Incentivising Open Science Engagement – Tokens of Appreciation

Open Science – the Way Forward

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Abdullahi Bihi Hussein

Chief Executive Officer

Talking Points

- Open science and the barriers to adoption
- Replicating the lessons learned from the open source software movement
- Establishing a reward system
- Introducing the the token – GRENET
- Th ecosystem
- Potential use cases

Open Science and the Barriers to Mainstream Adoption

- In a world where you have to pay to share your scientific work in "high-impact journals", and you still have to pay for accessing that work or similar ones, there is a critical need to move to a more open science research and publication

- Barriers to open science may include
  - Financial
  - Country of origin or residence/ country of destination
  - Employment and career stage
  - Peer review issues
  - Means of access (e-infrastructures, etc.)

- For some of us, barriers to open science and open access may be akin to the barriers to research development in general (i.e. Somalia)

Learning from the Open Source Software Movement

Open source software movement:
- Has liberalized the use and access of software
- Has contributed to the growth of the internet as we know it today
- Is based on principles already adopted by Open science and open access

Expanding the liberalization of open science and open access:
- Shall benefit from riding the new wave (Web 3.0) and the introduction of a token to appreciate and reward open science development

Open Science and open acces: the way forward

- Real open science practice should ensure that scientists get the information, data, resources and knowledge to effectively engage in the open science movement regardless of their location or backgrounds
- A crypto token that will bring together a diverse community of open science practitioners shall drive collaboration with the establishment of an ecosystem that includes:
  - The token
  - The main exchange
  - The marketplaces (where R & E commodity is exchanged such as Utafity Africa)
  - The commodities (dApps that will address specific R & E needs)
  - The backers (NRENs, RRENs, Global R & E bodies and projects such as the AC3)
  - Interfacing mechanisms with existing research facilities and tools
  - The blockchain on which it is built

Establishing a reward system

- Rewarding open science researchers and publishers
- Rewarding peer to peer reviews
- All done through a reward algorithm
- Mining new tokens based on the work done or contributed towards each work of open science
- GRENET Wallet
  - Crypto token for GRENET
  - NFT Wallet storing the representation of the scientific work itself
- GRENET exchange – facilitates liquidity
  - Open science sponsors and supports to provide liquidity
  - Research funding pools by major sponsors

Introducing the Token

The Global Research and Education Networks Exchange Token

- A store of value

- A token of abbreviation

- A stablecoinish.. Crypto asset to be pegged against a fiat-currency research fund

- A digital currency that will reward the works of open science

- A currency that will transform publishing open science

Potential Use Cases

- Rewarding open science contribution

- Incentivizing peer-to-peer reviews

- As a payment for research collaborators

- As a tool for tracking global research funding and financing

- And Many more….
  - This is a work in progress and this presentation is basically a call for collaboration for those of us who see this as a tool for advancing open science

In conclusion

- Addressing both the intrisic and extrinsic motivation needs for open science practice and open access princiles is critical for taking open science to the next level

- The token of appreciation shall fuel open science practice and adoption globally if
  - It gets a wide adoption by the main R & E actors (NRENs, RRENs, donors, research financiers, etc.)
  - It gets a community of its own
  - It gets inclusive, transparent governance model

Definitions of GRENET:
1. Grenet Cell, the first usable and effective battery
2. The crypto token that shall fuel open science in the 21st century