



## **XPRIZE Community Grant Milestones 3 & 4 Submission Request for Feedback before Resubmission**

Dear Casper Team:

During our first attempt to submit Milestones 3 and 4 of the XPRIZE Grant, the following additional information was requested:

1. Technical Vatom specs
2. Explanatory text as to where the build is going and what is built
3. Figma

Originally, the following was provided in the first round submission for Milestones 3 & 4:

### **Milestone 3**

- [Milestone 3 Brief Explanations](#)
- [Vatom- XPRIZE Agreement](#)
- [Vatom Information Security Policy](#)
- Videos:
  - [Account Creation](#)
  - [Payment Setup](#)
  - [Spaces Demo](#)
  - [Wallet Demo 1](#)
  - [Wallet Demo AR](#)

### **Milestone 4**

- [Milestone 4 Brief Explanations](#)
- Videos:
  - [Payment Setup](#)
  - [Spaces Demo](#)
  - [Wallet Demo 1](#)
  - [Wallet Demo AR](#)

To satisfy this resubmission, we now have attached the following documents and expanded explanations below:

1. Explanatory text as to where the building is going and what is built.
  - a. The journey that took us through competitive analysis vs. Web2 solutions and the three core differentiators that ensured XPRIZE's buy-in on a Web3 path
  - b. Additional user experience enhancements enabled by customizing mature platforms and systems rather than coding something new from scratch
2. Technical Vatom specs with short explanation
  - a. Baseline Vatom functionality
  - b. Customizations and enhancements for XPRIZE
  - c. Future extensibility via Vatom's Spark SDK
3. Figma for the current UI design & user journeys
4. Project management log demonstrating coordination of multiple contributors and obtaining the buy-in of XPRIZE executives and board

As XPRIZE, Menagerie, RampRate and Vatom began this project, it quickly became clear that this was an incredible opportunity to build a next generation community platform leveraging the power of the Casper Blockchain, Vatom's virtual space / wallet / NFT technologies and the Menagerie playbook for community governance.

The process began with an analysis of what the ultimate offering for XPRIZE and communities in general could engage, incentivize and sustain groups of people with common goals and interests. From here we began an extensive analysis of the current landscape of Web2 technologies such as Slack, Discord, Teams, WhatsApp, and WeChat because XPRIZE's goal is ultimately to build the best community infrastructure, not solely predicated on forcing a Web3 paradigm.

It soon became clear that there was a fundamental weakness in all of these existing Web2 solutions that introduced significant inefficiencies and reduced the productivity and potential of their communities. Specifically, two persistent gaps emerged across the communities we studied:

1. Buried and poorly organized information
2. Lack of visible community-specific reputation
3. Inability to support a wide range of financial and non-financial rewards.

For example, a Discord chat may start with small talk and then someone mentions an event or puts in a proposal or vote or offers a resource to the group. After this, more small talk or tangential conversation may ensue. Days or months later, someone in the group would never remember that there was an important vote that is ending tomorrow or that there was a resource offered up that they could use, etc.

Additionally, the current set of technologies is missing a foundationally integrated concept of reputation. Reputation that is specific to a certain community and can only be earned through real contribution. Reputation that can be staked to prove that someone believes in something and they are willing to risk something that requires significant time and effort to attain.

Finally, having a platform that integrates tokens and NFTs into the system as a first class feature to reward positive contributions - and not an afterthought plugin - will support the long term sustainability of a community that is able to earn, spend and exchange value with each other and the outside world. In order to succeed, communities need to eliminate the hard boundaries between paid staff and unpaid volunteers - ensuring that valuable members don't drop out because they can't afford to contribute.

After defining the goals, analyzing the competitive landscape and identifying current pain points in existing community platforms, we began specifying a solution. The vision of the solution involves a communication platform that can better organize the types of data flowing through it. It also includes reputation and incentivisation features that we believe address the weaknesses of existing offerings and justify the Web3 approach.

In specifying the solution it became clear that we could leverage the existing technologies of Vatom to accelerate the project by years and reduce costs significantly. Rather than starting from scratch, the solution is able to integrate Vatom's broad set of Web3 technologies (Smart NFTs, Metaverses, Wallets and more) as the baseline platform. This ensured that we could then focus more of the custom development effort on implementing the three big differentiators of this community platform that will not only fulfill XPRIZE's goals, but serve as a template for hundreds of future communities:

1. Auto-indexed conversations;
2. Dynamic reputation tracking;
3. Built-in reputation-based rewards

The reuse of existing Vatom functionality also enabled us to invest resources in going from acceptable to best-in-class across many user experience dimensions - from allowing multiple authentication mechanisms to better fit user workflows, to supporting a variety of rewards mechanisms to ensure regulatory compliance across all global jurisdictions.

Vatom has spent 7 years and dozens of millions of dollars in development. Its current investor valuation exceeds \$220m. Vatom's solutions are currently in use by many of the world's biggest organizations such as Google, Pepsi, Procter & Gamble, Deloitte, iHeart Media, who often pay 7-figures for use of the platform, which we have weaved into each milestone as a value exchange for the operating system.

These companies leverage Vatom to bring communities together in unprecedented ways. They license the software for hundreds of thousands of dollars and have been experiencing material improvement in brand visibility and user engagement that had not been possible previously. With such a significant stack of proven technologies and a world class software development team, it has become clear that building on Vatom's platform will enable this project to launch at a far more advanced level than starting from scratch.

Based on these conclusions, Vatom has been working to evolve its core offerings, and its open source counterweight, toward the goals of this project. This includes API enhancements, generalizing the Universal Wallet GUI, architecting the plugin system to allow for the necessary abilities, implementing next generation profiles to handle advanced reputation management and integrating with the Casper Blockchain. The detailed specification for the user experience of the project is currently being locked down and the next phase of development will begin shortly.

Over the last few months we have made tremendous progress on taking a set of generalized objectives, a variety of visions and multiple organizations and produced and solidified a potentially huge opportunity and clear solution. We are extremely excited, motivated and working hard as we move forward on improving the most popular consumer technology in the world (messaging) to empower groups of people to be more engaged and productive.

# Workstreams in XPRIZE Project

The following list details the work that has been done and is in process that is relevant to this project. These features and abilities provide the infrastructure to support the platform under development:

## User Identity & Data

- Authentication Mechanisms
  - Passwordless - email and/or telephone
  - Social Logins: Facebook, LinkedIn, Google, etc.
  - Federated SSO - Okta, AzureAD, etc.
  - Web3 - EVM compatible chains, Solana (Phantom), WalletConnect 2.0, etc.
- 1st party and 0-party data
  - User data sharing via consent flow
  - User managed data tracking, sharing, and revocation tools
  - Community defined user information collection schema definition and management
  - Jurisdiction compliant user data at rest and transit
  - Legally compliant - GDPR, CCPA, etc.
- IdentityKit
  - Roll out a Web3-ready authentication system for your app with just a few lines of code.

## Vatom App

### Wallet

- Custodial & Non-Custodial EOA Wallets for EVM chains, Solana, Casper, etc.
- Universal NFT Viewer with support for:
  - Basic NFTs - Images, Video, and 3D (GLB)
  - SmartNFTs - Gifts, Games, Coupons, Interactive & Programmable objects, Polls, Quizzes, etc.
  - Multi-chain support - plus, off-chain NFT support.

- Fungible Tokens & Loyalty Coins
- Reputation Tokens & Badges
- Search & Wallet Lookup via Address Book
- Allowl API - Token Gating framework and ready-to-use API
- The Know-Your-Customer (KYC) check primarily applies to financial transactions on our platform, especially for amounts that exceed specific thresholds. Payouts on our platform are processed through Stripe, and all funds are deposited into a bank account. In accordance with the AML Act established by FINCEN, all banks are obligated to conduct KYC checks on their customers. Therefore, by utilizing Stripe and partnering with banks, our platform ensures and facilitates KYC checks for customers who anticipate receiving payouts.

## Community

- Topic & Chat-based communities per business/DAO
- Multiple Communities per business/DAO e.g. For XPRIZE:
  - Climate + Energy,
  - Food + Water + Waste,
  - Health, etc.
- Multiple Spaces (rooms) per Community for better organization
- Go beyond text-based communications with Audio & Video services
- Virtual Event Space per room (powered by Vatom Spaces)
- User Presence API - online, offline, DND, etc.
- Deep wallet services integration
- Reward Members with Loyalty Coins (and badges)
- Moderation tools (choice of community driven and centralized)
- Advanced Role and Community Management tools

# Extensibility via Vatom's *SparkSDK*

Vatom, is committed to providing businesses and organizations with top-notch capabilities and tools to build thriving communities. While Vatom will custom-develop solutions that fit the XPRIZE community's needs, it also understands that the best platforms ensure that a community can leverage the creativity and contributions of brilliant people who are already in the ecosystem through a developer-friendly plug-in system that allows XPRIZE and other users of the system to take their communities to new heights!

With Spark, developers in client organizations and permissioned communities they sponsor have the opportunity to add an extra spark of innovation and functionality to your community infrastructure. Vatom's goal is to empower every permissioned community by offering an **open-source plug-in interface and associated SDK**, allowing partner communities to fully leverage the potential of Spark.

Here are just a few examples of the plug-ins that XPRIZE, its community members, and future users can create using the SparkSDK:

1. Custom Proposal Management: Tailor your community's proposal management process to suit your specific requirements. Enhance collaboration, streamline decision-making, and unlock the full potential of your community's ideas.
2. On-/Off-chain Voting: Take control of your community's voting mechanisms with a custom on-/off-chain voting plug-in. Seamlessly integrate blockchain technology or implement unique voting algorithms to ensure transparency and fairness.

## Experiences & Community Dashboards

- Use ExperienceKit to build and deliver custom experiences all within the Vatom Wallet app
- Use ExperienceKit to build custom community dashboards - available to all the community members
  - Show Reputation score
  - Proposals over time
  - Voting results
  - Fund allocation and use results and scores, etc.

## Other

- Notification Services (Push, In-App, Email, and SMS)
- Available via web-based PWA app
- Native App (iOS & Android)
- Embed Wallet, Experiences, and Community within your app using our WalletSDK!
- Chrome extension (Coming Soon)

## NFT Studio

- No-code NFT Creator tools to create and distribute NFTs to the community members.
- Gamify the earning of a NFT token based on reputation, challenge, game, etc.
- Create SmartNFT-based campaigns using the Experience Builder
- Out of the box - Business and Community-specific Analytics Dashboards

## Community Management & Loyalty Management

- Easy-to-use Community Management tools like Member Account Management, Member Look-up, etc.
- Explore Community Members and create Segments based on member attributes
- Build a following (loyalty) by leveraging the built in messaging systems or by rewarding members with loyalty coins.

## Spaces

- Web-based 3D Virtual Events
- P2P Audio and Video services
- Collaboration tools
- Stages - Host fireside chats for community members with panelists
  - Mic management
  - Avatar video
  - Screen sharing
- 3rd party avatar systems via plug-ins e.g.
  - Ready Player Me



- Out-of-box support for multiple regions within single space
  - Lock regions via Token Gated access
- Emote by throwing emojis
- Role-management: Space Admin, Host, Designer, etc.
- Platform-wide User Presence System (APIs and SDKs available)
- Space Authorization (Security)
  - Password-lock
  - Token Gated
  - Guest-list based access

## Developer Ecosystem

- Developer Portal to access SDKs, APIs, and CLI. (developer.vatom.com)
- Developer Marketplace: Buy and Sell plug-ins written by 1st & 3rd party developers
- Firehose: Get events from across the platform to 3rd party data warehouse or to build custom integrations with the platform

## Other Standards & Compliance

- SOC 2 Compliant
- PCI DSS Compliant

# XPRIZE Project Interface and User Journey

The following mock-ups show some of the XPRIZE branded screens of the platform under development.

1. Figma (from Xprize team)

Welcome Screen



Sign in

eg: joe@email.com/012345678

send code

or

MetaMask

Phantom

Slack

Facebook







Google

LinkedIn

TERMS OF USE  
By accessing and using this App you agree to be bound by the  
terms and provisions of this [agreement](#).

Organizations

ORGANIZATIONS

-  XPRIZE Foundation
-  Minderoo Foundation
-  PG&E
-  Alana Foundation
-  Gordon and Betty Moore Foundation
-  VATOM



Home




Communities












Wallet

Communities

 XPRIZE Foundation

Communities

-  Carbon Prize
-  FTNB Prize
-  Wildfire Prize
-  Rainforest Prize
-  Prize Ideas
-  General
-  Volunteering
-  News
-  Avatar Prize



Home







Communities



Wallet

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Latest Prize News



Work (4)


Files (6)

Topics

Polls

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Wednesday, April 26



✓✓ Brooklyn Simmons 4/12/23 08:41 AM

The greatest number and value of deals on the deal hub came from CO2 Removal followed by point source capture. And within that direct air capture was strongly represented.


7



✓✓ Dianne Russell 4/24/23 02:51 PM

The Innovator Index continues to cover a wide range of solution types, although this year's report shows the carbon removal sector is taking a growing slice of the pie.


28



✓✓ Eleanor Pena Yesterday 08:55 PM

The combination of CO2 Removal + Conversion was the most common, being reported by a quarter of companies.


12



✓✓ Ronald Richards Today 08:12 AM

Since the Circular Carbon Network began collecting data, we have tracked a positive trend toward increased investment. In 2022 alone, the Circular Carbon Deal Hub tracked 175 Deals amounting to \$2.47B in total investment opportunities.

3



✓✓ Courtney Henry Today 10:25 AM

Over half of the companies on the Index are pursuing CO2 Removal followed by nearly a third working on CO2 conversion.

34







Send a message



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Latest Prize News



Work (4)


Files (6)

Topics

Polls

...


Wednesday, April 26




✓✓ Dianne Russell 4/24/23 02:51 PM

Over half of the companies on the Index are pursuing CO2 Removal followed by nearly a third working on CO2 conversion.

28




Dianne Russell Over half of the companies on the Index are pursuing CO2 Removal...




✓✓ Eleanor Pena 4/24/23 05:44 PM

I really haven't seen any of that in my current sector. Barely any discussions happening. Definitely need more attention.

1




Eleanor Pena I really haven't seen any of that in my current sector...




✓✓ Dianne Russell 4/25/23 07:12 PM

I agree, based on the conversations I've had with many folks, it's a similar situation in a lot of corporations. On the bright side things are picking up.



Dianne Russell Over half of the companies on the Index are pursuing CO2 Removal...



✓✓ Jerome Bell 4/26/23 08:18 AM

Our company was lacking in that regard until last year, but now a whole department on CO2 was formed, that tries to implement latest best practices into our operations.



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

Send a message



# Work

< Latest Prize News     :

Work (4) | Files (6) | Topics | Polls | ...

Code needs to retrieve information from a public API and store it in a DB.  
Deadline: 4/13/23   Bids: 54





✓✓ Leslie Alexander Yesterday 04:15 PM

**CAD design @ Remote**  
In need of professional CAD design for a sensor enclosure, that can be 3D printed. Aprox. 5"x5".  
Deadline: 5/1/23   Bids: 12







✓✓ Jane Cooper Yesterday 04:15 PM

**Academic Proofread @ Remote**  
Need a white paper proofread. Topic is in bio-chemical engineering. 23 pages, ~1k words.  
Deadline: 5/12/23   Bids: 43







✓✓ Pedro Huard Yesterday 04:15 PM

**Organize Event @ Atlanta**  
Looking for an event organizer in Atlanta, for approximately 250 people. Details attached.  
Deadline: 5/20/23   Bids: 20

 Send a message 



# My Work Only

< My Work (3)     :

Work (4) | Files (6) | Topics | Polls | ...



✓✓ Ralph Edwards Yesterday 04:15 PM



**Code-Python @ Remote**  
Need a bit of code written in Python. Code needs to retrieve information from a public API and store it in a MSSQL DB.  
Deadline: 4/13/23   Bids: 54



**My Bid**  
I can likely complete it within a week. Can share the code in a private GH repo when done.  
Pay via: Zelle  
Deliver by: 4/20/23  
Reward: \$480



✓✓ Leslie Alexander Yesterday 04:15 PM

**CAD design @ Remote**  
In need of professional CAD design for a sensor enclosure, that can be 3D printed. Aprox. 5"x5".  
Deadline: 5/1/23   Bids: 12



**My Bid**  
I can complete it and send you the CAD file within 5 days.  
Pay via: Zelle  
Deliver by: 5/6/23  
Reward: **\$250**



Home



Communities



Wallet

Add Work



### Create Work



Carbon Prize \ Ground Capture

Title

Description

Deadline: 4/26/2023 12:00 AM PT

Amount: (leave blank for open bidding)



Allow Vote



Attach your bid documents

Next

Add Work



### Review Work Post



Carbon Prize \ Ground Capture

#### Academic Proofread @ Remote

Need a white paper proofread. Topic is in bio-chemical engineering. 23 pages, ~1k words. Will share a Google link once a bid has been approved.

Deadline: 4/26/2023 12:00 AM PT

Open bidding.



No attachments.



Publish

# Project Management (RampRate)

In relation to the active milestones of the XPRIZE Grant, which have been in progress since the grant's approval by DEVxDAO and Casper, RampRate has continuously driven, project managed, and supported the project in a variety of ways including fostering discussion & ideation, driving action, and managing cross-functional teams.

Per the contract between XPRIZE and RampRate, our key role with regards to Milestones 3 and 4 was recruiting and overseeing a third-party, self-sovereign, Web3 NFT identity platform to manage user identities in the PROJECT FUTURE community.

To answer this objective, RampRate recruited Vatom as the main subcontractor for this engagement and oversaw an evolution of its product roadmap - adapting its Web3 platform from virtual spaces and NFTs to a true community focus and incorporating Casper's blockchain.

Vatom's recent clients include organizations such as Pepsi, Google, Samsung, Toyota, P&G, Intel, Verizon, and many other household names. Vatom is very excited to bring together its years of experience with such major companies in order to advance the fundamental goals of empowering communities to be more efficient, motivated, sustainable and productive.

The following illustrates some of the progress accomplished so far:

1. RampRate helped XPRIZE design its grant application in a way that would entice Vatom to participate in the project
2. RampRate drafted the XPRIZE - Vatom contract in consultation with both sides
3. RampRate coordinated and facilitated numerous meetings over the course of 6+ weeks to substantiate a mutual understanding and agreement of the scope of work on both the XPRIZE and Vatom fronts and arrive at a final agreement in principle
4. RampRate coordinated and mediated multiple versions of legal redlines to finalize documents for the approval and signing process
5. RampRate ensured participation of all the core parties at the launch event in WEF and drafted the launch press release to ensure the project garnered Casper significant publicity and goodwill
6. RampRate ensured ongoing collaboration between all project participants via coordination and facilitation of 3+ video conference meetings per week for the duration of the contract to date
7. RampRate oversaw completion of action items and delivery of feedback among 3+ cross-functional teams
8. RampRate transcribed records documenting discussion and ideation and tracked progress, blockers and work-arounds on action items

9. RampRate managed evolving timelines and expectations on deliverables and reviewed cycles from each party on an ongoing basis
10. RampRate created the summary report to the sponsor and DEVxDAO reflecting progress, and obtained confirmation from all project participants that this was accurate
11. RampRate oversaw the milestone submission process and worked to resolve DEVxDAO's feedback

The above level of effort was summarized in point 1 of the Milestone 3 submission document titled "Milestone 3 Brief Explanations" as per below:

A 3rd party self-sovereign web 3 NFT identity platform is contracted to manage user identities in the PROJECT FUTURE community

- Vatom has been formally contracted to manage user identities in the PROJECT FUTURE community, see attached agreement for evidence of the contract being in place.
- Ability to create an account that will be used to manage user identities for the wallet and the metaverse has been created. The demo video of "Vatom Account Creation" shows this in detail.

While the aforementioned responsibilities remain the only required commitments for RampRate outlined in the project contract under Milestones 3 and 4, RampRate has continued to propel additional Milestones. RampRate has worked with XPRIZE, Vatom, and relevant legal entities to drive progress for Milestones 2 and 5, in parallel with the completion of Milestones 3 and 4.

Milestone 1 was largely completed prior to the project receiving approval from DEVxDAO and Casper, with RampRate being the primary drafter and coordinator of multiple rounds of revisions. After the grant was formalized, the project kicked off with Milestones 2, 3, and 4 as the initial goals, and were quickly followed by efforts toward achieving Milestone 5. These efforts were initiated and driven by RampRate's project management team for efficient time and resource utilization.

Milestones 2-5 require sophisticated coordination and involvement from the RampRate project management team. RampRate oversees the movement and progression of multiple deliverables simultaneously, and serves as a liaison for removing blockers and connecting pathways for teams of varying backgrounds and specialties to collaborate successfully. Tech design and development teams at Vatom work to meet timelines for development of each technical output. The XPRIZE tech team reviews these outputs, provides elaborate feedback and contributes to ideation, while executive leadership confirms each development of the

build out. RampRate supports these cross-functional teams to work seamlessly through overall coordination of documents, deliverables and progress tracking, follow up and correspondence with expert legal counsel.

Each Milestone progresses simultaneously and involves, at minimum, the following level of effort and engagement from RampRate on a weekly basis since November 2022:

1. Ensure direct collaboration between the entities through coordination and facilitation of 3+ video conference meetings per week for the duration of the contract to date.
2. Oversee completion of action items and delivery of feedback among 3+ cross-functional teams.
3. Transcribe records documenting discussion and ideation and track progress, blockers and work-arounds on action items.
4. Manage evolving timelines and expectations on deliverables and review cycles from each party on an ongoing basis.

In summary, RampRate has provided 6+ months and 1,000+ hours of consistent leadership and expert project management services for the XPRIZE Community Project since the project kick-off (not including Milestone 1 efforts), affirming the appropriate allocation of funding to RampRate.