Holopedia Tokens Hybrid

Project for the Holopedia community & organization

Abstract

Holopedia Tokens Hybrid supports Holopedia community in Holographic and 3D content generation and its adaptation to specialized displays allows Holopedia organization to create Holographic dApps (HoloApps) that utilize such content.

Holopedia Tokens Hybrid's HoloApps enable simpler integration of Holographic and 3D content into various types of displays, includes tools helpful for holographic and 3D content creation and provide a platform to build viewers and games to display and utilize this content.

Holopedia Tokens Hybrid serves a dual purpose as a platform that enables users to share, store and exchange content for holographic and 3D displays and for this content to be used in the HoloApps. Secondly, it is purposed to provide a payment system for emerging holographic industries.

Holopedia Project HP								
Architecture Holopedia			Organization Holopedia					
Organizations		Holarchies	Cloud HP		Holopedia	Holopedia Token		
Holopedia Org Flow Interactions	Holopedia Org Holding	Holopedia Dynamical Systems	DB HP EEG fMRI	Holograms Servers HP	HP Technology Information	AI HP	AI Algorithms HP	DLT HP

Fig 1. Holopedia Project holarchy

Introduction

The innovation sprung from the technological advancements in this modern age is beyond what could be imagined and the speed of new ideas and their implementations is ever increasing. In the most recent years, the spectacular rise of DLT based blockchain technology opened virtually unlimited possibilities for innovators and entrepreneurs to launch their ideas with a network based financial aid and new technological means. The world is changing the way problems are solved and we have the Blockchain revolution to thank for the amazing solutions. New technologies such as Artificial Intelligence (AI) , Internet of Things (IoT) and the DLT are proof that the solutions to the problems can be achieved.

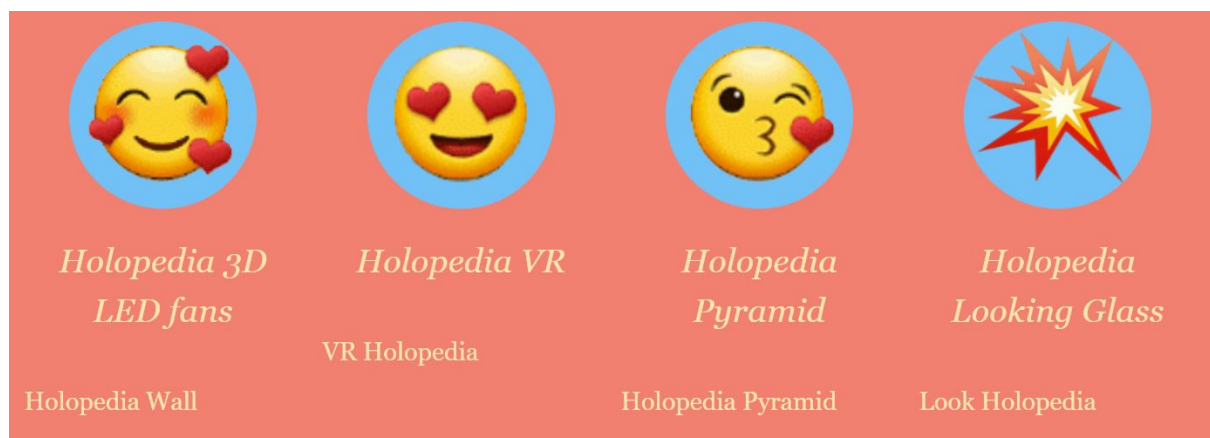| Holopedia 3D LED fans	Holopedia VR	Holopedia Pyramid	Holopedia Looking Glass
	VR Holopedia		
Holopedia Wall		Holopedia Pyramid	Look Holopedia

Fig 2. Holographic and 3D display technology examples

One of the rapidly growing technologies is concerning displays, where we are approaching the state of being able to visualize content approaching lifelike quality in the way that our brains have evolved to perceive the environment. Currently available displays range from 2D displays that create the 3D illusion (3D LED fan, Pepper's glass, Holotube), VR and AR technology that build immersion, multi angle displays (looking glass) and early prototypes of actual object visualization in 3D.

As the technology enabled the network based distribution and storage of virtual assets, the entire culture and organization around creating and sharing those assets emerged. Ethereum smart contracts provide suitable technology to facilitate exchange of these assets accompanied by an internal currency system. Holopedia Tokens Hybrid users will be incentivized to create, upload and exchange holographic and 3D objects of different kind by reward system with Holopedia Tokens.

Holopedia Tokens Hybrid is currently developing holograms oriented DApps (HoloApps) that will facilitate gamification of the activities around hologram content browsing, sharing

and use in specialized display devices. With HoloApps the users will be able to interact with the network and easily obtain Holopedia Tokens from activity on the site.

Market Consideration

The era of holography and 3D content is on its way to become ubiquitous and replace traditional display modalities. It has already paved its way in the advertising and entertainment industries, and as the technology matures, it will inevitably extend to distant virtual communication, prototyping assisting tools, medical procedures and medical diagnosis, treatments and trainings and simply as means to show information in the same way we are used today to view on traditional displays.

Fig 3. Iconic scene from the film "Star Wars: A New Hope" with Princess Leia Hologram that for years sparks imagination in hologram technology creators.

One of the considerations is that with the growing demand on holographic and 3D content, there will be a greater and greater need for network based infrastructure to create, share and preview such content.

Secondly, as the holographic industries will inevitably become a new standard displaying all sorts of content and it is highly likely that by that time cryptocurrencies based payments will be commonplace. That opens the possibility for a holographic industry specialized token to be the forefront to operate transactions within these industries.

One of the more rapidly growing markets is that of personal development and improvement of various aspects of life. There is a number of fields where external visualization training using 3D imagery has proven to yield better results than those when using conventional displays. From VR based exposure treatment in decreasing anxiety and treating addiction by nucleus accumbens and amygdala mediated limbic-regulated responses to rewarding stimuli to neurofeedback trainings where is has been recently shown that displayed content has a

significant impact on the training effectiveness and that 3D stimulation can have superior effect to 2D content.

Solution

Holographic & 3D content distribution and internal payments

Holopedia Tokens Hybrid has been created to serve as a payment method for holographic & 3D content that is shared among platform users. Holopedia project facilitates user based content and will reward users with Holopedia Tokens for various activities on the network including signing up, referring other users and uploading holographic & 3D content.

Further extension for Holopedia Tokens Hybrid's payments scope are the activities surrounding the holographic industry outside of the network, in the real world. As primary examples where crypto payments might have the greatest impact and usefulness are the tickets sales for entertainment industry such as cinemas and exhibitions and deals for the companies who wish to advertise their products in holographic form.

Personalized trainings

Holopedia Tokens Hybrid community of skilled content creators opens possibilities to expand knowledge about the effects of hologram and 3D displays based training programs and applications. HoloApps will provide the platform for such tools to be used within the network and tokens will serve the way to make internal payments.

Ethereum's ERC~20 smart contracts

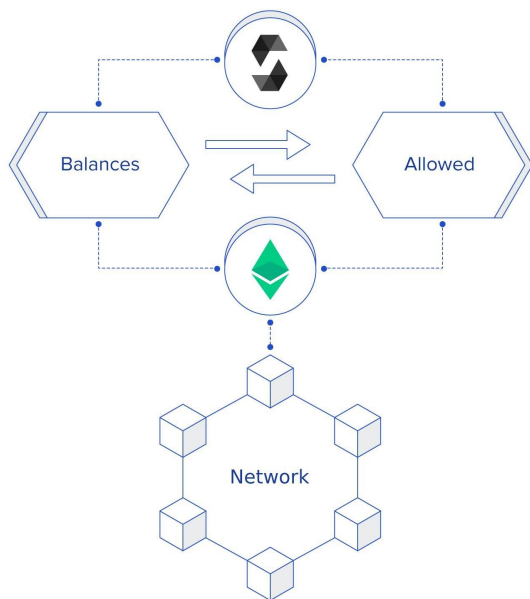Holopedia Tokens Hybrid ecosystem is built with tokens developed on Distributed Ledger Technology (DLT).

The implementation is made on the Ethereum network with ERC~20 standard, written in solidity. Tokens are synchronized across the entire network and the synchronization is handled by the Client Synchronization Protocol which is a secure mechanism the role of which is to update the server whenever any new transaction is made within the network. All new transactions within the network are automatically synchronized with clients that are connected to the network. The client is ready to introduce new transactions when first it is in sync with the network.

Fig 4. Schematic for ERC20 smart contracts

Our choice for ERC20 token standardization stems from the fact that it provides decentralization and tokens are not issued nor are they centrally regulated. It functions on the market as a cryptocurrency capable of value exchange on multiple platforms as well as integration of all its features on one platform. On top of that, Holopedia Tokens Hybrid provides HoloApps with which the users can synchronize their content on all of their devices and perform different activities on the network at any time.

Tokens distribution & exchanges structure

Holopedia Tokens Hybrid is developed as ERC20 smart contract and thus benefits from simple adoption. You can use your favorite Ethereum wallet and add the token either by the token name, or using a contract key that you can find on Etherscan.

Investment Opportunities

Holopedia Tokens Hybrid will start its assets offering as ICO with 8 funding stages, each containing a fixed number of tokens and ETH price.

Holopedia Tokens Hybrid shares the success among the contributors through rewards for shared content and the royalties paid to creators when their content is used in HoloApps, in addition to that, investors will share the project's profits and have voting rights inside the corporation. Voting rights give the investors the voice to shape Holopedia Tokens Hybrid for the future.

Team

Tadeusz Habdank~Wojewódzki, PhD

Founder and initiator of the Holopedia project, Tadeusz is the main source of inspiration in Holopedia Tokens Hybrid bringing expertise in DLT algorithms for holographic sets and for the payment concepts.
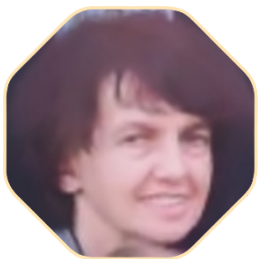
Seweryn Habdank-Wojewódzki, PhD

Seweryn's background in robotics and automation and proficiency in machine learning provides Holopedia organization resources to apply Artificial Intelligence AI for interactive holographic humanoid projects.

Monika Radwańska, MA

Monika is a professional editor in the movie industry and applies her capabilities in direction and scenography for holographic sets.

Bolesława Habdank-Wojewódzka, MA

Bolesława is an art teacher at the University of Warsaw and her artistic work is focused on creating consciousness~supporting artistic designs in personality training applications.

Felicja Habdank, MSc

Felicja has a rich experience managing organizations at both corporation and entrepreneurial level. In Holopedia she oversees the finance and accounting of the organization as well as the legal issues.
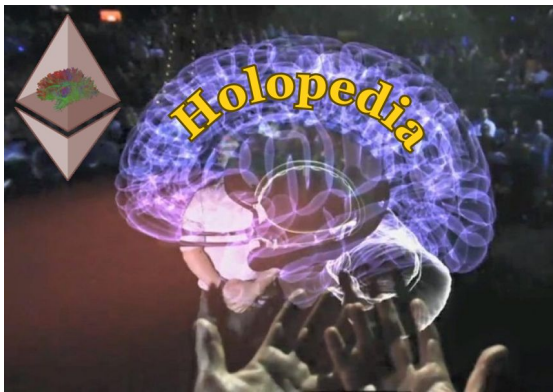
Mikkel Aagaard, BEng

Mikkel has extensive experience building web based applications and is translating his knowledge into DLT and hApps development and network's maintenance.

Partners

Two main partners that support Holopedia Tokens Hybrid are Holopedia and Holopedia Club. Holopedia aids with most of the practical issues concerning tokenization of the holographic industry from finances to growth and development, legal aspects and conceptualization. Holopedia Club's role is to realize basic objectives that Holopedia Tokens Hybrid's community and organization set for themselves in the terms of cryptocurrencies payments.

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