

# DECENTRALIZED TIPPING SYSTEM

By Team “ETHERNALS”

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# Problem statement:

Preventing misuse of tips/wages given to small scale workers in tobacco/smoke/other harmful and addictive substances using Decentralized smart contract

# The problem

- Small scale workers get tips/wages from tenants or general public
- Most small scale workers use the cheap amounts they get in harmful items like tobacco.

Of the 10.2 (6.3% of working adults) million construction workers, 35.1% used any tobacco product; 24.4% were cigarette smokers, 8.3% were cigar, cigarillo, pipe or hookah smokers, 7.8% were smokeless tobacco users, 4.4% were e-cigarette users, and 7.6% used  $\geq 2$  tobacco product users. Tobacco use varied by worker characteristics, with highest tobacco use ( $>35\%$ ) among those reporting  $\leq 5$  years on the job, temporary work status, job insecurity, or an unsafe workplace. Construction workers had higher odds of tobacco product use than non-construction workers.

## Conclusions:

Over one-third of U.S. construction workers use tobacco products and disparities exist across sub-groups. Workplace tobacco control strategies could reduce tobacco use among this population.

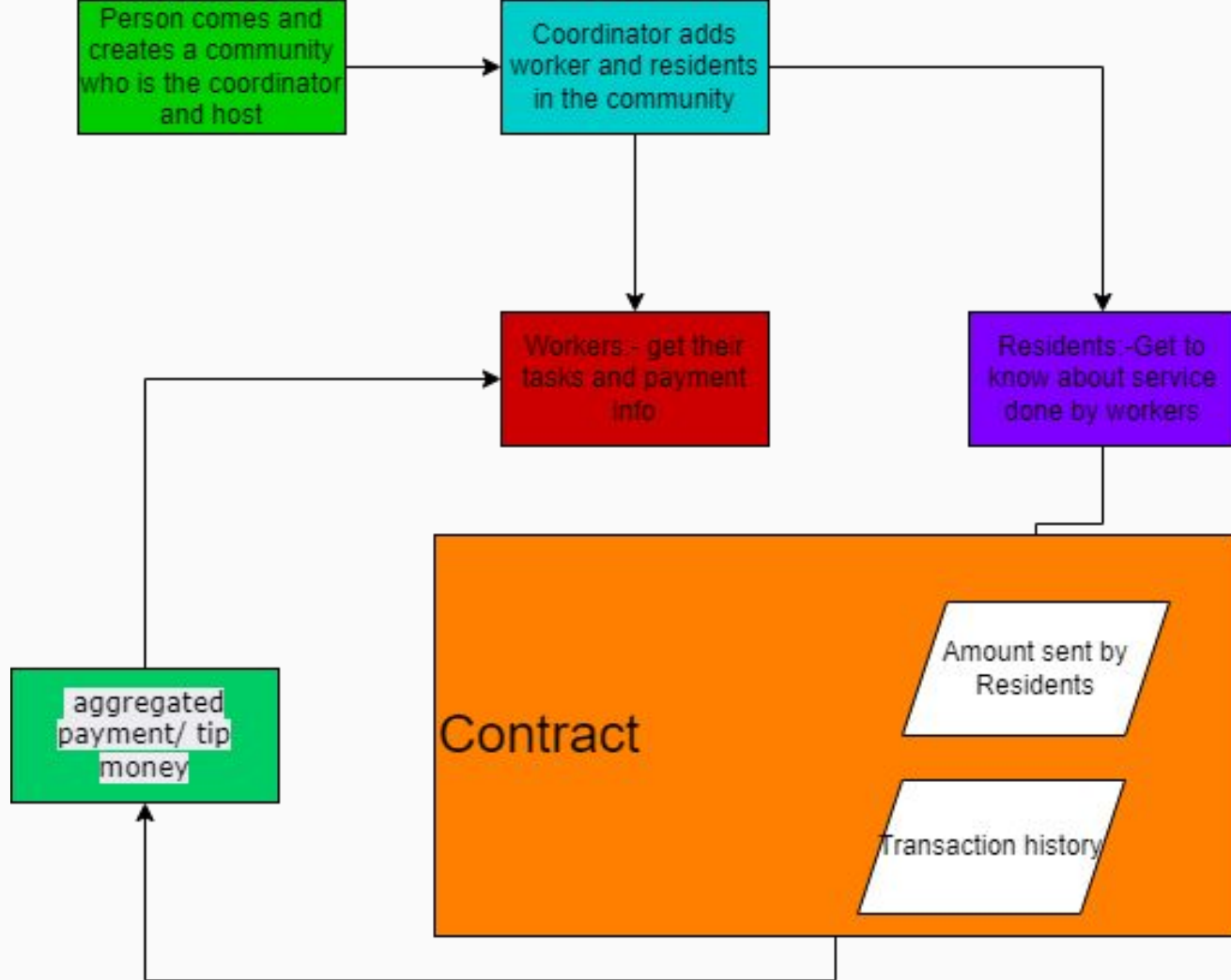
A close-up photograph of a person's hand holding a pen, writing on a piece of paper. The background is blurred, showing what appears to be a desk or table. The text 'The solution' is overlaid in large white letters on the left side of the image.

# The solution

- A Decentralized Payment Platform for Fair and Transparent Compensation of Municipal and Sanitation Workers, Promoting Financial Responsibility and Blockchain Adoption at the Grassroots Level.
- The moral goal is to prevent small amounts of money being spent on harmful and largely unimportant goods on daily basis ; instead offer the aggregated payment/ tip money at a later time as a lumpsum ; this promotes money being put to good use. Along with it , it also aims to bring the blockchain use case to the grassroot level.
- Providing lump sum amount at fixed time interval leads to better financial decision such as F.Ds rather than harmful purchases like tobacco,etc.

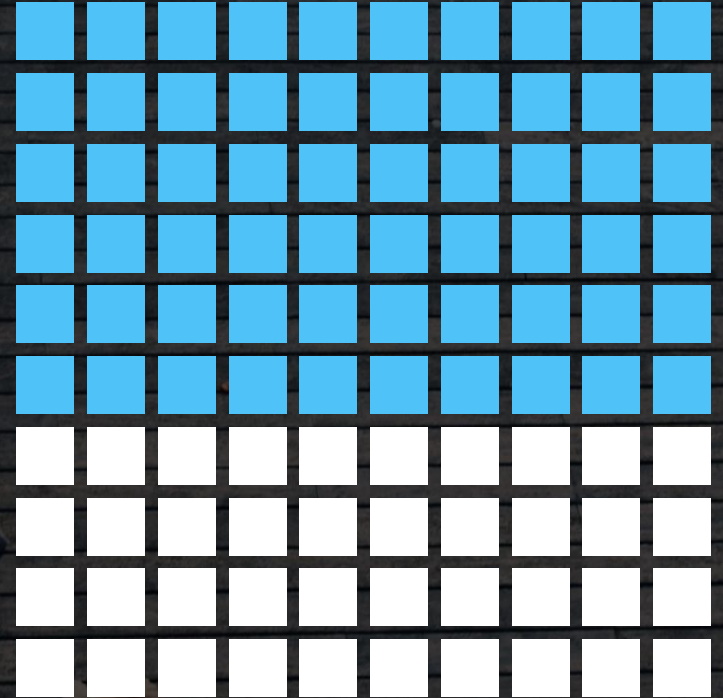
# How it works

- Person comes and creates a community who is the coordinator and host
- Coordinator adds worker and residents in the community
- Workers:- get their tasks and payment info
- Residents get to know about the tasks done by workers so as to pay them
- Payment is sent to contract
- Contract collects all the payment and keeps it liquidated till end of the month
- aggregated payment/ tip money is sent together at the end of month which prevent minute use in illegal substances by small scale workers



# Advantage Aspects

- Adoption of Ethereum technology accelerated through grass-root level individuals transacting through our product.
- More transparency and less commission by higher authorities blocking payment to small scale workers.
- Minimization of harmful FMCG in society.



### Why Polygon ? :-

1. faster and cheaper transactions for users turns as an advantage for managing and at the same time having less wastage of money in gas fees
2. Interoperable with other blockchain networks allows anyone to swap and transact amount.
3. Overall, the Polygon ecosystem offers robust reliability due to high amount of industry experts supporting the technology and companies like starbucks investing in their technology.
4. High scalability of chain that allows expanding our app quickly and avoid downtimes



## Why QuickNode RPC ? :-

1. Reliability: QuickNode's RPC service is built on top of a highly available and redundant infrastructure, ensuring reliable access to the Ethereum network.
2. High performance: QuickNode's RPC service is optimized for low-latency and high-throughput data retrieval, allowing for faster processing of transactions and blocks.
3. Scalability: QuickNode's infrastructure is designed to handle high volumes of requests, making it suitable for applications that require high throughput and scalability.
4. Flexibility: QuickNode's RPC service supports a wide range of API endpoints and data formats, allowing developers to customize their requests to meet their specific needs.
5. Ease of use: QuickNode's RPC service is easy to use and requires minimal configuration, that allows smart contracts to be flexible .

# The technology:



**SOLIDITY**