



# SpaceXpanse Multiverse manifesto

## /WIP/\*

To set the intentions

*“I think that the crypto industry will have to take a more focused approach, shifting from hype cycles toward building real utility.”*

**Rahul Advani** - Ripple's APAC Policy Director

### Long story short:

We want to ***turn the [crypto] game around*** /pun intended/

By *putting the crypto technology back on track*, we are making a next-generation trustless blockchain platform, designed for rapid creation of metaverses, immersive user experience and easy development of complex decentralized applications, which we called SpaceXpanse Multiverse, where people can communicate, create, have fun, and which can be easily accessed by anyone from anywhere.

# SpaceXpanse Multiverse platform environment:

## Technologies

### ROD Blockchain

Open source

*Non-profit - Foundation operated*

- Main cryptocurrency /ROD/, [fungible](#) and [nonfungible](#) tokens /NFTs/ - creation, storage and transaction
- Decentralized DNS aka dDNS /derived from Namecoin/ which can serve .rod and/or other domains **/TBA/**
- [Digital IDs](#) for platform-wide trustless user identification which can even hold and transfer value in the ROD blockchain
- Secure [storage of data](#) in the blockchain itself.
- Decentralized Proof of Stake aka DPoS masternodes and peer-to-peer nodes for secure data storage outside blockchain by using SQLite /or other/ database engine **/TBD/**
- [Atomic trading](#) to exchange in-game assets (fungible game currencies as well as non-fungible items) in a trustless manner.
- [Human mining](#) aka Play To Earn model which allows parts of the mined block rewards to be "placed" inside an application, game or other, where users can pick/win them up and bank them to their on-chain address. **/WIP/**

**SpeXQL** - Decentralized database management system using ROD blockchain as medium for data transfer, interconnection and operations **/WIP/**

Open source

*Non-profit - Foundation operated*

- Implemented using both DPoS masternodes as Block Producers and peer-to-peer data storage nodes as Data Miners, which can store platform's data and files /public and private/

### **Side Channels** **/WIP/**

Open source

*Non-profit - Foundation operated*

- Programmable trustless interconnection inside the blockchain which allows two or more parties to interact through temporarily made [sidechains](#) in a very scalable, off-chain and almost real-time fashion.

## Development

**SpaceXpanse Metaverse Simulator** - A playground for testing different environments, tools and objects in the platform **/WIP/**

Open source

*Non-profit - Foundation operated*

- Real-time realistic solar system with major celestial bodies, terrains and environment
- Gravitational and other forces, affecting all objects accordingly **/physics/**
- Fast rendering with realistic level of detail **/TBA/**
- Node-based programming logic **/TBA/**
- Scenario programing through Lua - lightweight, embeddable programming language designed for scripting and extensibility
- Python support for modeling of mathematical and other scientific inquiries **/TBA/**
- Support for Universal Scene Description **/USD/** for collaboratively building 3D sceneries, intended for large-scale production. **/TBC/**
- Easy creation and editing of new solar systems, planets and satellites, vehicles and other multi-part and multi-seated usable objects
- Simplistic interconnection with any other elements of the platform environment through dedicated API

**SpeXID** - Digital Identification application for SpaceXpanse Multiverse platform **/WIP/**

Open source

*Non-profit - Foundation operated*

- An application built on top of the ROD blockchain, that turns each reserved name into a secure digital identity similar to [NameID](#)

**SpeX Library** **/WIP/**

Open source

*Non-profit - Foundation operated*

- Programmable trustless interconnection between the blockchain and third-party applications to help developers have useful environment for effortless development of DApps in the platform

## Community

**Metalog** - Decentralized Social Network /**TBA**/

Open source

*Non-profit - Foundation operated*

- Full-blown platform-wide social network in the blockchain, usable within every platform's metaverse and/or DApp, using SpeXQL to store user's private data and ROD blockchain for user's public data.

**MetaDAO** - Decentralized Autonomous Organisation /**TBD**/

Open source

*Non-profit - Foundation operated*

- Full-blown platform-wide application in the blockchain to serve as crowdfunding hub for user's projects within the platform and more

## Entertainment

**SpaceXpanse: Wanderers** - A space exploration game in its own metaverse /**TBA**/

Closed-source

*For-profit - Legal entity operated*

Real-time Massive Multiplayer Open World Sandbox game with realistic look, physics and economics

- Developed on top of SpaceXpanse Metaverse Simulator
- Made with Unreal Engine 5
- Sophisticated gameplay: Player versus Environment aka PvE /possible addition of PvP/, massive near-real economy, tactical combat and strategic skills development
- In-game communication in real time /through Metalog/
- Creation and customization of avatars
- NFTs for ownership of land, objects and goods
- Artificial intelligence for automation of the gameplay /**TBD**/
- VR gaming

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*Further sophistication of the subject is covered in the [Whitepaper](#).*

*To get a sense of the timetable and completeness of these intentions, visit [Roadmap](#).*

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## Legend

**WIP** - Work in progress

**TBA** - To be announced

**TBC** - To be confirmed

**TBD** - To be determined