

ID3 Report

phas3

Page 3	ID3 Context
Page 6	Supporting sustainable economies
Page 9	Female empowerment & protection
Page 12	Humanitarian response
Page 15	Climate change & protection of nature
Page 18	Global health
Page 21	ID3 Submissions
Page 23	Biological material supply chains
Page 27	Landfill clearance
Page 31	Supporting artists & art collection incubation
Page 35	Fitness & tackling obesity
Page 39	Health data
Page 43	Women's health data
Page 47	Crypto reporting
Page 52	Broader Analysis
Page 57	Implications
Page 62	Glossary

ID3 Context

phas3 hosted **ID3** – a 48 hour *ideathon* for [web3](#) and international development – to crowdsource ideas from the web3 and international development communities.

The event was [publicised](#) across web3 networks. Participants were given an [guide](#) at the kick-off event, which outlined the themes, ideation tasks, and the four prizes.

Prizes included: *Greatest involvement of relevant communities; Best use of web3 technology to solve a problem; Most thorough exploration of risks; Most inspiring idea.*

The [ID3 kick-off](#) featured talks from Seb Mhatre and Kendra Leong. An [additional talk](#) by Ale Borda took place on day two.

Participants formed teams (recommended size 2-5 people). 38 people signed-up and 7 teams submitted. Participants had wide ranging experience relating to web3 and international development, including:



The following section outlines existing **web3 projects** which could fall under the umbrella of *international development*.

In web3, such projects are loosely referred to as **public goods** and are associated with **impact DAOs** such as [KlimaDAO](#), [ChangeDAO](#), and [Crypto Altruism](#).

[Gitcoin](#) is a web3 platform designed to **fund and coordinate open source development** (raising over \$64 million to date). Examples of tags from previous grant rounds which fall under the umbrella of international development include: “Climate solutions”; “Support for Ukraine”; “Education”; “COVID19 response”; “DeGov”.

This section will provide context for **current web3 innovation** across each of the five ID3 themes (taken from the [2022 UK Government’s Strategy for International Development](#)):

Supporting sustainable economies; Female empowerment and protection; Humanitarian support; Climate change and protection of nature; Global health.

Supporting sustainable economies



Web3 projects relating the **Supporting sustainable economies** are wide ranging, from implementing **UBI** (universal basic income) to [helping alleviate poverty](#), to [providing microfinance to entrepreneurs](#) in developing countries.

Web3 native projects such as [B4H](#) believe new technologies need to be sustained by innovative business models that are rooted in the social context of disadvantaged but vibrant communities.

[UNICEF](#) are also leveraging blockchain for financial inclusion, particularly around **creating digital tools** for people to access decentralised financial instruments, marketplaces, and decision making mechanisms. In 2019, the [UNICEF CryptoFund](#) was launched which provides a **new financial vehicle** allowing UNICEF to receive, hold, and disburse cryptocurrency, allowing UNICEF to explore what it means to operate in a **digitally financed future**.

Furthermore, in 2020, the [Human Rights Foundation](#) launched a fund to **support software developers** who are making the Bitcoin network more private, decentralized, and resilient so that it can **better serve as a financial tool** for human rights activists, civil society organizations, and journalists around the world.



Povoado de Jaguará is a remote village located in Northeast Brazil, where the families lack access to basic resources such as water and food.

Since the community started to benefit from the Unconditional Basic Income (UBI) distributed through ImpactMarket, the whole village was positively impacted by the financial inclusion and empowerment driven by the UBI program, developing the local microeconomy based on small businesses. Blockchain enables us to reach those who need it the most where the traditional financial systems couldn't reach.

How the Grameen Foundation Successfully Delivered Humanitarian Aid to 3,500 Micro Entrepreneurs Using Celo's Blockchain

With the support of the Alliance for Prosperity and Valora app, the benefits of cryptocurrencies were made accessible to everyone



Nemia in her store in Manila

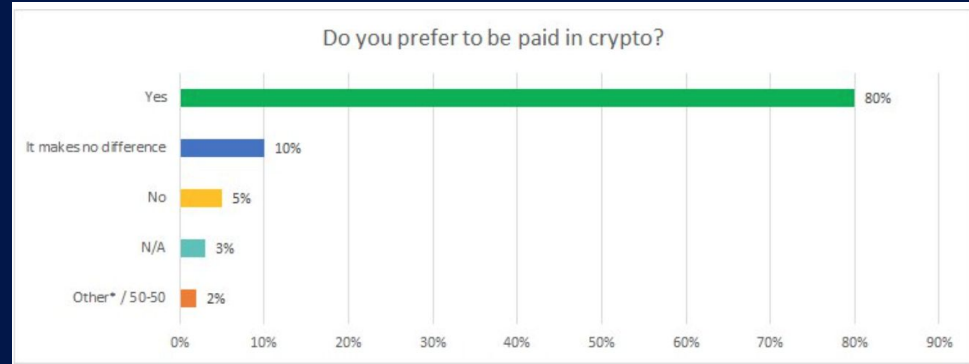
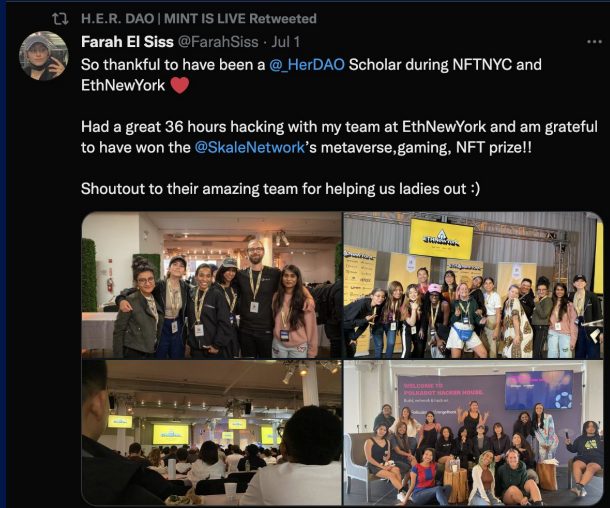
Female empowerment & protection



Web3 projects related to the theme of **Female empowerment and protection** are generally lacking (compared to other themes) – this correlates with the majority of those working in web3 being male-identifying. Initiatives to improve the web3 gender balance include [H.E.R DAO](#) and [Surge](#) who help to **onboard women** into web3 through financing and education.

Many web3 efforts relate to the funding of **education for girls** using cryptocurrency donations. [Black Girls Code](#) is an example **introducing coding to young girls** from underrepresented communities (received almost \$80,000 in Gitcoin grants to date), and [African Angels](#) is a school in South Africa (\$8,000 in Gitcoin grants).

In 2021, a [global report](#) on women and cryptocurrency highlighted the power of web3 to provide **financial independence** to women. The team interviewed 60 women from 31 countries, with 68% of respondents from non-developed nations. The majority had **lived through a crisis** involving high inflation, devaluation, crippling debt and/or financial isolation. It was concluded that these experiences inspired them to pursue their own financial independence through cryptocurrencies.



Source: Spindler, Marina. "Global Report on Women, Cryptocurrency and Financial Independence." *The Defiant*, 15 September 2021, <https://thedefiant.io/global-report-on-women-cryptocurrency-and-financial-independence>.

"I would love to get paid in DAI. I work for an international company that [pegs] my salary to the local standard of living," said Alice from Argentina. "But they do not account for the fact that my money loses half its value within six months. I am not able to save in dollars, so instead, I convert much of my salary to digital currencies."

Over a third of our respondents also reported having experienced a financial crisis in their country, such as repetitive devaluations. These experiences inspired their interest in Bitcoin and other digital assets. In some cases, respondents from Argentina and Venezuela were numb to the exhaustion of managing chaos on a regular basis. They were laser-focused on addressing what was under their direct control since they were used to instability and not relying on the government.

Humanitarian response



Recent humanitarian crises – including **COVID19** and the **war in Ukraine** – have catalysed the use of web3 in **Humanitarian response**.

The majority of these efforts have focused on **cryptocurrency donations** for humanitarian relief. Most notably, the donation of around **\$1 billion** in cryptocurrencies by Vitalik Buterin (Ethereum co-founder) to an **Indian COVID relief fund** in 2021 – including 500 ETH and 50 trillion “meme coins” called Shiba Inu.

As of March 2022, Ukraine had received close to **\$100 million** in crypto donations. The majority were received into a main fund run by a **Ukrainian crypto exchange** called Kuna, which is assisting the government in converting crypto to fiat.

This main fund has primarily been used to buy food, gas, medical supplies, firearms for civilians, and civilian evacuations. While a second wallet – coordinated by the **Ministry of Digital Transformation** – is funding the army. The Ministry has also launched an NFT collection to help with military funding (see Examples).

RELI3F is a global humanitarian aid initiative founded by the web3 community, with an initial focus on the war in Ukraine. In 2022, it won Opensea’s ‘**Top NFT Collection for Good**’ prize.

Ukraine is selling NFTs to support its military

First announced in early March, the NFT collection – called “**Meta History Museum of War**” – is now live.

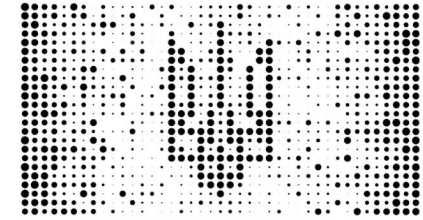
The collection is meant to be an “NFT museum” **documenting the history** of Russia’s invasion of Ukraine.

The collection is currently comprised of 54 NFTs documenting the events of the **first three days** of the war. The illustrations were done by Ukrainian and international artists, and each one references a tweet documenting some aspect of the invasion and the world’s response to it.

THE NFT-MUSEUM

of the war of putin's russia against Ukraine

Buy NFT Now

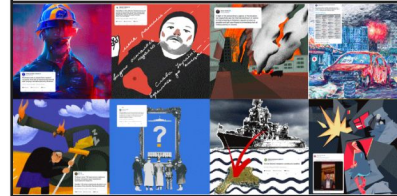


National NFT platform approved by:



Warline

A timeline-based set of NFT art pieces that tells how the war unfolds



The war's been going on for

162 DAYS

24 February 2022 – Until now

Avatars for Ukraine

A charity collection of the iconic digital art created in response to the largest war since WWII



Total funds raised

\$1,313,792

806.63 ETH

Climate change & protection of nature



There are many existing web3 projects related to the theme of **Climate change and protection of nature**.

These projects sit within the **regenerative finance** (ReFi) movement – which aims to promote sustainability goals – and thus far is predominantly focused on **carbon markets** and **community stewardship of natural resources**.

Prominent examples include [Toucan](#) (connecting the voluntary carbon market to web3) and [KlimaDAO](#) (digital currency backed by carbon assets). There are many more examples, including [Moss](#) (goals relate to carbon offset and protecting the Amazon rainforest).

Some ReFi [projects](#) work with **local communities** and seek to empower **indigenous communities**.

Bitcoin grants is a key source of funding for many ReFi projects (see Examples).

< Back to Grants

Rainforest Direct

Community DeFi

<https://rainforestfoundation.org/> 0x3383...4aCb

rainforestus Latin America

Updated a month ago

Lifetime funding received
\$66,976
raised from all contributors

< Back to Grants

Decentralized Solar Power for the People - Bringing RECs on-chain

Protocol Labs (IPFS / Filecoin) Radicle Climate Solutions DAOs

<https://spark.eco/> 0x5B62...6d2D

spark_eco North America

Updated 2 months ago Raised external funding

Lifetime funding received
\$8,980
raised from all contributors

< Back to Grants

Planting fruit trees in 64 schools and 40 health centers across Tororo district in Uganda East Africa / Ecosystems Restoration in Uganda.

Climate Solutions

<https://www.ayoweccauganda.org> 0xE559...DF4B zkSync Polygon

ayowecca_uganda Africa

Updated a month ago Raised external funding

Lifetime funding received
\$29,198
raised from all contributors

MOSS OFFSETTING EXAMPLES

GOL + MOSS

Gol is Brazil's largest airline with 20 million passengers per year and has the world's fifth largest Boeing fleet.

Now Gol passengers can offset their flight carbon emissions with Moss!

Offset now

Why Carbon and Web3

Towards a Regenerative Economy

Programmable carbon opens new opportunities for a regenerative and distributive economic system — one in balance with the planet's boundaries.

Global health



There are many existing web3 projects related to the theme of **Global health**.

These projects sit within the decentralised science ([DeSci](#)) movement, which is predominantly focused on the [biotech sector](#).

The DeSci movement has active communities established across the globe, including China, Japan and Brazil.

One of the largest organisations in this space is [Molecule](#), which is using web3 (particularly [IP-NFTs](#)) to expedite the development of novel therapeutics.

Some communities – such as [crowdfunded cures](#) – are also experimenting with web3-based “**impact bonds**” to incentivise clinical trials for off-patent therapies.

Longevity is a key area of focus in the web3 health space (related to the potential impact across multiple diseases). [VitaDAO](#) is a particularly large and relatively established DAO, already funding longevity research in universities across the world.

Although COVID-19 calysed the DeSci movement, this has not yet emerged as an area of focus within the web3 health community.



The future of life science research will be driven by open, liquid markets for intellectual property powered by web3 technology.

MISSION

Crowd Funded Cures' mission is to incentivize clinical trials for off-patent therapies that are otherwise ignored because a monopoly price cannot be enforced with patents.

Help us establish a Social Impact Bond for off-patent medicine. Because the best medical science that can help the most patients should get funding it needs, irrespective of patents.

We have raised \$12.7 Million in Seed Funding to Build the Future of Decentralized Science and Biotech

Examples

Tyler Golato @GolatoTyler · Jun 14
New IP-NFT! Excited to support this groundbreaking work on mitophagy from @TheFangGroupUIO!

VitaDAO @vita_dao · Jun 14
Evandro Fang's project will be the 3rd longevity research project funded via IP-NFT. This historic moment needs to be celebrated properly! 🎉

Join VitaDAO's IP-NFT Transfer Ceremony with @Molecule_to & Evandro Fang
🕒 June 15 4pm CET
▶ youtube.com/watch?v=ZcUXGz...
[Show this thread](#)

VitaDAO IP-NFT Transfer Ceremony with Molecule & Evandro Fang
15 June 2022
Powered by Nevermined, Ethereum & Arweave
Online Event

ID3 Submissions

The next section of the report contains a summary, analysis and feedback on **all ID3 submissions**, including votes and prizes awarded.

For each submission, we outline **pros**, **cons** and **significant gaps**.

We also provide a **wider context**, including a comparative analysis of each submission to similar or relevant projects in both the web3 ecosystem and beyond.

For context, the judging panel consisted of 11 people. Feedback from the judging is provided. This includes **anonymous feedback** quotes and a **tally of the voting**. Judges were asked to vote for their preferred first and second choice for each prize. Votes were collated and discussed on a call, during which decisions about **prizes** were made by the team.

Biological material supply chains

Project: Blockchain-Bio Commerce

“International, on-chain market for biological materials that enables transparent and streamlined trading and shipping.”

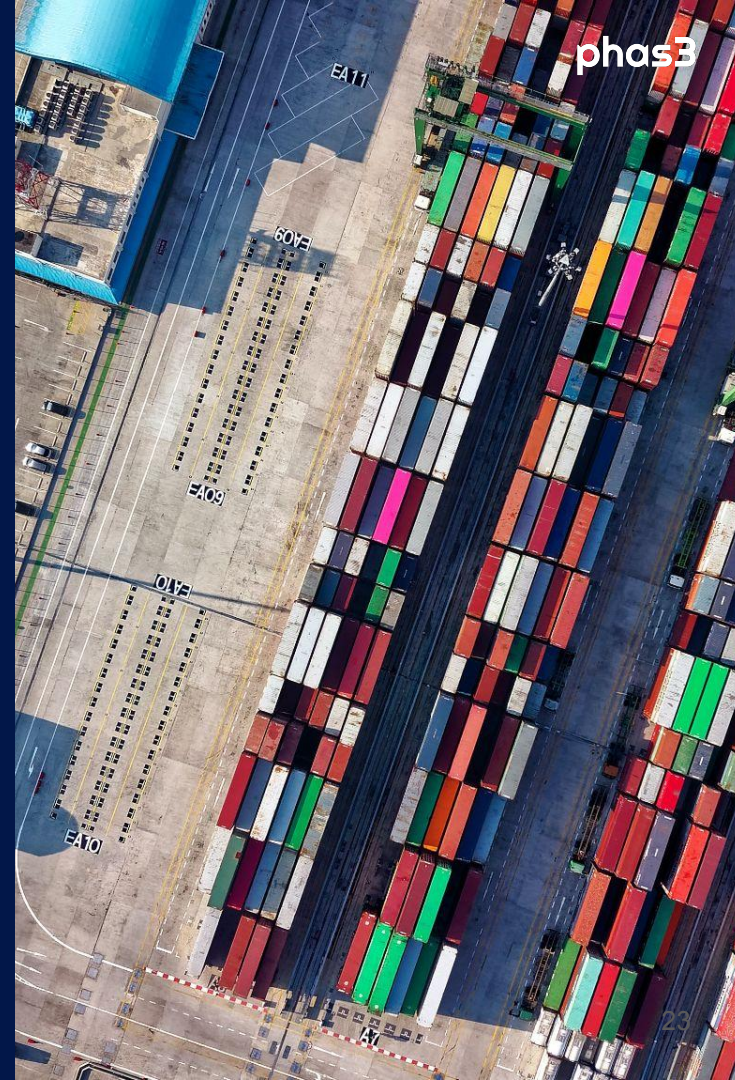
Global health

Supporting sustainable economies

Climate change & protection of nature

Female empowerment & protection

Humanitarian response



Pros

- Opportunity to **improve yields** for biological materials such as seeds and enzymes (including for crops, fermentation, lab work). The benefits of this are wide ranging, including improved natural resources and food supply, enhanced biodiversity, and crop resilience.
- Opportunity to increase **openness and transparency** of the bio-material supply chain. The benefits of this relate to improved reliability (e.g. crop genetics), enabling farmers to tailor strains to microclimate niches, and reduce risk of obtaining counterfeit materials. Additionally, improved compliance and accountability (e.g. preventing introduction of invasive species).
- Such a large, **open dataset** would also enable mapping of microclimates to optimal strains (“gene-to-table results”), and help identify strains for particular circumstances (e.g. regeneration, natural disasters).
- Opportunity to **streamline processes**. The benefits of this relate to speed of shipping and ease of understanding procedures and taxes across borders.

Cons

- Need for **integration with existing** regulations and processes, and **adoption of new procedures** (i.e. will stakeholders accept crypto tokens?).
 - Did not detail how to **prevent fraud** i.e. mechanisms to verify off-chain data (what is grown/sold) is the same as data recorded on-chain.
 - May increase the introduction of **new strains** without existing knowledge about potential impact.
-

Context

- [Hyperledger Fabric](#) is already used in food supply chains (e.g. [Walmart](#), sustainable [fishing](#)).
 - Project using blockchain for [tea farming in Malawi](#) illustrates successful enhancement of global supply chain with blockchain.
 - Existing project [Organic Block](#) (web3 urban agriculture and supply chain solution) could be a potential partner.
-

Gaps


- More **detail required** on: Current cross-border supply chain processes and accountability for bio-materials, KPIs named, considerations/benefits for labs, fraud prevention.
- Adding a **particular example** would have helped anchor the idea and allow further elaboration and exploration (e.g. for context, involvement of communities, risks, pilot, key stakeholders).
- Web3 for food supply chains has been trialed. Would have been good to **evaluate some key examples** and identify lessons.

“Good thematic fit. Potentially good fit for Web3 – supply chains, disintermediation, trade facilitation. Worth looking at Tea Supply Chain project in Malawi for some of the challenges around this project. Big challenge is integration with existing regulation and processes – makes this a hard problem to solve. Could work if they find engaged and capable regulators and companies willing to back this.”

“I really like this thinking because it seems to solve problems for a number of stakeholders. The most brilliant bit is the token for regulator clearance. Can web3.0 create interoperability of trading borders and streamline processes? Maybe! I like the two way flow of commerce, getting the right inputs in the agri market and the output that’s traceable and fast tracked to the buying market.”

“I question if an on-chain solution is the best for this project because it will be slow to authenticate transactions and is based on the assumption everyone will use the same blockchain.”

“This solution tackles using blockchain for provenance tracking”

Greatest involvement of relevant communities	I
Best use of web3 technology to solve a problem 	IIII
Most thorough exploration of risks	I
Most inspiring idea	IIII

Landfill clearance

Project: Pure DAO

“A common issue for developing countries is the numerous landfills they have, especially those close to slums. Our idea ... consists of charities/organizations that manage the clearance of landfills. To align incentives and vitalise funding in landfill removal, Pure DAO uses a novel government’s framework and NFTs. Web3 allows for decentralized governance which results in more enhanced crowdfunding.”

Global health

Supporting sustainable economies

Climate change & protection of nature

Female empowerment & protection

Humanitarian response



Pros

- Opportunity to help clear landfills through **crowdfunding** with web3.
 - Opportunity to improve **transparency** and enhance **local governance** and **collaboration of stakeholders** in landfill clearance.
 - Focused on **one particular place/pilot** (Dharavi, India).
 - Emphasis on **collaboration with existing** charities here.
-

Cons

- Employing local unemployed people to clear landfills has **ethical implications** that requires substantial evaluation.
 - Aim is to **sell majority stake back to government**, which may undo a lot of the good work.
-

Context

- Lies at the intersection of several interesting emerging areas which the project could consider **partnerships** with – including web2 organisations innovating disposal technologies, and web3 organisations/DAOs for **land/resource management and regeneration** (e.g. [terra0](#), [Sovereign Nature](#), [Digital Gaia](#), [ecoToken](#)).

Gaps

- Unclear **how** the landfill will be cleared (where is the material moved to?)
- Hardware/expertise required “shouldn’t be too substantial or complex” suggests a **lack of understanding of dangers** (e.g. disposal of toxic materials is complex).
- It is unclear why “a DAO would be best to handle the governance of the organization” – what gaps/problems are there with the current charities that DAO will solve? Would’ve liked more information on **current context** of organisations operating here and previous attempts to clear.
- It is unclear how a DAO would create the **crowdfunding** (token sale is assumed; where the value/return for token holders comes from is unclear).
- It is unclear how the DAO would be **accountable** (e.g. for injuries).
- Unclear how DAO decisions will be **enforced** and accounted for on site, e.g. removing vs burning, selling of scrap metal, etc (a common problem with any real-world to on-chain data pipeline).
- An **Impact certificate** approach could be appropriate in this scenario – would be good to evaluate this option.

“Good thematic fit. I like that that have restricted the initial scope to Dharavi. It is not clear why a DAO should improve governance apart from transparency. Transparency can be achieved in simpler ways e.g. open data approaches. Better governance can also be achieved in other ways. It isn’t explained how a DAO would benefit governance and that seems to be the core of this proposal. Is this about a new operating model to attract funding? This isn’t explained in the proposal. Idea of improving governance with a DAO is interesting but lack of explanation of how this might work means that this doesn’t seem like a good proposition.”

“Practical about those living in slums not having access to DAO type thinking, but have thought about leveraging intermediary orgs and NGOs. So the idea is to employ people in slums via DAOs to clear the landfills? Not sure I see where the landfill will be ‘cleared’ to or why there are NFTs in the mix. What for?”

“Completely ignorant of the risks of centralising employment... they are taking unorganised employment away from children and families who have no other means of income... Model example of a business going into a developing world situation and creating hierarchical structure”

Greatest involvement of relevant communities	
Best use of web3 technology to solve a problem	
Most thorough exploration of risks	

Supporting artists & art collection incubation

Project: [Curation DAO](#)

“The Curation DAO framework is a token-holder-based voting system with the goal of supporting artists and incubating collections.”

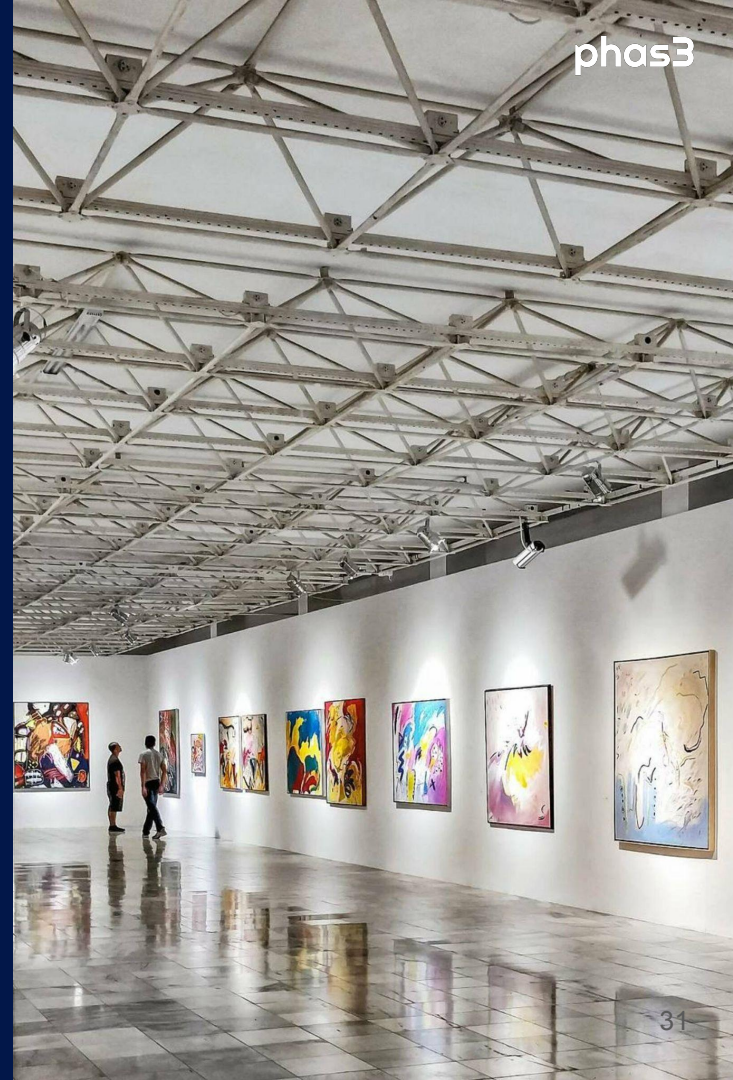
Global health

Supporting sustainable economies

Climate change & protection of nature

Female empowerment & protection

Humanitarian response



Pros

- Opportunity to **raise the profile of artists** through “spotlighting”, and for artists to **generate revenue** through a “marketplace”.
 - Opportunity for large institutions, like museums, to decentralise decision making to **communities**.
-

Cons

- The submission claimed to fit within the theme “Supporting sustainable economies”, however no clear link is made between the art economy and international development, or SDGs. For many judges the **brief was missed**.
- **Pre-vetting** by a centralised decision making foundation may be unappealing to many.

Context

- There are existing initiatives to teach artists in developing countries about leveraging web3/NFTs (e.g. [NFT Africa](#)), however Curation DAO does not focus on such communities. There are also incubator-like DAOs which offer artists mentorship and grants (e.g. [ENDAOMINT](#)), however Curation DAO does not offer these. **Including these aspects** could potentially result in a positive impact on international development.
-

Gaps

- Grounding the idea in a **relevant example** would've helped in completing the tasks and illustrating the international development aspect of the problem being tackled – e.g. supporting artists in x community, or furthering the culture economy of x location by partnering with x museum.
- It is not clear **why a DAO** is necessary to achieve the aim of spotlighting artists.

“Curation DAO missed the brief for me. There wasn't really a consideration of the international development context.”

“Not an obvious thematic fit.”

“I'm not sure that democratising artistic expression is a problem we'd like to solve in our work. Not relevant.”

Best use of web3 technology to solve a problem	
Most thorough exploration of risks	

Fitness & tackling obesity

Project: Investing in your fitness

“Move-to-earn”

Global health

Supporting sustainable economies

Climate change & protection of nature

Female empowerment & protection

Humanitarian response



Pros

- Opportunity to help **tackle obesity** (currently surging in developing countries) by providing financial **rewards to exercise**.
 - Combination of education, exercise, dietary interventions and community is a **holistic solution**, and ability to personally tailor to circumstances is inclusive and **user-centric**.
 - Option for initial membership to be sponsored (e.g. by UN), and for governments to be rewarded for meeting obesity targets (e.g. by IMF), to **reduce inequalities** between countries.
-

Cons

- Focus of the project is on **high income** countries and individuals.
- Smart devices/fitness trackers required, which is a **barrier to entry** for many.
- It is unclear what **personal data** will be stored on-chain and how this will be protected. Adding personal health data to the blockchain has ethical and legal implications which as yet are not fully understood by the industry.

Context

- **Move-to-earn** is a growing part of the web3 ecosystem (e.g. [Global Fit Club](#), [Yur](#)). Leveraging *move-to-earn* to help tackle obesity in developing countries (funded by an international body) could potentially have a positive impact on international development. However, the logical step would be for an **existing move-to-earn solution** to partner with an international body/government (e.g. WHO) for a **pilot** tackling obesity in a particular **relevant location**.
-

Gaps

- There has been a substantial amount of research into incentivising people to exercise through financial rewards – would've been good to include this information (i.e. **under what circumstances** does it work?)
- The team acknowledge that users may try find loopholes, but this is not explored enough – e.g. users could **cheat** by spoofing fitness data and it's unclear how to prevent this.
- It is unclear what **personal data** will be stored on-chain and how this will be protected. Adding personal health data to the blockchain has ethical and legal implications which as yet are not fully understood. Such risks were not addressed.
- Would've been beneficial to focus on the obesity epidemic within a **particular relevant context** (e.g. a developing country or particular community).

“Investing in your fitness missed the brief for me. There wasn't really a consideration of the international development context.”

“It addresses theme 5 and the problem of obesity. Doesn't seem an obvious web3 fit. Why Web3 instead of the existing approaches to incentivising health in the smart watch/phone industry? What does web3 and this project add?”

“Explicitly states that this idea is for high income countries. Disqualified in my opinion.”

Health data

Project: Cure DAO

“When thinking about Global Health, over 2 billion people are suffering and 150,000 people die every single day from preventable diseases. So we need a collaborative framework for personalized precision health. Our hypothesis (and dream) is that this new system can accelerate the rate of clinical discovery 350,000 times and create a world where suffering is optional.”

Global health

Supporting sustainable economies

Climate change & protection of nature

Female empowerment & protection

Humanitarian response



Pros

- Cure DAO are building a collaborative framework for personalised **precision health**.
 - Allowing people to **own and control their health data**.
 - This could potentially **accelerate the rate of clinical discovery**.
 - This helps to support sustainable economies because digital health behemoths are currently in California. With a decentralised alternative, **anyone** can make a machine learning model or micro-app and monetise it – creating **job and revenue opportunities** for developing countries.
 - Detailed ecosystem architecture which provides context around how this system could work.
-

Cons

- There **isn't enough information** about how this might work in practice and **overcome obstacles to adoption** by the public and other key stakeholders in the health data system.
- Putting health data on the blockchain is risky. There are **ethical and legal implications** which as yet are not fully understood.

Context

- Precision healthcare is a problem being tackled by many different teams using many different techniques. It is possible to achieve precision healthcare **without web3**.
 - Within web3, **similar solutions** are in development (e.g. [Flemming protocol](#)). These sit within a wider web3 biotech movement (e.g. [Crowdfunded Cures](#), [VitaDAO](#)).
 - There are **risks** associated with putting health data on-chain. Hybrid solutions (which store data off-chain but may record non-sensitive data on-chain) may help solve this. Other solutions include using web2 storage but allowing for external compute (e.g. Openmined's remote data science).
-

Gaps

- As the biggest risk with this solution is putting personal health data on-chain, this **lacks technical detail** about how data in an ethical way to ensure safety and security.
- The exploration of **other solutions** attempting this does not go into enough detail of the numerous web2 related projects which aim to share health data through a marketplace-like solutions.
- No research into how the product could be **implemented in practice**, such as obstacles to adoption, or cross-border data sharing requirements.

“Clear thematic fit. Big idea – delivering the benefits of precision medicine globally. Seems like an extension of the idea for self-sovereign ID in the health space – which was one of the suggested use cases of self-sovereign ID. There isn’t enough information about how this might work in practice and overcome the obstacles to getting adoption by the public and by other key stakeholders in the health data system.”

“This is cool. It is solving a real problem in global health by overcoming a super clear barrier: data ownership and trust. Tackling a systemic issue systemically and the use of tech and the DAO feels meaningful.”

“It’s quite a Western idea that you don’t want immutable health records [on the blockchain] because in some countries you don’t have any health records when you are displaced”

“This is one of the most inspiring project and use cases for blockchain because you can utilise the value of data without the person analysing it ever seen the raw data ... this unlocks data silos and value we have never seen before.”

“Putting health data on the blockchain is incredibly risky”

Greatest involvement of relevant communities	
Best use of web3 technology to solve a problem	
Most thorough exploration of risks	
Most inspiring idea 	/

Women's health data

Project: Decentralised data for women's health

“Decentralized ecosystem for sexual and reproductive health data and collaboration. Consists of two main components: (1) A trusted, decentralized data-sharing platform, (2) DAO structure – with governance, treasury, strategy, voting, and growth led by the community.”

Global health

Supporting sustainable economies

Climate change & protection of nature

Female empowerment & protection

Humanitarian response

Pros

- Opportunity to **fill data gaps** on women's sexual and reproductive health in developing countries, to help with support and service design.
 - Opportunity to **reward women** for providing this data.
 - Clear about how they will involve **relevant communities**.
 - Included a **case study** of how this solution could be implemented in practice.
 - Included relevant **UN sustainable development goals** this solution would impact.
-

Cons

- There are **ethical issues** with monetising vulnerable people's health data.
- Privacy-preserving analysis in web3 is in its infancy and **still emerging**.
- Key gaps in the submission to address (see Gaps).

Context

- Women's reproductive and sexual health data is extremely sensitive, and developing countries often have data gaps.
 - Currently, there is **substantial interest** in this data due to changes in US abortion laws, and the popularity of digital apps collecting and monetising this data.
 - This project seeks to store data off-chain and use web3 for **additional privacy and security**, and to reward individuals for sharing data. **Monetising personal data with web3** is an emerging use case (see [Ocean](#) and [data union](#) ecosystems).
 - Privacy-preserving blockchain tools are relatively new – **logistical questions** remain.
-

Gaps

- Did not adequately explore **risks** or potential **ethical issues**.
- Did not adequately explore possible **technological issues** related to this emerging area of web3.
- No clear explanation of **why a web3 solution** is the answer to this problem.

“Good thematic fit. There are existing programmes and approaches to solve the problems identified. Not clear what value web3 adds. There wasn’t a clear explanation of how this would work and why it would be better than other approaches. Makes this hard to evaluate.”

“They acknowledged that they would involve the communities that they would collect data from. It’s still not unproblematic, because it’s monetising (potentially) poorer or vulnerable individuals’ health data - and big questions about ethical use of that data.”

“Feels like a data solution looking for a problem. I really don’t understand what they’re pitching.”

Greatest involvement of relevant communities	///
Best use of web3 technology to solve a problem	
Most inspiring idea	///

Crypto reporting

Project: Failsafe

“The Failsafe is expected to be an online cohort-styled collective with a simple idea: create a community of citizen researchers, journalists and investigators that can use open-source cryptocurrency data to produce deeply reported stories about the crypto industry that you won’t find elsewhere.”

Global health

Supporting sustainable economies

Climate change & protection of nature

Female empowerment & protection

Humanitarian response



Pros

- Providing much needed **data transparency** and **human usability**.
 - Producing in-depth “follow the money” research on cryptocurrencies can have **transformative impact** in explaining the relationship between new digital currencies and power.
 - Failsafe provides **grassroots learning** where anyone can learn the skills to take part in crypto journalism.
 - You can get your **initial investment back** by contributing to the DAO.
-

Cons

- More applicable to solving a **web3 problem** rather than using web3 to help solve problems with international development.
- Members have to buy a \$SAFE token in order to take part in the community, which creates a high **barrier to entry** for community members of more developing nations.
- The only barrier to entry is the \$SAFE token which could lead to higher rates of **spam** and members who are purely **speculators**.

Context

- Online learning communities to help educate people on web3 do exist – some of these include KERNEL and Encode Club.
 - Existing communities not apply the same **tokenomics** as Failsafe as use different metrics to **admit members**.
 - The most popular and closest example to the tokenomics Failsafe have suggested is Friends with Benefits ([FWB](#)), which experienced the community being flooded by **speculators** when the \$FWB token price ballooned in 2017. It should be suggested that the \$SAFE token be kept as stable as possible to prevent this sort of risk.
-

Gaps

- Did not mention what will happen if they fail to **attract a critical mass** of contributors, readers and investors.
- No explanation of risks associated with **monetising communities**.


“Thematic fit. Good problem description. Have identified useful niche. Didn’t mention biggest risk that this fails to attract a critical mass of contributors, readers and investors.”

“Identified a clear, new opportunity”

“It’s an interesting idea, because we say that distributed ledgers are transparent and immutable, but not many of us have the expertise to show or prove that from the data records it holds.”

“This isn’t web3.0 solving a problem so much as journalism solving the web3.0 problem. Is not relevant to our communities, feels like more tech ghetto to me”

“Working on web3, in web3, for web3”

Greatest involvement of relevant communities 	
Best use of web3 technology to solve a problem	
Most thorough exploration of risks	
Most inspiring idea	

Broader Analysis

Gap Analysis: Themes

Projects were able to choose more than one of the **five international development themes** provided. The most popular theme was *Supporting sustainable economies* (5/7 projects), followed by *Global health* (4/7 projects), *Climate change & protection of nature* (2/7 projects), and *Female empowerment & protection* (1/7 projects).

No projects addressed the theme of *Humanitarian response*. This is surprising due to the rise in the use of cryptocurrencies for this purpose – notable examples include COVID relief in India and the war in Ukraine.

COVID response was also missing from the submissions, despite 4/7 submissions focusing on *Global health*, and the rise of [decentralised biotech](#) in 2022.

The most prolific theme in web3 is **decentralised finance** (*DeFi*) – including savings, payments, and loans – however we did not see any DeFi projects in the submissions. The only project which touched upon this was *Investing in your fitness* (*move-to-earn* model). It is possible that people do not see DeFi fitting within international development, or people may feel the market is saturated and wanted to explore something different.

Gap Analysis: Tasks

The **exploration of risks** was a key component of ID3 – with a dedicated prize – however this was **poorly attempted** across all entries. Consequently, this prize was not awarded and the funds were distributed across the remaining three prizes. This indicates teams particularly struggled with this form of thinking.

Most projects had a **global focus** and were not targeted at a particular country or location-based community, with the exception of *Pure DAO* (Dharavi, India) and *Women's health data* (Uganda). Others indicated general relevant communities (e.g. *CureDAO* mentioned focusing on people in developing countries). The **involvement of relevant communities** was a strong element across many projects, but details on this were lacking.

Details were also generally lacking on analysis of similar projects, and how impact will be measured (e.g. KPIs). **Evaluation is a key component** of traditional international development, with long timescales and a large percentage of budgets allocated to this. Such considerations were missed in every submission.

Evaluation of **web2 alternatives** was generally poor. Where mentioned, it was not clear why the benefits of blockchain (e.g. security) were necessary beyond web2 versions. This indicates that teams struggle with explaining why web3 is necessary.

Projects were asked whether their idea could meet the **Digital Public Good Standard** – only two teams answered this. Both suggested it could (*Cure DAO* and *Curation DAO*).

How representative are the ideas of the wider Web3 ecosystem?

- Large relevant components of the web3 ecosystem were missing from submissions – including web3 for humanitarian response, and DeFi.
- However, many of the submissions touched on other key web3 themes that have emerged over the past couple years – including **regenerative finance** (*ReFi*), e.g. *Pure DAO*; and **biotech**, sitting within **decentralised science** (*DeSci*), e.g. *Biocommerce*, *Cure DAO*, *Investing in your fitness*, *Women's health data*.
- As ID3 falls within **web3 for public goods**, these ReFi and DeSci related submissions represent these current trends.

Missing considerations around risk

The projects significantly struggled with the task of **exploring risks**. Important considerations which we would liked to have seen explored include (but are not limited to):

- **Ethical and legal issues** related to putting personal **data on-chain** (e.g. health data).
- Risks around using emerging web3-based tools intended to **preserve privacy**, but as yet remain largely untested.
- The potential for **exploitation of vulnerable people** through incentives, e.g. to sell personal data, or participate in a DAO.
- The work required to comply with or help change **regulations**, and **coordinate global stakeholders**.
- Details on how to implement the **minimum viable product** (MVP) in conjunction with ecosystem-wide solutions.
- **Token speculation** risks – these were not addressed or were overly minimised.
- Details surrounding **DAO governance** and accountability – as yet there are no good examples of DAOs working well in these areas.

Ten week follow-up

All projects were followed-up 10 weeks after completion of the ideathon. Updates provided below:

Biological Material Supply Chains

- Won a grant (\$1000 USD) from Algovvera.ai to work on mapping microclimates to species and strains.
- The team will create an open-source repository with this data for anyone to build on (guided by phas3).

Landfill Clearance

- Idea not progressed further yet due to other commitments, but hope to in the future.

Health Data

- Created a vault for the digital twin data, and made an NFT-based authorisation system to access data.
- Made a no-code health app builder.
- Updated the solution's APIs and architecture.

Women's Health Data

- The team continues to work on the pilot in Uganda.
- They have refined target data (influenced risk discussion during the ideathon).
- Focusing on menstrual cup use for promoting a range of outcomes, including school attendance (in partnership with a Ugandan NGO).

Implications

Implications for where web3 and international development are going

The submissions indicate a strong interest in **health** and the **environment** within web3 communities.

Maintaining **personal data privacy** whilst leveraging web3 was a key component of many submissions. **Global standards** for technical architectures to ensure ethical and safe methods to achieve this are necessary as they are currently lacking.

Submissions indicate that thinking in web3 for international development remains very **skeuomorphic** – introducing web3 to existing solutions.

There is a divergence between the **language** of traditional international development and web3, whilst describing similar things – “Public goods” and “Impact DAOs” often align with “international development”. For example, ReFi relates to the theme “Climate change and protection of nature”; while “Global health” fits within DeSci.

There is also a divergence between the location-based mindset of traditional international development and the **global web3 mindset** – where nation states are secondary to digital communities.

To further catalyse web3 for international development, it would be beneficial to close the gap in these areas by **revisiting language and terms** used, and shifting the emphasis of international development away from specific geographical locations to **communities united by common problems and needs**.

Implications for policy and regulation

Governments are at a turning point where they must make decisions about **web3 policy and regulation**. Key decisions relate to investments, taxation, accountability, data protection, and identity. Decisions must simultaneously **protect citizens** and **national interests**, whilst furthering **technological innovation** and **global development**.

Each country will balance these in their own way, according to their priorities and risk appetites. Consequently, a “**slider**” **approach** for relevant dimensions may help with decision making processes (e.g. low to high state intervention, with associated pros, cons and risks outlined).

Key takeaways include the potential benefits of **revisiting language and mental models** associated with traditional *international development*, and the need for **global policies and standards** to be developed (e.g. related to personal data in web3). It would be beneficial for the UK to help establish **cross-border working groups** on such issues.

Implications for web3 communities

The community would benefit from **support thinking through risks** and **evaluation metrics** associated with their work. **Tools** and **working groups** could be established to help with this. The ability for people to connect with **mentors and advisors** to help mitigate project risks and evaluate impact would be beneficial for both web3 entrepreneurs and governments. We also like the suggestion by *Careful Industries* of developing **Sandboxes** for experimentation.

The community would benefit from **awareness and support around existing relevant tools and standards** – particularly the Digital Public Goods Standard.

Since completing ID3, some projects have **won funding** from the web3 ecosystem (e.g. [Biocommerce](#)) or are in the process of applying (e.g. *Women's health data* is applying to [OceanDAO](#)). A programme of small government **grants** and **support programmes** to help guide projects in executing their pilots could be offered as a follow-on option after events such as this.

It is worth noting that investment into the web3 ecosystem (for example, through prizes, grants, and investment) often somewhat remains within the system, **furthering innovation**. This is illustrated by the following quote from a member of the *Biocommerce* team (Winners of the prize for *Best use of web3*) – “*I plan on using the prize to contribute to the next round of [Gitcoin grants](#), as that seems like the best way to pay it forward*”. The *Biocommerce* team are also using their grant from Algora to create an open-source mapping of microclimates and species strains.

Next steps for this project

Phas3 continue to work with teams to help with follow-on support, including connecting participants with **collaborators** and **funding opportunities** where possible.

We are created an open-source version of the **ID3 protocol** as a community tool for others to leverage and iterate on, and will provide ongoing support for this.

We recommend that a useful exercise for the wider project would be to **map what is meant by *international development*** through the lens of the UK and compare this to the web3 public good/impact DAO landscape. This would enable the project to identify commonalities and possible points of friction where language, understanding and values diverge.

Glossary

[Compute-to-data](#)

[DAO](#)

[DeFi](#)

[DeSci](#)

[Ideathon](#)

[Impact certificate](#)

[Impact DAO](#)

[International development](#)

[IP-NFT](#)

[Move-to-earn](#)

[NFT](#)

[Public goods](#)

[ReFi](#)

[Skeuomorphic](#)

[Token](#)

[Web3](#)