357808

12 FACULTY OF LAW, FRONOMICS AND FINANCE



Working Paper 'Building Blocks of a Green FinTech System', www.ssrn.com/abstract=4163002 (with Dr. Anker-Sørensen)



Thank you!

Prof. Dr. Dirk Zetzsche, LL.M.
ADA Chair in Financial Law / Inclusive Finance
Coordinator, House of Sustainable Governance & Markets
Faculty of Law, Economics & Finance
University of Luxembourg
Dirk.Zetzsche@uni.lu

www.ssrn.com/author=357808

Some readings on FinTech

FT4FI Roadmap

www.ssrn.com/abstract=3245287

TechFin / Data-driven Finance www.ssrn.com/abstract=2959925



Corporate Technologies (AI etc.) www.ssrn.com/abstract=3392321



Regulatory Sandboxes

www.ssrn.com/abstract=3018534



Regulating Libra www.ssrn.com/abstract =3414401



Future of Data-Driven Finance www.ssrn.com/abstract=3359399



Rise of Tech Risk www.ssrn.com/abstract=3478640



ICO Gold Rush www.ssrn.com/abstract=3072298



Distributed Ledgers / Blockchain www.ssrn.com/abstract=3018214



eID / KYC Utilities www.ssrn.com/abstract=3224115

