

## UPU World Leaders Forum 2022

Session 2

Game-changing emerging technologies to benefit the Postal Sector

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Frankfurt, October 2022



### **UPU's Financial Inclusion Research**



Trust in Postal Financial Services



Drivers of Postal DFS Innovations



Blockchains for the Postal Sector



Postal DFS for SMEs

Posts for women's financial inclusion



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## Innovating postal financial services



## Postal digitization journey

#### **POSTAL AUTOMATION**

Enhance the efficiency of postal operations through automation of operational processes.

#### **REVENUE-GENERATING DIGITAL SERVICES**

Offer additional digital services such as online identity verification, secure electronic mailboxes, online payments, and governments services platforms.

## AND SERVICES

Augment customer value proposition through digital enhancements to existing products and services.

#### DIGITAL **TRANSFORMATION**

Build and deliver a first-class user experience through digital products and services, digital channels, technology, and automated processes.



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### **Levers of Postal Innovations**



#### **PEOPLE**

Innovation culture New skillsets



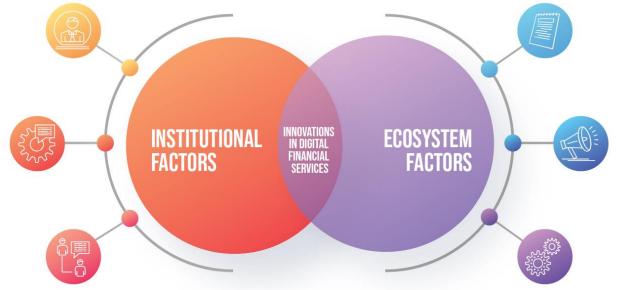
#### **PROCESS**

User-centricity Partnership and collaboration



#### **CUSTOMER**

User behavior User experience Use cases and choices



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#### **POLICY AND REGULATION**

Consumer protection and awareness Interoperability and cross-border payments Government support systems e.g. digital identity, shared data platforms Data privacy and governance Innovation sandboxes



#### **MARKET**

New competitors Demographic and social changes Shared economy Reshoring and localization



Blockchain, Al, and Big Data Emerging distribution channels Open APIs





# Blockchains and DLTs for the Postal sector



## DLTs in the postal sector

Since 2016, at least 7 Posts conducted 14 different pilots or projects using DLTs

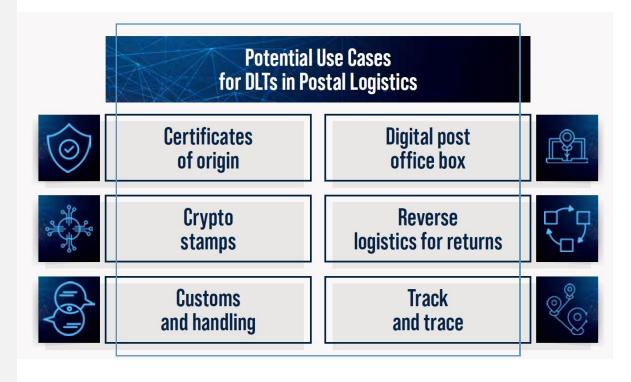
Post	Year	Project summary
<u>Australia Post</u>	2016	Research to store identities in a blockchain, to verify identity and registry accreditation functions
<u>Australia Post</u>	2016	Piloted a solution for voting for state elections.
Swiss Post	2018	Implemented, in collaboration with Swisscom, a private Swiss infrastructure for blockchain applications.
Egypt Post	2018	Studying how to implement a digital wallet with information and transaction data linked to a blockchain.
<u>Austria PostAG</u>	2019	Creation and implementation of crypto stamps with NFC-enabled verification and authenticity.
<u>Croatian Post</u>	2019	Successful trial of cryptocurrency sales and redemption services for tourists in Zadar.
<u>Tunisian Post</u>	2019	Implemented the eDinar solution, acting like a central bank digital currency (CBDC), wholly controlled by Tunisian Post.
<u>Swiss Post</u>	2019	Piloted blockchain and IOT to comply with EU guidelines of Good Distribution Practice for pharmaceutical logistics.
Egypt Post	2019	Development of a logistics center at Cairo Airport, that uses blockchain technology to speed up customs and handling.
<u>Croatian Post</u>	2020	Created a crypto stamp that is issued along with a digital 'Postereum' token on the Ethereum network.
<u>Tunisian Post</u>	2020	Adoption of the SWIFT Global Payment Innovation (GPI) for international financial transfers.
<u>USPS</u>	2020	Creation of a blockchain mail-in voting system for citizens using Ethereum.
<u>Tunisian Post</u>	2021	Pilot for a CBDC payment platform and wallet on a private blockchain using Hyperledger.
USPS	n.d.	Exploration effort on the use of DLTs for a distributed identity use case.

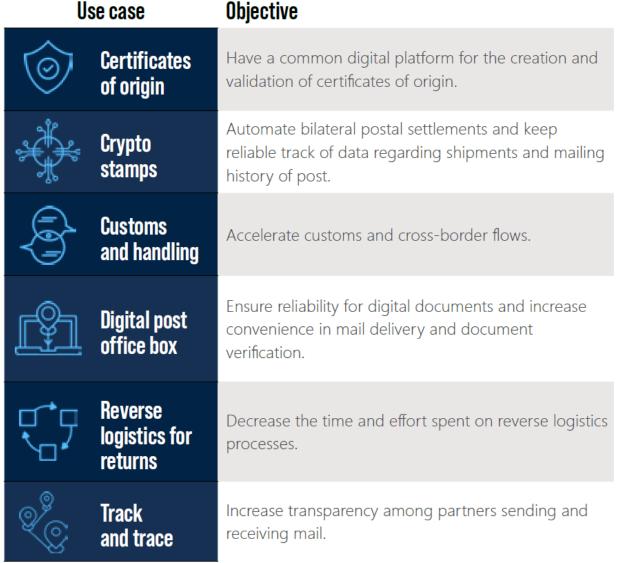
 $\underline{https://www.upu.int/en/Publications/Financial-inclusion/Blockchains-for-a-Sustainable-Postal-Future}$ 

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## **DLTs in Postal logistics?**

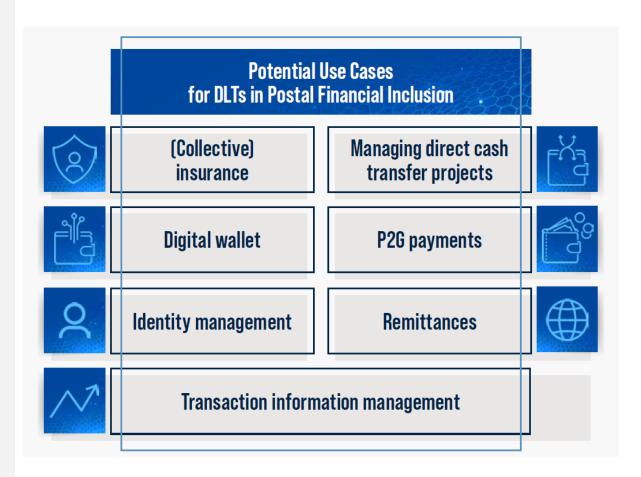






### **DLTs in Postal financial inclusion?**

Use case





Objective



## Thank you

Download and read all our studies at

https://www.upu.int/en/Universal-Postal-Union/Activities/Financial-Services/Research

Contact us at: <a href="mailto:financialinclusion@upu.int">financialinclusion@upu.int</a>

