

Status Overview 07/24

towards a heliogenic civilisation

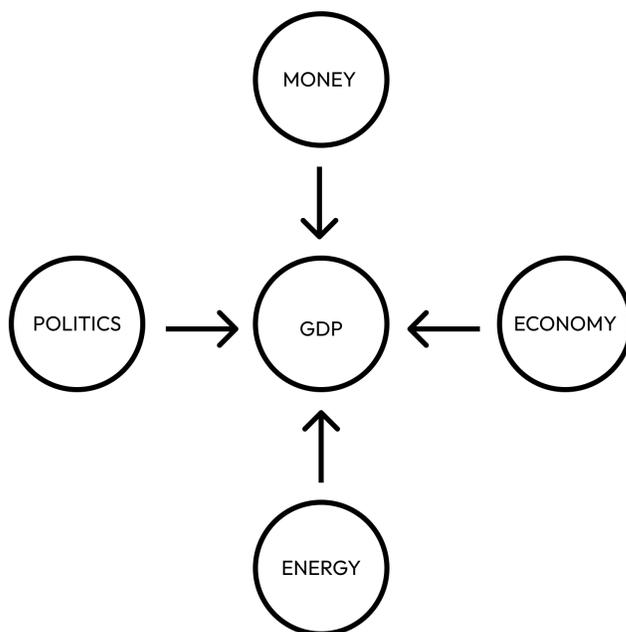
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HELIOGENESIS

<https://heliogenesis.io>

The projects in this document are part of a wider picture leading from the current operational mode of human civilization towards and into a desired one. Infrastructures of Generosity are pathways between the two.

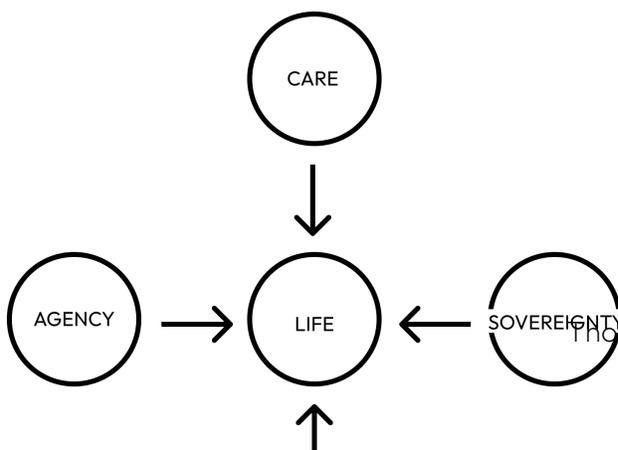
A high level assessment of the current state is described in the following image:



The current 19TW economy is fundamentally rooted in extracting materials and fossil fuels from Earth's reserves. Here, the key performance indicator for both political and economic entities is Gross Domestic Product (GDP). This system inherently drives an insatiable, exponential demand for energy and materials, a cycle driven by the direct linkage between GDP and exponential money creation. This forms a multipolar trap that recursively spirals from individual choices to international policies. Driven by game dynamics that mandate competitive, relentless resource extraction, the 19TW

civilization is essentially devouring its own life support, paving its own path to obsolescence.

While a high level assessment of the heliogenic civilization looks like this:



Heliogenesis is a pioneering concept that envisions a materials economy rooted in natural processes and powered by the 172.000 TW provided by the sun. This approach fosters both individual and collective sovereignty by aligning human activity with the

rhythms and resources of nature. As people gain greater autonomy through sustainable, solar-driven means of production, a shift occurs towards an economy of care. This transformation is marked by a deep respect for ecological balance and a commitment to nurturing life in all its forms. The essence of Heliogenesis lies in empowering communities and individuals, enabling them to take collective agency in shaping a future that is not only sustainable but also thrives on the principles of mutual care, stewardship, and respect for the natural world. In this way, Heliogenesis paves the way for a civilization where progress and prosperity are harmoniously balanced with the planet's well-being.

PROJECT MIRACLE

<https://miracle.blue>

Project Miracle is an initiative focused on revolutionizing the construction industry through the development and implementation of heliogenic technologies. The project aims to address urgent needs in sustainable construction and retrofitting solutions, particularly in areas affected by disasters. This focus is driven by the alarming predictions of global displacement due to climate change. In June 2022, the number of displaced people worldwide reached an all-time high of over 100 million. Weather-related disasters have increasingly become a major cause of these displacements, causing approximately 21 million displacements annually since 2008, according to the United Nations High Commissioner for Refugees (UNHCR). The number of weather-related disasters has nearly tripled in the past 40 years, exacerbated by climate change. The World Bank's "Groundswell – Preparing for Internal Climate Migration" report estimates that, without urgent action, over 140 million people in South Asia, sub-Saharan Africa, and Latin America could be internally displaced by 2050. Furthermore, the Institute for Economics & Peace (IEP) predicts that around 1.2 billion people could be displaced by 2050 due to natural disasters and climate change.

In its current phase, Project Miracle has partnered with Katapult to create pre-seed funds focused on heliogenic technologies and materials related to home building. The first fund, with a volume of 3-5 million, is dedicated to construction materials, while subsequent funds may focus on furniture and interior solutions for homes. These funds aim to invest in startups that align with the principles of heliogenesis, emphasizing open intellectual property and materials rooted in natural processes. The project's infrastructure, which includes a comprehensive web crawler and a large language model (LLM), helps identify and support startups fitting its investment thesis.

The concept of "Exit to Planet" is central to Project Miracle's mission. Inspired by the vision of creating a more beautiful world, as paraphrased by Charles Eisenstein, Project Miracle draws on the core understanding of HELIOGENESIS: that 96% of all life on this planet consists of the same six atoms (Carbon, Hydrogen, Oxygen, Nitrogen, Phosphorus, and Sulfur) and that the vast economy of nature has been running on the 172,000 TW of solar energy provided by the sun. This insight reveals that the entire material stack for a successful life is growable, including food, clothing, housing, and furniture. This profound realization transforms our approach to the physical economy, making it possible to envision an economy that is at least 1000 times larger than today's, while being entirely in tune with nature.

The idea of "Exit to Planet" introduces a revolutionary loss function for investors and builders. It envisions a large Sovereign Wealth Fund (or equivalent) defining a set of goals and principles, accompanied by a fund that buys out for-profit organizations to gift them into the commons. This

approach leverages the power of the market to achieve a specific, desirable outcome for the planet and its inhabitants. By creating the financial infrastructure for this modality, Project Miracle aims to make the protocols for growing any material input freely and openly available to everyone, thus transforming the materials economy in a manner similar to how the open standards of the internet and UNIX operating system transformed the digital economy.

As Project Miracle progresses, the initiative plans to establish later-stage funds to scale successful innovations from the initial phase. This strategic progression aims to expand the application and impact of heliogenic materials and technologies in the construction sector, addressing housing needs in disaster-affected areas and supporting sustainable growth.

Looking towards the future, Project Miracle envisions a transformative shift in the construction industry. The project aims to make heliogenic technologies for building homes universally accessible, allowing climate refugees and other vulnerable populations to create homes for themselves at no cost. This vision aligns with the principles of sustainability, equity, and regenerative growth, aiming to foster a more equitable and sustainable approach to housing and material use on a global scale.

IRM

<http://irm.foundation>

IRM is an initiative dedicated to redefining prosperity and wealth in Germany through transformative dialogues and sustainable practices. The project seeks to shift the societal understanding of a good life beyond traditional financial metrics, focusing instead on ecological sustainability, social cohesion, and long-term regenerative development.

The New Wohlstand campaign will launch in the fall of 2024 with a nationwide video campaign across German movie theaters, inviting the public to participate in a citizen's assembly. Following the video campaign, the citizen's assembly will engage citizens in redefining "New Wohlstand" (new prosperity) by capturing what a desirable good life means to them. The outcomes of this assembly will be developed into policy recommendations. These recommendations, along with the collective will of the people, will be compiled into a book titled the "New Wohlstand Declaration," which will then be handed over to high-ranking politicians. This marks the beginning of an ongoing bottom-up evaluation of the government's performance in achieving these newly defined prosperity goals.

Beyond engaging the public, IRM offers a product to companies aiming to transition from extractive to generative material sources. Leveraging the infrastructure used by Project Miracle, IRM generates a constant deal flow of heliogenic materials, empowering companies to adopt sustainable practices. Initial conversations are already underway with a multinational and a national company to implement these generative materials.

IRM's ambition extends to fundamentally altering the political decision-making landscape in Germany. By fostering a continuous series of discourses that evolve towards defining desirable futures, IRM aims to establish new social contracts between the population and the political sphere. This process is backed by a transparent system to measure political progress in fulfilling these contracts. Through this dynamic dialogue, IRM seeks to embed a holistic understanding of prosperity into political decision-making, ensuring that economic policies align with ecological sustainability and social well-being.

IRM also engages in research projects and publications, contributing to the academic and practical understanding of sustainable development and prosperity. Additionally, the organization hosts salons to facilitate in-depth discussions and knowledge exchange among thought leaders, policymakers, and the public.

Looking ahead, IRM envisions extending its influence globally. By exporting the methodological principles developed in Germany, IRM aims to foster long-term, bottom-up agency in political

frameworks around the world. This ambitious goal involves inspiring other nations to redefine their measures of success and prosperity, moving away from traditional finance-centric models toward more holistic, inclusive, and sustainable frameworks. IRM's ultimate vision is to see economic systems globally reoriented to prioritize ecological health, social well-being, and true prosperity in the broadest sense.

GITA

<https://gita.global>

GITA is an initiative dedicated to developing heliogenic infrastructures that align with the principles of the doughnut economy. This project brings together scientists, builders, investors, and other stakeholders to create sustainable and regenerative urban environments. Initially, GITA focuses on empowering cities to transition into operating spaces that function within planetary boundaries while providing all necessary services for citizens to thrive.

The core of GITA's mission is to act as a one-stop-shop for identifying and implementing the best regenerative solutions from a database of over 5 million existing technologies. Utilizing AI to bridge infrastructural gaps, GITA offers a curated selection of technology solutions tailored to meet the sustainability goals of urban environments. This hands-on project management approach ensures that cities receive customized support and solutions that align with their unique needs and objectives.

GITA operates as a global not-for-profit organization, forming alliances between tech companies, cities, and investors to drive the implementation of sustainable solutions. With a team of experienced professionals, GITA is committed to supporting the creation of a sustainable future for all. Examples of GITA's solutions include:

- **Carbon-Negative Roads:** Utilizing plant-based adhesives, this innovative approach transforms road construction to be carbon-negative. The use of regenerative BioBinders in full-depth reclamation processes extends the lifespan of roads, enhances their durability, and sequesters significant amounts of CO₂, making road construction both eco-friendly and cost-effective.
- **Regenerative Building Materials:** GITA promotes the use of mineral-based, cement-free concrete for construction, supporting circular economy principles. These building blocks are modular, versatile, and scalable, designed to be cost-effective while ensuring environmental resilience and adaptability.
- **Innovative Dust and Pest Control:** Using Microbiologically Induced Calcite Precipitation (MICP), GITA offers solutions for dust control and weed management that are environmentally friendly and sustainable. These methods enhance soil stability, suppress dust, and provide a non-chemical approach to weed control, aligning with GITA's commitment to ecological health.

As GITA progresses, the project plans to expand its influence beyond urban development to other infrastructure-heavy sectors such as transportation and energy. By fostering ecosystems that bring together diverse stakeholders, GITA aims to apply lessons learned from urban projects to

broader infrastructural challenges, driving innovation and investment in sustainable technologies and practices.

Looking ahead, GITA envisions a future where humanity's technology stack is based entirely on heliogenic principles, promoting regeneration over extraction. This long-term vision advocates for a 'replicate and adapt' paradigm, ensuring sustainability, adaptability, and regenerative growth across various sectors and regions. GITA aims to play a pivotal role in this transformative shift, influencing the development and implementation of technologies that ensure a sustainable and equitable future.

MOTHERLAND

<https://motherland.earth>

Motherland is an initiative focused on fostering sustainable and regenerative agricultural practices in Africa, starting with Siaya County, Kenya. Since January 2023, a dedicated team of six local individuals has been working tirelessly to bridge the gap between farmers and innovative startups and solution providers. This collaboration aims to enhance market intelligence, optimize storage and logistics, improve agricultural products, and educate farmers in regenerative practices.

The immediate goal for 2024 has been ambitious: initially, the aim was to significantly increase farmer incomes. However, the current (July 2024) harvest has revealed a strong negative effect of climate change, severely impacting the yield. In response to this urgent challenge, our definition of success has shifted from tripling farmer incomes to creating food security to combat imminent hunger in the region. Establishing a community fund from surplus earnings, generating income for local Motherland agents, and initiating training programs for other Kenyan communities remain key objectives.

By October 2024, the effectiveness of this adapted approach will become clear, determining its potential for replication. As the project progresses, Motherland intends to scale its operations across Africa, training more agents equipped with the skills and knowledge to lead their communities toward a relational economy. This phase will involve developing financing modalities that support the transition to relational economies, tailored to the unique cultural, biophysical, and economic contexts of each new community.

The long-term vision of Motherland is to facilitate a global shift toward a heliogenic civilization through the promotion of relational economies rooted in nature-based solutions and the commons. By providing adaptable models of relational economies, Motherland aims to empower rural communities worldwide to become self-sufficient and self-reliant. This ambitious goal envisions these community-led initiatives contributing to a broader transformation from an extractive to a regenerative species, fundamentally altering humanity's relationship with the natural world.

ONE VOICE

One Voice is a visionary initiative inspired by the iconic song "We Are the World." It seeks to harness the universal language of music to foster global coordination and synchronization among humans. Through a collaboration with multiple NGOs, currently four as of July 2024, One Voice reaches out to as many children as possible, currently touching the lives of 2.5 million. Together, they are creating a song, chant, or mantra that embodies the essence of "Life, Love, and Peace." This musical piece is being developed in collaboration with children in India and musical educators, capturing the voices and spirits of young generations.

An open invitation will be extended to musicians worldwide to live-stream their unique interpretations of the song for one hour at a designated time in 2025. The first probable candidate to lead this global symphony is the world's only all-female orchestra. During this hour, children of all ages will gather in streets and natural spaces around the globe, united in song.

Leveraging the combined social media influence of allies, who collectively have approximately 7 million followers across three profiles, One Voice aims to amplify its message. The goal is to inspire and mobilize 1 billion people to join in this collective musical moment on a specific day in 2025, potentially Earth Day. This shared experience of singing together will serve as a powerful symbol of unity, hope, and global harmony, resonating with the core values of life, love, and peace.

DELODI

<https://delodi.net>

None of the above would be possible without delodi. Founded by Thomas Rödiger and Thomas Schindler in 2013 in Berlin, delodi is a craftsmanship-oriented company specializing in bespoke product and software development.

In line with its commitment to positive global impact, delodi invests almost all its profits into non-profit activities, striving to make the planet a better place and ensuring a livable future for all people. This non-profit commitment reflects delodi's dedication to sustainability and social responsibility, making it a crucial player in the quest for a better world.

delodi operates under a philosophy that values the triple bottom line: profit, planet, and people. The company is guided by a bold and determined moral compass, believing in accelerated gains through technological advancements as posited by Moore's and Kurzweil's Law. delodi maintains a partnership-based approach characterized by transparent communication, collaborative goal setting, and agile development.