

**Team: API LatAm**

**Period: 1 Nov 2022 - 31 Jan 2023 (3 months)**

**Cycle: #3**

**Amount Requested: 15,000 USDC**

**Destination: 0x13B06db56A686271a73C39B8d8C9dba13B4DF567**

**Summary:**

The API Latam team will contribute to the narrative, interpretation and growth building of API3 in LatAm and the broader Web3 ecosystem. Especially given [API3's unofficial roadmap](#), this team feels it's "all hands on deck." API3's word needs to be pushed to the Web3 communities consistently and as much as possible. *This API LatAm team is qualified to continue. For this past cycle, this team was responsible for ~25% QRNG's total calls, and 88% of Arbitrum calls, respectively, as will be described in this proposal.*

LatAm is positioned for strategic regional Web3 growth. Ethereum Foundation (EF) hosted Devcon in Colombia. EF supported 9 other LatAm countries' Ethereum-based events with "Road to Devcon" and post-Devcon. Such EF regional efforts are underway and will only become more significant with time. The API LatAm team is well-rooted and positioned. The team is active in building relationships and spreading the API3 gospel to various Web3 people, individuals, and communities in LatAm, and in El Salvador. Regarding El Salvador, BTC Liquid is the infrastructure powering the country's Web3 adoption. *This team has used Airnode to build the first iteration of EVM and Bitcoin Liquid compatibilities for institutional usage. There is a detailed overview in this proposal.*

We view our marketing approach as being centered on organic personable "funducation". As a result, this proposal will describe the efforts and learning lessons for the upcoming cycle.

The API LatAm team has agreed to reduce its grants for the upcoming cycle and continue to build on accomplishments and minor setbacks to highlight its strengths.

**Monthly Grants:**

<b>Name</b>	<b>Role</b>	<b>Amount</b>
Rob	Co-lead	0
Andres	Co-lead	\$1,500
Marketing Team (4 people)	Marketing	\$2,000
Giancarlo	Developer	\$1,500

## Marketing Team

### Twitter

The marketing team has focused on the API3Spanish Twitter channel for building organic growth and community. The results of this previous cycle:

Tweets: 263

Impressions: 184,000

Profile Visits: 43,800

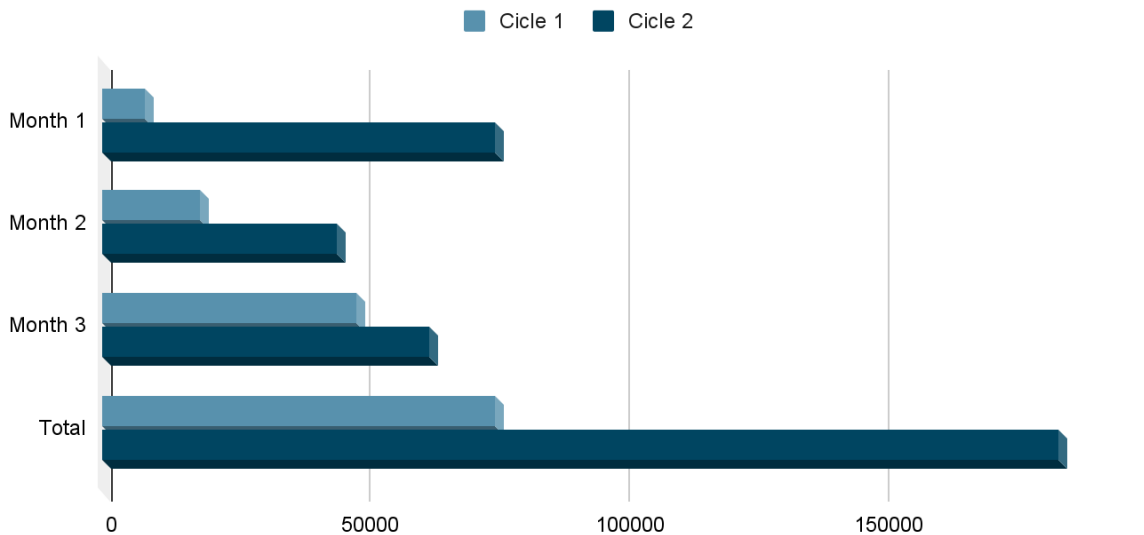
Likes: 1,847

Retweets: 686

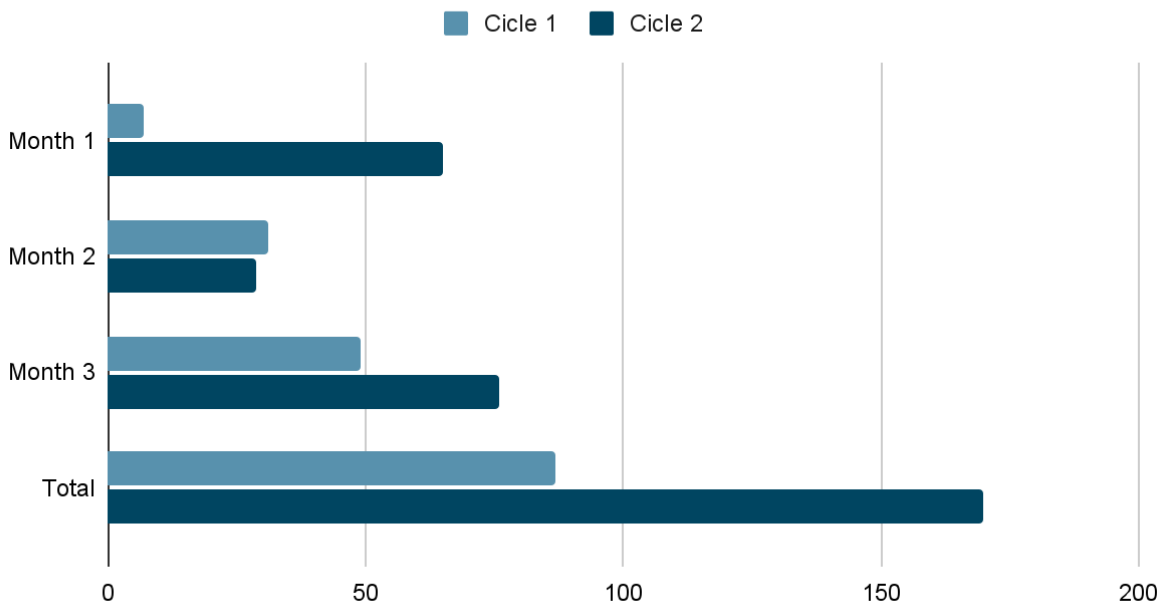
Followers Gained: 174

API LatAm, Graphs representation as compared to its first cycle:

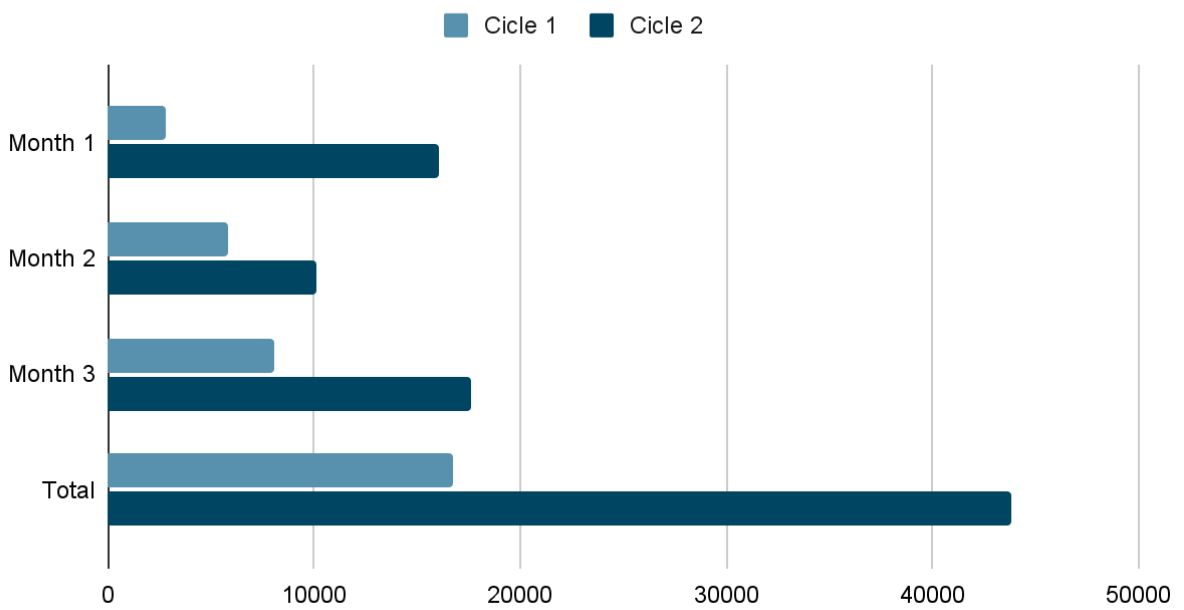
### Monthly impressions



## Followers Gained



## Profile Visits

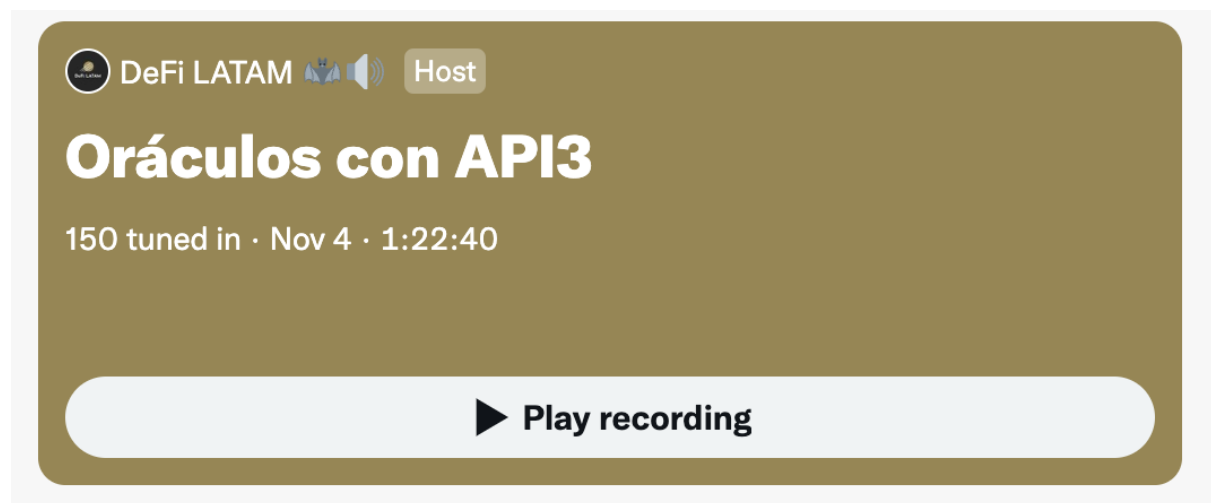


Metrics	Month	Cycle 1	Cycle 2
Likes	Month 1	167	655
	Month 2	318	268
	Month 3	467	924
RT	Month 1	43	247
	Month 2	87	88
	Month 3	150	351

### **Learning Lessons for Twitter Growth**

These number growths on Twitter were not coincidental or resulted from a “just tweet more, bro” outlook. Instead, the team worked on building organic community through tweets focused on API3 funducation awareness campaigns. This approach also was accompanied bythe Marketing team’s [Graphics Desing - Cycle 2](#).

One approach focused on conducting Twitter spaces with important Web3 LatAm communities, which led to more direct personal relationships and sincere awareness. For example, a recent Twitter Space gathered 150 listeners with a lively audience.



### **QRNG Twitter Raffle**

The second and novel approach to spreading community with API3 products was to create raffles using QRNG on Twitter. This API LatAM team proudly held the first on-chain Twitter Quantum Raffles.

The first QRNG raffle prize was a “Mystery” surprise, which equated to USD 300. The second QRNG raffle prize was raffling an NFT.

[- Quantum Picker - Contract Repo](#)

## [- Quantum Picker - Deployed \(Arbitrum ONE\)](#)

The following metrics show how this raffle caused the QRNG raffle to go viral with our followers. The team believes that continued thoughtful funducation efforts, such as raffles, can help spread API3 awareness with different Web3 communities. We also used Arbitrum One, as the chain selected for this purpose. The team tested the Airnode capabilities for open dynamics.

## [- Quantum Ghostly Raffle - Contract repo](#)

```
46     event RequestedToken(address requesterAddress, bytes32 idOfRequest);
47     event GeneratedToken(address requesterAddress, uint256 generatedTokenId);
48     event GenerateShinny(address winnerAddress, uint256 generatedTokenId);
49
50     constructor(address _airnodeRrp)
51         RrpRequesterV0(_airnodeRrp)
52         ERC721("Quantum Ghostly Raffle", "QGR")
53     {
```

- The latest example, [“Quantum Ghostly Raffle”](#)



## [- Quantum Ghostly Raffle - Deployed](#)

Token Quantum Ghostly Raffle

Overview ERC-721

Total Supply: 0 QGR

Holders: 75 addresses

Transfers: 80

Profile Summary

Contract: 0xca4577a04c512a0ee06322b043250186cb5aea19

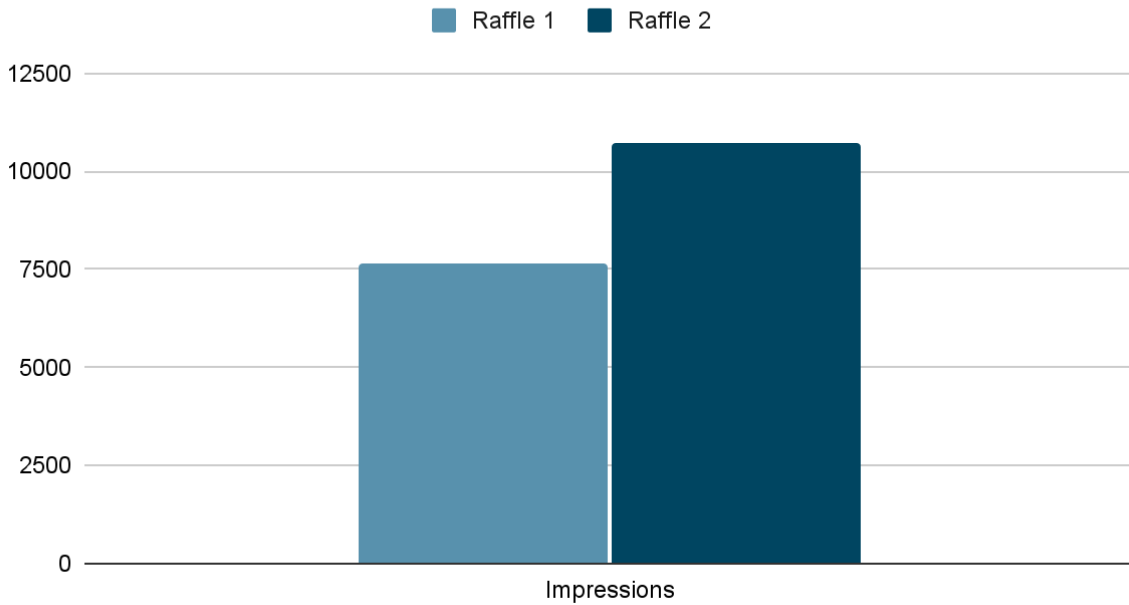
Social Profiles: Not Available. [Update ?](#)

Transfers Holders Inventory Info Read Contract Write Contract Comments

A total of 80 transactions found

Txn Hash	Method	Age	From	To	TokenID
0xbfed542063152a9255f...	Fulfill	3 days 6 hrs ago	Null Address: 0x000...000	0xb7248c19d578d65262...	98

## Raffle Twitter



<b>Tweet Raffle Metrics</b>	Raffle 1	Raffle 2
Impressions	7670	10720
Engagement	484	547
Likes	46	82
Replies	68	71
RT	36	80

### ***Developer Team***

The API LatAm team dev efforts were responsible for 88% of Total QRNG calls on Arbitrum (116 out of 131) and ~25% of QRNG's total calls for this past cycle (176/~700) (please see **"Addendum A"** for breakdown). Therefore, community funducation events gained a significant and, in one chain, the vast majority of API3's QRNG traction. We will continue to explore this in the next.

We planned to release a QRNG raffle/NFT dapp to promote at Devcon and promote QRNG even stronger. However, this dapp was not made in time. The API LatAm leads takes full responsibility for this letdown. As a result, we will create a more efficient process involving utilizing Gitcoin to cast a more comprehensive reach for developer talent to build timely and engaging dapps that use API3 products for the region.

### *Back to the Marketing Team Re-Twitter*

However, the marketing team did continue to lead at Devcon despite the QRNG dapp setback. A video recap of Devcon can be found [here](#). This is how the marketing team fared in Devcon against Eth-CC in Twitter performance.

(note: There are no metrics on how to account for “good” API3 marketing. Therefore one obvious objective standard is a Twitter Performance analysis and comparison.)

#### **Eth-CC Vs. Devcon**

Metrics	Eth-CC	Devcon
Tweets	12	34
Photos	6	100
Video	1	5
Articles	1	1
Likes received	469	360
Retweets	86	96
Replies	14	34

***Takeaway: Given API3 Spanish has a minor community and a negligible budget compared to API3’s main Twitter account. The LatAm team’s results at Devcon still was able to rival API3 +40k Twitter account in Eth-CC. Therefore, the API LatAm marketing team can deliver meaningful Twitter results.***

#### ***Liquid Network***

As mentioned in the previous cycle, the team was working on creating compatibility between Bitcoin’s Liquid Network and EVM using the Airnode. BTC Liquid is the future of institutional infrastructure in El Salvador and possibly the LatAm region. Along with having a local corporation in El Salvador, some team members are still very active in the country and considered “thought leaders” there. As a result, the team will continue to work to introduce the ability for BTC Liquid to have a direct relationship with the Ethereum ecosystem. The Code and demo can be found here. Lastly, the team will introduce these technical developments to important people at Adopting Bitcoin conference in El Salvador this November. Please see “**Addendum B**” below for a more detailed overview of using Airnode for this EVM BTC compatibility.

## **Next Cycle**

The API LatAm marketing team will reinforce current strategies, described above, for organic growth. The marketing team will continue to create original content and distribution, organize and support LatAm and Spanish Twitter Spaces, and push for other novel QRNG use cases.

We will be internally building a raffle/NFT distribution system based on the raffles that we've had on Twitter, to more easily distribute QRNG's narrative. We see this as an opportunity for organic growth that will be encompassing to work with various communities such as people in Optimism and Arbitrum, people who we have already been making friends with. We see these efforts naturally lead into utilizing Gitcoin as a means to help build and bring awareness to API3 products. This team has a minimum budget for grants but will work from that.

Moreover, the marketing team will work to help build a narrative and awareness to OEV and the spectrum of services that will be then be offered by API3 to the Spanish LatAm communities. Also, some marketing team members, prior to joining API3, were active in EOS, and will apply for grants and QRNG integrations. Lastly, on the development front, we will continue to explore Liquid<>EVM compatibilities and a POC dapp that takes advantage of such technologies.

## **Conclusion**

This API LatAm team has proven itself to create thoughtful and engaging marketing content for API3 that leads to building communities in LatAm. We significantly contributed to QRNG's usage and will continue spreading the API3 gospel further. Regarding development, we will explore Liquid Network implementation with its POC, work on building a raffle system, and work on open community innovations in LatAm and beyond.



## ADDENDUM A

Chain	<a href="#">AirnodeRrpV0 Address</a>	Contract	Name	Fullfills	Unic Address
Arbitrum	0xb015ACeEdD478fc497A798Ab45fcED8BdEd08924	<a href="https://arbiscan.io/address/0x881d551384130e05c39a010aba4fdb703e6afb6">https://arbiscan.io/address/0x881d551384130e05c39a010aba4fdb703e6afb6</a>	Quantum Picker	23 tx	1 (Admin make the fullfill and to select the winner number)
Arbitrum	0xb015ACeEdD478fc497A798Ab45fcED8BdEd08924	<a href="https://arbiscan.io/token/0x6f7951a45b87df328927e07cea5771539013b812">https://arbiscan.io/token/0x6f7951a45b87df328927e07cea5771539013b812</a>	Quantum Choice	13 tx	13 (Unic Address)
Arbitrum	0xb015ACeEdD478fc497A798Ab45fcED8BdEd08924	<a href="https://arbiscan.io/address/0xca4577a04c512a0ee06322b043250186cb5aea19">https://arbiscan.io/address/0xca4577a04c512a0ee06322b043250186cb5aea19</a>	Quantum Ghostly Raffle	80 tx	75 (Unic Address)
Optimism	0xa0AD79D995DdeeB18a14eAef56A549A04e3Aa1Bd	<a href="https://optimistic.etherscan.io/token/0xcc0f0d89146ce1b01948e421e90d2aeaa47718f7">https://optimistic.etherscan.io/token/0xcc0f0d89146ce1b01948e421e90d2aeaa47718f7</a>	Quantum Choice	11	11
Polygon	0xa0AD79D995DdeeB18a14eAef56A549A04e3Aa1Bd	<a href="https://polygonscan.com/address/0x0904593f8886f20761f9610abc8789b86ad386f3">https://polygonscan.com/address/0x0904593f8886f20761f9610abc8789b86ad386f3</a>	Quantum Choice	49	37
<b>Total Calls</b>				<b>176</b>	

## ADDENDUM B

### Airnode to enable EVM & BTC Liquid Compatability

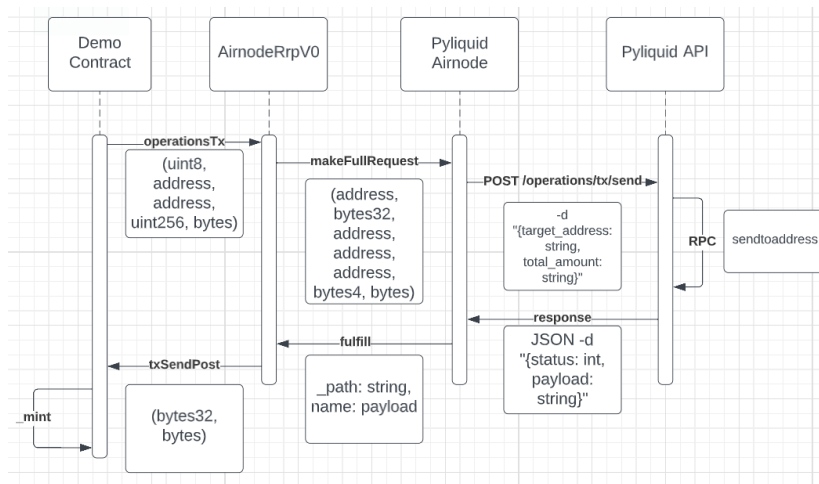
#### Abstract

We envision using the Airnode utility to bring compatibility between EVM and Liquid Network, allowing for institutional smart-contract use cases like in El Salvador to develop. This compatibility would enable lifting the power from each blockchain served through their own interfaces like SDKs and toolkits packed in an API, and glued together with smart-contracts on-chain by the RRP protocol.

#### Workflow

We've already developed a baseline to test a PoC between Goerli and Liquid Testnet. Currently, we have two working endpoints that query information from Liquid and emit an event with the response payload.

We expect to fully confirm our interoperability hypothesis and make a transaction on Goerli as a controlled side effect from a transaction done on Liquid, which will represent a collateralized ERC20 Token with a value extracted from an tL-BTC.



1. The 'sender' address, and the one who's going to initiate the collateralization, interacts with the requester contract 'Demo Contract', setting the callback designed for the transaction endpoint at the API level (PyLiquid API), relying the fullRequest to the AirnodeRrpV0 through the contract interface. <https://github.com/api3latam/liquid-oracles/blob/4eabb89c784bcf1abb40d7796c8f9c0eb52654ed/contracts/demo.sol#L151>

2. The PyLiquid airnode gets the request and query the Liquid Blockchain through the Python library wrapped in the API, making a request to transfer tL-BTC from the node account, which could be a pool operator or liquidity provider, to the account from the 'receiver' address on Liquid, which is specified as a payload during the request. Note that this receiver will also be the person getting the collateral on EVM later on. <https://github.com/api3latam/PyLiquid2EVM/blob/5b20163e6480096af171e05692597ddcc1d8fccb/pyliquid/routers/operations.py#L86>
3. The fulfilment is done by the AirnodeRrpV0 contract, and the requester uses a `\_mint` function for an ERC20 Token that would act as the collateral representation on EVM. This minting is done through an Escrow, as the sender also needs to check that the transaction has been validated on Liquid prior to unlocking the funds. And the receiver also needs to do the same for properly getting the funds. <https://github.com/api3latam/liquid-oracles/blob/4eabb89c784bcf1abb40d7796c8f9c0eb52654ed/contracts/demo.sol#L204>
4. If there's no Escrow escalation, the process is done, and the collateral is now in hands of the new owner.

## Architecture

Our tech stack is based on an API and SDK toolkit we have developed on our own. This stack would need some improvement, once we have institutional buy-in, to boost the current capabilities, all this is done and served through the Python ecosystem. Our contract would also need improvements, so we can tackle a couple of challenges that arise from managing multiple callbacks on an airnode and multiple endpoints.

Thus is creating a set of libraries and modules in Solidity will also become a priority for our use cases.

