

Establishing The Second Task of PHPR

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Introduction

Whereas the resolution of the foreseeable catastrophic scenario, mineral depletion, is at the forefront of The First Task of the Physicalist Program [PHPR] the payoffs to its resolution are limitless. In that resolution of The First Task will yield astronomical advances in the technological and engineering sciences in the form of the interplay. Yet advances in technology: whether the milestone of PHPR [Star Gates] or the grand achievement of PHPR [Space Habitats] carries risks that inevitability pose existential risks to human survival and tranquility. Risks that entail, in the long-term, whether or not its feasible to pursue space travel or whether or not colonization of other planets [as well within our solar system] is possible.

The dangers that are pose by The First Task of PHPR, that include a terraformic fall-out or an unlikely runaway transformative reaction, due to a security breach in metaspaces or a global arms race, are existential. Though without qualifications. As no other resolution presents itself that could alleviate the harm of scarcity at a planetary scale no other avenue remains present. Even then the Phoenix Project, which aims to achieve, at the same duration, interstellar travel in the form of star ships, is a fail endeavor. The only way out is through The First Task and that includes taking advantage, at a responsible level, ITER [International Thermonuclear Experimental Reactor] as a 40-year window opportunity to achieve economic sustainability and environmental recovery in which afterwards world-wide decline becomes of little notice but in which a 60-year process is set to reach full completion of The First Task of PHPR; hence a 100 year task.

Space-Habitats

Population growth, is nevertheless, the quintessential conundrum of scarcity and conflict. As economic growth continues to increase population growth begins to explode in which at a certain point a peak is reached where consumption cannot meet rising demand. Prices, in goods and services in the market economy, whether in a state-capitalist or a command economy, increase and scarcity becomes more tantamount. The loss of bio-diversity, at a national and planetary scale, becomes more visible as well. Foreshadowing conflict between warring factions, tribes, states and nations as a flight-or-fight response between starvation and greed. Causing, in end result, a breakdown to the natural order and in the transition to a wasted planet to the extreme.

The development of space-habitats is the only measure that can address rising population growth and economic need. As human survival requires, as well, the expansion from life-on-Earth to the outer-edge of the solar system to avoid any other existential risk i.e., asteroids, epidemics, solar flares, ice-age or etc. Constructing space-habitats require enormous time at the current present but with The First Task of PPHR it would only require a fraction of a fraction of that time to construct them. Vast habitats can be constructed that within a 100 year period after The First Task colonial outposts in other moons and planets [Mars] can be abandoned in favor of space-habitats as safer measures can be implemented for permanent settlement in which more and more mineral and energy resources can be gathered within the solar system for use and in which The First Task can be used to recycle those resources for reuse.

Star Gates

Yet with the resolution of mineral depletion population growth persist and so little space is left to continue on within our own solar habitat. How to move outwards into the solar system in which star-ships cannot be the possible option requires instead the development and engineering of star-gates.

To even consider the use of star-gates requires, as well, that efforts be put in place for the study and implementation of cryogenics and technological development of human rationing and learning of the psychology of long-duration space-travel that can sustain the sanity of an astronaut in a traveling space-habitat. Whereby star-gates can be constructed and the use of worm-holes can be harness to further the development of an intergalactic transit system that shortens the time frame with near light-speed travel [for example: photonic laser thrusters or even anti-particle engines] being use to facilitate the construction of such transit system.

Within two centuries after The First Task is completed a vast intergalactic transit system will be realized in which interstellar travel becomes second nature to human civilization on planet Earth and beyond.

Extraterrestrial Encounter

To move beyond the solar system risks encroaching into the solar habitats of other intelligent and primitive beings. Life, as we know it, within our own planet, is diverse in which gene selection is the reigning Darwinian theory.

In that manner within a time-span of 2 million years' mammals have become the dominant species in which predatory behavior remains the most selective attribute for survival and the development of intelligence. Humans, by and large, remain the only species capable of intelligent language and the capacity for conscious awareness.

It's expected that the Milky Way is teeming with life but very little of that life is of intelligent life capable of advance mathematics and technology. Yet even then intelligent life is scattered within our Milky Way very much as intelligent life was scattered on Earth in the metaphor of the division between island chains and the division of continents that led to phenotypical gene diversity in the human population.

Yet small incremental differences in D.N.A. or environment in any planetary system [whether or not Earth-like] make outside solar-system colonization of planetary bodies highly unlikely. And that encroaching into their solar habitats may spark an unintended conflict. And so then, only in the rare occasion, the use of The First Task of PHPR is better suited for the development of a feasible planetary habitat and on most occasions the construction of space-habitats. Yet again minerals can be preserve but more minerals are needed.

As such the risk is pose that extraction of minerals will require utilizing asteroids, stars, and etc., for the sustainability and tranquility of human life thus posing severe risk of

inciting/starting a conflict in which there is no going back and no end until the threat of conflict is neutralized or extinguished.

Defensive Measures Through Metaspace

A more likely scenario of a conflict between an extraterrestrial being is an extraterrestrial encounter gone wrong. In which in a matter of a week the first target of destruction is the armada's and space-habitats at the outer and inner edge of the solar system. The second target is the planetary colonies and the third, and last target, is planet Earth in which a five-week window of opportunity is giving to take preventive measures with metaspace.

That five week of window of opportunity is to be use for evacuation of planet Earth through the use of star-gates and the self-destruction of planet Earth is sought-out for successful evacuation and resettlement. If no evacuation and resettlement is sought-out than an advance extraterrestrial intelligence will overwhelm all defensive measures of planet Earth and the terraformic process will be use, by such beings, for its destruction since no habitation is possible. Domination is not probable since stalemate is apparent and in which prolong stalemate becomes exhaustive to human survival against a more advance extraterrestrial intelligence in which the human capacity cannot withstand.

The Second Task

The Second Task of PHPR is establish as the resolution to an extraterrestrial conflict. In which the question is pose, giving the diversity of primitive and intelligent life in our Milky Way, how does one proceed carefully beyond Earth's solar system without becoming an existential threat to an extraterrestrial intelligence?

An extraterrestrial conflict poses overwhelming problems and risks to human tranquility, longevity and survival. Its resolution will take the efforts of biologists, chemists, physicists, and engineers to make the safe-transition to the awareness and revolution of an extraterrestrial encounter and even the initiation of peaceful First Contact in which man-kind will, in its finality, have universal conception of intelligent life-beyond Earth.

It's then that awareness must be brought that, in all likely-hood, intelligent life chooses isolation from other beings beyond their space-habitats or solar habitats and in such that choice must be respected. But one must not normalize negligence as the care of these beings are also of utmost importance that they may not pose an existential threat to human beings in the long-term and in which peaceful co-existence is preferable and internationalism becomes the model.

Conclusion: Advances in the Biological Sciences and in Medicine

The resolution to an extraterrestrial conflict will yield a paradigm shift in the field of the biological sciences and in the evolution of medicine. Whereby human health is preserved and human survival is extended. Thereby foreshadowing the choice to pursue biological immortality through integration of machine technology to human biology in the formality of cybernetics and advance artificial intelligence.