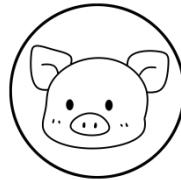


# PigCoin : A point - to - point currency system for agricultural self-balancing transactions

Version.1



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## Abstract

PigCoin is a person-to-person currency trading system for agricultural products that will allow person-to-person direct trading of agricultural products without relying on the pricing of agricultural products by any third party financial institution. It would create an exchange rate barrier between fiat money and agricultural products to prevent fiat inflation from spreading to agricultural products. This is a very revolutionary event, which really puts the pricing power of agricultural products in the hands of individuals. PigCoin will anchor and self-balance the total number of pigs in the world, so as to carry out additional issuance and destruction. This process is dynamic.

## The body of the

### 1、Describe

In the very short past, the whole world has faced many challenges: plagues, wars, volcanoes, tsunamis, earthquakes, nuclear disasters, political disasters, financial storms, terrorist attacks, and so on. Disappointingly, we are not even comforted. In addition to force majeure, we also face a threat from all around us (inflation), which is by far the greatest non-natural disaster of mankind. We cannot cope with the impact of inflation, and in the future fresh pork and other produce may become a luxury item on the dinner table. The pigcoin was born in this context.

### 2、Economic models

We will now anchor a PigCoin to be exchanged for a pig.

Take an average weight :158 jin.

Sows and boars are anchored according to their own economic attributes with a median of 1pigcoin plus or down a number of values.

The system will gradually analyze the number of pigs in the world and self-balance to determine the strategy of issuance and destruction, so as to guarantee that one PigCoin will be exchanged for one pig.

## Coin-pig conversion algorithm

PS: Pigcoin is collectively referred to as “ P ”, and the monetary quantity unit is “ P ”,All the following units of calculation for pigs are unified as: jin

### 1、 Ordinary pigs

As a highly liquid player, its price should be the most stable.

The system will always guarantee that 1PigCoin will be exchanged for one pig, and the weight of the pig will be anchored at 158(jin) and the number of pigcoins will be dynamically adjusted in the transaction as the weight fluctuates

Calculation formula:

x=Real body weight of pigs;;

y=158(jin);

if > y

$z(p) = (x-y)*(1/y)+1$

else if < y

$z(p) = 1-(x-y)*(1/y)$

z=Pig to Pigcoin price

Calculation function (For Java Language):

```
public static double pigTransitionPigCoin(int trueWeight) {  
    // Anchor the weight , unit:Jin  
    final double anchorWeight = 158;  
    // How many pigcoins are there for each jin of pig  
    final double everyWeightAgainstPigCoin = 1 / anchorWeight;
```

```

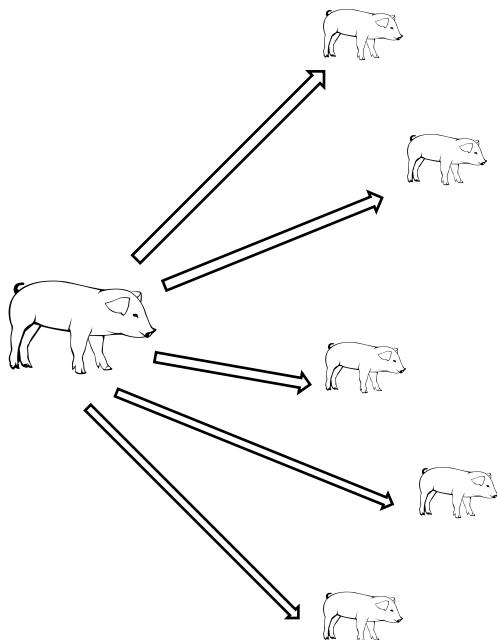
// Calculate the price result
double calResult = 0;
if (trueWeight > anchorWeight) {
    calResult = ((trueWeight - anchorWeight) * everyWeightAgainstPigCoin) + 1;
} else if (true) {
    calResult = 1 - ((trueWeight - anchorWeight) * everyWeightAgainstPigCoin);
}
return calResult;
}

```

## 2、The sow

Due to the unique derivative property of sows (pregnancy), the derivative variable should be added to the original PigCoin algorithm according to its own copy function.

The Sample Images:



The price of a sow is its own price plus the price of each pig at its maximum breeding limit, and when this added value condition is triggered, the single breeding survival rate is 60%

Derived variables should conform to the normal fertility limit of sows in the biological sense, and the number of nipples of sows will be identified as the fertility limit of sows in the Pigcoin system.

Derived variables should take into account the mortality of a derived subset of sows.

**Calculation formula:**

**x1=True sow weight (prenatal),unit:jin**

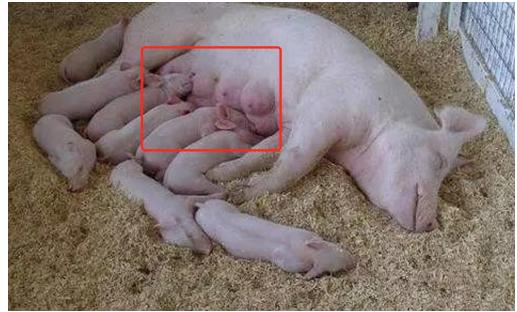
**x2=True weight of sows (postpartum),unit:jin**

**x3=Sows themselves vs Pigcoin prices (prenatal)= pigTransitionPigCoin(x1);**

**x4=Sows themselves vs Pigcoin prices (postpartum) =pigTransitionPigCoin(x2);**

**y1=12=Biological fertility limits in sows per unit.**

**On the basis of:**



$\approx 12$

**y2=158 (jin);**

**y3=child pigs survival rate;**

**if y3>=60%**

**y1**

**Final sow price (PigCoin) =  $\sum_{i=x4} y1$  pigTransitionPigCoin(y2)**

**else**

**Final sow price (PigCoin) = pigTransitionPigCoin(y2)**

**Ps : (The newborn piglet is weighed according to the anchor)**

### **3、 Seeds Pigs**

Sperm quality is specifically reflected in the number of sows mated and successfully conceived, as well as the median of the largest and smallest subsets derived from the successfully conceived sows set, for

comparison to carry out the pricing of breeding pigs.

x1=Number of sows ever conceived

y1=12 //Biological fertility limits in sows per unit

y2=158(jin);

z=Price of swine

$z = \text{pigTransitionPigCoin}(x1 * y1 * y2)$

### 3、 Distribution of tokens

20% : initial airdrop, initial investment.

30% : Unlocked transactions.

20% : reserved by the community, generally used to reward outstanding contributions to the community.

18% : for the establishment of social public welfare funds for the care of vulnerable groups such as the elderly living alone, women who have lost their only child, left-behind children, disabled people, poor families, unemployed people and so on.

12% : used for the construction of offline physical farms, and 30% of the profits of offline farms will be used to buy back Pigcoins.

### 4、 vision

The time should come, we don't have to put up with uncontrolled general, but we need Pigcoins, and Pigcoins will change the structure of agricultural production relations all over the world, and really put the power of agriculture in the hands of all the people who own Pigcoins. This is a great agricultural revolution, come on! Join us. What are you waiting for?