

### EUROPEAN COMMISSION

Directorate-General for Financial Stability, Financial Services and Capital Markets Union



### **European Financial Transparency Gateway**

SMART 2016/0488 European Commission DG FISMA



en s

Anne is an investor who is looking for opportunities on pan-European capital market



en se

Peter is an M&A manager who is looking for possible synergy opportunities among the European capital market participants



Maria is an auditor who is searching for peers necessary in transfer prices analysis

1

2000

Sam



en se

Since there is no central platform for analysts and investors to obtain that information conveniently, reliably and promptly...



en la

...and also because financial reporting data is available in different languages...



 $\sim$ 

en la

...and often in various file formats...



en s



my m

...making informed decisions for Anne, Maria and Peter is much harder, or in some cases impossible



European regulators have undertaken several initiatives to help Anne, Peter and Maria to tackle these challenges

my





In 2005 the European Union has introduced unified accounting and reporting standards called the International Financial Reporting Standards (IFRS)







my

From 2017 the EU will require capital market participants to start using the Legal Entity Identifier (LEI) as a unique company identification mechanism









From 2020 all EU listed companies will be required to apply a common European Single Electronic Format which adopts the Inline XBRL standard for digital representation of financial reports. Sam  $\bigcirc$  $\bigcirc$ igodol $\bigcirc$  $\bigcirc$ 

Yet still, for an investor, the European capital market information is not conveniently accessible

en se

In 2017 the European Commission has started researching the possibility to use Blockchain technology to create a distributed record of financial reports across the EU

> European Financial Transparency Gateway powered by Distributed Ledger Technology

Currently in each country there is an offical registry called the Officialy Appointed Mechanism (OAM) that is responsible for distribution of regulated information received from listed companies



# At present these registries are not connected in any usable manner



# But what if these registries were connected through a decentralized network?



# What if they became a "cloud-based" commonly accessible registry that synchronises national regulatory information automatically?



#### This is what we call the European Financial Transparency Gateway







#### **Report Metadata**

- Issuer Name
- Unique Issuer ID (LEI)
- Type of regulated information

i

 $\left\{ \right\}$ 

- Report URL (OAM)
- **Report URL** (Issuer's IR website)
- Issuer's Home Member State etc.



#### **Report Metadata**

- Issuer Name
- Unique Issuer ID
- Type of regulated information

li

 $\left\{ \right\}$ 

Sann

- Report URL (OAM)
- Report URL (Issuer)
- Issuer's Home Member State Etc.



## **Accessing information**

European Financial Transparency Gateway powered by Distributed Ledger Technology















## What are Distributed Ledger Technology advantages?

European Financial Transparency Gateway powered by Distributed Ledger Technology

### SECURITY

Blockchain is a data structure that enables the creation of a digital ledger of transactions and share it within a distributed network of computers. It utilizes advanced cryptography to enable each participant on the network to use the ledger in a secure way without a central authority.





Because every node has their own copy of the complete ledger, even if some of them are compromised or offline, the system is still fully operational





Because every node has their own copy of the complete ledger, even if some of them are compromised or offline, the system is still fully operational


#### IMMUTABILITY

Due to the consensus protocol, the majority of the nodes (OAMs) have to approve information submitted by one of the nodes. When an outside party tries to submit a fraudulent information, it will be rejected.



### IMMUTABILITY

Due to the consensus protocol, the majority of the nodes (OAMs) have to approve information submitted by one of the nodes. When an outside party tries to submit a fraudulent information, it will be rejected.



### IMMUTABILITY

Due to the consensus protocol, the majority of the nodes (OAMs) have to approve information submitted by one of the nodes. When an outside party tries to submit a fraudulent information, it will be rejected.



#### Concept



#### Environment



# Token

The term 'token' here is synonym for 'meta data'.



#### **Technical Architecture**





XBRL files from https://www.esma.europa.eu/field-test-esef

# **Extension scenarios**

#### What is the EFTG capable of?

European Financial Transparency Gateway powered by Distributed Ledger Technology Can DLT improve the cooperation between business registers in Europe?

Business Registers Interconnection System Can an investor identify small and medium entity by standardised code in DLT?

LEI central repository

Can an investor have instant and open public access to company prospectus?

The Prospectus Database

Can DLT be used to prove legal contracts?

#### Smart Contracts

## Extensions

Company establishment	Growth and development stage	Company transformation, limitation or discontinuity
Common actions (reporting, registration, announcements, notifications etc.)		
Registration of a company Initial Coin/Token Offering Application for public grants / funding Exemptions and privileges Tax reporting and registers	Initial Public Offering Prospectuses and KIIDs publication Issuance of debt securities Corporate actions publication Registration of related parties and subsidiaries Licences and permissions Application for public grants / funding Tax reporting and registers	Splits / mergers / acquisitions Nationalisation Filing for bankruptcy / insolvency Deregistration Going dormant Sanctions Prosecutions and regulatory warnings
Other actions and market-driven activities		
Investment and business plans publication Forecasts, prospects and plans announcements	Ratings publication Rankings and indices Certificates Corporate sustainability reporting Major internal corporate announcements International cooperation and trade events	Announcements of recovery plans Bankruptcy auctions

## Contact

michal.piechocki@br-ag.eu