



# Somnium Space **Economy Paper**

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**Somnium Space** is an open, social  
& persistent **Virtual Reality platform**  
**built on the Blockchain.**

Buy land, build or import NFTs and  
**instantly use and monetize.**

Our universe is **shaped entirely**  
**by players.**





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The  
**VISION**

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# 1. The Vision



Our ultimate vision is to build an entirely new world for the next level of communication, e-commerce, entertainment and a place to live. We are building the platform for citizens to build on. Somnium Space is an Open, Social and Persistent Virtual Reality World, empowered by blockchain technology where everyone can buy land, build or import objects, use avatars and scripts, easily monetize their experiences and immerse themselves into a completely alternative reality. Virtual Reality is here, and the future looks amazing. Hardware has advanced dramatically with better headsets available at very affordable prices, haptic suits, finger and eye tracking and even VR motion platforms allowing you to take a free walk in VR from the comfort of your home. What was missing is the final and ultimate destination. Somnium is a place where you can come and experience the unknown, do the impossible, meet, work and have fun with people thousands of miles away in one universe. **We at Somnium Space are making that vision a reality.**

Practically, our long-term vision is to create a stunning and user generated virtual environment which offers a rich addition to reality. It will be packed with new and exciting possibilities that can be explored by thousands of people at the same time. Built as a cross-platform world from smartphone apps to desktop VR, Somnium Space allows people to experience one constantly expanding, seamless world shaped by users. Combined with an in-world economy on the blockchain, it provides a next step towards a true Metaverse experience.

We believe in a true virtual reality **Metaverse** and this is what we are targeting and building, not only on the technology and commercial level, but also on a philosophical level. We ask ourselves where **humanity will be in 2, 5, 10, but also 50, 100, 200 years, and how VR and Blockchain will change humankind as a species.**



# Somnium **TECHNOLOGY** 2

## 2. Technology



Somnium Space is available for all the major virtual reality PC VR headsets from Oculus, HTC VIVE, HP, VALVE, all Windows Mixed Reality headsets and other compatible major headsets. We are a VR world first and want all of our users to get the best Social VR experience that is available. Our native Builder has the most features in the Desktop where with our native assets you can build almost anything already now. Our WebXR platform SomniumWEB allows anyone to access each land parcel from any device with a web browser even in VR mode.

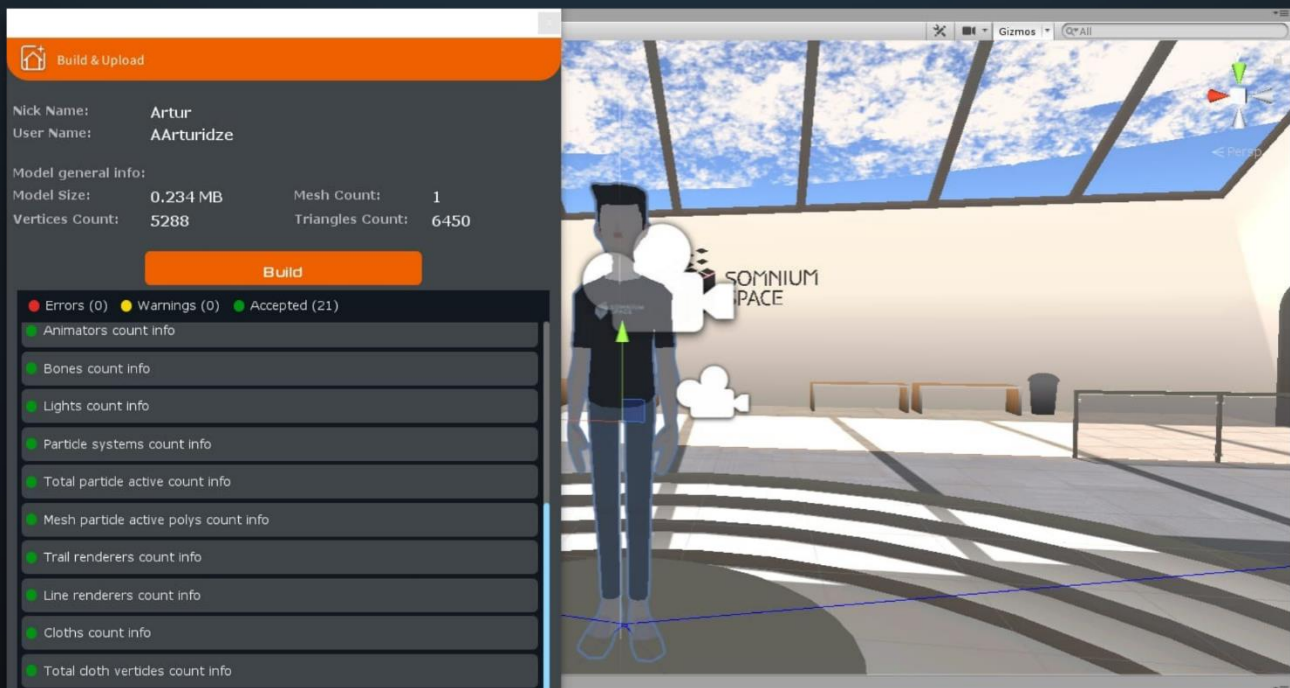


## 2. Technology



Somnium Space has developed UnitySDK to allow more advanced users to upload full body Avatars and complete scenes on to your land parcels inside Somnium Space. Our advanced SDK allows players to work with complete scenes, scripting and animations to fully enhance their experience. Finger tracking is also supported inside Somnium Space for further immersion. Full body tracking, lip & eye tracking are available inside our VR world. Features such as smell features from hardware such as multisensory masks or fans are also planned to be supported soon.

Our in-house developed unique server architecture allows thousands of players to be all in the same time inside persistent Virtual Reality world without splitting users into sub-servers or mirrored instances. This provides the ultimate level of immersion and allows true Ready Player One experience without ever experiencing a single loading screen.



Somnium Space Unity SDK Avatar Upload





SOMNIUM  
SPACE



Somnium Space  
**ECONOMY**

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### 3. Somnium Space Economy



Economies are the driving force of human endeavor, but they are mainly limited to physics and geography. Virtual Reality economies don't have ANY restrictions, so they mix well with real life because **geography is no longer an obstacle** for networking events, company meetings or teaching classes. Blockchain economy inside **Somnium Space EMPOWERS ALL GLOBAL CITIZENS**, no matter race, sex, wealth, political views and religion. The future will start with people using VR platforms to mimic or enhance real life but will grow into a completely new world for people to express themselves in new ways, new unheard of services and business models to emerge and for new companies to launch. In the past companies like Amazon and Facebook weren't created a few days after the Internet was born. The first stage of the internet was simply text and pictures but emerged into an interactive platform between users and companies. Same with blockchain and digital assets and services ownership, while today's solution are well suited for today's needs, hundreds of new solutions will pop in the coming months and years.

**We believe that Virtual Reality will play a key role in the development of human kind.** It will be a parallel world where the citizens are the owners of their digital assets and experiences. While there has been innovation in technology hardware, such as the transition from personal computers to mobile devices, it's hardly comparable to the transition from real life to virtual life. We're adding another dimension to the world with a feeling of a real presence that will have an immense impact on education, work and leisure!

Somnium Space VR platform is about socializing, playing, working, trading goods, creating content in VR and shrinking the world even more than technology has already accomplished over the past 30 years. We've already spent years laying the groundwork for our economy by making it truly decentralized and allowing users to truly own their digital possessions as NFTs, so that they have full control of what, how, and where they trade, use and utilize their belongings.

### 3. Somnium Space Economy



We also [bought the first real Tesla Model S car in virtual reality](#). And this is just the start. With the latest advancements in blockchain technology, especially on the Ethereum network, we found the optimal technology to build a strong and solid groundwork for our economy. The Ethereum platform allows companies to build and trade digital goods and services for a more powerful user experience that incorporates safety, privacy and encryption for true ownership of digital items.

This brings us closer to our goal of providing the best possible VR platform that gives all the power of ownership to its users. We are the first Virtual Reality platform to allow users to secure the ownership and authenticity of their creations.

Three cornerstones of our Economy:

- **Tokenization of virtual land**
- **Tokenization of digital assets and experiences**
- **Decentralized marketplaces**

Users are able to:

- Own and monetize their creations. Sell their items in the open marketplaces. Be a part of the Somnium Economy.
- Express themselves by creating, building and monetizing their land.
- Enjoy a stunning, constantly changing, persistent Virtual Reality world which can be explored by thousands of people at the same time.
- Tokenizing and selling their creations directly from within Somnium Space Metaverse.



### 3. Somnium Space Economy



Somnium CUBES (CUBE) is our in game currency based on the Ethereum blockchain (ERC20). The CUBEs make a valuable addition to our blockchain based economy and makes transfers between players as easy as possible. For typical consumers, imagine a virtual reality version of buying tokens at an arcade to play games. Before entering Somnium Space, Cube tokens will be useful to have when entering arcades and amusement parks or using race cars and teleporters. Artists can sell tickets for CUBEs and allow visitors to enter user generated museums or attend concerts. Producers will build and develop the interactive arcade games to accept CUBE tokens from customers.

*Disclaimer: Somnium CUBEs (CUBE) are an in game currency and not meant to be, or are designed as a tool, or financial instrument used for speculation or investment. Somnium CUBEs (CUBE) is a currency that fulfills needs for exchanging services and goods in a working economy inside a Virtual Reality World.*

#### Contract Info:

- Official ticker: CUBE
- Total Supply: 100.000.000
- **Utility:** All in-world transactions, land purchase / sale on OpenSea.io, renting, e-commerce etc. There will be continuous development of smart contracts to interact with Cubes to create drag-and-drop payment gateways in the builder, nearly free transactions in-world and very fast transaction speeds to create vr-commerce. Monetizing your land will not require the cost of a developer, you can do it yourself. Instead of building shopping carts to accept USD with credit cards for physical tokens, we're building smart contracts to help customers interact seamlessly with businesses inside of our virtual reality world. An Ethereum address holds ETH, Cube tokens and multiple NFTs (Ethereum ERC721 tokens), and side-chain tokens. This includes your Avatar token that you use to walk around in virtual reality. Cubes will allow



### 3. Somnium Space Economy



you to meet another avatar in Somnium and make them an offer to buy their avatar NFT on the spot. The avatar will end up in your wallet to use in-world and the Cubes will end up in the seller's wallet.

#### ● **Token information:**

<https://etherscan.io/token/0xdf801468a808a32656d2ed2d2d80b72a129739f4>

#### **Second Layer Plans - hybrid solution with Polygon / Somnium**

When frequent transactions are posted to Ethereum the network increases the gas fees making it most expensive to transact during the busiest times. Conversely, when transaction volume is low, the gas fees lower. Layer 2 solutions have been gaining popularity which also increase security and usability soon after. Matic has recently changed their name to Polygon and believes in free ETH transactions within their network. Users will be able to send ETH and Cubes to their same ETH address in Polygon, with the click of a button, to use the same ETH and Cubes on a different platform, similar to OpenSea. Somnium will make the process seamless for usability purposes. A few clicks on Somnium space along with an ETH transaction, will allow users to make thousands of free transactions. Finally, click a button and pay another gas fee to send you ETH, Cubes and NFTs back to the Ethereum network.

Now imagine thousands of avatars inside Somnium Space making free transactions with Cubes to buy NFTs from each other.

### 3. Somnium Space Economy



#### Somnium **WORLDS** use cases. Paying for experiences in **CUBEs**

World tokens are NFTs that can drag-and-drop onto land. Land tokens are filled with builds using the Somnium drag-and-drop builder software. World tokens are filled with interactive gaming experiences such as arcades, racing games, shooting games or casinos. Once the World NFT is fully developed and placed on a land parcel NFT as an arcade, for example, then all Somnium users can walk into your World that sits on your land to play the games by inserting Cubes.

Since each user can switch their Cube tokens from the Ethereum Network to the Polygon Network within minutes, they can play games in the Worlds without paying gas fees for each experience. Walk up to a pinball machine, drop the Cube token into the slot and play the game without paying gas fees.

#### Transferring NFTs inside our world by handing them over to another person from hand to hand

The Somnium Space economy is meant to be peer-to-peer to benefit from blockchain technology. With that in mind, two avatars can meet each other for the first time in virtual reality, complement each other on their avatar, clothing, and car, then decide to barter NFTs by trading them in-world or to buy each other's NFTs with Cube tokens face-to-face. There's no reason to move land NFTs to Polygon, but if you own, collect or create several NFTs that you plan to sell in the Somnium platform, it might be best to have them on Polygon to avoid fees when selling or trading them with other avatars (also owned by the same ETH address). Likewise, when your fungible tokens like ETH and Cubes are ready on Polygon, your avatar can purchase all NFTs on Polygon as well without paying gas fees.

### 3. Somnium Space Economy



- **Wearables** will be created by users for Cube tokens just like Avatars. They'll be shaped and molded to the user's best ability and taste, to be sold in Somnium to other avatars. Click a button to mint the wearables as an NFT on Ethereum or Polygon, then drop the NFTs into your land while showing them off in your VR store. You can also remain on the land as a customer service representative waiting for customers to arrive and see your NFT wearables for sale.
- **Tickets** can be created as NFTs as well, where only those NFT holders can access a certain land parcel. To everyone else that doesn't own the NFT ticket, they will simply see and hear nothing on the parcel while others enjoy an extremely fun concert or cryptoart auction.
- **Cars and other types of vehicles** are NFTs and already activated for use in-world, owned and operated by their owners only. If avatars can walk at 4 mph, cars travel at 25 mph and teleportation happens instantly, there's a certain cost that can be applied to each service based on convenience and travel speed. There are currently 50 teleporter NFTs and 5 car NFTs that work in Somnium. Everyone else walks at normal human speed. Imagine a few idle car NFTs sitting in Somnium not being used, where you can click to use the car for X amount of time for X amount of Cube tokens. Not only does the car become more valuable, the avatars have fun for the money spent while getting to their destination much sooner. Creation of other vehicle types as NFTs via our SDK will be enabled soon for a more enhanced experience and other venues of monetization for creators.
- **Teleportation HUBs** are NFTs owned by users who can place them on their land parcels as Public or Private. Public teleporters charge cubes for each use or for a monthly charge. The fees are pooled together and allocated each month to the 50 owners with the most activity and type of teleporter.

The more valuable teleporter is called the Indiegogo Founder's because it was sold during the Indiegogo campaign. These 25 teleporters receive 200%

### 3. Somnium Space Economy



revenue boost while ILO teleporters receive 50% revenue boost. Private teleporters are considered those that aren't yet placed on a land parcel to be used by the avatars, so they won't receive any of the pooled tokens.

- **Treasure hunts** can be mystery games or mazes that lead avatars to QR codes of ETH or Cubes. Once the avatar finds the QR code they can accept the token reward. Your avatar can also attend the event to personally hand the reward to the winner of a particular game.



## 3.2. The Marketplace / Monetization



Decentralized Economy means that every user is empowered to freely trade their items at any independent blockchain marketplace such as our partner platform - [OpenSea](#). On the other hand, for ease of use and greater integration possibilities Somnium Space will have its own version of marketplace inbuilt directly in our PC client.

The marketplace will be a centerpiece of our Economy as it gives power to creators, developers and all users. You can share and monetize your creativity, scripting and programming skills. Your creations are securely stored at our servers while crucial digital information alongside with ownership proof is stored on the Ethereum blockchain network.



Somnium Space PC Client Store Window

Are you an artist that can design things that others would want to use on their land? [Or a songwriter that wants their song streaming throughout virtual worlds?](#) Perhaps you're a photographer that wants their [images hung on walls of virtual homes](#), for a fee of course.

Each of your creations is a unique token on the blockchain that you personally own and sell to other Somnium citizens. Payments are directly transferred to the owner without a middleman.

## 3.2. The Marketplace / Monetization



### Karma

Karma level will play a very important role during your journey inside the Somnium Space universe. It will represent your social status and how others perceive you. Karma level will be calculated as a combination of many factors such as:

- How other players rate you. More respectable players with higher karma level will influence your karma in case they decide to rate you.
- How engaged you are inside the Somnium Space world. Total play time, world discovery rate, land ownership and active engagement in economic Transactions.
- Other factors such as building activity on the parcel, events organization & participation etc.

In future updates we'll be introducing an ability for Somnium players to earn Somnium CUBEs (CUBE), our in game cryptocurrency, based on their Karma level. Users that are engaged in the community and provide value and services such as tour guides, greeters, instructors etc. will have an ability to earn Karma Rewards that can be converted to Somnium CUBEs (CUBE) for instant real value.

### 3.3. Our Partners in Blockchain



Somnium Space Blockchain Technology



We partnered with OpenSea, the world's largest digital marketplace for crypto collectibles where you can buy, sell, and discover exclusive digital assets. This is a first step into a true Metaverse where digital assets can be interchanged and used freely between games and digital worlds without any interference from game companies. All of that is possible thanks to blockchain technology.

OpenSea is the largest general marketplace for crypto collectibles, with the broadest set of categories (120 and growing), the most items (over 3 million), and the best prices.

A core part of our OpenSea's vision is that open protocols like Ethereum and interoperable standards like ERC721 will enable vibrant new economies where users truly own their digital items. An open, liquid marketplace will help power these new economies. As such, OpenSea has tools that allow any developer to build rich, integrated marketplaces for their digital assets.

### 3.3. Our Partners in Blockchain



Our blockchain partners Polygon and OpenSea offer the best technology there is in their specific fields. OpenSea's online platform is the largest marketplace for online collectibles, while Polygon's unique second layer brings speed and close to zero transaction costs to our users for our in-game transactions.



GEMINI is the most trusted and secure digital currency exchange and custodian that allows customers to buy, sell, and store digital assets. It is a New York trust company that is regulated by the New York State Department of Financial Services (NYDFS) and was founded in 2014 by Cameron and Tyler Winklevoss.



We are one of the first CEE startups who was accepted and became part of [Microsoft for Startups program](#) which allows us to quickly scale our server infrastructure and have access to amazing talent pool of Microsoft corporation.



### 3.3. Our Partners in Blockchain



We became a member of Blockchain Game Alliance to contribute towards building a true and decentralized Metaverse.



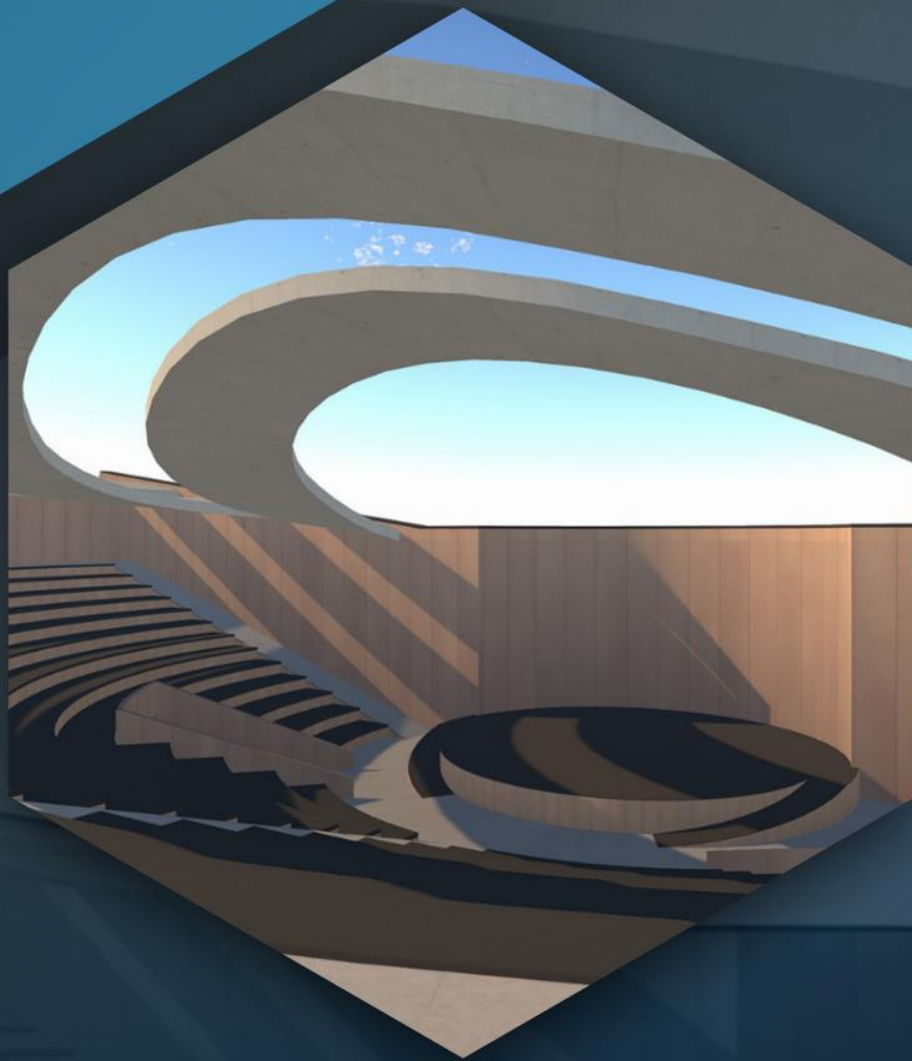
We work together to bring advertising revenues for our players. It's the best and fastest way to monetize your property, measure, analyze how your audience interacts in VR.



## 3.4. Monetization Examples and current business models

This is a short list of experiences and digital assets that are being worked on:

- Developers can sell tokenized digital assets and avatars
- Streamers can have their virtual studio inside Somnium Space.
- Content creators can showcase their virtual experiences and monetize them.
- Companies can create their store presence inside Somnium Space.
- Gaming developers can put short demos (or whole games/experiences) into Somnium Space into their Somnium **WORLDS**.
- Universities can build courses and experiences such as our fully immersive Planetarium.
- Creators can build anything and upload it via Somnium Unity SDK.
- Entrepreneurs can build and sell digital (or tangible) goods and offer services.
- Artists can showcase all their creations, from sculptures to 2D & 3D paintings.
- NFT collectors can present their collection on their land and trade among each other.



Frequently Asked  
**QUESTIONS**

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## 4. Frequently Asked Questions

### ● Why can virtual land have a value if it is limitless?

Scarcity of virtual land comes up from time to time and we do get this question fairly often. Virtual land is not limitless as many may think. There are real physical and monetary constraints regarding the size of a world which could be rendered by computers and number of users which could be at the same time in one persistent world. Moreover, land with the most attractive activities and creations will attract users and keep the value of the land growing over time.

### ● How do you Bid on OpenSea?

You don't need to specify an address. When you click "Buy Now", OpenSea and your wallet will work together to send the ETH from your wallet to the seller. You just have to click "Buy Now" and then approve the transaction that your wallet pops up. OpenSea sends the appropriate info to your wallet, then when you approve the transaction, your wallet broadcasts a transaction to the Ethereum network that sends the ETH to First Edition and the item to you (atomically! either the whole deal happens or none of it does). When the transaction is mined (which happens after 30-70 seconds usually and requires no action from you), the item becomes yours and the ETH becomes the seller's. From now on you see the token in your wallet.

### ● How does Somnium know what I own?

For this you have to link your wallet to your Somnium account. Please go to <https://www.somniumspace.com/> login to your account and click Settings. There you proceed by clicking Link your blockchain wallet link and follow the steps. This information is needed to make sure that you get all the rights and items you paid for.

**Somnium Space does not collect any personal passwords, private keys or ANY sensitive information about your blockchain wallet.**



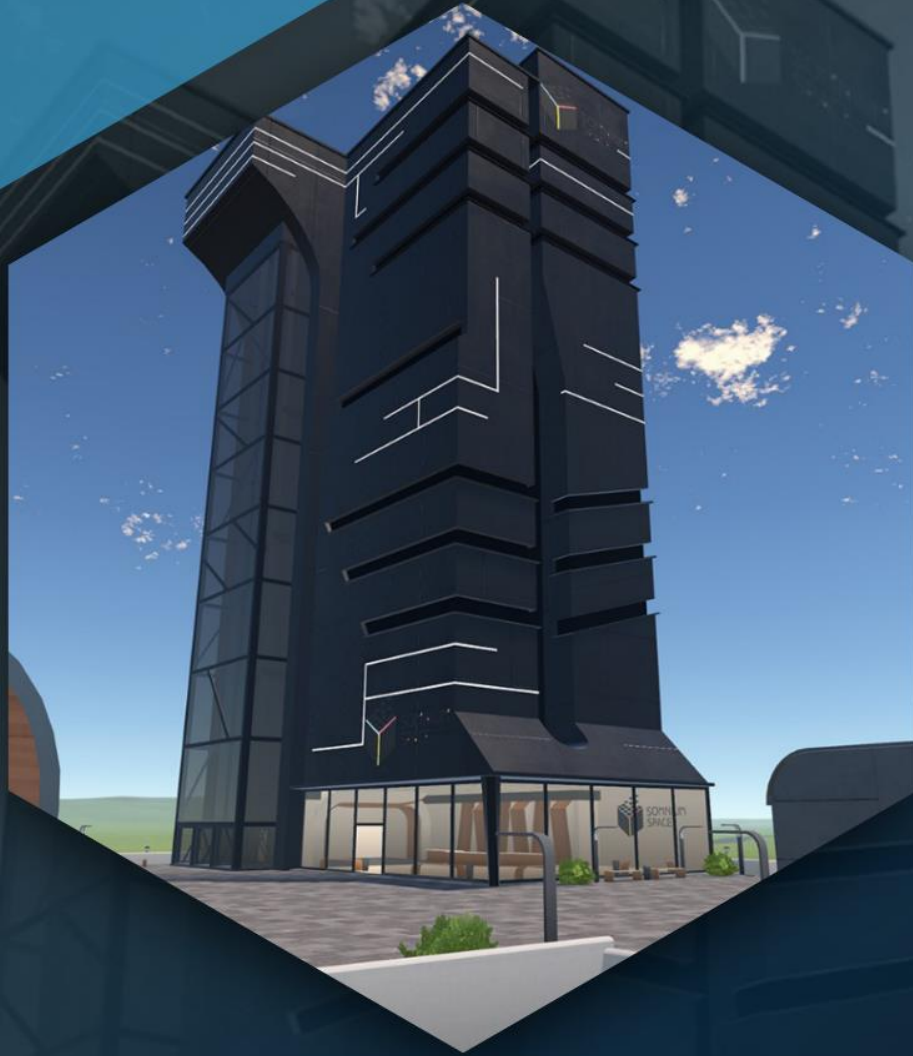
## 4. Frequently Asked Questions

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- **How does MetaMask work?**

A great video can be found on MetaMask [here](#)



Somnium Space  
**TEAM**

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## 5. Somnium Space Team Highlights



**Artur Sychov**

Founder & Chief Executive Officer



**Tatsiana Sychov**

Chief Financial Officer



**Fernando González**

Lead UI Designer



**Sasha LeBaron**

Community Manager



**Vadim Kupchinsky**

Lead Blockchain Developer



**Alexander Isaev**

Lead VR Developer

Real Life Avatars

# Somnium Space In-World Snapshots







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