

# COST Action CA19130

FinTech and AI



# Table of Contents



Executive Summary **01**

Fostering Transparency **02**

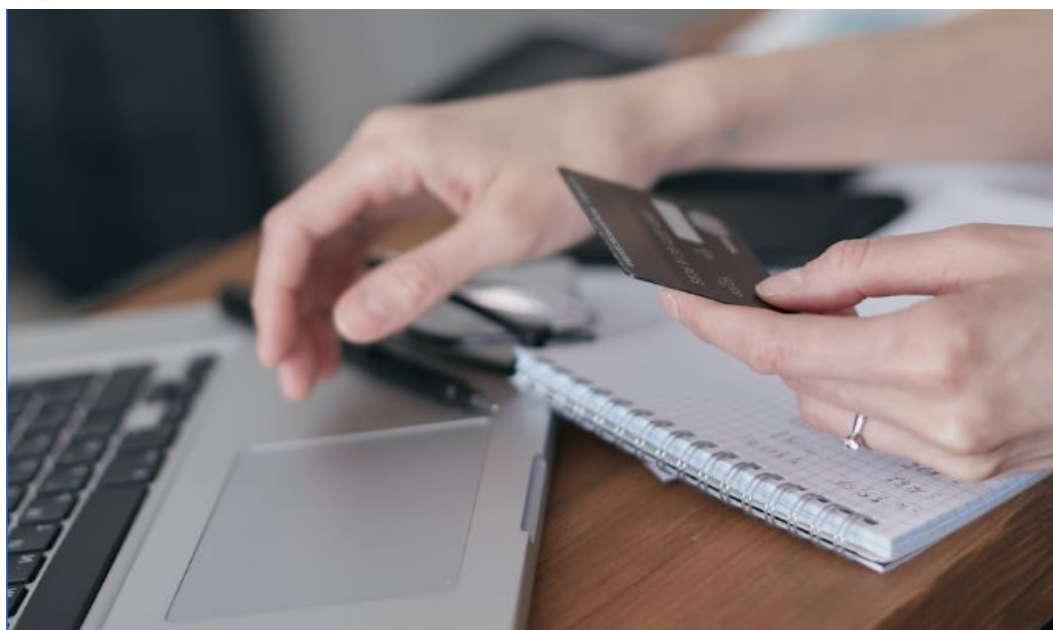
Key Achievements **03**

Real World Impact **04**

Research and Innovation **05**

Conclusions and Next  
Steps **06**





## Executive Summary

COST Action CA19130 focused on promoting transparency in the financial sector, specifically in areas where financial technology (FinTech) and Artificial Intelligence (AI) are used.

The Action brought together researchers, industry experts, policymakers, and regulators to address concerns related to 'black box' decision-making models.

The report highlights key achievements, research findings, and the impact of the Action in shaping the future of FinTech and AI.



## Fostering Transparency in FinTech and AI for Finance

Transparent financial systems build trust, spur innovation, and protect investors.

### FinTech Transparency



#### Consumer Protection

Transparency helps consumers understand the risks and opportunities associated with financial p...



#### Regulatory Oversight

Transparency enables regulators to effectively monitor financial services and ensure compliance with re...



#### Market Integrity

Transparency fosters trust among stakeholders and promotes fair competition in the financial industry.



## Key Achievements

### In 2021-2022

The COST Action has made significant strides in promoting transparency and responsible AI integration in the financial sector.



This has been accomplished through fostering collaborations, building capacity, and promoting knowledge exchange within the research community.

Key achievements include developing a robust network of researchers, industry experts, and policymakers, as well as organizing impactful events, such as the COST FinAI Meets Brussels, Women in FinTech and AI, and thematic workshops.

The Action has also been successful in developing innovative tools and frameworks to enhance transparency, including a decentralized ledger system, AI explainability methods, and a blockchain research center.



# Real World Impact

The Action has demonstrably improved trust in the financial industry, through AI explainability and blockchain security.

## AI Impact



### Trust & Transparency

The Action helped restore consumer confidence in the financial sector by developing AI explainability methods.



### Blockchain Security

The Action has developed audit methodologies to ensure the security of blockchain-based financial platforms.



### Policy & Regulation

The Action has contributed to shaping regulatory frameworks for FinTech and AI.

# Research and Innovation

## Advancing Transparency

The COST Action CA19130 has made significant progress in the field of research innovations and their practical applications, contributing to the main objective of promoting transparency in the FinTech and AI sectors applied to finance.



This includes developing methods for analyzing and improving the transparency of "black box" financial decision support models, which are widely used in the financial industry.

The Action has also focused on promoting the explainability and trust in AI models used in critical risk assessment and decision-making processes, and developing advanced integration of data science in performance evaluation of investment products such as "smart beta" products in asset management, banking,...

The Action has developed innovative tools and frameworks to address various challenges and promote transparency in financial services, including a decentralized ledger system, explainable AI models, and a blockchain research center.

# Conclusions and Next Steps

COST Action CA19130 has made significant progress towards its objectives, contributing to a more transparent, accountable, and efficient financial ecosystem.

The Action will continue to foster collaboration, research, and knowledge sharing to ensure its long-term impact in the field of FinTech and AI.

