

# The digitalization of money 8<sup>th</sup> BBVA CIB Seminar

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#### About the history of money



#### Money and cash: characteristics of and functions

#### Three features of cash:



Three basic functions ...

#### a medium of exchange

a unit of account

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#### a store of value

## **Development of digital currencies**



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- Economies of scale and network are reinforced exponentially
- Rapid information flows at low cost and subject to security standards
- Decentralization of storage and verification processes
- Very intensive use of encryption and digital signature cryptographic algorithms
- Noticeable drop in the costs of communications and computers
- Moore's law: 50% cost reduction every two years

- Cryptography provide protection and security
- Trust is deposited in the cryptographic methods

### **Cryptocurrencies: main weaknesses**



## Stablecoins: a potential alternative to cryptocurrencies

#### Main characteristics

#### Fiat backed

Reduce the volatility

Key to succeed: fiat assets stored in a secure and transparent manner



## "J.P. Morgan Creates Digital Coin for Payments"

(J.P Morgan February 14, 2019) It is a digital coin representing United States Dollars held in designated accounts at JPMorgan Chase N.A. In short, a JPM Coin always has a value equivalent to one U.S. dollar. https://www.jpmorgan.com/global/news/digital-coin-payments



**Coming in 2020: Calibra** A New Digital Wallet for a New Digital Currency

≋libra

(Facebook June 18, 2019) Calibra is a newly formed Facebook subsidiary whose goal is to provide financial services. The first product Calibra will introduce is a digital wallet for Libra, a new global currency powered by blockchain technology.

https://newsroom.fb.com/news/2019/06/coming-in-2020-calibra/

## Issuance of digital currencies by central banks



## **Expected outcomes of four CBDC schemes**



## Conclusions



Money is today subjected to an intense process of digital disruption, after twenty-five centuries of hegemony of cash



Bitcoin is the most important digital currency but different alternatives have been developed from the private sphere, stablecoins, or from the public sphere, still in a conceptual territory, such as CBDC



This continuous process of innovation seeks to materialize the advantages of digitization rapidity, globalization, decentralization, cost reduction, security, etc.





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