



Future of the Digital Economy: Business in the Metaverse

Organized by



Course Lead:
Bojan Andrejek

Business in the Metaverse

Learning programme goals?





Programme Topics

- High level understanding of Web3 concepts and industries
- Technology behind Web3, Blockchain and Metaverse
- VR/AR technologies
- Building communities in Web3
- NFTs and other tokenized assets
- Privacy and Security in the Metaverse
- Ethics of Web3 industry
- Regulation and Laws
- Defining your goals and choosing your blockchain
- and more....

Modules



Module 1 (5th December)

Introduction to Web3 and basic concept of Blockchain trilemma

Module 2 (7th December)

NFTs, Metaverse, AR and VR

Module 3 (12th December)

Building communities and communication in Web3 industries

Module 4 (14th of December)

Privacy, Security, Regulation



Bojan Andrejek

CEO @ MetaWorx LLC / Co-founder & CTO @ Elysium
Course Lead & Facilitator

About me

Bojan Andrejek is a CTO and Co-founder of The Elysium, a Solana-based GameFi open-world sandbox-like metaverse built on top of the Unreal Engine 5. Prior to moving into the Web3 space, Bojan had a fruitful 10-year-long career in digital production, filmmaking, and Web2. Bojan shifted his priorities to Web3 with the goal of transforming blockchain industries and markets while integrating IRL components into the metaverse, VR, and AR ecosystems.



office@metaworx.io



[@b_andrejek](https://www.instagram.com/b_andrejek)



+381 62 400 620

MetaWorX



Main Expertise:

- **Web3 Consultancy**
- **VR/AR development**
- **Metaverse development**
- **Other digital production**

Main Technologies:

- **Unreal Engine**
- **Ethereum, Solana & Polygon**
- **Other digital pipelines (animation, 3D modeling, optimization, etc.)**

MetaWorX



Projects & Involvement:

- **Elysium Metaverse (Solana metaverse)**
- **BoxHeads (Solana based VR Quest 2 game - inherited project)**

- **Onion Club (Polygon based Social dApp and more)**
- **Titans of Olympus (blockchain game in-development)**



Premier Web3 Toolset for businesses.

Our dream-like luxury virtual setting paired with a state-of-the-art features and tools will leave nobody untouched.

[Learn About Elysium](#) →[Whitepaper](#) →



HOME

NFTS

MINT

THE GAME

ROADMAP

ABOUT US

THE FIRST VR BOXING GAME ON SOLANA

 EXPLORE COLLECTION

 GAME EARLY-ACCESS



A Brief Introduction to Web3

Organized by



Course Lead:
Bojan Andrejek



Web 3 - WIP

Defining Web3



Web3 is a web-based technology that enables users to interact directly with each other over the internet, bypassing third-party intermediaries like web browsers or search engines. It's powered by decentralized applications (dApps) and blockchain networks such as Ethereum, Solana, Cardano, and more, which make it secure, transparent, and immutable. Web3 allows users to conduct financial transactions and other activities without relying on a trusted third-party intermediary. This opens up new possibilities for web applications and services, including web-based payments, lending, trading, and more. Web3 is the future of the web – ushering in an era of trustless transactions, data protection, and user control.



The web3 concept is a new way of thinking about the internet that restores power to the people by giving them control of their data and identities.



Trustless System

History of Web 3



Timeline:

- Web 1.0 (1990/1993 “www” - 2004)
- Web 2.0 (2004 - present)
- Web 3.0 (2014 - future)

History of Web 3



Web 1.0.
1990 - 2004



Traits of Web 1.0

- Centralized infrastructure
- Static pages only
- No user generate content
- Owned by companies

History of Web 3



Web 2.0.

2004 - The Present



Traits of Web 2.0

- Centralized infrastructure
- Dynamic content
- Era of UGC
- Owned by companies and other power players
- IP belongs to platforms
- Easily censorable

History of Web 3



Web3

2014 - The Future?



Traits of Web 3.0

- Decentralized infrastructure
- Dynamic content
- Relies mostly on UGC
- Owned by content owners through digital assets
- IP belongs to true owners
- Peer-to-peer communication
- Not easily censorable

Technology behind Web3



Blockchain is the core technology behind Web3, but it's not the only one.



ethereum



SOLANA



ripple

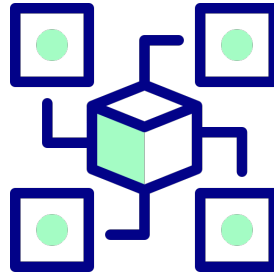


**HYPERLEDGER
FABRIC**

Technology behind Web3



Other important technologies and inventions:



Left to right: IPFS - InterPlanetary File System, Smart Contracts, DLT, Hardware Ledger, VR devices

InterPlanetary File System



IPFS is a peer-to-peer file-sharing system that makes it possible to store data securely and access it quickly from anywhere in the world.



Smart Contracts



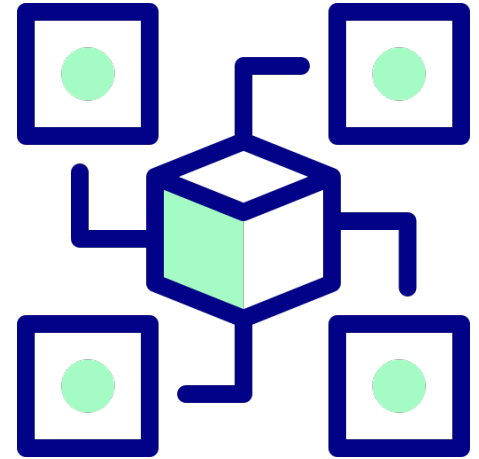
Smart contracts are simply programs stored on a blockchain that run when predetermined conditions are met. They typically are used to automate the execution of an agreement so that all participants can be immediately certain of the outcome, without any intermediary's involvement or time loss.



DLT - Distributed Ledger Tech



Distributed ledger technology is a decentralised peer-to-peer digital system for recording transactions between parties in multiple places at the same time. DLT deploys cryptography and consensus mechanisms to allow participants to share an immutable replica of the same ledger.



Hardware Ledger / Wallet



Hardware wallets securely keep a crypto user's private keys in offline or “cold” storage, meaning they are not connected to the internet, except when a user must briefly connect them to a computer to complete a transaction.



VR (and AR) Devices

Although it's not a core technology of Web3, VR and AR devices are considered a next-gen technology that will make Web3, embodied internet, a more immersive technology.





Web 1.0

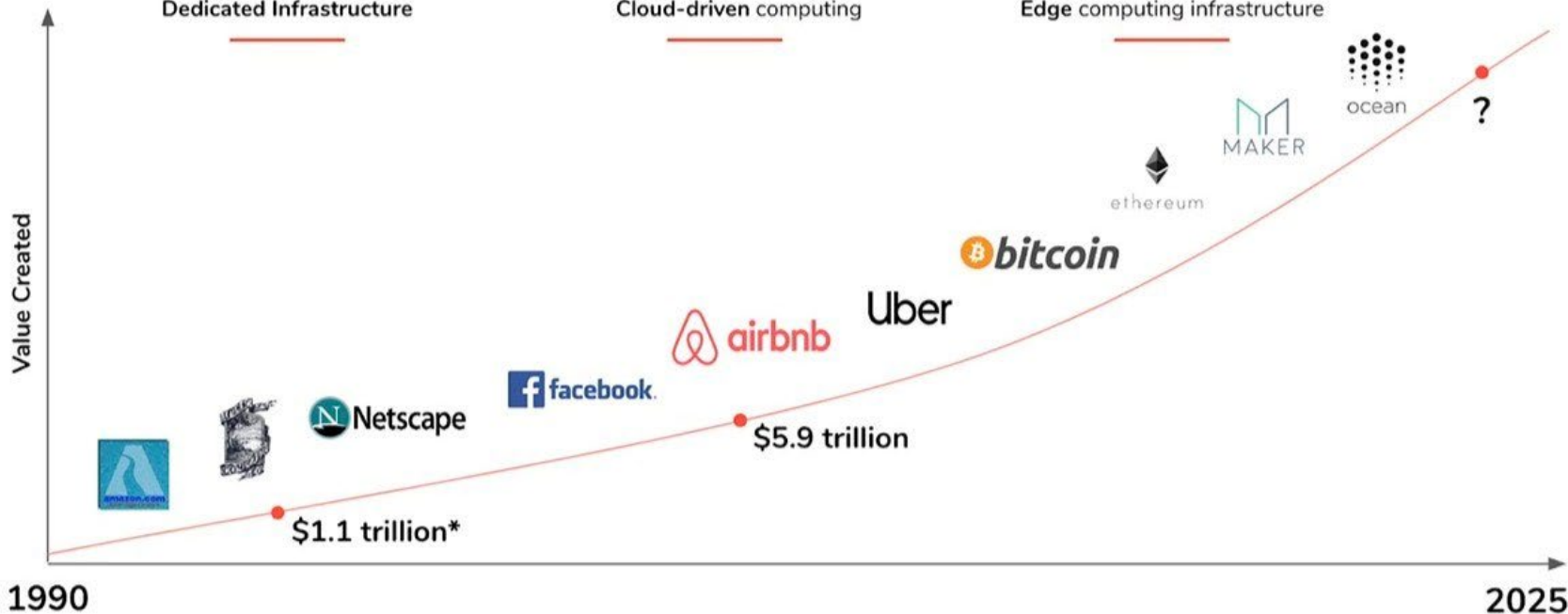
Green shoots of E-commerce
Desktop browser Access
Dedicated Infrastructure

Web 2.0

'Social' networks
'Mobile-first' always on
Cloud-driven computing

Web 3.0

AI-driven services
Decentralised data architecture
Edge computing infrastructure



* Internet companies market cap as of 2000

Importance of Web3



Web3 is revolutionizing the web in a number of ways. It gives users control of their data and identities, enhances privacy, and allows for peer-to-peer interactions without the need for third-party intermediaries. This makes it possible to create new kinds of applications that weren't possible before and opens up a whole new world.



Access Layer

Low-friction entry points for users to access web3

Wallet / Browser

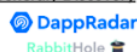


Onramp



Aggregators

General / Discovery



DeFi-Specific



Web2



Use Case Layer

User interface for interacting with infra / protocol layer

Gaming



Content / Social

Context



NFT



Financial Services



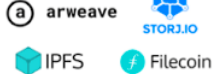
Infrastructure / Category Primitives

Interoperable building blocks that are highly reliable at doing one specific task; can be combined to create applications

Secure



Store



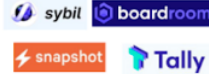
Analyze



Communicate



Govern

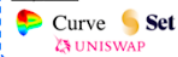


Identify



Transact

Buy / Sell



Borrow / Lend



Stake



Insure



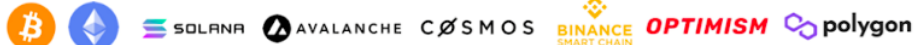
Market Makers



Protocol Layer

Underlying main blockchain architecture

L1s & Scaling Solutions



Bridge





Web3 is a disruptive technology philosophy and movement, embodied into various technologies that make our digital environment a better place in a long run!

Ownership



Digital Assets Ownership on Blockchain

One of the key benefits of using blockchain technology is that it enables users to securely and transparently own digital assets.

Non-Fungible Tokens (NFTs)

NFTs are tokens that represent unique digital assets. Unlike regular fungible tokens, which can be freely exchanged and are identical to each other, NFTs are unique and cannot be replaced.

Other Uses

Ownership over digital assets can be used for securing digital rights, tracking provenance, or creating decentralized marketplaces. The possibilities are endless and only limited by the imagination of developers.



Censorship Resistance



One key aspect of Web3 is its censorship resistance.

Censorship resistance is the ability of a platform to resist attempts by third-party actors to block or censor content or transactions. This is an important feature for many applications, especially those that deal with sensitive or controversial data.

Important: Not all Web3 technologies are censorship resistant so researching particular technology is always a must!

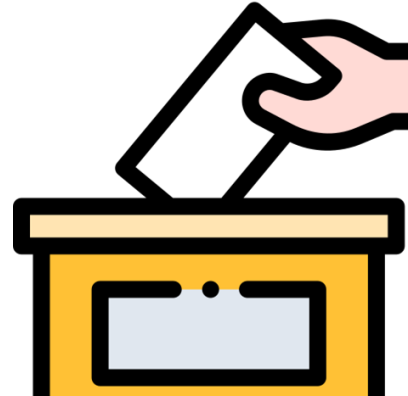


Decentralized autonomous organizations (DAOs)



A DAO is a decentralized virtual organization that is managed and operated by its members. These members can be located anywhere in the world and can interact with each other without relying on a centralized governing body or institution.

- Voting is enabled through governance tokens or NFTs
- DAOs are transparent and offer equal rights
- Although, DAOs are designed for equality, beware of the risk of power concentration




Digital Identity



Identity management is another important web3 application that is gaining traction in the blockchain space.

Login with MetaMask (or any other wallet) is something we will soon see on numerous websites.

Skiff

 Login via MetaMask

OR

Email

Password Show

[Log in](#)

[Forgot password?](#)
Don't have an account? [Sign up](#)

Fintech



Blockchain technology enables secure and reliable peer-to-peer payments without the need for a centralized third party. This makes Web3 payments fast and cost-effective, as well as more resilient to censorship or manipulation.



Limitations of Web3



Although Web3 has various advantages in its current state, there are still numerous limitations hindering its growth.

- Accessibility
- User Experience
- Education
- Centralized Infrastructure

Conclusion



- Web3 is a disruptive industry, trying to change many aspects of our digital lives.
- Its story is still unfolding, nobody really knows what it will bring.
- Web3 is a complex collage of many smaller industries working together with the same goal.
- Although blockchain is the core of Web3 technology, on its own it will not fulfill all the needs of the future.
- There are many opportunities and use cases in the Web3 - choosing your own path is of a paramount importance.
- Web3 has its current limitations, but we are only at the beginning.



THANK YOU
QUESTIONS?



The Sustainable City, Dubai



+971 4 347 5955



support@seeinstitute.com



fb.com/see.institute



@see.institute



@seeinstitute