

**SMARTGOLF**

**Smart Golf Coin (SGC)**

White Paper v3.0

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## Abstract

The history of the golf industry is centered on a population with high dedication in accordance with the luxurious style provided by sports. This elite or part-oriented targeting has helped greatly to establish itself as one of the world's major sports industries, with the size of the US market reaching \$84.1 billion. Golf, which is the number one sport that teenagers want to learn about, needs a transition or pivot that can warmly welcome a more modern and minimalist public. Excessive restrictions/rules on sports with exclusive membership to the privileged, along with the absence of high-performance, cost-effective practice/urban methods, are the cause of the decrease in participation in the problem and are also problems to be solved to meet the needs of potential audiences. In particular, in order to practice and improve golf swing skills of young people, including adolescents, they encourage participation in the golf status system with appropriate benefits according to the degree to which their swing frequency and swing skills are improved, and they can expect to play in their SmartGolf and real golf ecosystem.

Blockchain technology for swing data can redesign the concept of golf into a modern and trendy social lifestyle and expand its target to a wider spectrum to aim for a larger market size. The NFT technology of swing is a way to make an effect with high accessibility in golf content, which can accelerate participant participation and lead to light yet proven practice methods. In addition, the social and interactive environment or place powered by blockchain based on the token ecosystem will transform old sports into a trendy part that changes into coin mining techniques with swings that give new benefits to the younger generation in daily life.

In addition, mining with a good golf swing, a clear goal, rather than mining with an existing high-performance computer or meaningless movement, can create a new structure that improves golf skills and engages in economic activities.

SmartGolf Token Coin (SGI) will be the cornerstone of a new frontier in golf. It is the game changer for golf as the gateway that ultimately connects the current and future golf demands with the needs of the new generation.

Once the new golf ecosystem is completed through this project, a new economy will be created where the younger generation will receive benefits through the golf swing, contributing to innovating the economic ecosystem that has been destroyed by e-commerce platforms.

## Problems & Mission

Golf traces its origins to many variations of concepts, from Roman Gauls to medieval Dutch. However, it is in Scotland in the late Middle Ages that the development of the "golf" as we know it began, laying the foundations for the rules and traditions of modern sports. 18-hole gameplay has flourished on the tours of exclusive member clubs and top casts. These honorable traditions and selective participation have been lowered by modern golf institutions and virtual screen courses, which address a recent shortage of new entrants. Golf is the No. 1 sport in the United States and Korea that wants to learn, but with the Metropolitan urbanization, the cost of the distance to the golf course and the time of the 18-hole rounding are far from the modern public. Screen golf and driving ranges are slightly lowering the boundaries, but the absence of a "revolution" to fully address and penetrate the daily lives of the modern and future masses is still very clear.

### **Macro – The absence of a new interactive and a true mobile concept of Golf**

Country clubs and modern golf culture centered on the upper class have been the center of undisputed sports until recently.

In addition to the importance of these sports themselves, attempts such as e-Sport touches such as Screen Golf and Top Golf, which are expanding to entertainment such as F&B, have been welcomed by the public. However, this does not solve the time and cost of golf that more future generations want to learn.

Therefore, we propose a revolutionary proposal to become a 'Producing Tool' that improves and benefits from golf swings, not a 'Consuming Act' that costs a lot of money to play golf for future generations and modern people.

Golf culture centered around country clubs and contemporary gentry were the unchallenged center of the sport until quite recently. Due to the dramatic changes in the economic and social perspectives, the trends toward a more accessible (shorter commitment, acute in time consummation and close) Golf seems quite clear with the introductions of 'variations' and 'supplementary' facilities on the rise. For example, facilities that were considered 'sub market' and a complementary activity to rounding on actual courses are becoming the final end of what many customers expect of Golf. From virtual Golf studios equipped with simulator powered e-sports touch and driving ranges full of F&B and other entertainment. These new Golf contents is fiercely welcomed by the masses with facilities such as TopGolf expanding in N. America and Golfzon controlling the virtual Golf courses in E. Asia. However, the trendy variations that agile Golf companies has offered is still based on 'fixed' locations and for some, the hefty landscape require for its premises prohibits them from approaching the metropolitan areas which is home to potential mass audiences of the sport. Thus, a mobile and agile concept of Golf that entails the proven trends of Golf such as virtual training and interactive gaming contents is the solution that can fully address the high demand from a potentially lucrative market.

## **Micro – Heavy commitment-based Golf introduction**

It can be a huge addiction for those who define themselves as 'hack' golfers, but the sophisticated method of golf swing and the required technical assets can act as a wall to prevent newcomers from entering.

The IoT and everything 'smart' wave lets you learn how to make a good and stable swing using sensor-based analysis equipment and AI-based coaching systems. In addition, the goal of the next generation of golf entertainment is to share and compete with others to contribute to the improvement of golf skills and community development.

## **SmartGolf Mission Statement**

SmartGolf provides the most accurate swing analysis, efficient mobile swing analyzer, and artificial intelligence coaching system. Real-time avatars, sophisticated ball tracking, AI coaching system, and actual golf courses in Korea, Japan, and the United States in a mobile environment according to the user's swing are the only advantages of SmartGolf.

In 2023, in recognition of the ease of golf training through Endorsement by PGA professionals, it began to be incorporated into the golf curriculum of Klein ISD and Houston ISD in Houston, Texas.

In the future, there is a pretty clear demand for an effective and mobile golf platform that adds mobility to golfers' lifestyles through virtual games conveniently at home. However, toy swings cannot improve golf skills, and it is difficult to create a golf community. Only the SmartGolf platform and SGI are the solutions. Through effective training, including artificial intelligence algorithms, the platform allows users to practice golf swings and earn tokens at the same cycle. By accurately measuring swings with SmartGolf clubs, the swing itself is analyzed as an essential indicator for maintaining or nurturing an optimal swing posture. Swing analysis can be used as a reference when going through virtual coaching at SmartGolf driven by real PGA certified instructors. In addition, the virtual field hosts a token-based betting system that allows users to continue their betting habits on the real field. Users can contribute to the community by using tokens earned from practice and the game itself as currency and by winning bets made with friends or fellow SmartGolf users. The cycle of users obtaining tokens in practice and using them in the virtual field allows users to become productive subjects of the economy through mobile and virtual golf ecosystems.

## Next Generation Golf Platform – SmartGolf

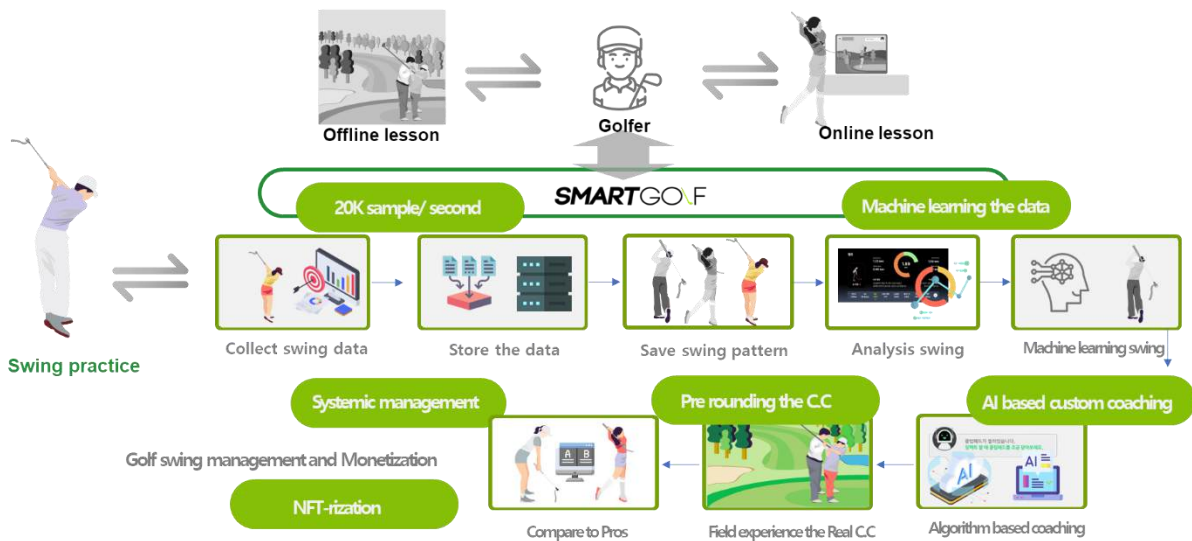
### Collection of swing data and the Tokenized DB network



The SmartGolf DB platform successfully measures golfer's swing data with standardized swing metrics made possible with the SmartGolf Club. The SmartGolf Club's built in motion sensor tracks the movement of the club and sends the data to the SmartGolf platform via SmartGolf app (BLE connection) The swing data can be displayed through the 3D avatar which is designed with Inverse Kinematics making possible even the estimation of muscle movement with data input from the SmartGolf Club.

The swing data is also tokenized and transferred to the SmartGolf DB. The DB analyzed the swing data and automatically calculates the swing data on the segment the swing belongs to (defined in levels of skill). Then the data network connects the tokenized swing data to the other swing data of reference. The swing data to be referenced thus connected would be those of a golfer who has a more stable and referential swing trajectory that the original tokenized swing data shares. Therefore, a beginner golfer in need of help can be matched automatically with a golfer who has a swing which is better and most importantly of the similar segment (weighing in the physical condition, power and etc.). Thus, a decentralized connection of swing tokens can accelerate interaction between golfers around the world.

Swing data of academy coaches and even pros can be tokenized and be displayed for sale. Coaches and pros can record their swing data with precision motion sensor based SmartGolf Clubs and organize their swing information into a standardized SmartGolf swing token which can be purchased by the masses who can finally have access to a thorough swing reference which he or she can follow up using the SmartGolf system. This would be a significant improvement from eye-to-eye copy from 'video clips' of pros and objective coach tutoring.



## Urban and Home Location – In-Depth Penetration

Cities and its metropolitan areas are the centers of a country’s economy. The statement is a maximized in America as its cities account for 80% of the entire population while only taking up 3% of the land mass. The recent Census data shows that large metro areas have grown almost 20% with businesses in the area accounting for nearly 58% of the business in the US. This means the cities attract young but a more educated workforce (35% have bachelor’s degree and 69% in the suburbs) with a stable and rising income. Forward thinking companies like Topgolf has approached to institute their locations near cities, but the sheer massive scale of its driving ranges halts them from penetrating the very core locations with the highest potential revenue.

SmartGolf system is lighter in size and weight yet with a more comprehensive entertainment content with a strong comparable forte in the virtual gaming aspect. Which translates to an explosive growth that can attract younger, new and non-golfers right at their doorstep.



SmartGolf System – Simple connection with SmartGolf club and play with friend.



## Social Golf entertainment powered by Blockchain – SmartGolf Plaza

The SmartGolf Plaza is a multi-entertainment space where virtual golf gaming can serve as the next social hub and trendy entertainment proposition. The interaction – social orientated design of the plaza would be a floor equipped with both private and public SmartGolf gaming systems. The center of the premises would be the coalition of F&B joints, standing bar with coach services. users can support other player who compete with other city or country using SGI. Each Plaza will be equipped with multiple booth (Wide screen display and SmartGolf equipment) Users can play a realistic virtual round with the SmartGolf game systems. The SmartGolf games feature world's first 3D avatar coordination. The SmartGolf IoT technology enables the avatar to move a swing in real-time sync with the SmartGolf equipment (user). Users can watch their unique 3D counterparts follow their exact movement and conducting a swing that is exact in visual, power and accuracy of their physical representative. This is unique features by SmartGolf.



SmartGolf plaza comprise of at least 5 SmartGolf decks (SmartGolf equipment + System + Monitor or display screen) which can vary according to the population size being serviced.

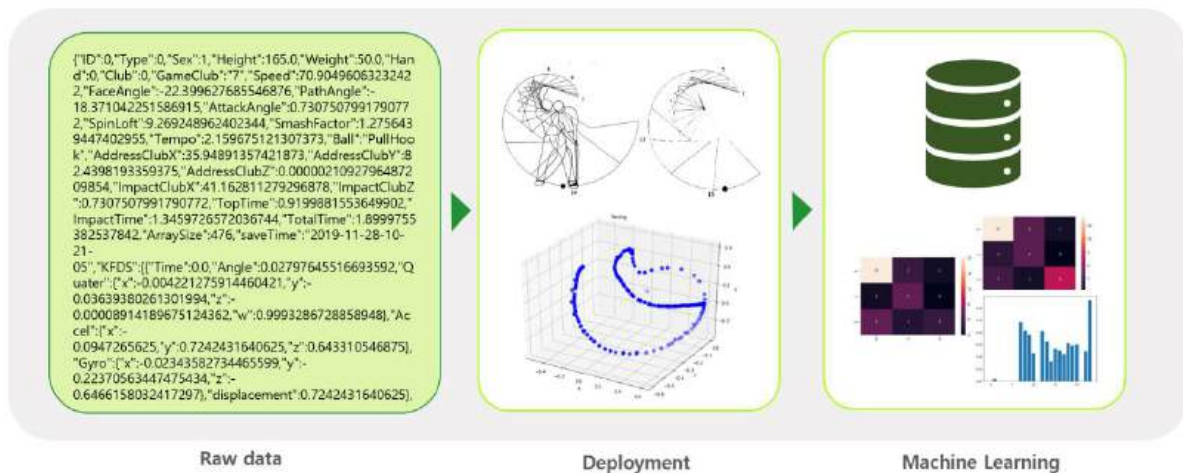
For the site location, rather than just aiming for the most urban and downtown areas with follow with high real-estate and rent fees, SmartGolf Plaza aims at the parts of cities that have recently been focused by millennials retreating from the main central plaza of their cities looking for a unique satellite atmosphere. With considerable rent fees and a massive potential market in these areas, SmartGolf can greet its community customers at their home ground rather than expecting them to visit at downtown.

SmartGolf way of Golf will become a routine not a special occasion or event. Just as Bars, Pubs would be a part of everyone's community life in the golf and coin circumstances.

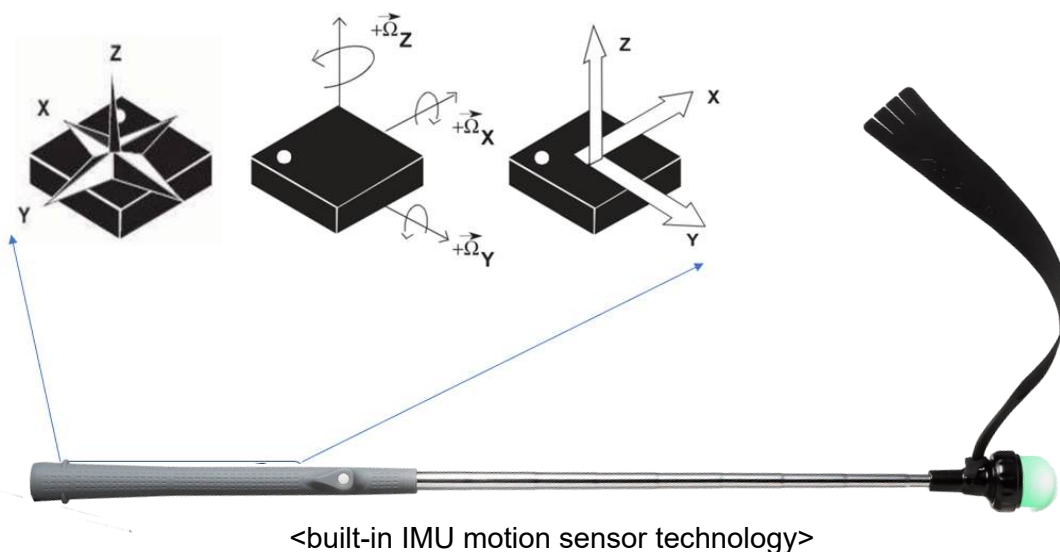
# Technical Solution by SmartGolf

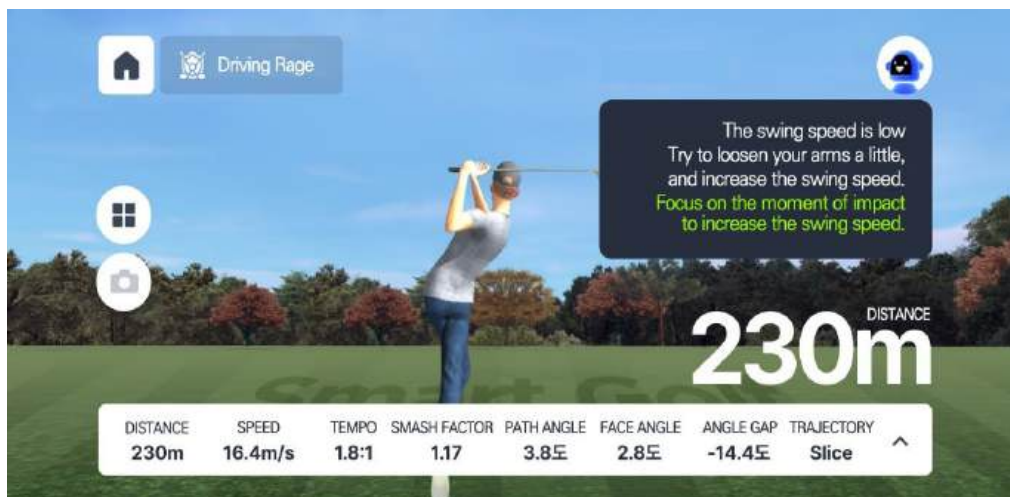
## From Sensor to humanoid Real-time swing traction

Due to the lack of standardized swing measurement equipment, the acquisition of an authentic personal swing data was impossible to achieve. The SmartGolf Club and its swing analysis system is the first standardized swing measurement device that makes way for the possibilities of swing data analysis. The detailed and precise swing data turn to be accurate parameter for swing analysis and ball trajectory.



9-axis motion sensors are built-in at the grip of the SmartGolf Club allowing the precise measurement and analysis of a user swing. The motion sensors measure all the movement during the swing and transfer the modified data to the SmartGolf App. The swing data is then refined and transformed into quaternions which would be utilized for the 3D avatar to express as a humanoid in live virtual movements.



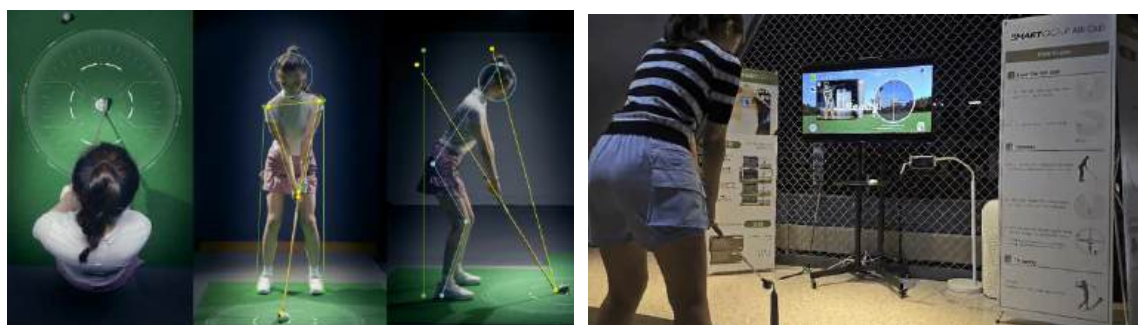


<3D measurement of a swing to the highest precision>

The user's very own swing which is perfectly measured by the SmartGolf Club would be visualized on the SmartGolf app via 3D SmartGolf avatar. The 3D avatar would move in real-time accordance with the SmartGolf Club with simultaneous BLE connection between the SmartGolf Club (motion sensor) and the SmartGolf App.

### Artificial Intelligence – Swing Coach through Machine Learning/Deep Learning

The SmartGolf system incorporates 4,000 user swings that are categorized in to swing posture classification. With this database, typical patterns for each swing classification is actively managed and are used as baseline definitions when determining the type of classification a user's swing. SmartGolf's Machine Learning model is the industry's first when it comes measuring a user's swing metric data to a model's swing library, offering effective diagnosis and relative improvement guidance for each specific swing classification.



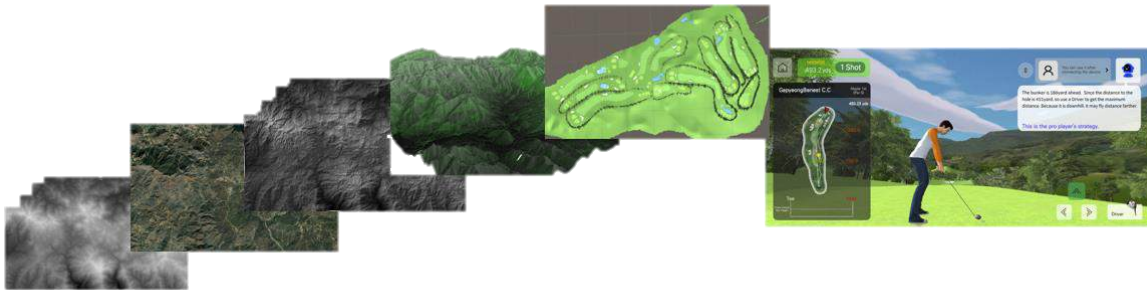
Moreover, analyzing a user's golf swing through image and video through Deep Learning is providing. With the core module of translating the swing movement from video to relevant metrics for deep learning already developed, SmartGolf incorporate swing image sensing and analysis to the already commercialized SmartGolf system.

In order to continue to provide the world's best AI golf coaching service, we will develop a

mixed AI technology of Sensor data M/L and video data D/L to provide convenient automatic coaching services to customers.

## Real Golf courses and 3d yardage coaching

The SmartGolf system is equipped with virtual courses that are exact depictions of real golf courses. In partnership with LiDAR solution company, 350 South Korean golf courses and 200 Japan and the U.S golf courses have been deployed using SmartGolf own converting procedure in App. These data are translated into mesh data that express the course topography, characteristics, and precise yardage service.



The industry's first approach to enabling a realistic virtual golf experience has incorporated real golf maps into mobile virtual golf. Using golf course play-through and tips, users can test their swings on a virtual golf course and play golf games with friends before exiting the actual golf course..





## Blockchain and Golf

*“How can blockchain and its correlated technologies solve Golf industry problems?” – SmartGolf’s Task*

Sport and Golf especially is quite late when it comes to integrating blockchain technologies and its sector. However, the de-centralized ledger distribution technology is on the path to solve major problems in the industry.

Blockchain activities in the golf sports sector can accelerate the industry with the following key insights.

1. Golf data can serve both ends of the market transparently – Service provider <-> User
2. Chance for minor players to receive benefits by ‘tokenizing’ their potential and swing
3. Participation itself can be monetize triggering mass growth of the golf community.

Based on the key insights given above, SmartGolf can successfully integrate blockchain into Golf practice and entertainment. **SmartGolf, the most accurate system to date, is an innovative platform that combines cutting-edge technology with the world of golf.**

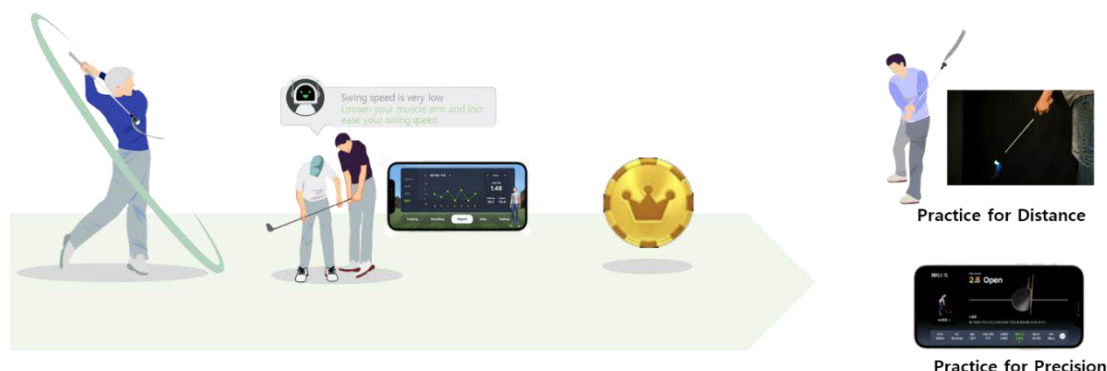
### Monetizing a golfer’s swing



When practicing and in action at the course, golfers make countless swings just with purposes ranging from warming up to making good shot. However, their efforts are quite easily disposable as the swing that the golfer has conducted with much sweat is no longer of ‘great’ importance once the ball has landed. Pros and Golf celebrities tend to get their swings replayed back and forth on the media and academies but no benefit is given.

From a beginner to a pro, each and every swing is of great importance that can benefit the swinger and the golf related companies. For the golfer, the numerous swing data he or she provides can be saved into each golfer’s wallets for storage. The stored golf swing data is to be tokenized and be utilized as ‘classification metrics’ that can connect golfers with similar swing characteristics. If an intermediate golfer wishes to improve by taking an advanced golfer’s swing (but in accordance in characteristics) as a reference, the intermediate golfer can purchase and obtain the advanced golfer’s token and utilize it for swing practice. This decentralized interaction between

golfers can accelerate the user experience of individual golfers and sprung an influential golfer exchanging their own swing data as Token.



## Fueling a new Golf entertainment / E-Golf, Golf socializing

The recent shift in the paradigm that Golf is only to be played on a country club has brought the introduction of verified forms of Golf such as entertainment driven driving ranges (TopGolf) and virtual simulator places (Golfzon). However, the valued participation golfers and even non-golfers have given to these rising golf companies have been not rewarded popularly.

The SmartGolf rewards users in return of their valuable participation using the SmartGolf system either for personal golf practice or virtual gaming experience at a SmartGolf marketplace (plaza). Masses visiting and playing in SmartGolf plaza on the virtual golf course would be given SGI points in forms of game experience points and prize money. The SGI points obtained in the physical plaza can be converted into SGI coins and used right in the exact marketplace in means of purchasing F&B, and other forms of entertainment.

Alongside hands on experience in the SmartGolf plazas, a gallery zone would be placed or friends and spectators to support(bet) SGI coins on their neighbors' game at the SmartGolf booths. The gallery zone is to be one of the major marketplaces for the SGI coin encouraging both the supporting(betting) user and the user being betted on to further engage in the marketplace.

## SmartGolf Blockchain – Smart Contracts

The SmartGolf blockchain will use the SmartGolf point and SGI coin as the main facilitator for and storage of user contracts and data interaction. The SmartGolf comprehensive platform and the SmartGolf Plaza marketplace gives a wide spectrum of opportunities for smart contract transactions and swing data exchange. SmartGolf is the beginning of an era where Golfers can evaluate and monetize their own swing data, thus the SmartGolf development team has fully vetted the blockchain ledger systems ensuring its security.

## SmartGolf Blockchain – KYC by swings

Every swing is recorded as an 3D manner within 200 blocks in second. Swing blocks consist of 15 IMU sensors value, quaternion position, and time stamp. Each swing represents in 3D

manner as for presentation of individual uniqueness. In the SmartGolf, user swing can be used as a KYC method.



## SmartGolf Economic Model / Use case

### Market opportunity

Global 65M golfers play golf rounding. And golf is No1. Sports, want to learn, in young generation. 95% golfers want lesson to increase distance and accuracy. And for the young generation affordable price and accurate lesson tools needed.

- In the U.S, there's 25,600K golfers.
- 12,400k people enjoy at TopGolf, ScreenGolf, and Driving Range.
- Golf equipment market size is USD 15.8 billion at a CAGR of 3% in U.S.
- There are 20,313 high schools in U.S
- Global market size will reach up to USD 45 billion within next 5 years

### The SmartGolf economic model is based on three principles.

1. Cryptocurrency (SGI coins) is supported in the real golf economy (SmartGolf ecosystem)
2. All users and players with the SmartGolf system must be given benefits according to their participation.
3. Distribution and ownership of data is given the utmost priority to the data generator – user and the user community.

SmartGolf digital wallet is the fundamental core of the SmartGolf ecosystem include SmartGolf plaza. SmartGolf wallet would be created alongside the initial profile signup of the user. Individual SmartGolf data will be stored on the SmartGolf wallet which can be accessed and viewed or shared by storing a permission on the blockchain system.

### The key features and benefit on SmartGolf

- Swing analysis: Accuracy proven by TTA and PGA pros
- Golf course simulation and yardage: global 500 golf courses
- Online match game: Play with friends and competitor
- SmartGolf product
- Item in App: Costumes, Clubs
- Enhanced AI coaching: Increasing distance and accuracy coaching lesson
- **Swing Token: Download and compare the champion's swing**
- **F&B: Usable in SmartGolf Plaza**
- **Real courses usage: Certificated global golf courses by SmartGolf**



<Golf swing data and biz flow>

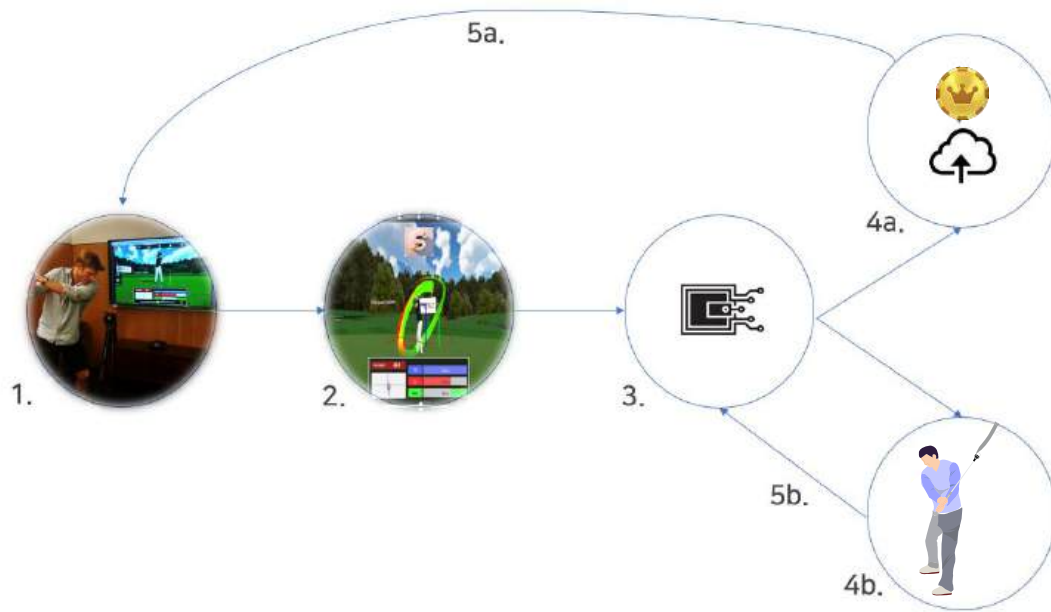
The individual SmartGolf data that is stored on the SmartGolf wallet from the user's interface would be SGI Points. The tokens would be acquired and stored in two different methods.

- User's recorded swing data which is tokenized thus merchandized which can be valid tokens rewarded in return of active participation with his or her swing data to the SmartGolf swing database. The swing token can be uploaded on the network for data analysis and then prescribed an according equipment/practice virtual coach. Moreover, advanced golfers who possess a referential and superior swing can list their own swing token for sale to be purchased by golfers who would be benefited from acquiring the alpha swing. Without the interference and management of an official Golf coach, golfers among themselves can exchange, share or even purchase the swing tokens and engage in the most interactive sports practice network.
- Users can engage in the virtual SmartGolf rounds either at SmartGolf Plaza or at their homes on the SmartGolf course. Users can choose the actively participate on the rounds playing for themselves in return of reward tokens given accordingly to the game scores and results. Gallery mode in the SmartGolf rounds allow users to spectate, support and bet on other players and in which the entire process will be done with SGI Points and Coins. These tokens either earned after a round or from betting spoils will be stored and recorded on the SmartGolf wallet.

Showcase how Golf Coin will be used as a digital asset within the SmartGolf ecosystem to facilitate transactions and unlock various services as below Use case I, II, and III.

## USE CASE I

A user at home swings with the SmartGolf Club for a practice and the swing is recorded and saved on the SmartGolf App. The recorded personal swing data is tokenized and saved as swing tokens on the user's SmartGolf digital wallet. The user can either choose to 1. proceed in uploading the swing token to the SmartGolf DB for a return of big data analysis results/prescription of according equipment/methods training or 2. List the swing token on the user level marketplace in which it can be purchased by a user who wants to purchase and take it as reference.

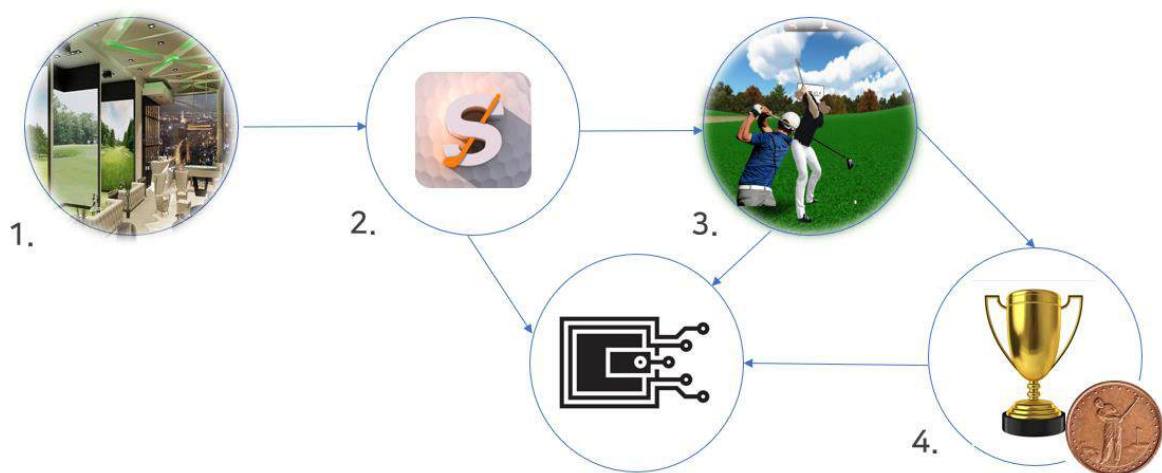


1. SmartGolf system – The user swings and the swing data is generated
2. The swing data will be analyzed, visualized on the SmartGolf App.
3. The swing data will then be tokenized then stored on the digital wallet.
4.
  - a. The owner of the token can either upload on the SmartGolf network
  - b. Adequate equipment and practice methods are given and recommended to the user based on the information in the token.
  - c. The owner of the token can list it on the user community market.
  - d. Users can purchase the swing tokens with a favorable or a more advanced swing token and utilize it for their own practice.



## USE CASE II

Group of friends visit a SmartGolf Plaza in which one player “James” chooses to engage another SmartGolf user in the multi-SmartGolf virtual round. Jack’s company “Nigel” chooses to be a gallery of the round and bets his tokens on his friend James via SmartGolf Wallet. James has won the multi- round he engaged with another SmartGolf user and is rewarded SGI points and prize money. Nigel who has placed his tokens in favor of his friend receives his allocation as he has taken his bet on the winning player. Both friends are rewarded SGI points/SGI coins which are saved in their respective SmartGolf Wallets.

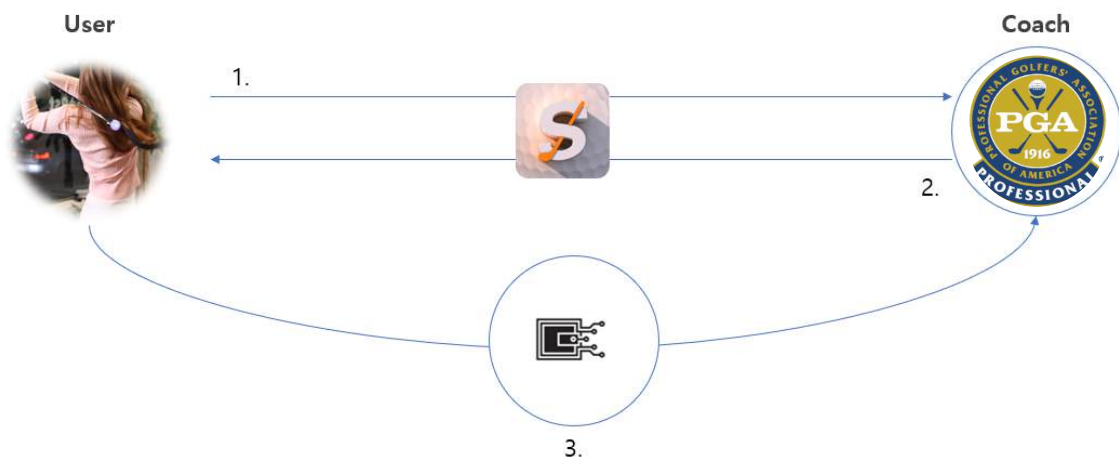


1. SmartGolf Plaza (Could be done at home with SmartGolf app + equipment)
2. Player and Galley log in to the SmartGolf System.
3. Engage (rounding on course or betting as gallery) in the virtual multi-round on SG course.
4. Wins the round and received prize (tokens) as reward.



### USE CASE III

An experienced user in the SmartGolf platform wishing for a virtual yet comprehensive coaching would be matched with a proper PGA and SmartGolf certified coach. The user's swing in both previous sessions or through a live training link would have their swing metric and posture reviewed by the coach through the SmartGolf system. The coach would give focused feedback on parts of the swing the user needs to improve, and the user can apply the feedback into the swing which can be monitored by the coach in real-time or after sessions. The tuition fee can be paid through the SmartGolf digital wallet.



1. SmartGolf system – The user swings and the swing data is transferred to a matched coach.
2. The swing data will be analyzed, visualized on the SmartGolf App for a detailed review

from the coach followed by specific instructions on methods to improve the user's swing.

3. The overall tuition fee is paid through a transaction via the SmartGolf digital wallet



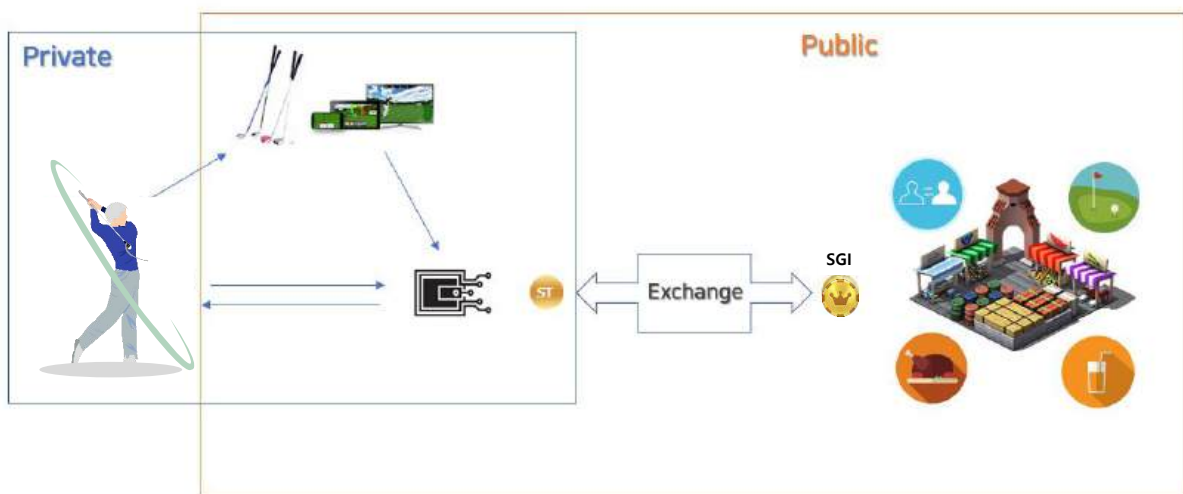
# Lessons for students at school is contracted in advance, so there is no need to pay individually with a digital wallet.



# SmartGolf Ecosystem

## Point/Coin

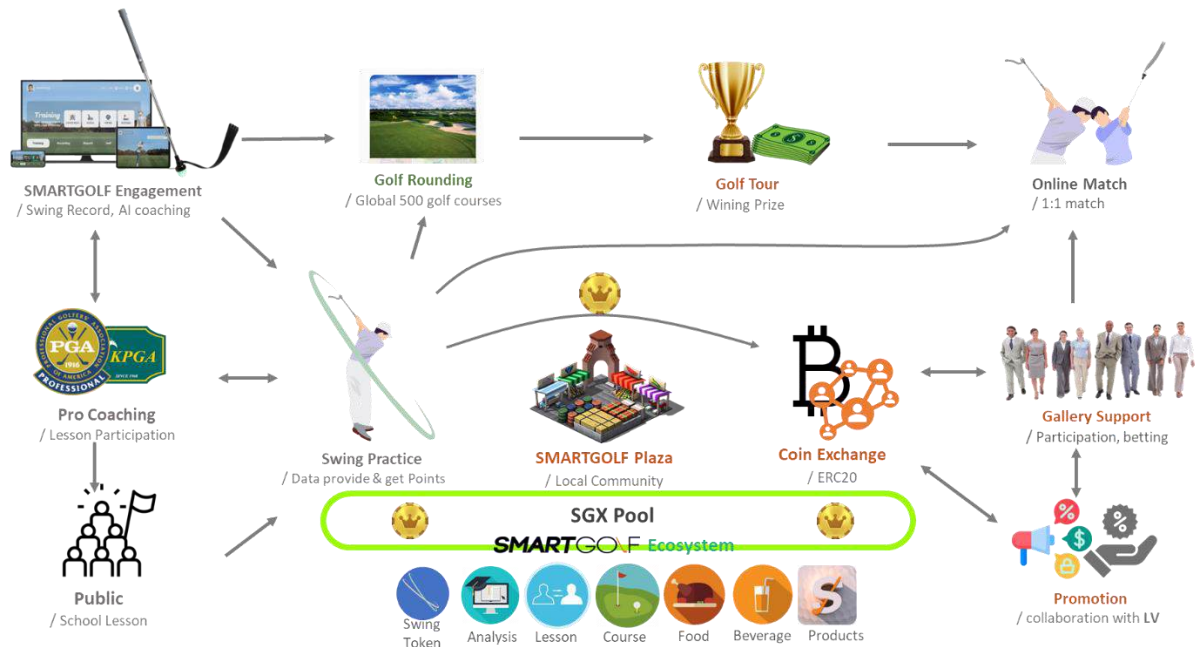
SGL points obtained or mined with the SmartGolf swing is a private token used for the purposes listed above and stored in the SmartGolf digital wallet. For public usage, the SGL Points would have to be exchanged into SGL coins. SGL coin is the cryptocurrency that is to be the base currency at the SmartGolf market place. The SGL coins can be used within the platform in the following ways.



1. User get SGL points with SmartGolf swing basically.
2. Normal swing get 1 point, Excellent swing get multiple points.
3. SGL points can be exchanged to SGL coin
4. SGL Coin owners can purchase SmartGolf products (equipment/app services) and SmartGolf Plaza rent fees.
5. SGL can be used for SmartGolf Plaza content such as Food & Beverage services, catering.
6. SGL is the currency that is for supporting(betting) purposes during the SmartGolf game spectate perspective.
7. SGL owners can utilize their ownership of SGL for entrance and membership of actual Golf courses and clubs.
8. SGL owners can exchange the coin to currency at appropriate exchanging place.

## SmartGolf – Pool

SmartGolf includes three different parts, a user reward/participation mechanism, marketplace and SmartGolf DB. The detail of each respective layer will be discussed in detail with the model of the entire ecosystem consisting of components, permissions and actors.



SmartGolf ecosystem is based on three major components.

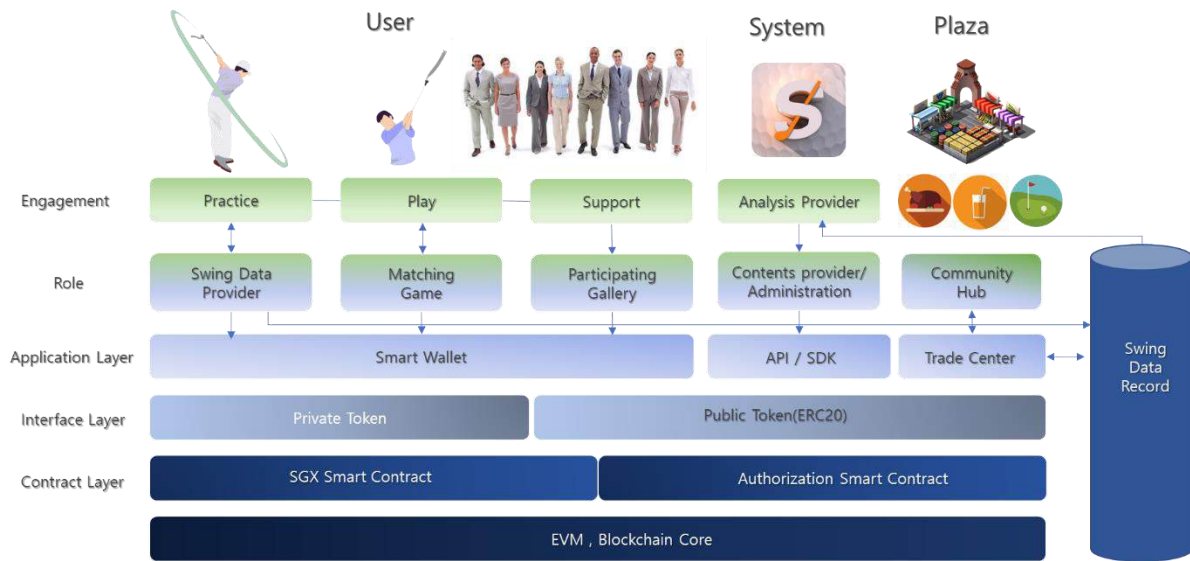
**SmartGolf Platform:** core components and system developed by the SmartGolf team and partners.

**Blockchain:** SGI Points, SGI coin, SGI NFT, Smart contracts, and crypto wallets.

**User Community/Marketplace:** SmartGolf Plaza where tokens can be mines(acquisition) and coins could be spent (Plaza content) Community of Golfers who are interactive with one another in a de-centralized network. Exchanging each other's swing data for improvement, virtual rounds and tournaments played on the SmartGolf platform.

Classified into SGI Points and SGI coins, the reward and exchanged cryptocurrency is a key element which ignites interaction between users/players and the source to fuel the new Golf cultural environment of the SmartGolf Plaza.





<SmartGolf Blockchain Structure>

SGL points and SGL coins are the method and utensils in which golfers are connected with each other and have the right to determine which game or swing is best fit for one another based on factual calculation powered by blockchain, rather than a traditional subjective person to person, mentor-mentee relationship. In order to decrease the network usage and omit surplus transaction time, the SGL Points would act as the private token being flowed into the SmartGolf platform, what users can mine through uploading their swing data or playing on the SmartGolf virtual courses. The main cryptocurrency, the SGL would be the main token having actual value on the provided SmartGolf marketplace. SGL would have supreme value and would provide the most efficient and effective asset in acquiring SmartGolf private tokens which would naturally lead users to purchase SGL directly from the Ethereum cryptocurrency blockchain pool.

### SmartGolf – Charitable donation

Golf coin holders can donate their coins to initiatives approved by environmental charities or SmartGolf. This allows golfers to directly contribute to conservation efforts and promote golf ecology across the course. More systematically, SmartGolf contributes profits to the following activities for 50% of the business revenue involved.

1. Golf education for future generations: providing system supply and coaching for golf learning in schools and youth organizations

This aligns with the concept of sustainability in golf and promotes ecological responsibility.

2. Green courses for Environment: Golf courses that support eco-friendly initiative on

environmental golf courses such as water conservation, reforestation, and wildlife preservation on golf courses.

3. Community engagement: Transparent events focused on promoting golf ecology, such as community clean-up days, tree planting initiatives, or wildlife habitat restoration projects. Participants can earn Golf Coins as rewards for their contributions.

## **SmartGolf – Value governance**

1. Value maintenance policy

SGL coins is managed to maintain their value, allow new users to enter the ecosystem, and ensure that the ecosystem operates smoothly. For value management, golf club sales proceeds, copyrights, game server usage fees, etc. can be deposited into the ecosystem.

2. SmartGolf traction

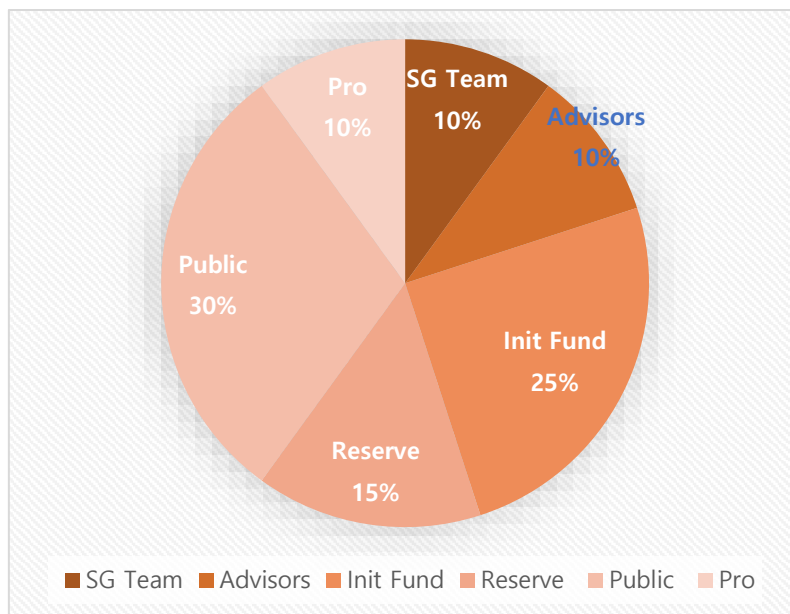
- Engineering & testing complete
- Two patents registered in United States (9 IPs from Korea)
- PGA pros endorsement the accuracy and usability
- 5 schools in Houston Tx used it as educational tool in P.E class.
- 4K units sold though crowd funding through low volume production.
- Selected la tech 2024 of Sportive in VivaTech, France.

3. Uniqueness of SGL ecosystem

SmartGolf's hardware and software for the SGL ecosystem are complete, and the accuracy of its SW analysis and sophistication of trajectory expression are already well-known. Therefore, a standout advantage in the cryptocurrency field is that the burden of development to create an ecosystem and the verification of the effectiveness of the development results have already been completed. Moreover, it is a big advantage that a certain portion of the commission for the equipment being sold and the commission for the matching server can flow into the ecosystem.

## Token Sale Overview

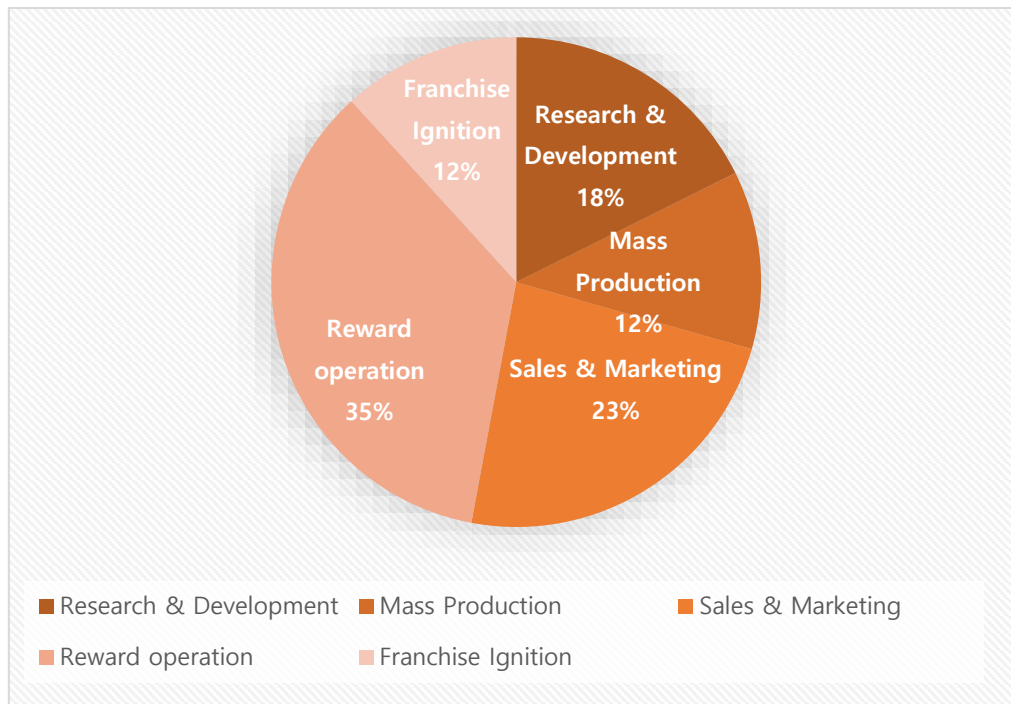
### Token distribution



Token Allocation:	% of total	# of SGI
Early Investors	10%	40,000,000
Private Investors /	15%	60,000,000
Public Offering	30%	120,000,000
Partner	10%	40,000,000
Mentor & Advisor	5%	20,000,000
Founder & Tech Team Holds	10%	40,000,000
Business Development Reserve	15%	60,000,000
<b>TOTAL</b>	<b>100%</b>	<b>400,000,000</b>
<hr/>		
Ultimate Ecosystem Ownership	58%	232,000,000

<b>Token Supply</b>	<p>400,000,000 SGI Coins</p> <p>1 USDT(0.0017BNB) = 1 SGI</p> <p>Funding Coin = USD(BNB)</p> <p>MOQ = 1,000 USDT</p> <p>Soft Cap = USDT40,000,000</p> <p>Hard Cap = USDT400,000,000</p>
<b>Club Rewards</b>	<p>Gray club = USD 300</p> <p>Gold club = USD 3,000</p> <p>Individual Investor inApp receive the club by InApp function</p> <p>Gold club can contain hierarchy 10 gray club's points.</p>
<b>SGI Point &gt; SGI Coin conversion</b>	<p>1000 SmartGolf Point &gt; 1 SGI</p> <p>300 Good Swing Point &gt; 1 SGI</p> <p>1 SGI &gt; 1 USDT</p>
<b>Early bird incentives</b>	<p>@ Discount to Offering Price</p> <ul style="list-style-type: none"> <li>➤ 5M ~ 50M : 35%</li> <li>➤ 500K~5M : 25%</li> <li>➤ 100K ~ 500K: 15%</li> </ul>
<b>Lockup</b>	No Lockup
<b>Order Confirmation:</b>	Aug 15 <sup>th</sup> ~ Aug 31 <sup>st</sup> (Early bird)
<b>Funding Schedule:</b>	Oct 1 <sup>st</sup> ~ Nov1 <sup>st</sup>
<b>Public(LaunchPool)</b>	Nov 15 <sup>st</sup> ~ Nov 31 <sup>st</sup>
<b>Expected Listing:</b>	2025. Jan.

## Funds allocation



## Funds restoration and augmentation

Funds spend on initial production including following R&D, mass production, and some part of Marketing, will be restored, and additional gain may be added to the funds generated by utilizing the SmartGolf system. The amount of increased reinvestment of those gains into the fund is limited to no more than 3% per year.

- Golf specific AI: Accumulated swing data used the basement of Machine learning for coaching and Fusion tracking with Deep learning is developed as the uniqueness of SmartGolf
- Gamification and Achievements: Implement a various way of gamified system where users can earn Golf Coins by achieving specific milestones, improving their swing, or completing challenges.
- Partnerships and Collaborations: Forge partnerships with golf-related brands, equipment manufacturers, and golf courses in App. Allow users to use Golf Coins for discounts or special offers from these partners, creating a mutually beneficial ecosystem.

## Investor's benefit

- Discount incentive: Early bird benefit
- Stability: The points and Coin are generated by swing, sweat, and concentrated effort.
- Fund homeostasis: Coin value increases as users increase due to limited amount of Total coin

- Transparency: R&D, Production, and Marketing resource will back to the fund. Control of increase or decrease funds is operate very transparent way by Non-Profit Organization.
- Endorsed Project: Accuracy and Usability of SmartGolf system is proven by PGA pros

# Timeline

## Roadmap





**OCT 2023**

PGA Pro's Endorsement  
First Tee in U.S LAUNCH

**#COMPLETED**

**JAN 2024**

5 School Houston, TX. US

**#COMPLETED**



**MAY 2024**

La Tech 2024 @ [VivaTech](#)

**#SELECTED**

**OCT 2024**

Partner of [Expand North Star2024](#)  
SGI Early / Private Investment



**JAN 2025**

Air drop at PGA Merchandise Show 2025  
SGI Public Investment / TOKEN Marketing

**MAR 2025**

Europe Marketing at MWC2025  
Binance LaunchPool Campaign





## Team Member

- SmartGolf Founder: Experience in multiple industries, The world first wireless internet project manager at Kore Telecom in 1999, Continuous development SmartGolf with scientific method since 2015
- PGA pros ambassador: Endorsing SmartGolf, Expanding SmartGolf as scientific practice tool
- Marketing Agency: Influence marketing focus on bringing new product to market

## Core Team



**Jongmin Kim**

CEO  
Ex) Prof. of SSK Univ.  
Ex) PM of KT Wireless Internet  
Ex) CEO GOMID inc



**Jungjoo Kang**

V.P Technology  
CEO WebPrime corp.  
IT solution MS, KT

## Advisory Board



**Jacob Hodges**

Director / Principal @  
Global BTG LLC



**Carl-Mikael Wilhelmsson**

Senior top exec. FMCG incl.  
Nintendo



**Khalil Vinson**

Partner Business Executive  
Founder Tech Fest Live



**Terry Williams**

Fractional CTO Synergy  
V.P. of SmartGolf LLC

## Ambassador



PGA Director  
**JJ Wood**



PGA Pro  
**Steve Jurgensen**



PGA Pro  
**Steve Parker**



PGA Champion  
**Heinz Schmidbauer**

Best Young Teacher in  
America @golfdigest  
PGA director of instruction

Winner Korn Perry Tour  
New Hampshire Open  
New Mexico Open

Director of PGA  
Head coach of Black  
horse town C.C

Hungarian PGA Championship 1995  
Dubai Pro/Am 1997 - 1st Division -  
Winner (5th place in individual)

## Risk Factors

The purchase of SGI coin (hereinafter referred to as the "Coin" ) may be associated with a high degree of risk. To protect the interests of Token's potential purchasers, SGI team conducted an analysis of such potential risks and outlined the result of this analysis in this chapter of the Whitepaper. **IMPORTANT: THE LIST OF RISK FACTORS DESCRIBED BELOW IS NOT EXHAUSTIVE. IN ADDITION TO THE RISKS DISCLOSED IN THIS WHITEPAPER, THERE MAY BE EXISTING OTHER RISKS WHICH SGI TEAM AT PRESENT CANNOT REASONABLY FORECAST.** These risks can materialize in other forms of risk than those specified here. Prior to acquiring Tokens, each potential Token purchaser is advised to carefully review all the information and assess the risks of such purchase, including but not limited to, the risks set forth in this Whitepaper and to decide upon purchase of Coin based on such assessment.

Technical and technological risks.

- Risks of the blockchain. Tokens are released on Ethereum blockchain. In this regard, any malfunction of the Ethereum protocol may lead to a restriction in the use of Coin, and/or to the fact that Coin or the platform will function in an unforeseen manner.
- Risk of hacker attacks on the platform, smart contracts, or Coin. Coin can be expropriated and/or stolen, by hacking Tokens, or otherwise. Hackers or other groups or organizations may attempt to intervene in a smart contract or Tokens in various ways, including, but not limited to, virus attacks, DDOS attacks, concerted attacks, network attacks, and denial of service attacks, and others. In addition, since the Ethereum platform is based on open-source software, there is a risk that Ethereum smart contracts may contain intentional or unintentional errors or shortcomings that could adversely affect Coin or lead to loss of Coin, or loss of access or control Coin. In the event of such an error or weakness of the software, there can be no remedy, and tokens owners are not guaranteed any compensation or compensation.
- Risk of a hacker attack on the computer of the token holder, or loss of passwords / of private keys. Purchased Coins can be stored by the coin holder in her\his digital wallet or safe, for which a password, a digital key or a combination of digital keys is required. Accordingly, the loss of the necessary keys associated with such digital wallet or safe can lead to loss of access to Tokens. In addition, any third party that gets access to such passwords and/or private keys (by way of getting (through hacking, or negligence of token-holder) access to login credentials of token-holders' hosting wallet, or otherwise), will be able to use Coins of the coin holder. SGI assumes no liability for such losses.
- Risk of using new technologies, and changes in technology in the future. Coin and blockchain are fairly new and relatively untested technologies. Although at the moment they have largely proven their efficiency, reliability and security, there is no guarantee that in future these technologies do not fail in any way. Further, as technological progress develops, flaws can be found in these technologies, which flaws will prevent their functioning in the way that they function at the moment. Finally, there is no guarantee that these technologies will be compatible with any new technologies invented in future. In the event of such incompatibility, use of Tokens and blockchain can be found unreasonable and stopped.
- Risk of incompatibility of the crypto wallet service. An electronic crypto wallet or wallet service provider that token-holder has chosen \ will choose for obtaining and storing Coin, must be technically compatible with Tokens. Failure to comply with this condition may lead to the fact that the token holder will not be able to get access to her\his Tokens. Token holders must independently determine the fact of the compatibility of the crypto wallet she\he registered, with the Coin. SGI assumes no responsibility for any errors related to the wrong determination of the above fact.

Regulatory Risks.

- Risk of regulatory uncertainty. Regulatory status of cryptographic tokens, digital assets and blockchain technology, is unclear or not defined in many jurisdictions. It cannot be excluded that such technologies, and, in particular, Tokens, will in future become subject to one or more (adopted or new) interpretations of laws (or other regulations), court judgments, or actions by various regulatory bodies around the world, including, but not limited to, the imposition of restrictions on the use or possession of digital tokens, such as Coin. Such changes can adversely affect Tokens in various ways, including, for example, by determining that Tokens are regulated financial instruments that require registration or compliance with other legal requirements and procedures. SGI may stop distributing Tokens, developing a platform or terminating operations in a particular jurisdiction if the actions of regulatory authorities of the relevant jurisdiction make it illegal or not commercially viable to proceed.

- Risk of inability to obtain, maintain or renew licenses and permits. As of the date of Coin sale, there are no statutory requirements requiring SGI to obtain any licenses and permits necessary for the sale of the Tokens, but the risk that such legislative requirements may be enacted in the future cannot be ruled out. In this event, the possibility of a sale and further use of Tokens will depend on the procedure of issuing such licenses and permits, and on compliance with their terms. We cannot exclude that requirements of the law will be technically or economically unachievable for SGI. SGI may stop distribution of Coin, develop a platform or terminate operations in a particular jurisdiction in the event of economic, technological or another inability to obtain the required licenses or permits under such jurisdiction.

- Risk of governmental action. The industry of blocking and reversing tokens is new, and simply by virtue of novelty can be subject to increased supervision and regulatory control, including investigations or enforcement actions. There can be no guarantee that the government will not study the activities of the parties. All this can be investigated, which in turn can have a significant negative impact on Coin and/or platform development.

#### Business risks

- Risk of failure in development. It cannot be excluded that for various reasons, including but not limited to, for reasons of insolvency of business or technological strategies or business arrangements, technological problems, emergence of new technologies, etc., that the model that SGI developed and described in this Whitepaper, will not achieve the desired functionality, be inoperative, or work in a way different from what developers designed it for. Also, we cannot exclude the risk that for these or different reasons, development and implementation of the model can take longer than SGI predicts at the moment, and when the model is ready, it will appear to be outdated and/or irrelevant.

- Risk of insufficient implementation. It cannot be excluded that, for various reasons, including, but not limited to, for reasons of insolvency of marketing strategies, external constraints, or competitors' actions, the model developed by SGI and described in this Whitepaper model may appear to be unpopular and/or unclaimed, lacking use and application.

- Risk of dependence on third parties. Even after the launch, the model developed by SGI and described in this Whitepaper will rely, wholly or partially, on third parties, for adoption and implementation of certain functions, as well as for continuing its development, maintenance and support. Though above-mentioned third parties are carefully selected by SGI team, there is no insurance or guarantee that these third parties will do their job properly, or otherwise meet users' needs, and this can have a significant adverse impact on the platform.

- Risk of loss of cash. The project described in this Whitepaper, the model developed by SGI, the platform being created, as well as any funds collected within the framework of the ICO described, are not insured. In case of failure of the project for any reason, loss of functionality of the Token or platform, there is no private or public insurance representative to whom token-holders can apply for reimbursement.

- Risk of force majeure. In the future, there may be extraordinary circumstances that SGI cannot reasonably anticipate or prevent and that may be subject to restrictions or impediments to the operation of SGI or Coin platform.