



*shamrock*

The Crypto Lottery

Whitepaper



## Abstract

Shamrock is an Ethereum Blockchain based lottery. The decentralized shamrock lottery platform brings a complete transparency for organizing and conducting a lottery using the blockchain technology.

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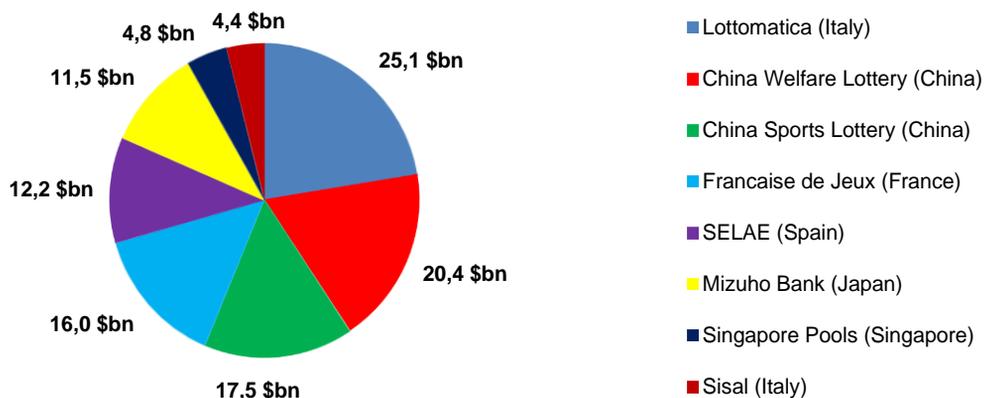


# 1. Introduction

Lottery market is originated in Italy in the 16th century. The issuance of lottery dated back as early as in ancient Rome and ancient Greece. To date, 139 countries and regions have issued lottery, which has become the sixth largest industry in the world and is valued at 302,3 billion USD in 2017 and is expected to reach 393,9 billion USD by the end of 2023. As the lottery sector continues to develop around the world, market participants relentlessly pursue synergy and improvement. A decentralized lottery market built on the Ethereum blockchain will be a huge innovation in the world of lottery games - shamrock provides an anonymous and transparent system for players around the world.

## 1.1 The global lottery market

Lotteries are often provided by a single operator under a monopoly license. The rapid increase in the use of Internet-connected mobile devices allow people to access the Internet more easily. Subsequently, recent years have seen increasing overlap between types of gambling, particularly online where gambling mechanisms underlying games are not always understood by consumers. Internet gambling has impacted lotteries, with many jurisdictions now permitting the sale of lottery tickets online, although this is generally restricted to residents of specific jurisdictions. Lotteries lend themselves to the online channels; the simple mechanisms, repeated, regular play, and high popularity make online lotteries a relatively simple form of ecommerce. The chart below shows an overview of the global lottery market.



Italy's Lottomatica is the world's largest lottery operator. When Lottomatica's sales are added with those of Sisal, the next largest Italian lottery, the average Italian spends around \$480 annually. That plump sum is not nearly as high as the amount forked out by Singaporeans. The 5,6 mio. people spend about \$1,000 each in the Singapore Pools. The graphic shows the great potential of the global lottery sector.

## 1.2 Existing issues of the traditional lottery industry

The perceived deficiencies identified include, amongst other things, issues around the deduction of third party charges from winnings and the lack of availability of payment methods in some territories. However, chief among the issues that blockchain technology can potentially address are the issues of fairness and transparency. In a traditional online gambling environment, players have no way of checking the fairness of any draw or result. They have to rely solely on trust and whatever checks and audits are in place under the regulatory regime applicable to the operator. Similarly, players typically cannot verify for themselves that winnings in a lottery are distributed honestly.

## 1.3 Shamrock lottery solution

Shamrock lottery certainly appears to have many characteristics that address these issues. By virtue of its decentralized nature, shamrock lottery is not controlled by a single user, making it almost impossible to alter the underlying data. Verifying transactions or trades over a network ensures that no single player holds an advantage at any stage of the gambling process. This provides greater resilience against fraud and prevents manipulation of records in the 'chain'. Transactions on the blockchain are also transparent to others in the network, and are therefore verifiable.



## 2. Shamrock – The Crypto Lottery

The shamrock lottery was founded to create a decentralized, fair, transparent, anonymous and innovative lottery for players around the world. Shamrock lottery has the technology and payment systems to deliver the next generation of lottery. With your investment shamrock lottery will revolutionize the lottery market!

### 2.1 How shamrock crypto lottery works

We will offer three types of draw lotteries: The 4/29 shamrock lottery, the 5/39 shamrock lottery and the 6/49 shamrock lottery. The minimum size of the guaranteed first jackpots (1<sup>st</sup> lotto draw) will be fixed - 100 ETH for the 4/29 lottery, 400 ETH for the 5/39 lottery and 3000 ETH for the 6/49 lottery. The prize pool of the shamrock lottery is formed from 70% of the funds collected from ticket sales. 15% is targeted for advertising and marketing, 10% commission for token holders (commission will be paid in ETH) and 5% for technical operations. If nobody wins the main prize in a drawing, it will be rolled over to the next drawing and increased. The jackpot will keep growing until it finds its winner. There will be five prize categories with a different prize depending on how accurately the player predicts lottery numbers. All categories starting from two will be calculated as percentages of the prize pool. If several winners win the jackpot in one drawing, it will be split between them.

There will be a drawing every twelve hours in each lottery. Numbers are drawn randomly with the help of the blockchain-based RNG (any four, five, or six numbers are taken from the unique code of the latest bitcoin block mined). After all the numbers in the lottery have been drawn, winnings are automatically transferred to the owners of the winning tickets through the algorithm built in the smart contract. Winnings are paid in full within 120 seconds of the drawing. Transfers are made to the cryptocurrency wallets that were used to buy the winning tickets. In the draw lottery, every 5th ticket wins a prize. In our shamrock lottery, the min. payout rate for two matching numbers is at least 1.6, which means that the player will get paid back price of the ticket plus more than half of its cost. All processes and distribution operations in the system will be carried out based on the code built into the smart contracts. The graphics below show the lottery games and pay out conditions.

### The 4/29 lottery



| Matching Numbers    | Prize Pool Distribution |
|---------------------|-------------------------|
| 4                   | 33%                     |
| 3                   | 33%                     |
| 2                   | 34%                     |
| <b>Ticket Price</b> | <b>0,01 ETH</b>         |

### The 5/39 lottery



| Matching Numbers    | Prize Pool Distribution |
|---------------------|-------------------------|
| 4 - 5               | 25%                     |
| 3                   | 25%                     |
| 2                   | 25%                     |
| <b>Ticket Price</b> | <b>0,01 ETH</b>         |

### The 6/49 lottery



| Matching Numbers    | Prize Pool Distribution |
|---------------------|-------------------------|
| 5 - 6               | 20%                     |
| 3 - 4               | 20%                     |
| 2                   | 20%                     |
| <b>Ticket Price</b> | <b>0,01 ETH</b>         |

### 3. Initial Coin Offering (ICO)

An Initial Coin Offering (ICO) is a modern crowdfunding instrument for companies via cryptocurrencies. In exchange the investors gain access to features of the projects being funded. The table below shows an overview of our shamrock ICO.

| Shamrock ICO                       |                        |
|------------------------------------|------------------------|
| Token Name                         | LUCK                   |
| Token Price                        | 400 LUCK/ETH           |
| Early Bird ICO (start)             | 12/05/2018 (12:00 UTC) |
| Early Bird ICO (end)               | 01/05/2019 (12:00 UTC) |
| Pre ICO (start)                    | 01/05/2019 (12:00 UTC) |
| Pre ICO (end)                      | 02/05/2019 (12:00 UTC) |
| Regular ICO (start)                | 02/05/2019 (12:00 UTC) |
| Regular ICO (end)                  | 03/05/2019 (12:00 UTC) |
| Decimals                           | 18                     |
| Smallest Unit (Lucky)              | 1e – 18 LUCK           |
| Token amount                       | 10,000,000 LUCKs       |
| Maximum tokens distributed via ICO | 100% will be generated |
| Soft Cap                           | 5,000 ETH              |
| Hard Cap                           | None                   |

## 3.1 Token Sale and Distribution

Our ICO goal for the Token (LUCK) sale is set at 5,000 ETH. Shamrock Crypto lottery will produce 10 mio. LUCK Tokens in total which will be distributed as follows:

### Distribution of Tokens



Investors



Team

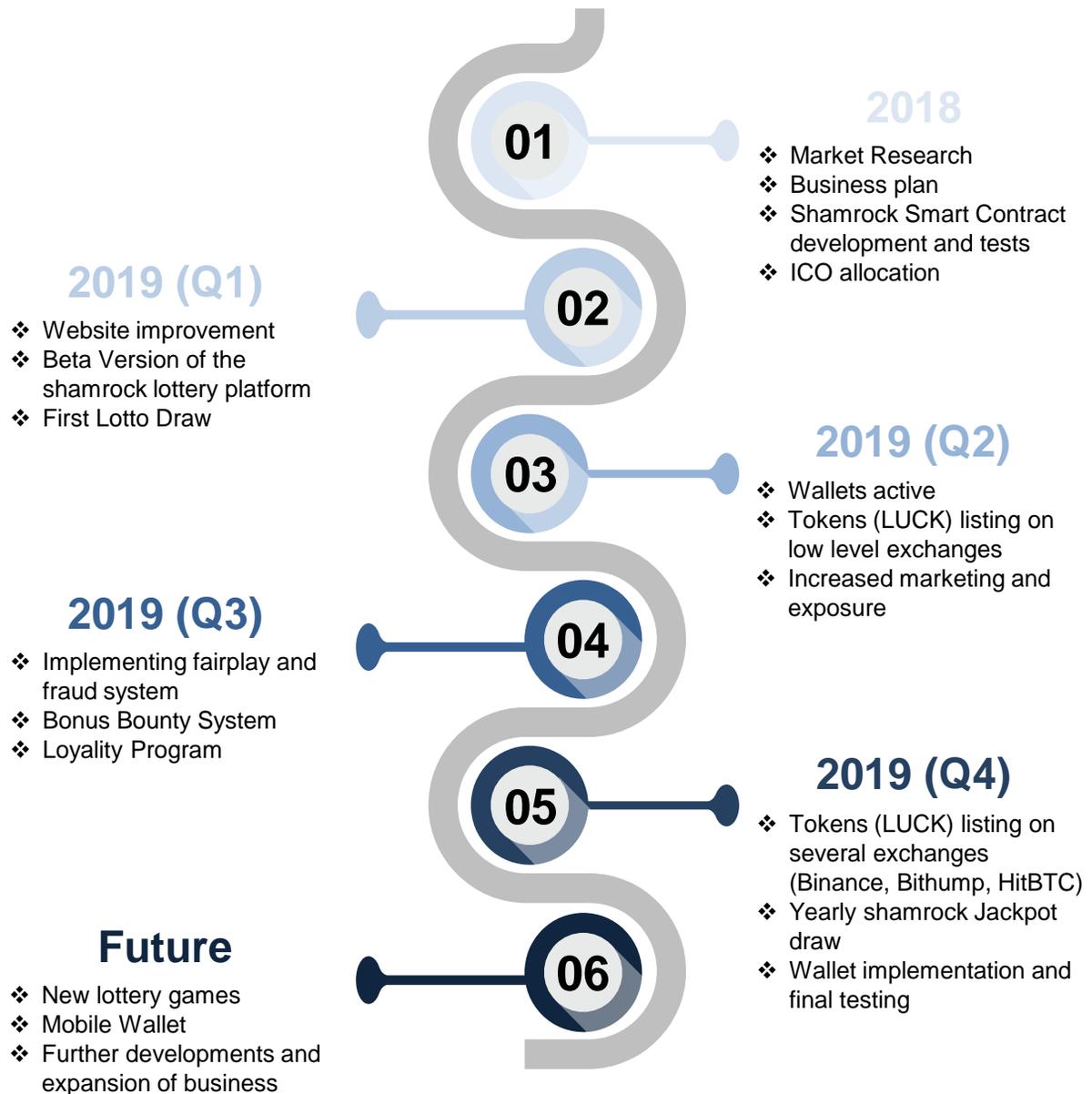


Bounty

## 3.2 ICO Phases

During the Early Bird ICO every 25th investor will receive the special bonus of 1000 LUCK tokens. In the second phase (Pre ICO) every 25th investor will get a bonus of 500 LUCK tokens (Bonus will be paid out after the regular ICO). The delivery of LUCK Tokens through the smart contract occurs immediately after the ETH is sent to a specified contract address. As Shamrock is continuing its international growth, the raised funds from the ICO will be used to lay the foundation to enter the global market. This means that after the ICO we will be expanding our teams, as well as forming partnerships with distributors from around the world.

## 4. Road Map



## 5. Disclaimer

This disclaimer contains important information about the matters contained in the whitepaper as well as the risks involved in participating in our Early Bird Ticket Sales, Pre-Launch Sale and the Initial Coin Offering (ICO). This document was prepared by Shamrock Crypto Lottery to be a technical document describing the plans for the Shamrock Crypto Lottery website, Ticket Sales, Pre-ICO and ICO, eCommerce Gateway Strategy, our team, the technology behind Shamrock Crypto Lottery and the long-term vision of the Company. Please note that all participants of Shamrock Crypto Lottery, whether partaking in Ticket purchases or the ICO coin offers, have no equity or any other interest in Shamrock Crypto Lottery. Shamrock Crypto Lottery is not offering shares, securities or other investment, economic or legal interest in Shamrock Crypto Lottery or any related entity or any other investment or financial service. 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If they are lost or lose their value, there is no private or public insurance representative that buyers can reach out to. 11) Negative publicity may materially and adversely affect the price of the Luck Tokens, Negative publicity involving the Shamrock Crypto Lottery online platform, the Luck Tokens or any of their key personnel of Shamrock Crypto Lottery, and/or regulation of cryptocurrencies worldwide, may materially and adversely affect the market perception or market price of the Luck Tokens whether or not it is justified. 12) you Invest at your own risk! No warranties or promises! 13) You are over the age of 18 and able to participate in ICOs as per your local laws and regulations. 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