OIV Course

BLOCKCHAIN

applied to the vine and wine sector

ONLINE
4-7 JUNE 2024

OIV 🍇 100

PROGRAMME

DAY 1: INTRODUCTION TO BLOCKCHAIN

Opening words by OIV Director General and Head of Statistics and Digital Transformation Department

Lecturer: Milagros Santamaria (Megatex.tech, MMLAW)

1. Introduction to Blockchain. Web 3.0. Smart Contracts and Tokens

1.1 What is Blockchain? Main characteristics. Benefits of its implementation.
1.2 Types of blockchains. Mining. Consensus mechanisms. The blockchain trilemma.
1.3 Characteristics and evolution from web 1.0 to web 3.0
1.4 Smart Contracts. Functionalities, attributes, risks.
1.5 Taxonomy of Tokens. Notions and types of crypto assets, cryptocurrencies, and tokens. Stablecoins and Central Bank Digital Currencies (CBDCs). NFTs

2. DeFi. NFTs and Metaverse. DAOs. Token Economy

2.1 DeFi. Centralised and decentralised exchanges. Conflicts. New forms of investment. Wallets, custodial and non custodial.
2.2 Sovereign Identity.
2.3 Token Economy. Asset tokenization in diverse industries. Experiences and value enhancement. IoT
2.4 Token Economy and how we can apply it to different industries. Use cases for smart contracts and tokens in the private and in the public sector.
2.5 Asset tokenization in diverse industries. Real Estate, AgroBusiness, Insurtech. Supply chain. Experiences and value enhancement.

3. Homework and Guest 1

3.1 Under instructions, download a non custodial wallet (i.e. Metamask, Trust).
3.2 Guest speaker: David Laurent (la WineTech)

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DAY 2: BLOCKCHAIN INTEGRATION IN THE WINE INDUSTRY I

Lecturer: Milagros Santamaria (Megatex.tech, MMLAW)

1. Evaluating Blockchain's Value and Risks

1.1 DAOs: Organizations in Web3. New companies. Use cases
1.2 The Metaverse as a new context. Types of metaverse. Use cases
1.3 How AI complements itself to these new technologies
1.4 What makes a Blockchain use case successful? Main considerations to take into account when designing a blockchain technology solution. When it make sense to use it?
1.5 Three main legs of all blockchain implementations: Legal, Financial and Tech + other complementary technologies: IoT, AI, NFCs.
1.6 HOMEWORK: Use of a Marketplace (i.e Opensea)

2. Blockchain Characteristics and their Applicability in the Wine Industry

2.1 Pain points of the Wine industry
2.2 WEB3 as an economic and sustainable solution. Main Blockchain's characteristics. Traceability, transparency and immutability of ledger + Smart Contracts applies to the wine Industry
2.3 Tokenization in the Wine Industry
2.4 Supply chain, DOC. Self Certification.
2.5 Guests: André Soares (SOGRAPE), David Garret (dVin)

DAY 3: BLOCKCHAIN INTEGRATION IN THE WINE INDUSTRY II

Lecturers: Milagros Santamaria (Megatex.tech, MMLAW), Michael Paul Kremer (Geisenheim University)

1. Continuance in the applicability of blockchain in the Wine Industry:

1.1 Carbon foot print, water footprint → tokenization → access to new ways of financing + voluntary markets.
1.2 Use case: Kilimo, ReFI DAO
1.3 Metaverse and Augmented reality.
1.4 Leveraging blockchain to stop wine fraud
1.5 Tokenization in the Wine Industry: Current use cases

PROGRAMME

DAY 4 (OPTION A): RECENT REGULATORY POLICIES FOR WINE TOKENS

Lecturers: Prof. Javier Ibañez Jimenez (ICADE Comillas Pontifical University) and Prof. Ana F. Muñoz Pérez (University Rey Juan Carlos)

1. Session 1 (2 hours)

1.1 MiCA Regulatory Policies
1.2 NFT regulatory options

2. Session 2 (2 hours)

2.1 Pilot-Regime Regulatory Polcies
2.2 Other DeFi policies

DAY 4 (OPTION B): WORKSHOP - APPLICATION OF BLOCKCHAIN IN WINERIES

Lecturer: Mike Tango Bravo (OpenVino)

Abstract of Workshop: Applying Tokenization, traceability and transparency at a winery:
(Roles / impacted areas, Legal, Financial: Accounting / Taxation, Marketing, design, Certification, Viticulture and Enology, Logistics, IT – Web2/Web3)

1. How it works and Gathering data from the winery

1.1 Understand the winery's portfolio
a. What wines are they currently selling
b. Markets the winery is selling into now?
c. How does/will certification play a role?
d. What current loyalty programs exist? Consumer analysis?

1.2 What is the wineries initial motivation for TTT?
e. Tokenization
f. Transparency
g. Traceability

1.3 Winery stakeholders
h. Define roles:
i. Assess their knowledge/understanding/acceptance of blockchain/IoT/crypto

2. Defining the specifics

j. Tokenization: Which wine to tokenize?
k. Transparency: What BioDigital certifications and Extreme Transparency methods are desirable?
l. Traceability

3. Hands to work. Token creation simulation

4. Q&A