

## Incentivising Open Science Engagement – Tokens of Appreciation

Open Science – the Way Forward Tunis, Tunisia 19 – 20 July, 2022

> 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 Science principles**

#### Socio-cultural

- Inclusivity
- · Equality
- Accountability
- · Freedom
- Fairness



Technical · Rigour Transparency Reproducibility

· TOP

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 One Token That Fuels Open Access Research Collaboration



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



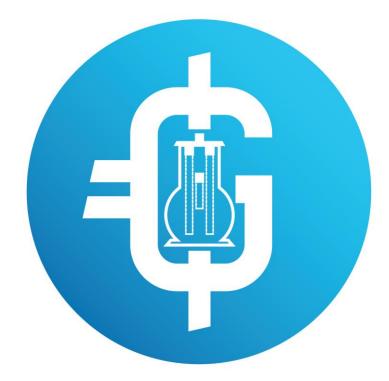
## Potential Use Cases

- 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

