



FIN-TECH: creating standards for fintech risk management



This project has received funding from the European Union’s Horizon 2020 research and innovation program under grant agreement no. 825215 (topic ICT-35-2018, Type of action: CSA). The content reflects only the author's view and the Commission is not responsible for any use that may be made of the information it contains.

Motivation. Financial Technologies bring opportunities (competitive prices, improved user experience, wider inclusion) but also risks (credit risks, market risks, cyber risks), amplified by the interconnectedness of fintech platforms (systemic risks).

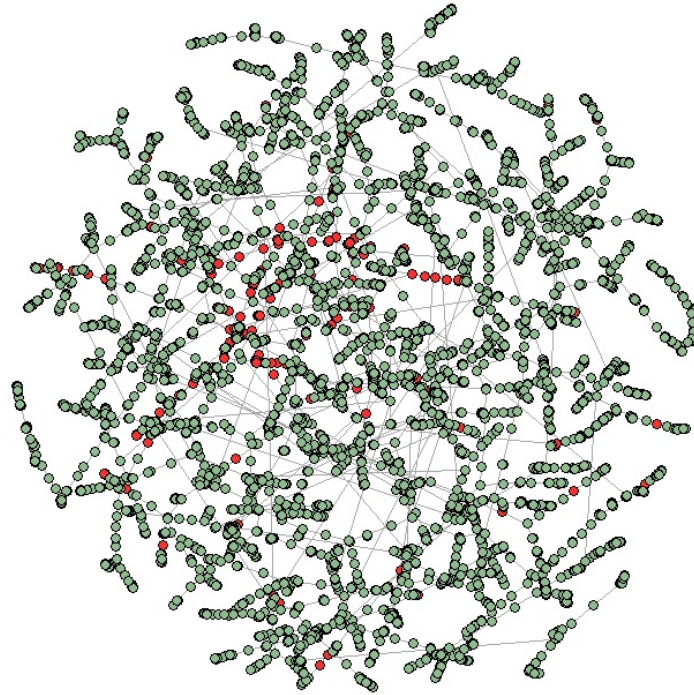
Aim. The Horizon2020 FIN-TECH project (2019-2021) aims at building fintech risk management standards, measuring risks to make fintech innovations sustainable.

Method. The aims are being achieved by: i) developing “benchmark” use cases in fintech risk management; ii) disseminating the use cases with researchers, regulators, supervisors, fintechs and banks.

What we do?

Sustainable payments: network models to improve p2p lending

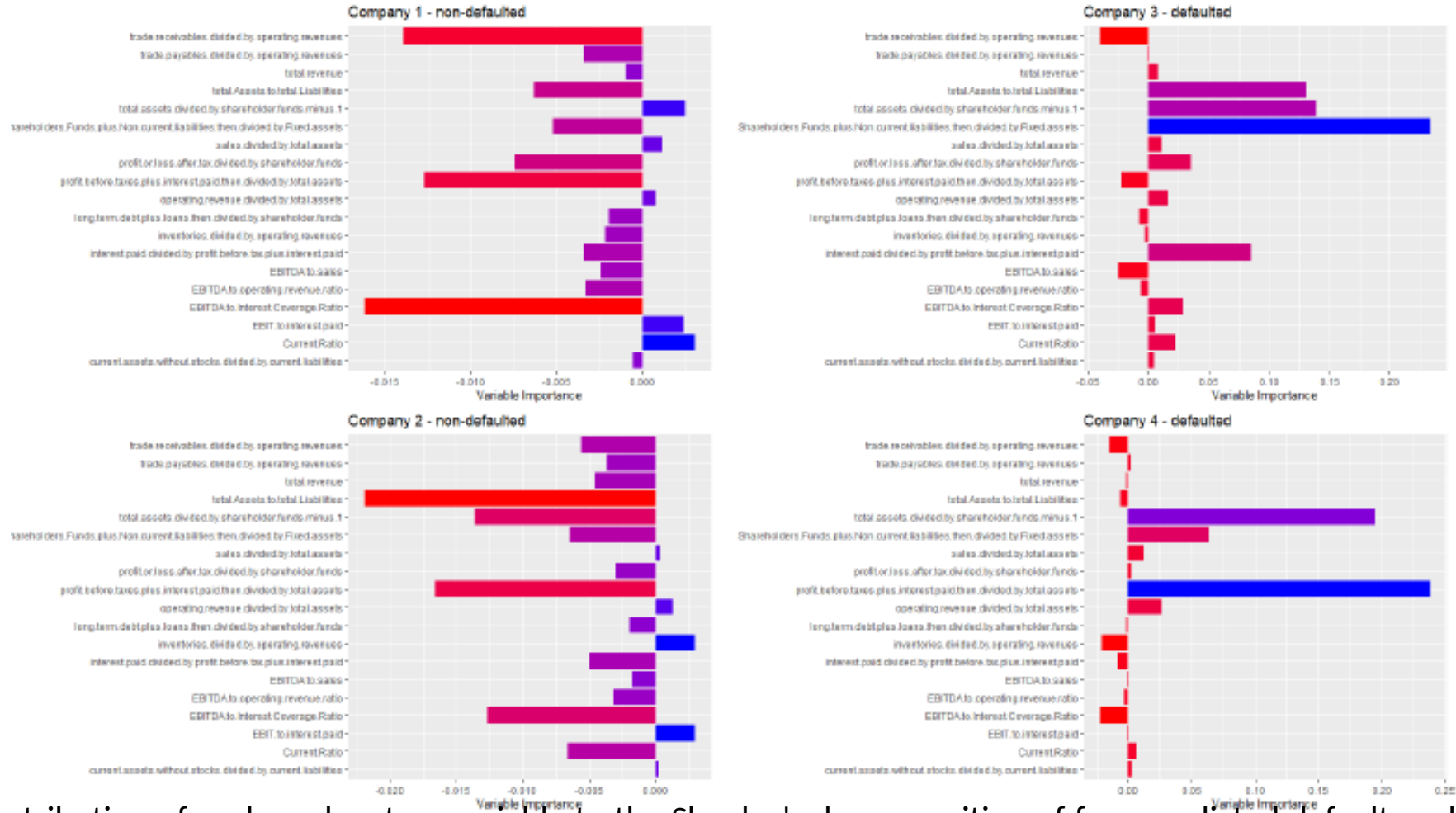
Branka Hadji Misheva
 Paolo Giudici
 Alessandro Spelta



Minimal spanning tree representation of the borrowing companies networks. The tree has been obtained by using the standardized Euclidean distance between institutions features. In the figure, nodes are coloured according to their financial soundness, red nodes represent defaulted institutions while green nodes are associated with active companies.

Sustainable lending: explainable AI in SME credit allocation

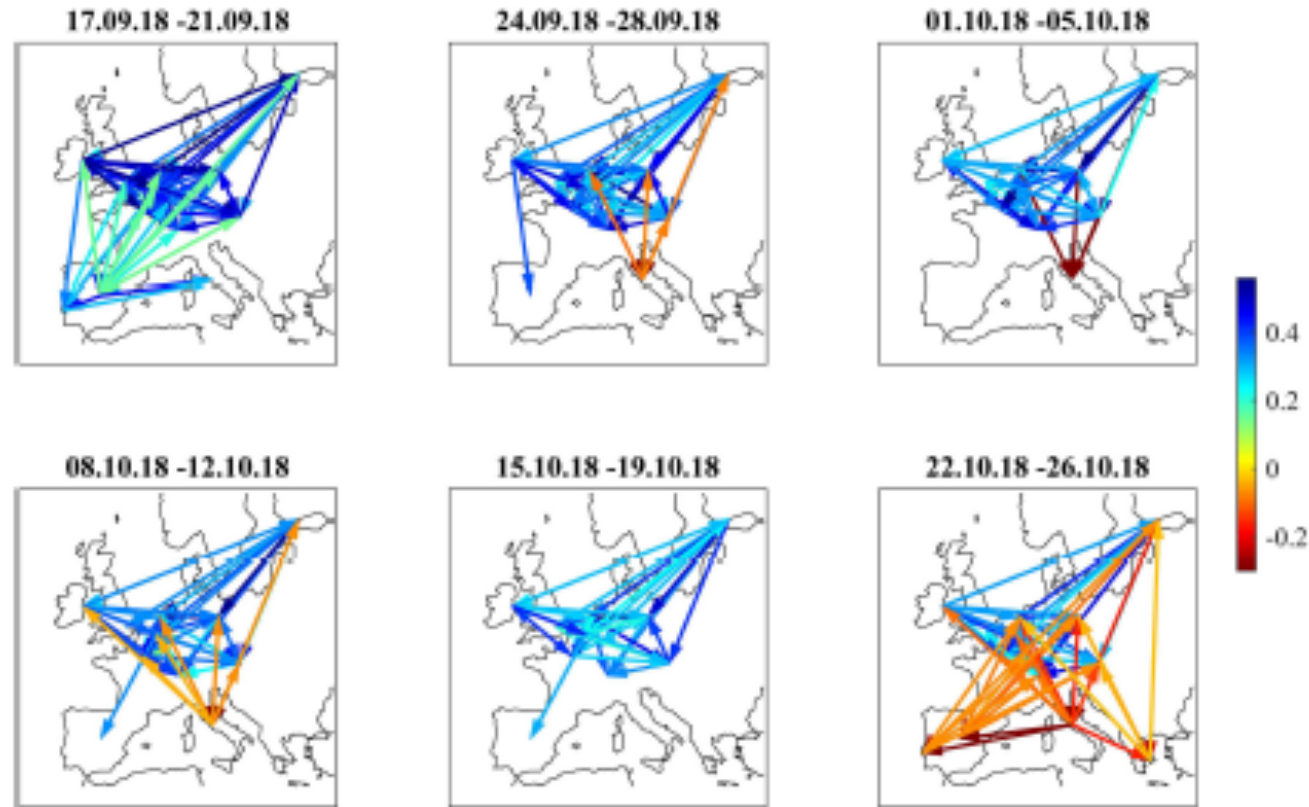
Niklas Bussmann
 Paolo Giudici
 Jimi Marinelli
 Jochen Papenbrock



Contribution of each explanatory variable to the Shapley's decomposition of four predicted default probabilities, for two defaulted and two non defaulted companies. A red colour indicates a low variable importance, and a blue colour a high variable importance.

Sustainable finance: leveraging correlations to target investments

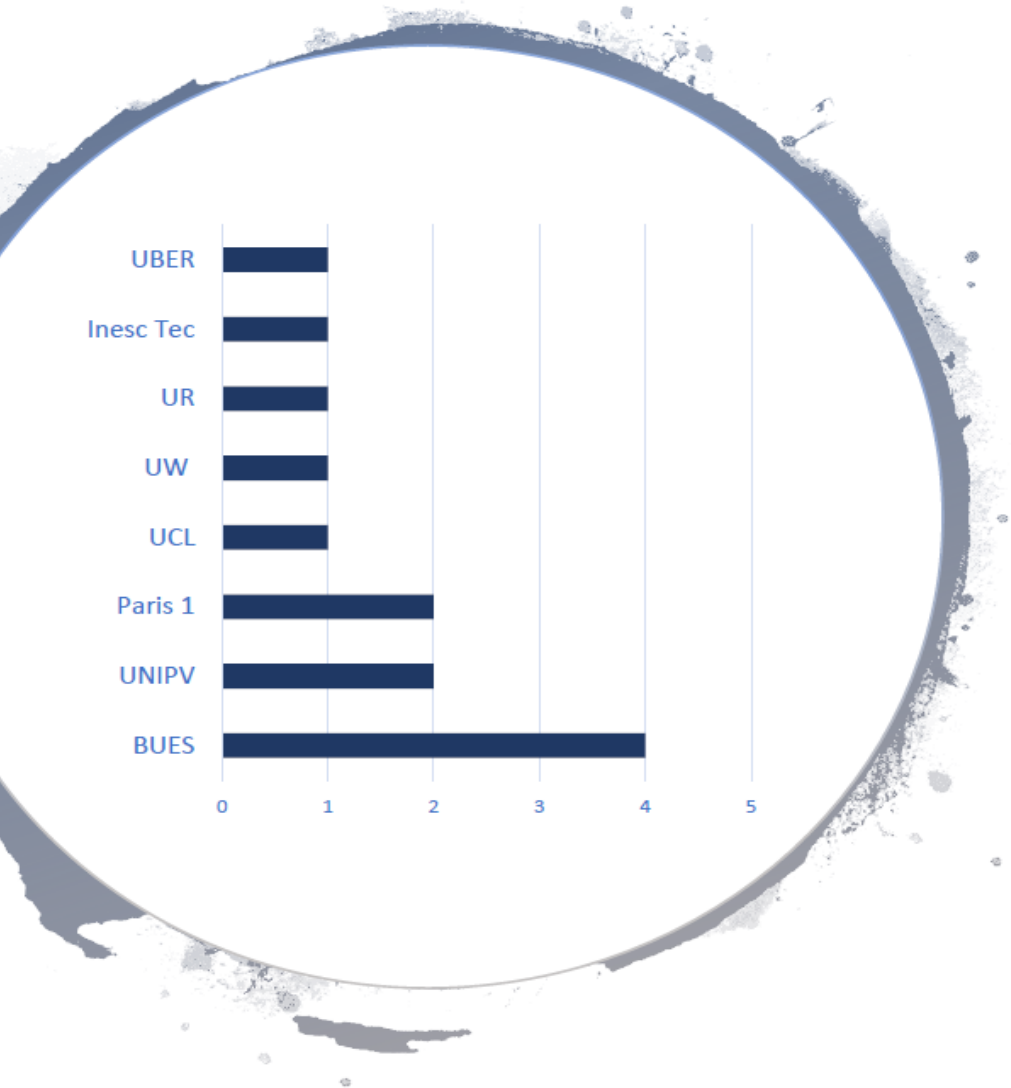
Peter Schwendner
 Martin Schüle
 Martin Hillebrand



Filtered correlation influence networks during the weeks around the Brexit Referendum (23.6.2016).

Blockchain research – standardization content for the knowledge exchange platform .

Three main topics : #Cryptocurrency markets #Blockchain #Regulatory/governance

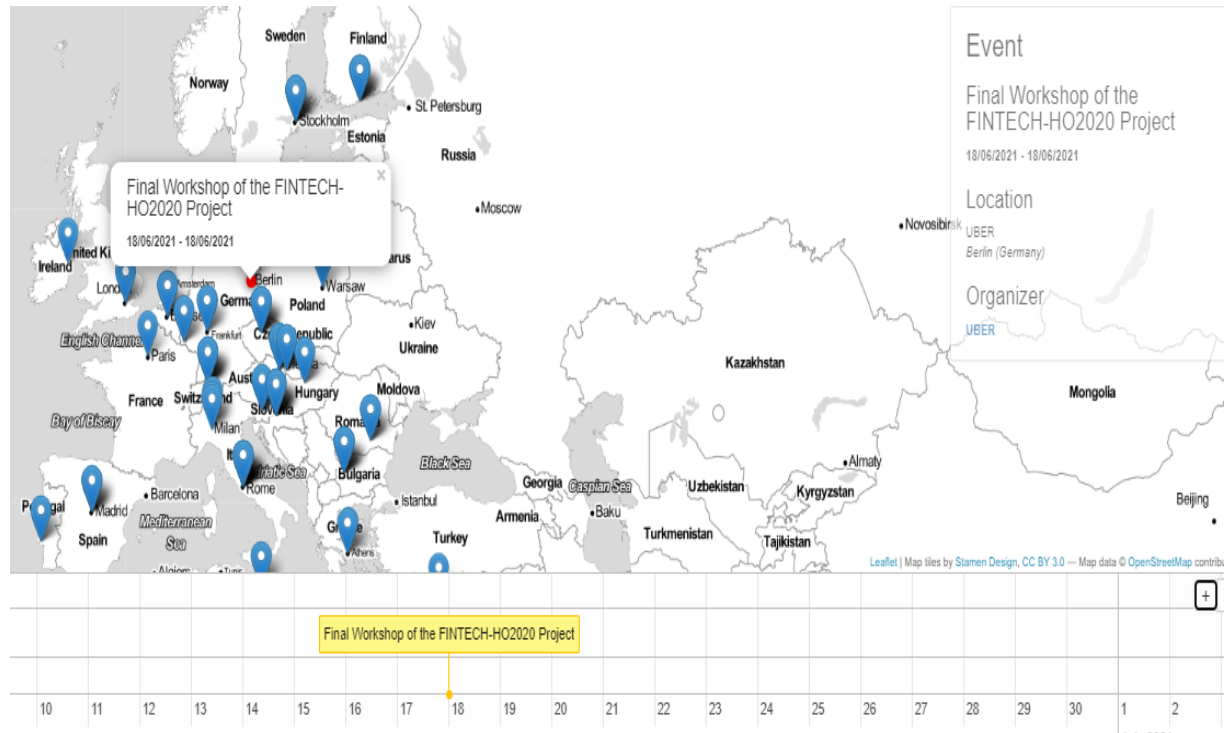


Use Cases Collection

- 1) A Decentralised Digital Identity Architecture (Goodell and Aste, 2019)
- 2) A Probative Value for Authentication Use Case Blockchain (Guegan, 2019)
- 3) Fostering consumer bargaining and e-procurement through a decentralized marketplace on the blockchain (Amorim et al. 2019)
- 4) **Initial Coin Offerings: risk or opportunity? (Toma and Cerchiello, 2019)**
- 5) Metcalfe's law and log-period power laws in the cryptocurrencies market (Pele and Pele, 2019)
- 6) Momentum and contrarian effects on the cryptocurrency market (Kosc et al. 2019)
- 7) Phenotypic convergence of cryptocurrencies (Pele et al. 2019)
- 8) The other side of the Coin: Risks of the Libra Blockchain (Abraham and Guegan, 2019)
- 9) Using High-Frequency Entropy to Forecast Bitcoin's Daily Value at Risk (Pele and Pele, 2019)
- 10) Benefits of sectoral cryptocurrency portfolio optimization (Culjak et al. 2020)
- 11) **A Statistical Classification of Cryptocurrencies (Pele et al. 2020)**
- 12) **Libra or Librae? Basket based stablecoins to mitigate foreign exchange volatility spillovers (Giudici et al. 2020)**
- 13) **FRM Financial Risk Meter (Mihoci et al. 2019)**

FINTECH-HO2020 events

- 3rd validation and research workshop on Blockchain and Risk Management in Winterthur on 25th of March 2021
- Final workshop in Berlin the 18/06/2021



Follow us:

www.fintech-ho2020.eu

[LinkedIn](#)

[Twitter](#)

Contact us

info@fintech-ho2020.eu

Blockchain and Risk Management Conference

Horizon2020 Project: FINTECH-HO2020
A Financial supervision and Technology
compliance training programme



1st European Workshop on Blockchain and Risk Management 2021



Cross HO2020 projects COLLABORATION

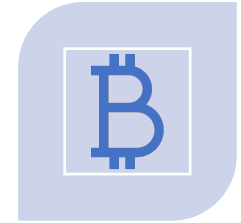
FINSEC
SOTER
INFINITECH
Critical Chains



JOINT EXPLOITATION
AND DISSEMINATION
WORK ON:



AI RISK MANAGEMENT
MODELS AND
EXPLAINABILITY



CYBER SECURITY/RISKS
FOR FINANCE



SUSTAINABILITY OF
FINTECH RISK MODELS



CROSS PROJECTS
TRAINING ACTIVITIES
AND WORKSHOPS



NEXT EVENTS : 12TH
DECEMBER / 14TH
JANUARY

Work in progress collaborations: Concordia – BDVA – SPARTA – Cybersecurity for Europe

Aim. Propose Financial Technologies (peer to peer lending, robo advice in asset management, blockchain payments) through risk management standards to sustain digital assets and green investments.

Methods. Propose new use cases for fintech risk management of digital assets (particularly for green investments), measuring risks to make innovations sustainable

Work plan. Collaboration with other project can be achieved by: i) developing “benchmark” use cases in digital assets risk management, including ESG principles; ii) disseminating the use cases with researchers, regulators, supervisors, fintechs and

Bridging-up: proposal