



## Charged Token management (to be used by users)

### 0. Why a Charged Token?

Prior to our partner YZ, investors in Blockchain Projects at presale stages received only an agreement for future tokens (SAFT) in exchange of their payment.

Now, with YZ, thanks to **Charged Tokens (CT)**, investors can have a clear state of their investment and also a more flexible position.

A CT is tied to a specific investment round with given vesting conditions set in the smart contracts (on the Blockchain) that can not be modified afterwards, providing more transparency and certainty to investors.

CTs are allocated to investors immediately after their payment and can be held to claim the underlying **Project Tokens (PT)** according to the vesting schedule set in the smart contract. But they can also be transferred/traded at any time, much before the Project even launches.

Staking CT allows users to get rewards from staking campaigns set by the Project Owner, and also from fees collected from previous CT withdrawals and eventually from PT claims. In that sense, “dumpers are rewarding holders”.

The Project Owner sets the CT withdrawal fee and the percentage which will be redistributed to CT stakers.

The Project Owner can also set a fee on the claim of PT. Those fees will be entirely redistributed to CT stakers.

The upper limits for the withdrawal fee and the claiming fee are set at the creation of the CT and can't be exceeded.



A user can switch between 2 modes :

- The “**Standard**” mode for investors willing to hold their CT until the PT is launched and who will then gradually claim their PT until the CTs are fully discharged.
- The “**Advanced**” mode which provides more functionalities to investors, as they will be able to withdraw, deposit, and recharge CT.

A user can easily switch between those 2 modes by using the toggle switch below :



The previous image also shows that each CT is represented by a thumbnail. Those thumbnails display the balances of the user in CT and PT. More details about those balances can be found [here](#).

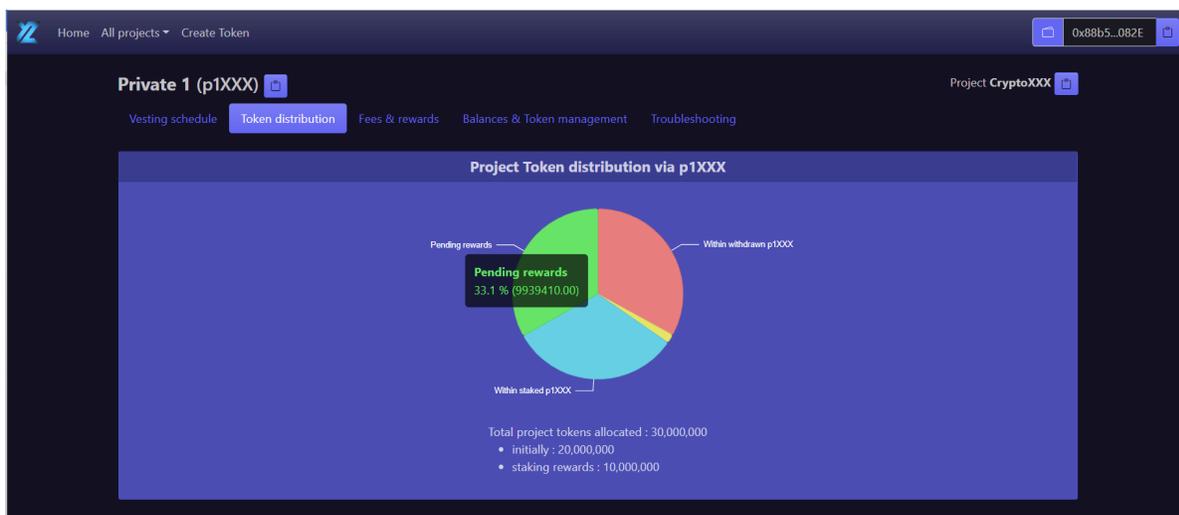
By clicking on a thumbnail, a user will get access to the details of the related CT through different tabs :

- **Tab 1 “Vesting & Claim”** in Standard Mode and “**Vesting schedule**” in Advanced Mode.  
This tab displays the vesting schedule of the underlying PT with the launch date (TGE) where an initial amount of PT is unlocked. Then, no more PT will be released until the date where the linear vesting will start. The remaining PT will then be released linearly until the “Vesting end” date.  
The only difference between the 2 modes (Standard and Advanced) is that the Standard mode displays an additional section where the user can claim PT (see image below). In the Advanced mode, the PT can be claimed via a specific tab called “**Balances & Token management**”. More details about the Claiming process can be found [here](#).



- **Tab 2 “Token distribution”** displays how the PT have been redistributed since they were allocated to the CT. Those PT can be classified in 4 categories :
  - 1) PT within staked CT
  - 2) PT within withdrawn CT
  - 3) PT which have already been claimed
  - 4) PT related to pending rewards

By hovering over the diagram, one can see the amount and percentage of PT tied to each category. This provides a clear status of the token distribution and more transparency to investors.





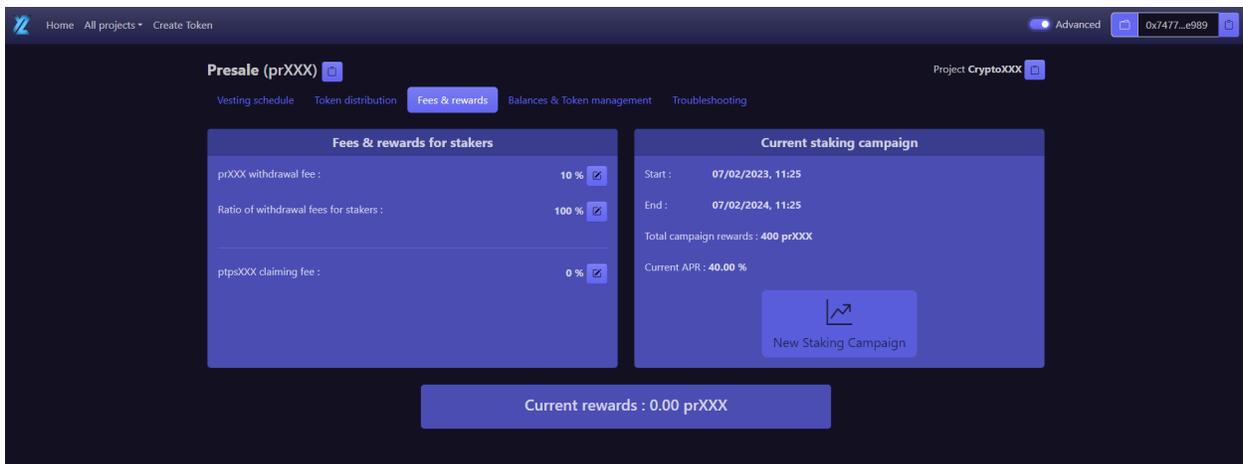
- **Tab 3 “Fees & rewards”**

The left panel displays the fees for CT withdrawals and PT claims (after TGE) which become rewards for the stakers. The ratio of CT withdrawal fees reserved for stakers is also displayed but there is no such ratio for PT claim as all claiming fees (if those are > 0) are always fully redistributed to stakers.

Note : in the Standard mode, only the claiming fee is displayed as the withdrawal functionality (of CT) is considered of no interest.

The right panel displays the details of the current staking campaign set by the Project Owner, with the start and the end of the campaign, the total campaign rewards over the whole period and the resulting current APR.

Finally, the lower panel displays the current rewards allocated to the user (cumulated from withdrawal/claiming fees and current staking campaign).



- **Tab 4 “Balances & Token management”**

This tab is visible only in the Advanced mode.

4 types of balances are displayed :

- Staked Fully Charged CT (see balance 1 below).
- Staked Partially Charged CT which are obtained after claiming PT which discharges CT (see balance 2 below)
- CT in the user’s wallet (see balance 3 below).
- PT in the user’s wallet (see balance 4 below).



The screenshot shows the 'Balances & Token management' interface for 'Private 1 (p1XXX)'. It features two main panels: 'Fully charged p1XXX' and 'Partially charged p1XXX'. The 'Fully charged' panel shows 'Staked: 161,149.99 p1XXX' (1) and 'Wallet: 9,900,000 p1XXX' (3). The 'Partially charged' panel shows 'Locked: 10,000,000 p1XXX' (2) and 'Tokens needed to recharge all p1XXX: 500,000 ptsXXX'. Below these panels, a 'Total claimable' section shows '122,094.62 ptsXXX' and a 'Claim' button. At the bottom, the 'Wallet: 997,986.5 ptsXXX' (4) is displayed.

Those balances are also displayed on the thumbnail of the CT :

The screenshot shows the 'CryptoXXX' dashboard with three token thumbnails. The 'Private 1 p1XXX (Post-TGE)' thumbnail displays the following data:

Staked	
Fully charged	161,149.99 p1XXX
Partially charged	10,000,000 p1XXX
Wallet	
9,900,000 p1XXX	997,986.5 ptsXXX

The balance '9,900,000 p1XXX' (3) is highlighted in green. Below the table, it says 'Only in Advanced Mode'. The 'Private 2 p2XXX (Post-TGE)' thumbnail displays:

Staked	
Fully charged	0 p2XXX
Partially charged	5,000,000 p2XXX
Wallet	
5,000,000 p2XXX	997,986.5 ptsXXX

The balance 3 is not displayed in Standard Mode as the withdrawal functionality (of CT) is considered of no interest in that mode.

The following paragraphs describe the 4 functionalities related to the management of CT within the "Balances & Token management" tab (which is visible only in the Advanced mode).

**Note :** By clicking on the icon  next to the name of a Token (CT or PT), a user will copy the address of the related CT/PT contract which can then be used to import the Token in Metamask.



## 1. Withdrawal

Staked CT can be withdrawn to the user's wallet to be transferred / traded.

The screenshot displays the 'Balances & Token management' page for 'Private 1 (p1XXX)'. It features two main sections: 'Fully charged p1XXX' and 'Partially charged p1XXX'. In the 'Fully charged' section, the 'Withdraw' button is highlighted with a green box and a green '1' next to it. The 'Partially charged' section shows a 'Recharge' button. At the bottom, there is a 'Total claimable' section with a 'Claim' button. The interface also shows various tabs like 'Vesting schedule', 'Token distribution', 'Fees & rewards', and 'Troubleshooting'.

After providing the amount to be withdrawn and clicking on the button **Withdraw (step 1)**, a recap will appear (before validation) with following information :

- The amount requested for the withdrawal.
- The withdrawal fee. A fraction of those fees is usually kept to reward stakers that have not yet withdrawn their CT.
- The rewards cumulated from the fees collected from previous withdrawals/claims and eventually from the staking campaign set by the Project Owner.
- The total amount of CT that will be sent to the user's wallet which is a) - b) + c)

After reviewing the transaction, the user can validate it by clicking on the button **Confirm Withdraw (step 2)** and by confirming it on Metamask (**step 3**).



Private 1 (p1XXX) Project CryptoXXX

Withdraw summary

Withdraw amount requested : 10,000 p1XXX

Withdraw fee (10.0 %) : 1,000 p1XXX

Rewards : 389.9999999998769556 p1XXX

Total : 9,389.9999999998769556 p1XXX

Confirm Withdraw Cancel

Step 1/2

Withdrawing tokens

0.00021164

Total 0.00021164 RinkebyETH

Amount + gas fee 0.0002358 RinkebyETH

Max amount: 0.0002358 RinkebyETH

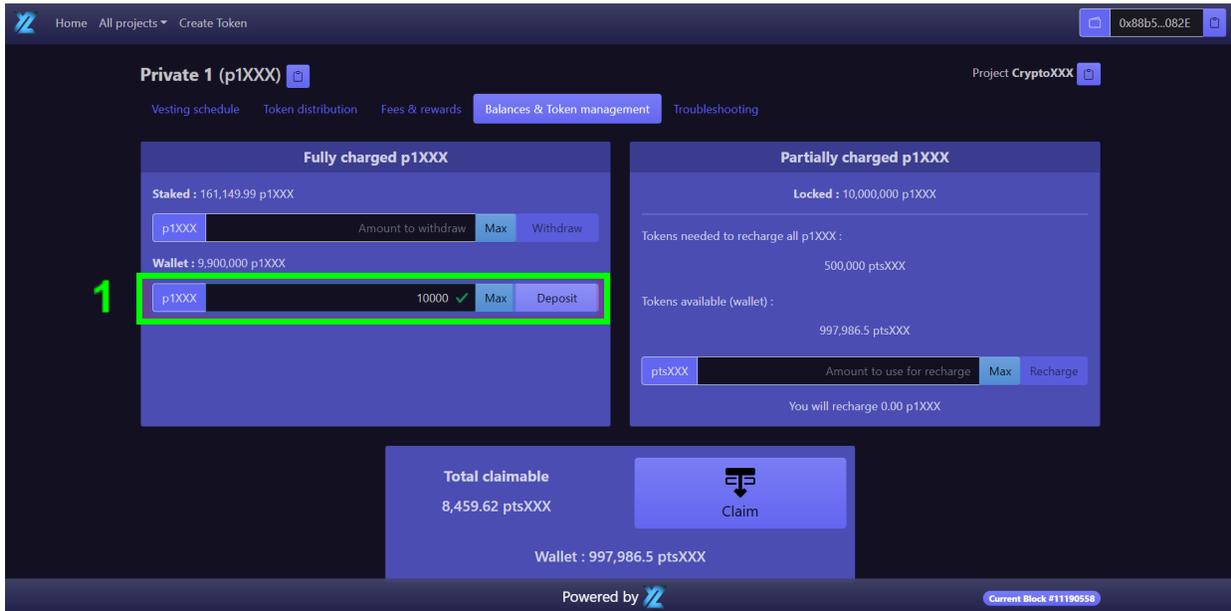
Reject Confirm

**IMPORTANT** : Only fully charged CT can be withdrawn, i.e. only CT for which no claim of PT has occurred so far. If a user already claimed PT, then the related CT must be recharged with PT before they can be withdrawn (see Recharge section [here](#)).



## 2. Deposit

A user holding CT in his wallet can deposit them to earn staking rewards.



After providing the amount to be deposited and clicking on the button **Deposit (step 1)**, a recap will appear (before validation) with following information :

- The requested amount to be deposited.
- If the user already had staked CT before the deposit, then the related rewards are displayed. Those will be added to the deposit amount.
- The total amount of CT to be staked for the user, which is a) + b)

After reviewing the transaction, the user can validate it by clicking on the button **Confirm Deposit (step 2)** and by confirming it on Metamask **(step 3)**.



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Private 1 (p1XXX) Project CryptoXXX

Vesting schedule Token distribution Fees & rewards Balances & Token management Troubleshooting

Fully charged p1XXX Partially charged p1XXX

Staked : 161,149.99 p1XXX

Amount to withdraw

Wallet : 9,900,000 p1XXX

Amount to use for recharge Max Recharge

will recharge 0.00 p1XXX

Deposit summary

Deposit amount requested : 10,000 p1XXX

Rewards : 804.9999999999999194291 p1XXX

Total : 10,804.9999999999999194291 p1XXX

Confirm Deposit Cancel

2

Home All projects Create Token

Project Mana... 0x6CE...04Ea

New address detected! Click here to add to your address book.

**New gas experience**  
We've updated how gas fee estimation and customization works.  
[Turn on Enhanced Gas Fee UI in Settings](#)

DETAILS DATA HEX

Total 0.00019127 RinkebyETH

Amount + gas fee 0.00021463 RinkebyETH Max amount

Reject Confirm

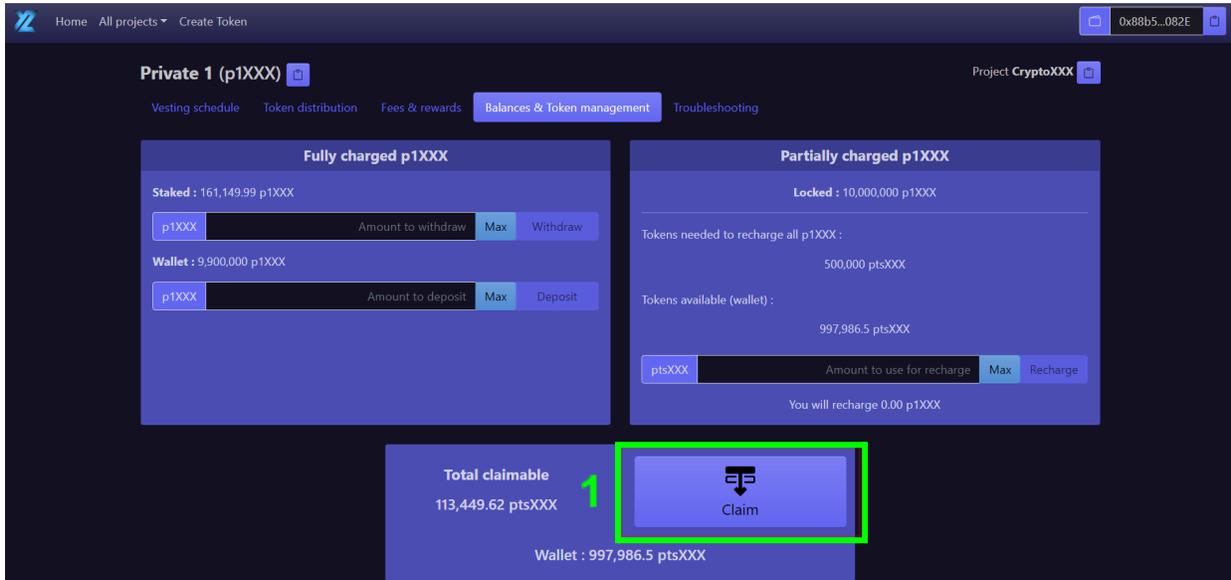
Step 1/2  
Depositing tokens

3



### 3. Project Token (PT) claim

After the launch of the PT (i.e. after TGE), the staked CT can be used to claim the underlying PT according to the vesting schedule.



After clicking on the button **Claim (step 1)**, a recap will appear (before validation) with following information :

- The amount of unlocked PT according to the vesting schedule.
- The claiming fee (if there is).
- The cumulated rewards since the last transaction of the user.
- The total amount of PT to receive, which is a) - b) + c)  
Those PT will be sent to the user's wallet.

After reviewing the transaction, the user can validate it by clicking on the button **Confirm Claim (step 2)** and by confirming it on Metamask **(step 3)**.



Private 1 (p1XXX) Project CryptoXXX

Vesting schedule Token distribution Fees & rewards Balances & Token management Troubleshooting

Fully charged p1XXX Partially charged p1XXX

Staked : 161,149.99 p1XXX

Wallet : 9,900,000 p1XXX

Unlocked ptsXXX : 8,057.49999999999575 ptsXXX

Claiming fee (5.0 %) : 402.8749999999997875 ptsXXX

Rewards : 105,794.9999999999618407 ptsXXX

Total : 113,449.6249999999578032 ptsXXX

Confirm Claim Cancel

2

Home All projects Create Token

Project Mana... 0x9A9...48f2

New address detected! Click here to add to your address book.

**New gas experience**  
We've updated how gas fee estimation and customization works.  
[Turn on Enhanced Gas Fee UI in Settings](#)

DETAILS DATA HEX

Total 0.00021651  
0.00021651 RinkebyETH

Amount + gas fee Max amount: 0.00021651 RinkebyETH

Reject Confirm

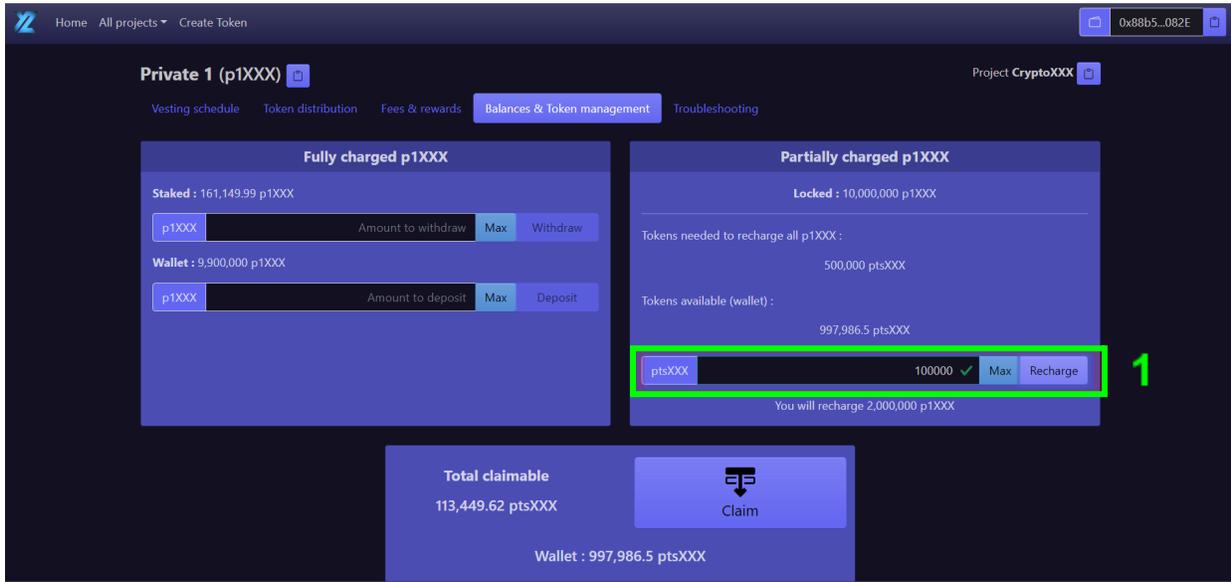
Step 1/2  
Claiming tokens

3



## 4. Recharge of CT

As mentioned previously, in order to be withdrawn, staked CT must be fully charged with PT. Therefore, if some PT have already been claimed, CT must first be recharged.



After providing the amount of PT to be used for the recharge and clicking on the button **Recharge (step 1)**, a recap will appear (before validation) with following information:

- The amount of PT to be used for the recharge.
- The amount of CT which will be recharged using the provided PT. This amount will be deducted from the balance of Partially Charged Tokens and added to the balance of Fully Charged Tokens. Note that a user is free to recharge only a fraction of his Partially Charged Tokens.
- The cumulated rewards since the last transaction of the user.
- The total amount by which the balance of fully charged staked CT will be increased, which is b) + c).  
Note that the balance of Partially Charged Tokens of the user will decrease by only the amount b).

After reviewing the transaction, the user can validate it by clicking on the button **Confirm Recharge (step 2)** and by confirming it on Metamask (**step 3**).



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Private 1 (p1XXX) Project CryptoXXX

Vesting schedule Token distribution Fees & rewards Balances & Token management Troubleshooting

Staked : 161,149.99 p1XXX

Wallet : 9,900,000 p1XXX

Amount used to recharge : 100,000 ptsXXX

You will recharge : 2,000,000 p1XXX

Rewards : 105,794.9999999999618407 p1XXX

Total : 2,105,794.9999999999618407 p1XXX

100000 Max Recharge

Confirm Recharge Cancel

2

Project Mana... 0x9A2...48f2

New address detected! Click here to add to your address book.

New gas experience  
We've updated how gas fee estimation and customization works.  
Turn on Enhanced Gas Fee UI in Settings

DETAILS DATA HEX

Total 0.00018257

Amount + gas 0.00018257 RinkebyETH

Max amount: fee 0.00018257 RinkebyETH

Reject Confirm

Step 1/2  
Recharging tokens

3



## 5. Claiming rewards

Any transaction from a user will trigger the reward calculation and distribution according to the balance of staked CT (since the previous transaction of the user).

The rewards are added on top of the outcome requested by the transaction :

- 1) For a withdrawal, the rewards are provided on top of the withdrawn CT to the user's wallet (hence rewards are obtained in CT, directly in the wallet).
- 2) For a deposit, the rewards are provided on top of the deposited CT to the staking contract (hence rewards are obtained in staked CT).
- 3) For a claim, the rewards are provided on top of the claimed PT to the user's wallet (hence rewards are obtained in PT, directly in the wallet).
- 4) For a recharge, the rewards are provided on top of the recharged CT to the staking contract (hence rewards are obtained in staked CT).

This process facilitates the token management by grouping the transaction's purpose with the reward allocation (for example for a deposit a user will get only staked CT, instead of deposited staked CT and rewards in the wallet).

Nevertheless, if the rewards are significant, users might want to extract the maximum of their current value and therefore receive them in their wallet. This can be achieved :

- 1) At any time by doing a withdrawal of 0 CT. By doing so, no CT will be withdrawn and only CT corresponding to the rewards will be sent to the user's wallet.
- 2) After the PT launch (TGE) by doing a claim. As described previously, this will claim the PT according to the vesting schedule and also collect the rewards, with the total amount of PT being sent to the user's wallet.  
In the case where there are no PT to be claimed from the vesting schedule (during the cliff period or after the vesting ends), a claim will allow users to receive only the rewards in their wallet (in PT).

Depending on Token prices and incentives/rewards they are offering (CT vs PT), users might prefer the first or the second solution.

The latter one is likely to be preferred in most cases (when available, i.e. only after TGE) since the PT price should be higher than the CT price before the vesting ends and ~ equal after the vesting ends.