

# **HOW CAN EUROPE BENEFIT FROM BLOCKCHAIN TECHNOLOGIES?**

#### WHAT IS BLOCKCHAIN?



**Blockchain** is the best known **distributed ledger technology**. A ledger is a database which keeps a final and definitive record of transactions. Records, once stored, cannot be tampered without leaving behind a clear track. Blockchain enables a ledger to be held in a network across a series of nodes, which avoids one centralised location and the need for intermediaries' services. This is particularly helpful for providing **trust**, **traceability** and **security** in systems that exchange data or assets. There is a lot of potential for blockchain to be used in many different areas such as financial services, supply chains or healthcare.

Until today, the venture capital industry has invested around €1.2 billion in more than 1,100 startups; 300 of them are European.

Initial Coin Offerings (ICOs) which represent new ways for financing blockchain ventures are booming (moving from €250 million in 2016 to around €3 billion in 2017).

10% of global GDP could be stored, via digital assets, through blockchain technology in less than 10 years.\*

### POTENTIAL SECTORS (BEYOND VIRTUAL CURRENCIES)



By **governments** for citizens' ID management, taxation reporting, development aid management, eVoting and regulatory compliance (RegTech).



By **insurances** for automatic execution of contracts.



In **finance** for money transfer, peer-to-peer lending and transfer of securities.



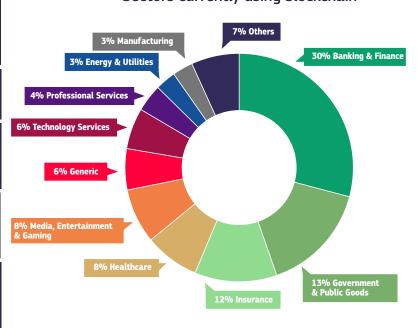
For **media and intellectual property** to directly distribute music, videos and other content.



In healthcare to track transactions on patient's health records and identification of access.

#### \*World Economic Forum Survey: www3.weforum.org/docs/ WEF\_GAC15\_Technological\_Tipping\_Points\_report\_2015.pdf

## Sectors currently using blockchain



Source: www.jbs.cam.ac.uk/faculty-research/centres/alternative-finance/publications/global-blockchain/#.Wms8ZrPtypo

Blockchain is a disruptive technology opening new avenues, Europe should help to



Support the European industry, seizing the economic opportunity introduced by this innovation in sectors such as supply chain, energy, mobility, ...



**Improve business processes** in governments, companies and organisations.



Enable **new distributed business models** based on direct
peer-to-peer transactions without
the need for central platforms.

## WHAT IS THE EUROPEAN UNION DOING FOR BLOCKCHAIN?



**Financing** Horizon 2020 Research & Innovation projects.

So far €83 million have been allocated by the EU in blockchain related projects, and potentially up to €340 million could be committed from 2018 to 2020.



Actively participating in international standardisation like in:

- ISO Technical Committee 307 on blockchain and Distributed Ledger Technologies.
- ITU-T Focus Group on DLT

  <u>Distributed</u> Ledger Technologies.

**Testing blockchain solutions** (through proof of concept) and **piloting projects in support to EU policies** in areas like regulatory compliance, tax and customs, energy, identity management,...

## IN 2018, THE EUROPEAN COMMISSION WILL:

Work on **Governance** and **Interoperability** Framework of the blockchain technologies.



Launch the EU Blockchain Observatory and Forum to:

- map relevant blockchain initiatives.
- share experiences and pool expertise on blockchain and its related challenges
- and organise debates at the EU level.

Broaden EU financing of pilot projects

in other areas of public interest like eGovernment, eHealth, or transport.

**Assess the need** for an EU blockchain infrastructure and its **benefits**.

**Engage with Member States** and consolidate initiatives at EU level.