

GECASCOIN WHITE PAPER



GECASCOIN

Recently, there is an increasing need for fossil energy depletion and low-carbon green growth. For this reason, interest and investment in alternative energy is increasing rapidly.

The Gecas Group produces renewable energy through legitimate laboratories such as parking lots around the world. This focuses on projects that reduce carbon emissions. In addition, we have established the World Environment Foundation in collaboration with the World Golf Association, which has contributed to golf development for more than 160 million golfers around the world for the last 30 years. So, I will introduce and introduce the 4th generation block chain which combines Big Data and Artificial Intelligence, which is representative technology of the 4th Industrial Revolution, with world famous university computer scientists.

We have applied the block chain technology for the first time in the history of cryptography and have a structure that generates revenue through value for coin users. In addition, it has a characteristic that it can take profits generated from solar power plants and a large number of profits which have dividends generated

from various projects operated by the JICAS Group. The core of this system is block scraping program based on big data and block chain technology based on computer system to distribute dividend profit. Also, in everyday life, this coin is as easy to use as cash, so you can get more discounts on cash, world tour, health care, home shopping, restaurants, golf resort screen golf and more. This is the only advantage Gecas coin has it.

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1. Overview

The GECASCOIN platform is a special third-generation block chain based on Big Data and Artificial Intelligence networks exclusively for GECASCOIN, and the actual coin is faster than a credit card.

Although GECASCOIN can easily be extracted from existing GPU mining methods, which consume huge amounts of electricity, it is a system used for mining by new mining methods and for new renewable energy users. It is self-evolving decentralized money.

In the GECASCOPN block chain, the existing Bitcoin Blockchain is fixed and modified to work with smaller blocks. It is also a password that can be used for cash payments in real-time and fast.

The company offers electronic wallets that support a variety of devices that can use GECASCOIN wallets for smartphones as well as for all operating systems around the world. In addition, GECASCOIN wallets can be used in future upgraded operating systems.

GECASCOIN further developed and stabilized the X-13 algorithm to become POS / POWs. The profits gained from cutting-edge computer systems, photovoltaic power generation and various projects of big data and artificial intelligence are only the first investors in the 3 : 6 : 1 GECASCOIN rule. It is the best coin system on the planet to give happiness and joy to everyone in the world who wishes to rescue GECASCOIN and GECASCon users at a foundation rate.

1-1 What is Money?

If it can not be used in real life, is it money?

What are the requirements for passwords when in actual use?

- ▶ First. Do you have a physical vendor?
- ▶ Second. Is it safe and fast payment speed?
- ▶ Third. Could it have stability in property preservation and increase?
- ▶ Fourth. Is it possible to gain trust from risks such as hacking or tampering?
- ▶ Fifth. Is it possible to earn monthly money in a wallet in proportion to the number of coins instead of merely benefiting from the coins?

GECASCOIN has all five of these requirements and can be used as a real-time encryption tool. Block merchants who can not hack and counterfeit online merchants and online mobile or PCs have wallets that can be safely stored.

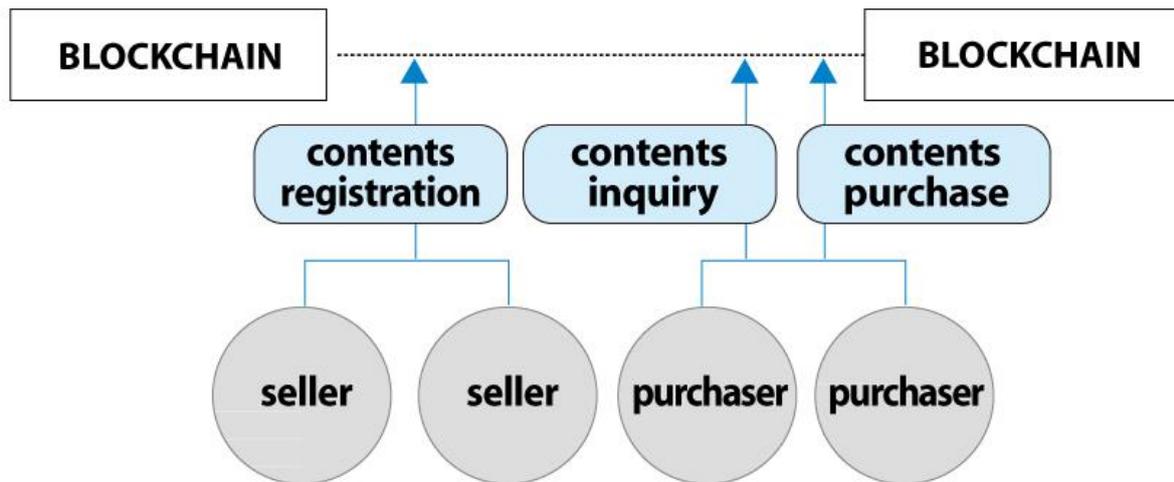
1-2. GECASTALK

The GECASCOPN platform TALK, an SNS type, is made of block chains and can be stored in GECON faster and more securely than existing cryptographic systems to ease the burden on the central server.

Merchants, shopping malls, membership management, clubs, meetings, payments, remittance, etc. can be used with confidence in the block chain. It is a new concept and new technology that only GECASCOIN, created by computer scientists around the world, has it.

1-3. GECAS Contracts란?

A contract that is executed securely based on a protocol layer called BlockChain. It is not possible to authenticate and forge both parties of a block chain. This can help create a transparent society by making secure P2P transactions.



1-4. Future technology disclosure

The GECASCOIN technical team will release GECASCOIN Block chain and all source code around the world, leading encryption development, and providing a variety of API's to enable GECAP.

1-5. Digger

Cryptography is attracting interest as a means of replacing traditional call distribution. However, traditional encryption will create blocks with Proof-of-Work / PoW, which should improve your computing performance over time.

Therefore, large mines are operated and a huge amount of electricity is consumed. These results are due to problems with the bitcoin and Ethereum hash algorithms and the increased difficulty and half-life.

GECASCOIN was born by researching and developing a new hash algorithm and mine method to solve those problems. It is designed to allow the extraction of large amounts of coins without the use of enormous computing power.

A new concept of encryption has emerged that can change the flow of encryption funds while keeping the environment clean, like the slogan of keeping

GECAS alive and making humans happy.

GECASCOIN is firmly established as a good currency to protect the environment and protect the planet. Developing various programs based on the Internet and GECASCOIN is best for passwords.

GECASCOIN proposes a hybrid coin that combines the difficult to understand / POS method of earning user balances and paying for mining rewards in existing proof of work plans.

The proposal includes a polymorphic hash tree to generate a hybrid algorithm and a cryptographic algorithm that uses eleven different sequential secure hashes.

2. General

BLOCKCHAIN was first conceptualized in NAKAMOTO SATOSHI's paper "BITCOIN: PEER-TO-PEER ELECTRONICS CASH SYSTEM" in 2008 and implemented as core technology of BITCOIN the following year.

2-1. BitCoin utilizes Block Cane technology as a financial transaction ledger where an individual personally records remittance information.

This is the first example of using a block chain to solve a double billing problem.

Despite the absence of a centralized manager, BitCoin has successfully supported more than 200 million peer-to-peer transactions and is currently achieving a market cap of over 180 trillion won.

After the success of the bit coin, a variety of systems using block-chain technology emerged.

Thousands of ciphers are currently in competition, and according to recent IBM reports, over 90 percent of banks are investing in block technology.

2-2. Two-to-two exchange rate trading is the most common application of block chain technology, but attempts to manage other digital assets such as financial products and services, logistics information, property and various identity information groups are also diverse.

In 2016, the encrypted currency, Ethereum, received a great deal of attention.

Ethereum is a "Rockchhain" contract with a complete language that can be used to implement arbitrary state transitions and provide smart contracts to the blocks.

The goal is to allow users to write all sorts of programs (or contracts) into the

block chain.

Like Bitcoin, Ethereum uses a contract framework with Blockchain to ensure that malicious nodes are ultimately removed from the Blockchain when they contract.

The bit coin ensures the amount of transfer bit coins between the accounts is perfect.

Likewise, Ethereum should also ensure the integrity of the executed contract.

Smart contracts can be a paradigm shift in distributed application development.

Even if the program is not on a centralized server, the same logic can be run anywhere. Smart contracts can be used in projects to develop distributed markets, currency trading platforms, or distributed global supercomputers.

However, the freedom and flexibility of Ethernet-based tunneling is causing some serious problems.

We think it is inappropriate to use the Turing Maturity to make a smart contract because it is essentially impossible to determine.

Due to this nondeterministic problem, smart contracts based on tunneling integrity do not know how this works until smart contracts are implemented.

We have tried to overcome this problem by applying cost (gas) for Ethereum calculations.

However, problems inherent in the language itself used to develop and run smart contracts have created a series of security vulnerabilities that have resulted in projects such as DAO.

Turing completeness: that any programming language or abstract machine has the same computing power as a Turing machine. 'The device that performs the algorithm'

3. Proposal

GECASCOIN seeks to inherit the advantages of developing a platform that complements the weaknesses of existing cryptography and enabling it to be used in real life as well as smart contracts.

In addition, through GECASCOIN, we try to solve common repetitive problems related to encryption.

Decision-making and decentralization lack systematic decision-making processes.

In the world of cryptography, there were several problems, such as confusion and substantial financial loss due to the absence of a decision-making process.

GECASCOIN has chosen software to continually improve its overall ecosystem and participate in mining and certification worldwide, but every mining company has selected all the mines to benefit all coin users.

Encryption ciphers, such as Bitcoin, which use only protocol agreement in the PoW format, suffer from an inseparable distinction between economic motivation and political motivation.

By securing more mining equipment, the user can enhance the economic aspect of the block chain while strengthening the political aspect.

GECASCOIN tries to overcome this problem by using a consensus algorithm that distinguishes between economic incentives and political incentives. To increase economic incentives and political incentives, the system must make endless investments over the next 50 years.

Users can maximize their mining income by investing in photovoltaic facilities and eco-friendly product manufacturing facilities to increase their voting rights or by investing in savings and block generation compensation (compensation proportional to the amount of coins tied to a node). The agreement protocol

used here is also energy efficient and faster.

What is the monetary value we think?

In most cases, decentralized currencies in ecosystems tend to become a hotbed of speculation due to limited availability.

Since Gecascoin believes that money is being used in practice, GECASCoin has made strategic business deals with a variety of application companies and companies.

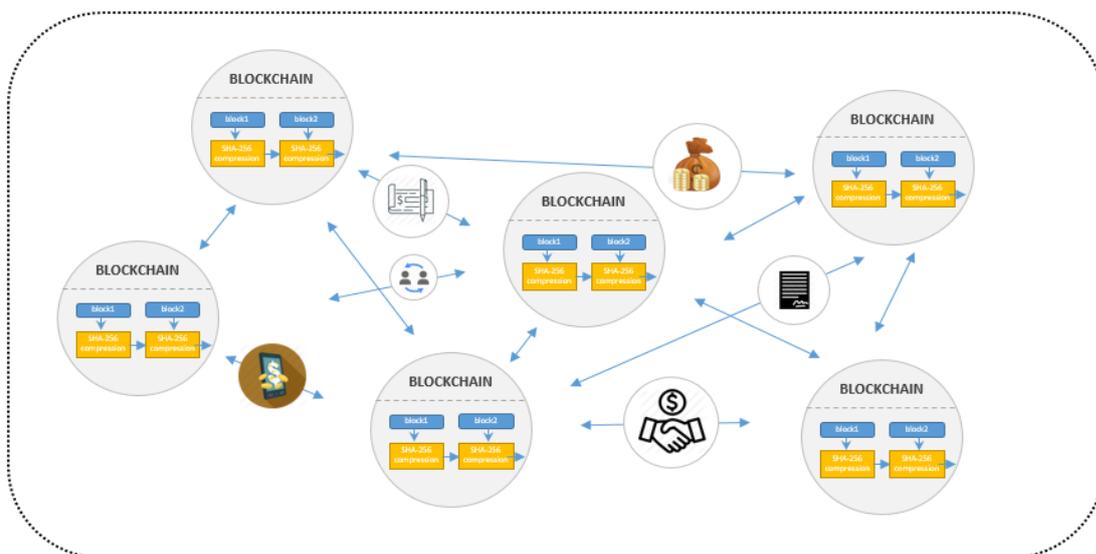
4. Cryptographic currency comparison

4-1. Outline

It is based on the stable algorithm X-13 produced by GECASCO in Block chain.

GECASCON (GECAS) offers attractive unique functions that distinguish it from other virtual currencies through the following functions, and expects various economic, social, technological and scientific derivatives by participating in the virtual money system.

- (1) Use PoW algorithm which is difficult to execute FPGA and ASIC
- (2) PoS System used together with PoW for block chain fixing
- (3) Internal participant voting system which can decide the direction of future block chain
- (4) Realization of value stability through appropriate combination of mining compensation and equity compensation.
- (5) Dedicated client for multiple platform users



4-2. development

It is based on standard web technologies such as JCP, PHP, HTML, HTTP, HTTPS, and resource description framework (syslog, Ontology web language) to share and extend information on web pages.

Both OWL and resource technologies can be used to generate unambiguous formal data classification schemes.

Using these characteristics, we proposed the concept of the GECAS contract, which is a contract with all payment systems.

OWL and syslog have similar characteristics, but the resource technical standard does not currently support P-Time completeness. However, OWL standards ensure P-Time complexity when using Reasoners, a tool to deduce logical results from previously presented facts or axioms.

This means that the time required to fulfill the contract can be predetermined.

This is the main reason why OWL was chosen as the primary language for the GECAS contract.

OWL DL (Description Logic) is a sub language of OWL. "This method is designed to provide the maximum possible expressiveness while maintaining the integrity of the calculation."

OWL DL works in a large pre-defined dictionary definition vocabulary and classification dictionary definition, such as the ISO020022 specification.

Because GECAUG-specific features such as transactions are not available, you must call out relevant terms and taxonomies from outside the contract.

To solve these technical problems, we propose a method of creating a predefined namespace domain in a block chain.

This namespace domain can invoke a nonstandard base type (taxonomy) in the

contract.

Nonstandard criterion types will be carefully added to maintain OWL's decision and classification complexity features.

Another problem with the Turing complete contract for Block chain is that it is difficult for inexperienced people to read Turing complete.

If the law is law, the code can be understood by all concerned parties.

Calls using the current contract tunneling can only be verified by someone who can read the code.

GECASCOIN uses the OWL standard and maps the grammar to languages such as simple declarative language (SDLang) so that anyone can read the contract contents and make the contract correct.

The Timed Automata Language Concept is based on the Bitcoin Contracts modelling by Andrychowicz's paper, " Timed Automata. "

TAL is used to model the Logic programming used in GECAS Contract.

The OWL and TAL relationship is similar to the relationship between HTML and Javascript.

OWL provides the data structure and TAL acts like an operator.

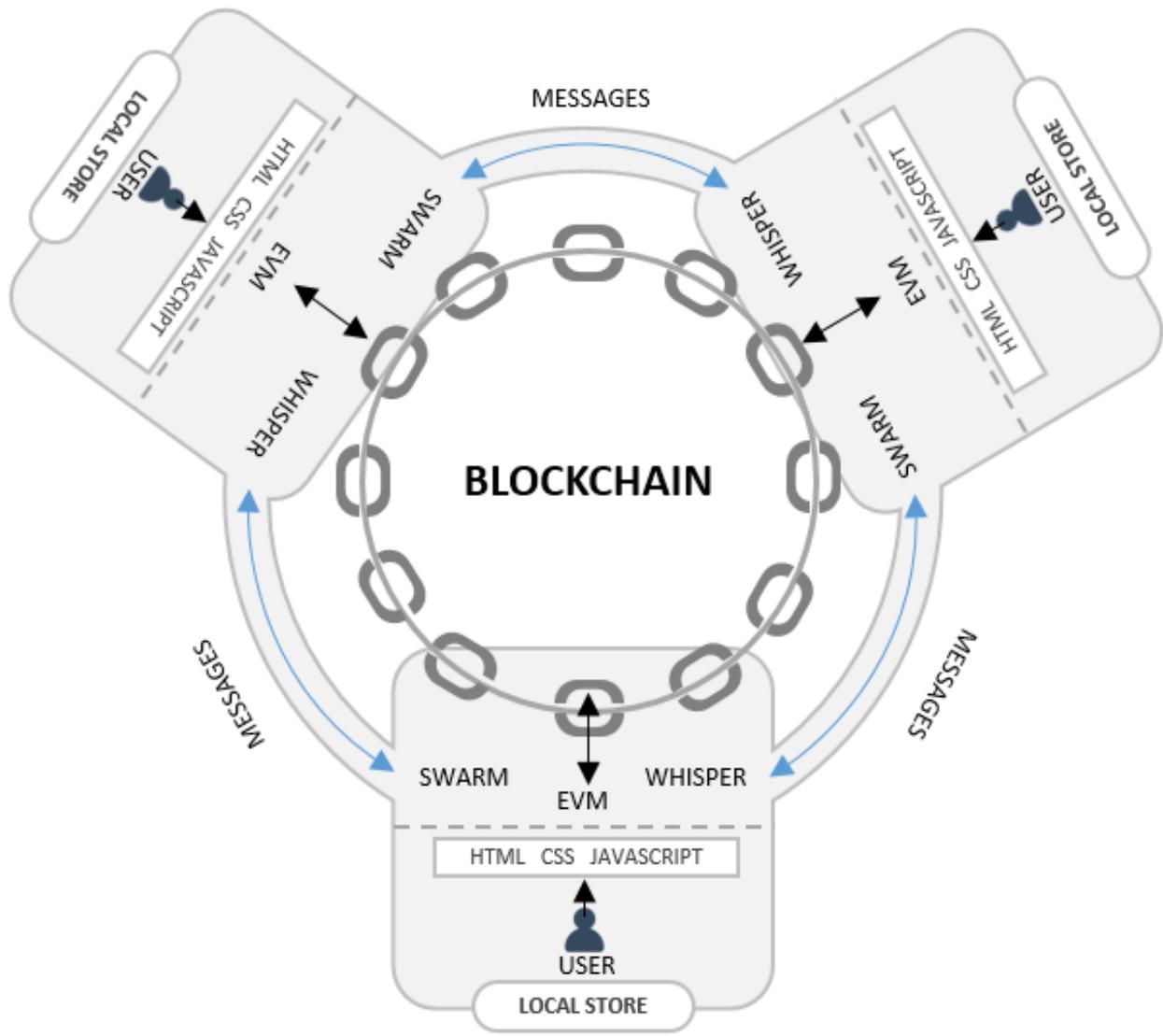
The operators of a programming language are syntax for performing certain functions, such as adding, subtracting, and comparing.

OWL provides the information and TAL tells the computer how to process the data.

TAL is slightly different from other programming languages because it has Global Time Factor.

That is, the time taken to execute a contract can be tested in advance.

A platform can be provided for building a bug-free contract on the block chain by performing a proactive and automated test for each possible outcome.



5. Agreement algorithm

Improved equity verification system

The evidence of Nakamoto Satoshi's efforts made a breakthrough in virtual money, but the fundamental essence of it is that virtual money depends on energy. Therefore, it is inevitable to incur significant costs in such operations. Some users pay network costs through a combination of usage fees and transaction fees. In the BTC network, production will decline over time, eventually real value will increase.

It is inevitable to develop a new system in order to maintain the safety level of virtual currency without going through the business certificate. This will be a milestone for both theoretically and technologically important.

In early 2011, the equity concept will be discussed at the Bitcoin meeting. This is usually a form of proving ownership of the currency. The age of the coins consumed by the transaction can be regarded as proved evidence, which is new evidence of the concept. And that proven evidence can replace most evidence. Also, as evidence of work, evidence can not be easily forged.

The concept of a coin is defined as the number of trades multiplied by the period of ownership. For example, if she took ten coins for her and kept them for 90 days, the coins would be 900 years old. To facilitate this calculation, include a timestamp field in each transaction. The protocols associated with block timestamps and transaction timestamps are more secure to calculate the lifetime of coins.

In a hybrid system, there are two types of blocks. That is, the proof block and the shared proof block. Proven evidence for a new type of block is a special transaction called a deposit. Deposit is the process of creating and proving a new block by consuming the coin life of the trading block. The first input to the

sediment is called the kernel, and it must meet the particular protocol type. The key difference, however, is that the hash operations are less energy consumed because of the limited search space (unused wallet output - one hash per second) rather than an unlimited search space (such as work proof).

In the case of network attacks, the effective chain is considered to be the longest chain with many equity certificates, so three things are needed to generate double spending.

- (1) The attacker must have hash power greater than 51%.
- (2) The attacker must own 51% of the shares.
- (3) Attacker should use PoW Block Mineration and PoS Falling simultaneously.

Theoretically, a double spending attack can be performed with less than 51% equity, but an attacker has to digest more than 51% of the network hash power for a much longer period of time. By using equity instruments to sign new blocks in the network, it can be considered safe to reduce the likelihood that after three blocks have entered the network, most transactions can filter the attacker.

6. POW Mining

GECASCOIN achieves consensus algorithms by participating in PV system investments (investments in photovoltaic facilities, production of environmentally friendly products, and investment of coin users to increase the profit and happiness index).

The mining program can only be downloaded by people who have participated in the GECASCOIN system.

GECASCOIN's prisoner of war mines will be blocked by a system that can be forged by an evenly distributed hack around the world designated by the GECAS Group headquarters.

7. Issue the Coin

7-1. Initial development budget (POW mining)

The initial development coin is a coin prior to GenesisBlock and is intended to help complete software development. This coin consists of the sale and reward of ICO.

300,000,000 GECASCINGS will be issued with GenesisBlock.

The total GECAASN figure is equivalent to 30% of 1,000,000,000 GECAS.

7-2. Public mining (POW mining)

A public mine is a funding that is arbitrarily paid to the node for the block to be created (every 60 seconds).

As the compensation is randomly distributed, as the number of nodes increases, the probability of rewarding the participating nodes later becomes lower.

GECASCOPN is subject to this mining method because it does not reach 14 million pieces in the next 50 years, and participation of general nodes and profit creation is limited.

The total amount of public mines is 700,000,000 GECAS, which corresponds to 70% of the volume issued.

7-3. Maximum amount of steel that can be supplied in one year

The maximum amount of minerals to be supplied to the market by POW mining is 14,000,000 GECAS and it is mined without half-life for 50 years.

8. Conclusion

GECASCOPN aims to solve technical or operational problems inherent in various cryptographic calls with special performance justification.

GECASTALK is a block-based SNS platform that creates a smart, convenient, and fair world.

The mining of prisoners of war aims to create value for the coin while preventing centralization.

The X-13 algorithm enables energy efficient and fast transactions.

Gecascoin Blockchain will provide the lightest and quickest framework with the determinism and accessibility to create and execute the above contracts.

GECASCOPN aims to achieve the above objectives while taking advantage of the security and integrity that can be gained through Block Chain technology.

GECASCOPN will solve the following problems and become a currency that can be used in real life.

1. Sun light block chain
2. Everything Fast transmission speed
3. POS Mining: X-13 Algorithm
4. Everything Traders and Uses in Real Life
5. Everything Evolution of advanced technology leads to the technology of the world for password.

Until now, we have made many progresses from the first industrial revolution to the third industrial revolution. A new wave of the Fourth Industrial Revolution is now being brought before us

Whether we are all winners or losers is standing at the inflection point.

It should be the centerpiece of the Fourth Industrial Revolution that will lead a new era by becoming a new hero who turns the world into an opportunity.

Block chains, artificial intelligence, big data, and clouds are not the most powerful or quirky things, but they survive to the very end of the foreseeable future that best adapts to change.

We must not forget the bold historical lessons of the past that refused to change the world.

The heroes that have been successful in mythology are the railroad king Bender Bilt, the oil king Rockefeller, the steel king Carnegie, the car king Henry Ford, Microsoft's Bill Gates, Amazon's representative Jeff Bezos, and Alibaba.

The success of all of these was a spirit of what we could do with a sense of

justice and an indomitable challenge that everyone can understand,

GeCascoin also contributes to the development of culture and excess carbon emissions, saving the planet, pursuing the happiness of mankind as a cause of love for nature, coin representing the world's 160 million golfers, WPGA and love will be.

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