EU Digital Finance Package

Cryptoassets & Markets: an Overview

Agenda

- 1. Introduction -
- 2. About crypto-assets
- 3. About the crypto-assets market
- 4. About the crypto-assets use cases
- 5. Considerations for the policy framework

About crypto-assets

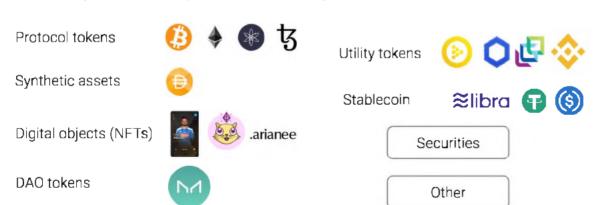
A new assets class with tremendous potential

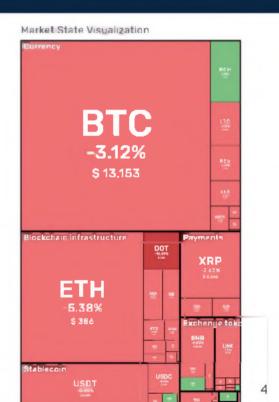
A new asset class with specific characteristics

Very diverse range of assets

What they have in common is that they are all registered on a blockchain, which allows, under some conditions:

- permanence;
- direct appropriation, with no intermediary;
- uniqueness; i.e. prohibition of duplication.





Proposed Taxonomy

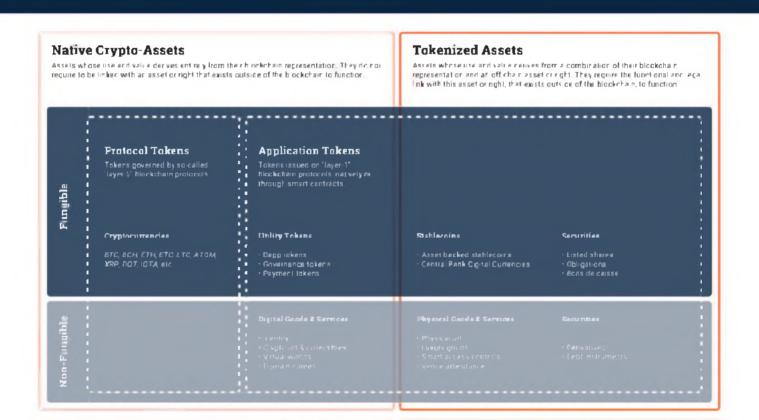
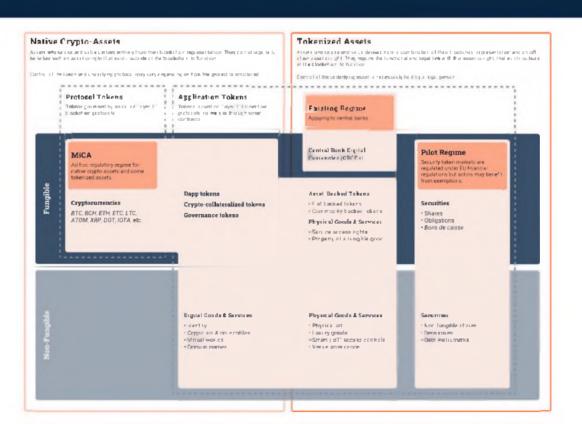
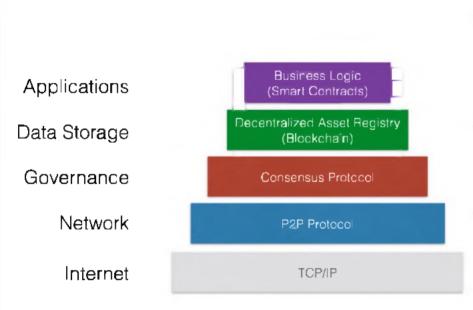


Illustration of the scope - Assets



Key components



- A virtual Machine executes the business logic of transactions, referred to as Smart Contracts, the result of which are registered on the blockchain.
- Blockchain is the ledger where all the data is stored. This ledger is distributed to all the participants.
- Consensus protocol ensures that all the participants are behaving in good faith and the blockchain is consistent between all the participants.

The game-changer: programmability & autonomous execution ("smart-contracts")

Simple transaction

- Mr. A creates and sends a simple transaction:
 - Transfer X crypto-assets to Ms. B
- The Virtual Machine executes the transaction.
- The result of the transaction is registered on the blockchain.

Smart-contracts

 Actor deploys a complex business logic / program on the blockchain that creates a new use case.

Lending platform Token

Exchange platform

- The protocol adds the smart-contract to the blockchain.
- The smart-contract is part of the blockchain and any authorized party can use the smart-contract later on. It will be executed by the Virtual Machine.

=> "Decentralized" use cases

About the crypto-assets market

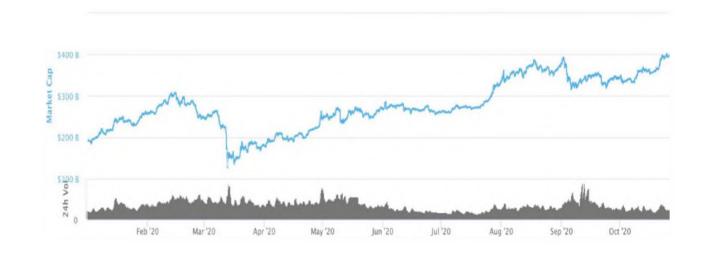
Booming newcomers, looming incumbents

Constant growth and opportunities

7,500+ crypto-assets

\$400 billion marketcap

300+ exchanges



Numbers: October 2020

Source: Coinmarketcap

Crypto-assets market vs. traditional markets

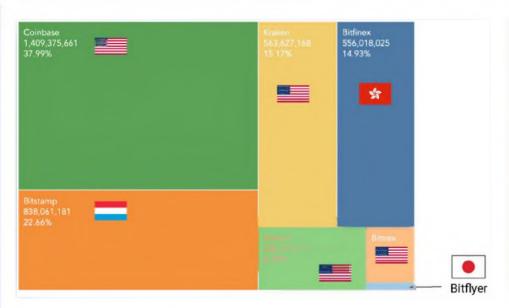




Crypto-assets remain marginal compared to other financial assets in terms of total cap



The biggest crypto-exchanges are located out of the EU



Bitfinex Binance 47.866.756 4.37%

BTC/USD - Traded volume and market share (first 2 weeks of October 2020)

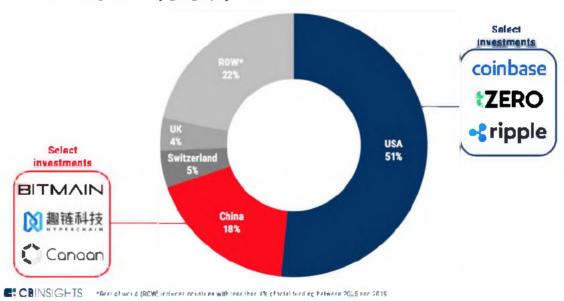
BTC/EUR - Traded volume and market share (first 2 weeks of October 2020)

Source: Kaiko

The absence of the EU on the funding stage of the crypto industry

Companies in US and China dominate funding

Share of funding dollars by geography, 2015 - 2019



Source: CB Insights, The Blockchain Report 2020

Incumbents' growing interest

SOCIETE GENERALE ISSUED THE FIRST COVERED BOND AS A SECURITY TOKEN ON A PUBLIC BLOCKCHAIN

Central banks and BIS publish first central bank digital currency (CBDC) report laying out key requirements





News Release 2020 - 98 | July 22, 2020

Federally Chartered Banks and Thrifts May Provide Custody Services For Crypto Assets

Jack Dorsey says Bitcoin and blockchain will shape Twitter's future where 'content exists forever'

PayPal allows Bitcoin and crypto spending

G 4 days ago





About the crypto-assets use cases

Centralized or decentralized?

Use cases: centralized or decentralized?

A significant distinction: centralized ("traditional") and decentralized projects

Centralized

- Most significant actors
- Operating through a dedicated legal entity which keeps control on tokens / protocols
- Activities:
 - Issuer of crypto-assets
 - Custodian
 - Multilateral trading facility
 - Broker
 - Portfolio manager
 - o Adviser...

Decentralized

- Most innovative players
- Deploying smart-contracts on the blockchain, that are ultimately operated by the final clients who are in control of the protocol / tokens
- Activities
 - Decentralized Finance (DeFi) loans, exchanges...
 - Video games
 - Art
 - Coordination mechanisms
 - Insurance...

Use cases: centralized or decentralized?

A significant distinction: centralized ("traditional") and decentralized projects

Centralized Decentralized

Example: Example:

Bitstamp

- Exchange platform / Multilateral trading facility
- Operated and controlled by a company (incorporated in Luxembourg)
- IT: A centralized database of trades connected to the blockchain for deposits / withdrawals



- Exchange with radically innovative *liquidity pools* (no orderbooks)
- Operated by smart-contracts deployed by a company but not under its control
- **IT**: Deployed on the blockchain, transactions are sent directly by the user to the smart-contracts.

Use cases: what are crypto-assets used for?



Digital identity RegTech Central Digital Bank Currencies Privacy preserving protocols Decentralized data storage Decentralized computing power

Primitives

Considerations for the policy framework

Crypto-assets regulation as a catalyst for safer innovation

Encourage the benefits while addressing the risks: staying competitive

Benefits

Growth and jobs

Citizen empowerment

Cost reduction

Trust and transparencies

Alternative fundings

Encourage the benefits while addressing the risks: staying competitive

Risks

Security

Infrastructures have been subject to numerous cyberattacks

=> addressed with DORA proposal (C)



Money laundering & terrorism financing

Limited identification / check requirements of participants, lack of clarity behind compliance, supervision of transactions

=> addressed with 5th AML Directive (extension currently discussed) and FATF recommendations 🛛 🍘



Investor & consumer protection

Investors/consumers may be exposed to unprotected, speculative and opaque markets & fundraisings

= > addressed by MICA C



Financial Stability

The development of this new class of assets and potential alternative means of payments could represent a threat to financial stability

= > addressed by MICA



Content of the Draft EU regulation

Two foundational texts to regulate crypto-assets in the EU...

MiCA Regulation ("Markets in crypto-assets")

Mandatory bespoke regime

Utility tokens, cryptocurrencies and stablecoins (asset-referenced tokens & e-money tokens)

Issuance, exchange, custody, and other "investment services"

All
except for e-money tokens - restricted to
credit institutions

Pilot regime for DLT market infrastructures

Transitional regime towards definitive rules, granting exemptions to financial regulations under conditions

Security tokens (= transferable securities on blockchain)

Trading on an MTF Delivery-settlement

Investment firms Central Security Depositories

Regime

Scope - Crypto-assets

Scope - Activities

Authorised actors

Illustration of the scope - Assets

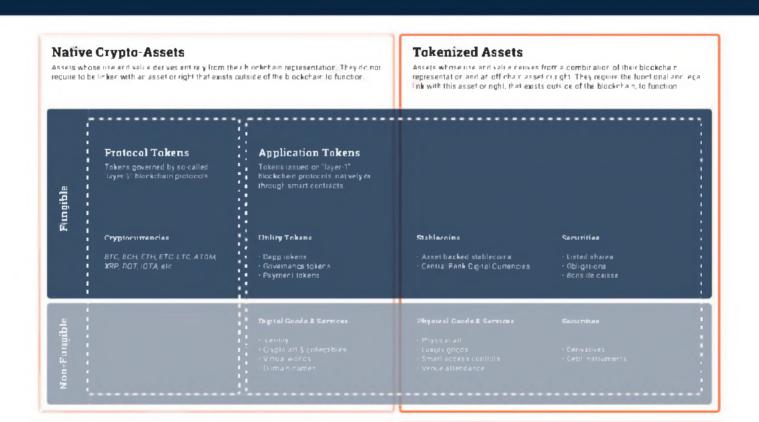


Illustration of the scope - Assets

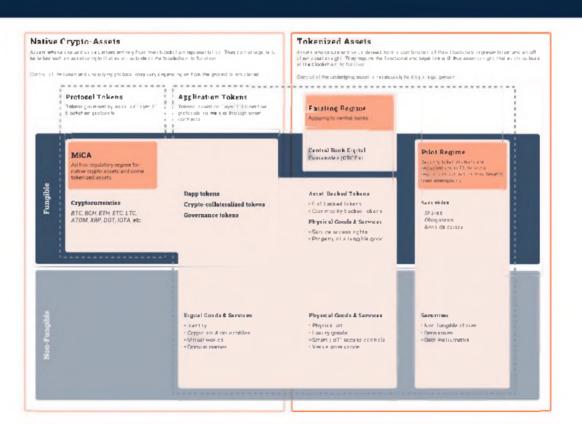


Illustration of the scope - Activities

The current scope

Centralized

Bitstamp

- Covered by the regulation
- Can comply with no major issue
- Article 68: ban from listing assets that have been issued with no whitepaper

Decentralized



- Not excluded => in the scope?
- Can not respect obligations that imply a control over the assets listed, the operations, etc.
- Illegal in the EU?

What's missing - entirely or in part - for a perfect EU regime?

Equal opportunities between incumbents and newcomers

Barriers to entry high for newcomers, and low for incumbents.

Allowance for DeFi and other decentralized use cases

Innovation takes place through increasingly decentralised use cases (e.g. so-called decentralised finance, or "DeFi"). Current drafting does hinder or ban those use cases - probably as an unwanted side effect.

Authorization of public blockchains

Public blockchains are not recognized as platform for most innovative use cases.

Proportionality

The proportionality is insufficient to cater for different business models in the sector

Adapted operational requirements

Certain operational requirements are very costly and out of sync with market practice.

THANK YOU