

White Paper by Deep Knowledge Group

Techno-Philanthropy: Harnessing the Power of Advanced Technologies to Create Lasting Social Impact in Global Philanthropy

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As humanitarian challenges escalate, philanthropy drives solutions, while technology drives philanthropy. Can we redefine philanthropy for the modern age?

Philanthropy as Humankind's Last Resort

Philanthropy, an endeavour as old as humankind itself, has played a critical role in addressing some of the world's most pressing challenges, from poverty and disease to environmental degradation and social inequality.

The philanthropy sector is of unique significance as it is a final recourse and ultimate source of hope, providing the only form of governance and leadership that can step in after democracies, autocracies, and other forms of governance have failed to provide adequate solutions to humankind's seemingly endless challenges.

Philanthropic organisations have been at the forefront of providing assistance and relief to communities affected by natural disasters, wars, and pandemics. They have also invested in research and development of new technologies and innovative solutions to address global challenges. Philanthropy provides more sustainable opportunities by bridging some of the wealth gap between affluence and poverty, distributing resources and supporting initiatives that aim to uplift marginalised communities.

Despite these efforts, the scale of the challenges facing humanity today continue to escalate as governments fail to meet them.

The Imperfect Nature of Governance and the Role of Philanthropy in Plugging the Gaps

It is no secret that no system of governance anywhere in the world is perfect, and no economy is perfect either. Every system has its strengths and weaknesses, and it is inevitable that some individuals or communities will be left behind, excluded, and underserved.

It would be a mistake to regard these underserved communities as synonymous with the third world, which is the first notion that usually springs to mind at the mention of "philanthropy". Despite being hailed as the world's most advanced economy, according to the U.S Census Bureau, there are 37.9 million Americans living in poverty in the United States, accounting for 11.6% of its total population.

It is right up to this point on the scale of prosperity that philanthropy acts as a humanitarian equaliser, levelling the playing field by fiat, often acting independently of the financial, economical, or political equation. Philanthropy has played a critical role in providing access to basic healthcare, crisis relief, and addressing environmental impact.

In times of crisis, such as natural disasters, pandemics, and wars, philanthropic organisations have been the first to respond, providing urgent relief to affected communities. Philanthropy has also invested in research and development of new technologies and innovative solutions to address the challenges facing humanity today. **For example, the current advances in the development of a vaccine for Malaria, a disease that has killed millions yearly, wouldn't have been possible without the [relentless efforts of the Bill and Melinda Gates Foundation](#).**

Moreover, philanthropy has played a critical role in environmental conservation and sustainability, investing in renewable energy, supporting conservation efforts, and advocating for environmental protection policies.

Philanthropy has also been instrumental in providing education and training opportunities for disadvantaged communities, empowering them to build a better future for themselves and their families. Philanthropic organisations have invested in initiatives aimed at creating economic opportunities, supporting entrepreneurship, and fostering innovation. It is philanthropy that provides access to basic healthcare, crisis relief in failed states. Philanthropy has also empowered marginalised communities to build a better future for themselves through education, training, and economic opportunities.

In such ways, the work of philanthropy has often continued what governance falls short achieving. By working together with philanthropic organisations, governments, and other stakeholders, we can create a better future for all.

But as these challenges escalate in a more modern and advancing world, a more coordinated and efficient approach from philanthropy is required to keep up.

The existing global philanthropy industry is lagging years behind more tech-driven industries, that is to say, domains that need to prioritise technological modernisation and innovation such as finance, health, agriculture, and energy industries, characterised by high rates of innovation and increasing efficiency.

There are many reasons behind this, however. One major reason to note is that philanthropy, as a sector in itself, is largely driven by incentives and metrics such as social impact without a strict commitment to profit, which pales in comparison to other industries and sectors. The result of this is the existence of a sector that is technologically outdated, marred by gross inefficiency, poor accountability and transparency. For this reason, therefore, the philanthropic sector is yet to fully realise its global potential for maximum social impact and social good. While the achievement of varying levels of social good and impact through

these 'traditional' charity programmes and frameworks can be regarded as a success, we are still missing the big picture: **maximising the efficiency of philanthropy through technology to skyrocket the industry's capacity to create a more equitable world.**

This big picture is what we like to term "Techno-Philanthropy."

Consequently, philanthropy does not advance its goals with the same vigour and cost-effectiveness as other industries advance their technologies, with philanthropic ventures often proving **wasteful, lacking in transparency and accountability, and resulting in much lower actual, tangible social impact.**

An example of this wasted potential is philanthropy on the African continent. Globally, over \$2 trillion is spent on philanthropic activities. Africa receives over \$50 billion in aid every year. Over a thousand charity projects are going on at any given time in Africa. It is common to find news headlines that announce grand donations and projects running into billions. Yet, despite \$50+ billion worth of donations each year, over 433 million Africans are estimated to still be living in extreme poverty.

In 1970, 10% of Africans were living in poverty. Today, this figure reaches over 70% despite the increase in the number of NGOs and charity organisations aiming to alleviate poverty and improve social conditions. Because of a lack of transparency, only about 20 cents to a dollar ever makes it to the Africans in the best-case scenario.

In 2020, during the COVID-19 pandemic, the International Monetary Fund (IMF) approved a finance package worth \$3.4 billion to support the Nigerian healthcare system and mitigate the economic effects of the pandemic. According to *The Guardian*, Nigeria also had access to a \$90 million World bank health fund to combat COVID-19. Donations of food and other material resources were made by CACOVID (The Coalition Against COVID-19), many organisations, and private individuals.

Yet, some Nigerians claimed they were not beneficiaries of the donations and palliatives. So, spurred by hunger and desperation, on 26 October 2020, [the government warehouses in several states were broken into](#), and the citizens looted the foodstuff as the palliatives were shown to be hoarded or resold to the public by certain scrupulous persons. Unfortunately, in Africa, this is often the norm.

So, the big question is 'How can we turn around this waste, lack of transparency and accountability, and the resultant lack of trust, funding, and social impact?'

The concept of Techno-Philanthropy can be represented by the question: *If Philanthropy comes to the rescue of governance, can technology come to the rescue of philanthropy?*

Philanthropy has been a critical force for good, but its potential has been limited by the absence of technology. The lack of technological tools and infrastructure has made it challenging for philanthropic organisations to operate more efficiently, effectively, and transparently.

Consequently, as philanthropic solutions progress, some stubborn issues still persist, matters relating to financial inclusion; extreme poverty, identity verification; supply chain; assistive technology; technological infrastructure; access to internet; protection of data privacy for the marginalised.

Philanthropy is a domain which, being limited to some of the most inefficient and problematic methods of administration and accountability, is thus most ripe for on-boarding AI tools to improve efficiency, transparency and accountability from both a governance and operational standpoint.

The answer to this question is clear. All these issues could be remedied by very basic, already-scaled and democratised, easily accessible and integrative technology. The philanthropy system needs to be modernised and equipped with the minimum set of technologies to alleviate these issues.

Enter Techno-Philanthropy.

Techno-Philanthropy embraces technologically modern approaches to philanthropy, both in terms of logistics and governance, such as blockchain and the Internet of Things (IoT) for accountability and transparency, thus creating a tech-driven checks and balances system that deters corruption. At the very least, this will equip the philanthropy industry with the 'minimum stack' of modern technologies, already scaled and democratised 'basic' technologies, **so that philanthropy rides the technology wave.**

Here are some of the ways that by leveraging technology, philanthropic organisations can become more accountable, transparent and efficient, improving donor trust and confidence:

- **Technology and data science can help to improve decision making in philanthropy** by identifying core areas and needs that will have the greatest social impact by improving decision making and creating more significant social impact. By leveraging technology, philanthropic organisations can gain insights into the most pressing social issues and develop evidence-based solutions to address them. With the support of governments and corporations, we can channel resources and investments in the most impactful way possible, creating a better future for all. Data science can also help to identify patterns and trends that may not be immediately

apparent. For example, by analysing demographic and geographic data, philanthropic organisations and/or governments can gain a better understanding of the needs of specific communities and identify opportunities to make a significant impact.

- **Helping to streamline the philanthropic process, making it easier for organisations to identify potential partners and projects.** Digital platforms can reduce administrative bottlenecks and facilitate communication and collaboration between organisations, enabling them to work together seamlessly, transparently, and efficiently.
- **Creating more significant social impact and avoid wasting resources on white elephant projects** that achieve next to nothing. Governments and corporates can also benefit from this approach, pledging support to projects that will be more socially impactful, and in turn, create a better future for all.
- **The use of blockchain technology to increase transparency and accountability in donation tracking.** Blockchain enables donors to track their donations from start to finish, ensuring that their contributions reach their intended beneficiaries.
- **Enabling faster and more accurate data analysis,** improving resource allocation, and facilitating collaboration among philanthropic organisations. By harnessing the power of these technologies, philanthropic organisations can identify the most pressing issues facing communities and target their resources to achieve the greatest impact.
- **Reducing administrative costs and maximising the use of available resources.** For example, AI-powered chatbots can handle routine queries, freeing up staff to focus on more complex tasks.
- **Overcoming geographic barriers.** Digital platforms can connect philanthropic organisations with beneficiaries and local partners, facilitating communication and collaboration. Social media platforms have emerged as powerful tools for philanthropic organisations to reach a broader audience and raise awareness about their causes. Social media can help to connect organisations with donors, volunteers, and advocates, enabling them to expand their reach and impact.
- **A universal manifesto for philanthropy: harmonising regulatory jurisdictions\decentralising governance and regulation.** As money travels freely around the global philanthropy sector, a big question beckons - "where do the regulatory responsibilities lie?" Additionally, blockchain technology can be used to create a distributed network of stakeholders and regulators who can work together to ensure that global philanthropic activities are conducted in a safe and responsible manner. AI technology can also be used to track and monitor philanthropic activity, detect any irregularities, and ensure that international standards and regulations are being followed.

And finally, and most importantly of all, digital platforms can also facilitate communication and collaboration between philanthropic organisations, local partners, and beneficiaries. These platforms can help to overcome geographic barriers, enabling organisations to work together seamlessly and efficiently.

These are the ways in which tech-enabled global philanthropy represents humankind's last hope for tangible social impact. By leveraging technology, philanthropic organisations can

become more accountable and transparent, improving donor trust and confidence, help to target resources effectively, overcome geographic barriers, and facilitate communication and collaboration between organisations. As we embrace technology, we can unlock the full potential of philanthropy to create a better future for all.

Recent technological breakthroughs in philanthropy include:

Food Security:

- Crop-monitoring technologies like satellite imagery, drones, and machine learning algorithms are helping to identify crop diseases and monitor crop growth in real-time, enabling farmers to take timely action to increase crop yields and ensure food security.
- Mobile apps are helping small-scale farmers to access market information and connect with buyers, improving their bargaining power and enabling them to earn better prices for their produce.
- Blockchain technology is being used to create transparent and secure supply chains, ensuring that food is sourced ethically and sustainably.

Access to Internet:

- Low-cost internet connectivity solutions like Wi-Fi hotspots, community networks, and TV White Space technology are helping to connect underserved and remote communities to the internet.
- Digital literacy programs are empowering people with the skills they need to use the internet effectively, enabling them to access education, job opportunities, and other services online.
- Mobile apps are providing critical information and services to people in remote areas, such as health information, mobile banking, agricultural advice, and disaster alerts.

Gender Equality:

- Digital platforms are enabling women to access financial services and market information, helping them to start and grow businesses and achieve economic empowerment.
- Mobile apps are providing women with access to health information and services, including maternal health care and family planning.
- Data analytics tools are being used to identify gender-based violence hotspots and provide targeted interventions to prevent violence and provide support to survivors.

These breakthroughs in technology are helping philanthropic organisations to create a more equitable and sustainable future for all.

However, in order to effectively harness the power of technology, it is necessary to engage in interdisciplinary collaboration and dialogue, bringing together experts from a range of fields to explore the potential benefits and risks of advanced technologies such as AI. This

could involve collaborations between technologists, policymakers, ethicists, and other stakeholders, and should lead to the creation of frameworks for responsible AI development and deployment.

We intend to achieve such an ecosystem at Deep Knowledge Philanthropy, driven by a singular vision of using advanced data science and artificial intelligence (AI) to create an ecosystem that will enable global philanthropy to achieve its full potential. By leveraging the power of data science and AI, Deep Knowledge Philanthropy is developing innovative approaches to philanthropy that can identify the most pressing social issues and drive effective solutions. With a focus on cutting-edge technologies and a commitment to social impact, Deep Knowledge Philanthropy is leading the way in creating a new paradigm for global philanthropy, one that is driven by data, innovation, and a deep understanding of the most pressing social issues of our time.

The ecosystem itself takes the form of [Philanthropy.International](#), a next generation platform built by Deep Knowledge Philanthropy. We are driven by the core belief that technology is an effective tool to drive social change and impact, and herein lies the core mandate of [Philanthropy.International](#) - to deploy frontier technologies (Big Data Analytics, Artificial Intelligence, Blockchain) to tackle the vastly different social challenges in global philanthropy to build a more equitable world.

Our ecosystem, which is just one facet of a broader, more comprehensive AI Industry Analytics project, is built on the premise of the ethical use of advanced technologies (such as data analytics and AI) to create an open-access, efficient, transparent, easily scalable, and deployable tech-driven solution to improve collaboration, project execution, and decision-making in the philanthropic sector in a bid to maximise the potential of global philanthropy for all its stakeholders.

The Road Ahead

The next project for our Global Philanthropy Ecosystem – being developed in partnership between Artificial Intelligence industry Analytics (AiiA) – will be the application of its AI and Data Science back-end towards profiling, running and benchmarking the global Philanthropy ecosystem.

We are implementing a ranking system for AI and Tech social responsibility. This ranking system will consider whether AI and Tech companies are implementing or donating their resources to philanthropy entities and projects.

The project will produce a number of philanthropy industry benchmarking and rankings that provide insight on which entities are doing the best in terms of on-boarding AI technologies already, and which ones have the most obligation to begin making proactive efforts towards this goal due to the overwhelming size of the beneficiaries they serve.

We believe that this ranking system will help to promote greater social responsibility among AI and Tech companies, and encourage them to invest in philanthropy initiatives that can have a meaningful impact on communities around the world.

Building on our commitment to philanthropy, we are also pleased to announce the establishment of the Deep Knowledge Philanthropy committee for beneficial AI for developing countries with a flagship focus on African communities. This committee will be tasked with identifying opportunities for AI and Tech companies to support philanthropy initiatives that can benefit African communities, and will work closely with our partners in the region to develop innovative solutions and projects.

Conclusions

In conclusion, Deep Knowledge Philanthropy affirms:

- **AI is a meta-technology that possesses unprecedented potential to accelerate progress and neutralise gaps and inefficiencies in other industries focused on providing social good for humanity.**
- Technology and AI-enabled philanthropy, or Techno-Philanthropy, can create an ecosystem that is more efficient, accountable, and transparent, enabling philanthropic organisations to achieve measurable social outcomes and make a tangible impact on the lives of people around the world.
- Our recommendation to philanthropic organisations is to embrace the concept of techno-philanthropy as a modern approach which serves as integral components of their work. By investing in the right technologies, organisations can gain insights into the most pressing social issues and drive effective solutions that create measurable impact.
- To lead by example and showcase the concept of Techno-Philanthropy, we have demonstrated our relentless commitment to this vision with the deployment of our very own Philanthropy.International platform.
- Maximising the potential of philanthropy's ability for social good and humanitarian impact can only be made possible through the use of technology and AI
- AI-enabled global philanthropy is humankind's last hope for tangible social impact.

With the right tools, philanthropic organisations can leverage technology to create a more equitable and sustainable future for all.

We at Deep Knowledge Philanthropy etc are committed to providing those tools. With Philanthropy.International, we are committed to driving this transformation, and we invite all philanthropic organisations to join us in this mission to make the world a better place.

About Philanthropy.International

Philanthropy.International is a next-generation platform built by Deep Knowledge Philanthropy, a subsidiary of Deep Knowledge Group, driven by the vision of deploying frontier technologies to efficiently maximise social impact and create social good. We have a core belief that technology is an effective tool to drive social change and impact, herein lies the core mandate of Philanthropy International - to deploy frontier technologies (Big Data Analytics, Artificial Intelligence, Blockchain) to tackle the vastly different social challenges in global philanthropy to build a more equitable world.

Philanthropy.International was created following the culmination of decades of acquired expertise of the Deep Knowledge Group in building advanced data analytics ecosystems, predictive forecasting and Machine Learning to create a more precise tool that will improve the growth of the global philanthropy industry by 10-50x.

About Deep Knowledge Philanthropy

Deep Knowledge Philanthropy is a data-driven non-profit project by Deep Knowledge Group committed to the support, development and advancement of DeepTech for social good, impact philanthropy and ethical investment, founded on the belief that DeepTech innovation is the most efficient driver of 'social profit', technological humanitarianism, and societal development, and that venture philanthropy is the profitable long-term investment for individuals, national economies, and humanity itself.

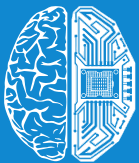
The organisation was founded in 2021 to house the sum of philanthropic, non-profit, and influence investment activities, projects and initiatives conducted over the past 5 years under Deep Knowledge Groups umbrella, its activities are backed by the quantitative analytics produced by Deep Knowledge Group's 10+ analytical subsidiaries, implementing the most advanced approaches to analytics, benchmarking, predictive forecasting and data-driven strategy formulation and execution in order to deliver 10x-50x the social impact and ethical ROI per dollar than the non-profit and philanthropy sector average, while using Deep Knowledge Group's extensive distributed international network for highly efficient and productive engagement with Governments, Progressive Corporations, Top-Tier Media, Industry Influencers, Investors, Policy-Makers a wide range of other high-calibre and strategically relevant personalities and organisations.

About Deep Knowledge Group

Deep Knowledge Group is a data-driven consortium of commercial and non-profit organisations active on many fronts in the realm of DeepTech and Frontier Technologies (AI, Longevity, BioTech, Pharma, FinTech, GovTech, SpaceTech, FemTech, Data Science,

InvestTech), ranging from scientific research to investment, entrepreneurship, analytics, consulting, media, philanthropy and more. As a mathematical corporation focused on building the bridge to the 5th Industrial Revolution, Deep Knowledge Group is decisively committed to DeepTech for Social Good, Techno-Philanthropy and DeepTech and Longevity Industry Financial Commoditization (establishing the core investment and financial industry infrastructure needed for the emergence of DeepTech and Longevity as fundamentally new asset classes).

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DEEP
KNOWLEDGE
GROUP

info@dkv.global



Philanthropy
International

info@philanthropy.international



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PHILANTHROPY

Info@deep-knowledge.org