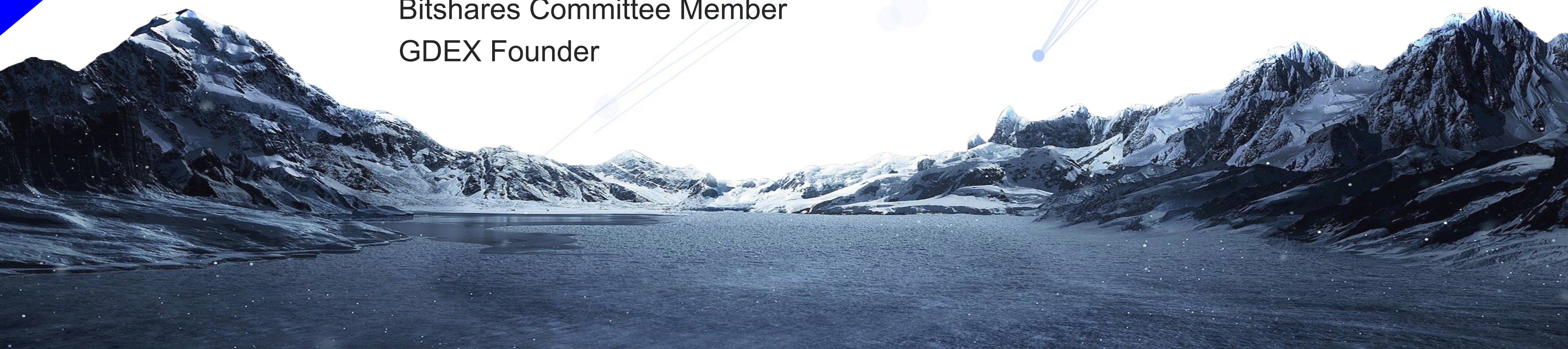


# Evolution of Bitshares

**Jerry Liu(bitcrab)**

Bitshares Committee Member

GDEX Founder





- 
1. Open Market Operation Fund review
  2. New features – BSIP38 & BSIP42
  3. New ideas for next hard fork



## Open Market Operation Fund trading report

account	trade type	BTS quantity	smartcoin quantity	average price
committee-cn ytrader	buy	15581697.83	17901590.24	<b>1.148 bitCNY</b>
	sell	1605097.827	963195.7544	<b>0.60 bitCNY</b>
committee-us doperator	buy	5968469.697	1059789.265	<b>0.177 bitUSD</b>



Chart at 8<sup>th</sup>, Aug, BTS price go down much faster than BTC



Conclusion:

1. The OMO fund helped the ecosystem, but the contribution is far from expected.




2. **Rules** are much more important than **Funds**.



## BSIP38: Target CR

sell only required collateral while  
being margin called

relieve the pain of “positive feed  
back”, “down trend speed up”  
greatly.

Feed price:	1.09589 BTS/BitCNY
Your Call Price:	1.21700 BTS/BitCNY
 DEBT	AVAILABLE: 163,032.3928 BitCNY <a href="#">Pay Max Debt</a>   <a href="#">Use Max</a>
<div>300000</div> <div>BitCNY</div>	
 COLLATERAL	AVAILABLE: 217,507.43611 BTS <a href="#">Use Max</a>
<div>638926.86112</div> <div>BTS</div>	
RATIO	
<div><div></div><div></div></div> <div>1.9433</div>	
TARGET COLLATERAL RATIO 	
<input checked="" type="checkbox"/> Use Target Collateral Ratio	
<div><div></div><div></div></div> <div>1.75</div>	



# BSIP42: negative feedback price feeding

## Core idea:

Redefine feed price: from “real market price” to “guide price based on smartcoin **premium/discount**”

let the market decide what a collateral ratio can lead to accurate pegging

convert the demand to smartcoin to the power that support the BTS price

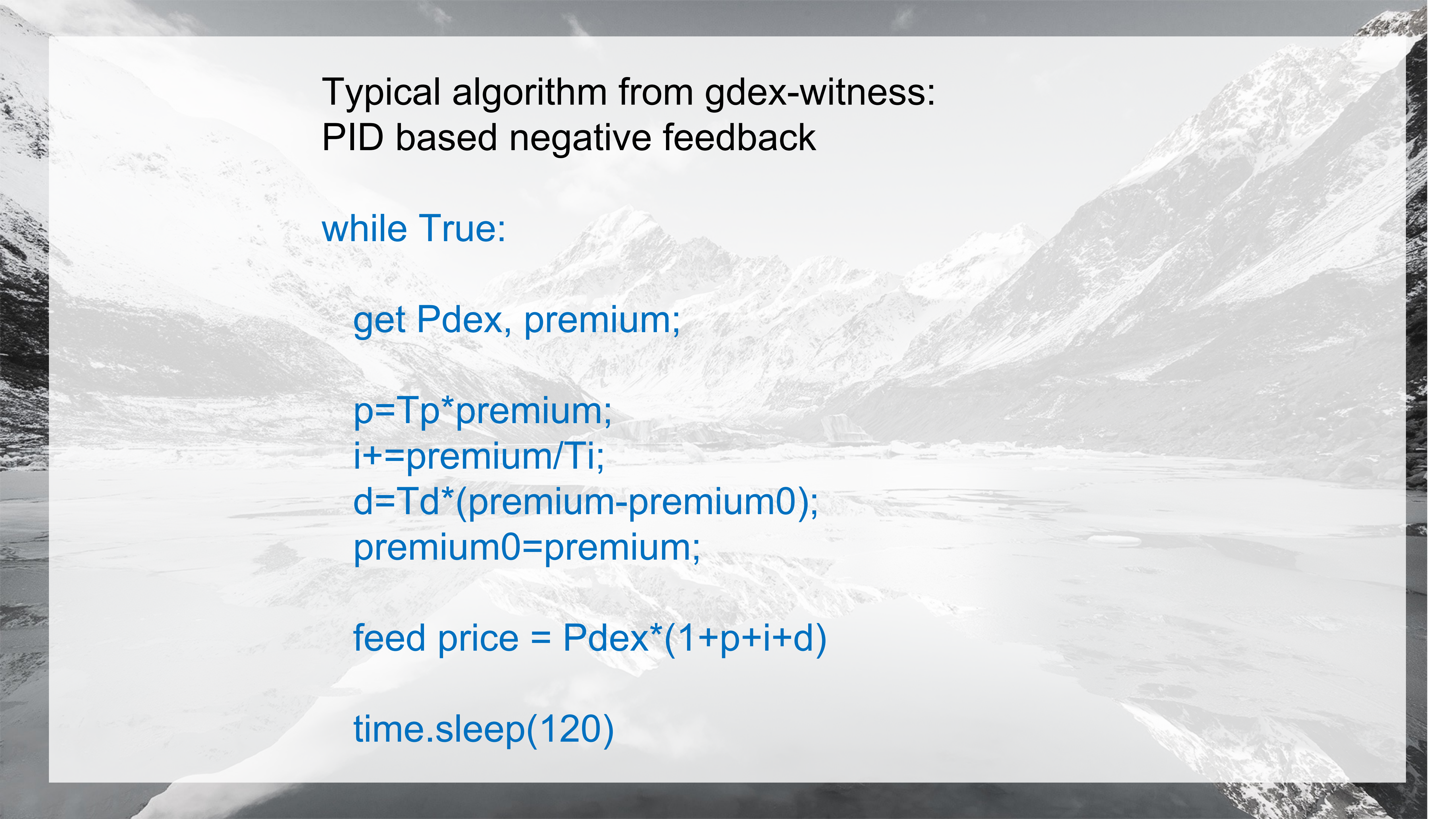




typical negative feedback algorithm from abit:

$$\text{feed price} = \text{current median price} * (1 + \text{premium} * \text{scale})$$





Typical algorithm from gdex-witness:  
PID based negative feedback

while True:

get Pdex, premium;

p=Tp\*premium;

i+=premium/Ti;

d=Td\*(premium-premium0);


premium0=premium;

feed price = Pdex\*(1+p+i+d)

time.sleep(120)



<>





Dashboard

Exchange

Explore

Send

BTS / BITCNY

Trading pair  

0.801600 BITCNY

Latest

+5.40 %

24hr Change

23.21M BTS

24hr Volume

0.914532 BITCNY

Feed Price

0.960258 BITCNY

Settlement

1.95



Collateral ratio

0.915400 BITCNY

Call limit

0.831392 BITCNY

Margin Call Price

BUY ORDERS  

Group

TOTAL: 621,055.7102 (BITCNY)

TOTAL (BITCNY)	BITCNY	BTS	PRICE
1.3168	1.3168	1.64882	0.798632
281.3168	280.0000	350.65748	0.798500
1,177.2361	895.9193	1,122.00288	0.798500
33,404.6041	32,227.3680	40,369.99624	0.798300
33,504.6041	100.0000	125.42454	0.797292
33,536.8963	32.2922	40.50707	0.797199
33,617.8028	80.9065	101.50111	0.797100
33,717.8028	100.0000	125.47051	0.797000

SELL ORDERS

TOTAL: 4,881,614.61942 (BTS)

PRICE	BTS	BITCNY	TOTAL (BITCNY)
0.828010	2,388.97110	1,978.0920	522,289.434
0.828038	83.52392	69.1610	522,358.595
0.828172	139.02853	115.1396	522,473.735
0.828178	102.84416	85.1733	522,558.908
0.828884	83.52392	69.2316	522,628.140
0.828900	2,000.00000	1,657.7998	524,285.939
0.829007	3,280.97110	2,719.9490	527,005.888
0.829544	4,142,008.93310	3,405,794.76390	529,62,640.21
0.830001	28,728.12184	23,844.3651	3,986,645.01





bitCNY premium: -0.5%  
bitUSD premium: 3%

<

CNYMKT

Rate

Default

Favorite

聪哥秒兑 (24小时在线)





注意, 银行卡已经更换

Upper Limit:

Rate: -0.2 %

78290

Escrow: 78290

Lower Limit: 1000

Quantity

Total amount

Average speed

173

2022506

2 mins

大机械





收款银行卡号变更了

Upper Limit:

Rate: -0.2 %

203929

Escrow: 203929

Lower Limit: 100

Quantity

Total amount

Average speed

256

2901025

3 mins

峰峰在为您24小时承兑





正品名牌

专业秒兑

Upper Limit:

Rate: 0 %

156724

Escrow: 156724

Lower Limit: 100

<

CNYMKT

Rate

Default

Favorite

精灵宝

支

Upper Limit:

Rate: 0.75 %

19850

Escrow: 5691

Lower Limit: 100

Quantity

Total amount

Average speed

1

400

17 mins

鑫鑫专业承兑

支

在线中

下单秒处理

Upper Limit:

Rate: 0.75 %

14000

Escrow: 46368

Lower Limit: 100

Quantity

Total amount

Average speed

10

15609

15 mins

安信达承兑

支

现在在线

少量速兑

Upper Limit:

Rate: 0.78 %

12850

Escrow: 38711

Lower Limit: 100

MY TRADES		MARKET TRADES	
PRICE	OPEN.USDT	BITUSD	DATE
0.96332	1.000082	0.9634	18/09 23:05:06
0.96525	111.250238	107.3844	18/09 22:58:36
0.96525	95.542613	92.2226	18/09 22:57:30
0.97299	5.000063	4.8650	18/09 21:26:42
0.97000	556.853834	540.1482	18/09 02:02:00





**Next step:**

- 1. Apply BSIP42 to bitUSD**
- 2. Push the adoption of bitCNY and bitUSD**





## **Subsequent problems after BSIP42: force settlement**

as feed price is redefined as guide price, it is not appropriate to act as base price for force settlement.

Force settlement make little sense for a smartcoin with good liquidation.

Suggestion: disable force settlement for bitCNY



## **New ideas for the next hard fork**

1. introduce “weight decrement” to solve the “fixed voting” problem

2. asset based feature

asset based bonus distribution

asset based voting

asset based committee