

cryptaur

Bye-Bye, Mr. Middleman

Rideshare dApp Paper
Draft V5

INTRODUCTION: Decentralized Economy

The world as we know it is moving at a rapid pace from large centralized business models to more of a distributed and peer-to-peer model. These new models are more efficient, scale better and provide more freedom for the voluntary participants. Uber/Lyft and airbnb are the most successful businesses built around distributed and voluntary peer-to-peer actors. The sum total of these businesses are commonly referred to as "shared economy" apps.

Shared economy apps have scaled to billions of dollars in revenues in extremely short periods of time. Integrated payments, peer review systems, and ease of on-boarding and access to these frequently used services have made them extremely popular and viable. Shared economy has paved ways for brand new business models and sources of income.

The time is ripe for the next evolution of the shared economy, decentralization, no middlemen, whatsoever. The provider and the consumer of a service connect person to person in a trusted, transparent and reliable manner, deeming the intermediaries, obsolete.

Cryptaur's vision is to pioneer the decentralized shared economy and, the first such service is a ride sharing application, Cryptaur rideshare.



CRYPTAUR RIDESHARE (cRS)

cRS is a rideshare service not too dissimilar from the incumbents, in terms of the convenience it offers to the passengers, it takes them places while leveraging the drivers time and mode of transportation. Under the hood, the similarities end and true benefits of decentralization start to become apparent:

- Imagine an on-demand ride share service where the driver earns a 100% of the moneys the passenger pays
- The community at large vets both the drivers and the passengers above and beyond the local jurisdictional requirements
- The community at large gets a piece of the decentralized economy that they help build

And, of course all the bells and whistles of a centralized service like credit card payments, peer reviews, dispute resolution, security and validation, accomplished by leveraging the community at large, alongside, decentralized technologies naturally making it transparent and audit-able.



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cRS is built on foundational blocks some of which are built by the Cryptaur foundation and some built by the decentralized community, at large. It leverages the ethereum blockchain for managing all the driver, passenger and ride related transactions, transaction processing fees and rewarding the community for their positive contributions to the community at large, the Cryptaur tokens, CPTs (an ERC 20 token). Cryptaur Pay for transacting with both fiat and cryptocurrency alongside, its consumer on-boarding and dispute resolution.

Monetary Benefits

cRS passes on the complete fare paid by the passenger to the driver. Centralized ride sharing services take anywhere from 15 to 30% of the fare paid by the passenger and often times the drivers' are not even privy to the amount paid by the passenger.

Drivers spend their time, their gas, their cars and absorb all the wear and tear and why should the intermediary take a third of their hard work and earnings? Instead we at Cryptaur are strong proponents of the drivers keep the complete fare and pay a transaction fee in Cryptaur Tokens (CPTs). For each completed ride there is a platform fee

paid in cryptaur tokens, something akin to gas for accessing the blockchain on the ethereum network.

Centralized services are run extremely inefficiently and operationally very expensive and often times have to build complete solutions in vertical silos. In decentralized world, there are no independent infrastructural costs and the community supports marketing, dispute resolution, user growth and retention. As a dApp one focuses on the dApp's unique value proposition and specialized providers fill in the rest of the pieces of the puzzle resulting in extremely streamlined operations.

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Community Vetting

Drivers and Passengers are both vetted above and beyond the requirements of what the local laws demand. We believe this is essential to build a long lasting and thriving community. Drivers are vetted by the community initially and periodically, to ensure they are suitable additions to the eco-system. The drivers think they are providing regular rides but they are being vetted and slowly but steadily allowed into the community. Similarly, the passengers are being vetted by drivers and fellow passengers to ensure they will be good citizens and positively contribute to the eco-system.

Community vetting provides a more comprehensive evaluation of the participants and introduces the decentralized consensus mechanisms to the brick and mortar world. The community involvement makes the vetting process more efficient and effective and eliminates single points of failure and one dimensional points of view. Vetting will earn the community members CPTs for their evaluations that matches up with the communities consensus, while the vetting results are kept anonymous until a member is fully vetted or not. It's truly a democratic process with fail safe mechanisms to allow both drivers and

passengers to be part of the community.

This eliminates the need for physical operational facilities to be established in every location where CRS plans to operate and allowing it to run extremely efficiently while not compromising on safety and security of the eco-system. And, all of these savings will potentially allow us to further reduce the cost of availing the service and operate at local market efficiencies instead of operational costs of where centralized companies are located and the prevailing engineering salaries and data center hosting costs.

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Cryptaur Rewards

We at Cryptaur strongly believe in growing and sustaining a community in organic ways instead of using slick marketing or advertising. As part of this core tenet we plan to grow the community from within and reward people within the community that positively add the community. When a new participant is brought into the community, the sponsor who brings them into the community will be enjoy a lifetime of rewards.

Every time the newly added community member uses cRS, a relevant reward in CPTs is awarded to their sponsor for helping further the community. If you

help build a community you should benefit and not a profit minded centralized organization.

Any and all behaviors that aid in furthering the community will also be rewarded in CPTs, some of these are: vetting new members, capturing pictures of automobiles, license plates, verifying documents, reviews, providing support and training community members. It's their community and if they help make it better, they should benefit, proportionally.



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Centralized Features with a Decentralized Twist

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Disputes and missed steps are part of any system and extremely important as to how we resolve, learn and move forward and amend the wrongs. cRS is designed to keep public and audit-able details about all transactions pertaining to rides requested, completed, cancelled and disputed. When disputes do arise and human intervention is required to resolve them, we employ trained community members to resolve the disputes.

The community members are provided with all the transactional data and the consensus decision reached by several dispute resolvers is handed as the community decision to the disputing parties. These dispute resolvers are

rewarded with CPTs for ensuring efficient and satisfactory operations of the platform. Repeat offenders may be removed from the community for being bad actors.

Collection of images of cars, drivers and relevant documents may be performed by community members. Especially, in beach head markets before deciding to fully light up a geographic area or a city or a country. Multiple members of the community may be utilized to on-board these drivers, train them and ensure that their entry into the community is smooth and efficient. Sponsors of the new members may pave the way to on-board these drivers but may not possess all the skills required to full

on-board them into the community and may lean on the community at large. All of these influencers are rewarded with CPTs for their contributions in building a strong valuable community.

Drivers, passengers and co-passengers are matched based on common network connections amongst them. Besides being a smooth riding experience, it also ensures a more secure experience.

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Token Utility

CPTs are used as gas for transactions on the platform and as rewards for positive actions. Drivers pay transaction fees referred as gas in CPTs for completed transactions which put the Cryptaur tokens front and center and promote the platform. Cryptaur foundation's sole charter is to promote the Cryptaur protocol and bring cryptocurrency to the mainstream audiences. Cryptaur pay is dovetailed with cRS and allows for fiat and cryptocurrencies to be accepted within the dApp.

cRS strongly believes by building a mainstream application like ride sharing that has become ubiquitous in most urban markets, the Cryptaur foundation is picking the low hanging

fruit to introduce decentralization to a rather centralized mainstream world. The gps within the driver and passengers smart phone ensures that the service can be confirmed and audit-able eliminating any foul play or money laundering. Every ride offered and transaction performed furthers the utility to the CPTs and increases its speculative value. And, strengthens the growth and retention of the community.



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User Flow



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Cryptaur Matching Algorithms

cRS is deeply motivated to root its ride sharing service around real human beings and their incumbent behaviors and value systems. Special attention is paid to how they interact and want to be interacted with, this promotes a sense of belonging and harnesses a strong and safe community. Special attention is paid when matching one another:

Ice breakers: Providers complete strangers with a simple tidbit. It could be as simple as you both went to the same school or overlaps in music taste, etc. This makes the transition of stepping into a strangers car so much smoother and makes the journey so much more enjoyable and memorable.

Commonality: Drivers, passengers and fellow passengers are not just matched based on just a distance algorithm they, are matched based on much more. What's the common bonding across the various parties, perhaps a mutual friend, perhaps a common home town, etc. Of course, we recognize this is only possible with scale and density but, its deep rooted in how we have built and designed these matching algorithms.

Reviews: Imagine being matched as someone in your network has had a positive experiences and when available, this information is utilized instead of just focussing on just the most efficient waypoint.

Pooling or Shared rides: Imagine pooling with people who you should meet, anyways, as you have huge overlaps or have complementary traits. Imagine you are looking for a nanny and they are looking for babysitting help. As rare as these matching possibilities sound, the chances are higher than one imagines when parsing through a wide cross section of the community.

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Enable cRS in more and more markets as critical mass is reached in each of the markets. The community at large alongside the Cryptaur foundation will vote on next markets to light up. Related services like shipping and package delivery may also be built to leverage the available drivers during off peak hours. Drivers who would like to earn further could continue to work off peak hours and provide less time sensitive services like package delivery and pick up/drop offs that don't need to happen right away. The possibilities of a trusted community, drivers, passengers and users, is endless and extremely promising.

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