GEPSD
Economic Consulting Inc.

Space Development Financing

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Space Development Financing & Funding

Our global economy may need a significant economic activity to compensate for sustainable transition initiatives that may reduce economic activities in certain sectors. The benefit of the space development sector is the unparalleled opportunity for growth. Since adequate funding of space research and development is uncertain in the current economic climate we need to look at innovative ways to finance the next phase of human economic expansion.

The GEPSD space development funding proposal is an innovative modern day "Marshall Plan" financing/funding initiative that complements national government funding initiatives. But, it also provides consistent funding over an unprecedented long period of time.

Organization or Group	Benefit
National Governments	Economic stimulation without increasing national debt. Directing the national allocation of the global $250 Billion Annual (USD) Space Development fund. Employment income and corporate revenues from the Space Development funding will generate additional tax revenues.
Aerospace & Defence Industries	Additional space development opportunities, projects and revenues
National Space Agencies	Additional significant long term funding for programs
Universities	Additional significant long term research funding and projects. Employment path for students.
World Bank or assigned Financial Institution(s)	Administering a portion of the $250 Billion USD Annual in Space Development funding via an implemented GEPSD Space Develoment initiative.
General Population	Gainful employment opportunities

Basis of the GEPSD Space Development Funding
A modern day "Marshall Plan"

Due to the complexity and scope of developing a means of human space transportation, initially within our solar system, and eventually from solar system to solar system, we need to come up with an unprecedented means of large scale financing and funding. In order to come up with a viable method of financing, we need to consider both historical and current large scale financing or funding events.

Premise for the GEPSD Space Development Financing/Funding

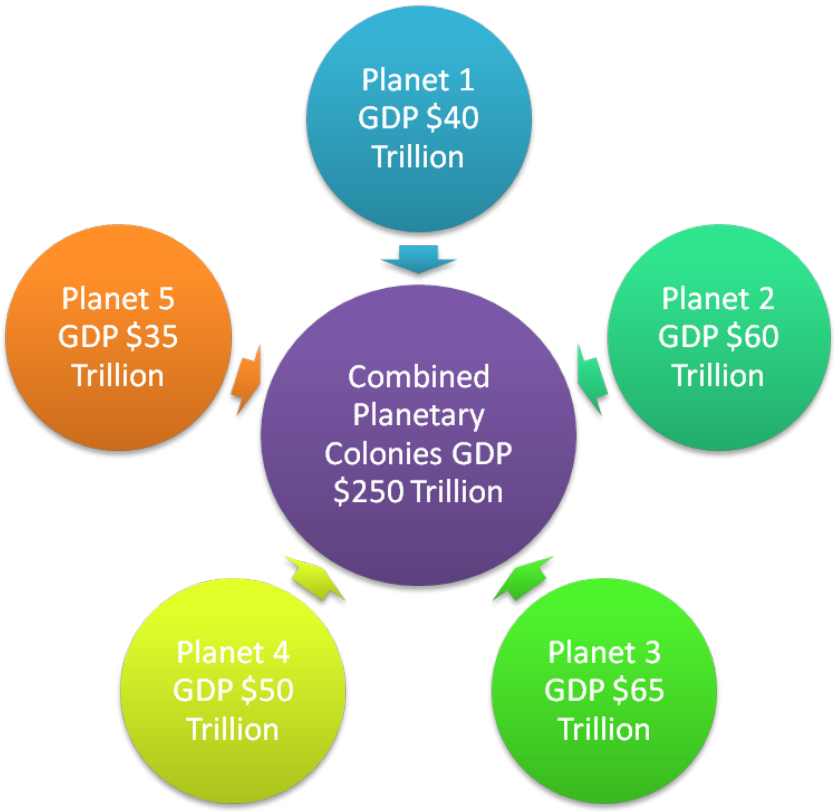
The Marshall Plan financing provided by the USA ($13.3 billion starting in 1948; the funding took place over 4 years), in co-ordination with European financing, and implemented for the economic recovery of Europe post WWII. This financing provided the material and financial stimulus that resulted in a swift recovery of the European economy. Without this timely funding and support the European recovery would most certainly have been significantly slower.

From a more historical perspective, in the European colonization of earth there were 4 continents colonized (North America, South America, Australia, and Africa). The initial investments by the rulers and commercial enterprises took a long time to bring returns. Eventually as it turns out the commercial and financial returns and trade developments were immense. Unfortunately, in many cases, the colonization's had negative consequences to the resident nations. It would not be unrealistic to predict in the remote future there could be at least 5 to10 future planetary colonies.

The World Bank administers funding for large scale international projects. The Bank offers nations financial assistance for infrastructure development, or, offers its expertise in order to improve business practices. The World Bank could be a possible candidate to administer the GEPSD Space Development proposed funding, should the proposal be implemented.

It is not hard to extrapolate from these examples to create a modern financing/funding model based on future planetary colony GDP's. GEPSD Economic Consulting Inc. has a model developed (as well as options to the model) and would be willing to work with the G20 member community and financial institutions in the complete development of a new financial initiative to provide long term funding for space development.

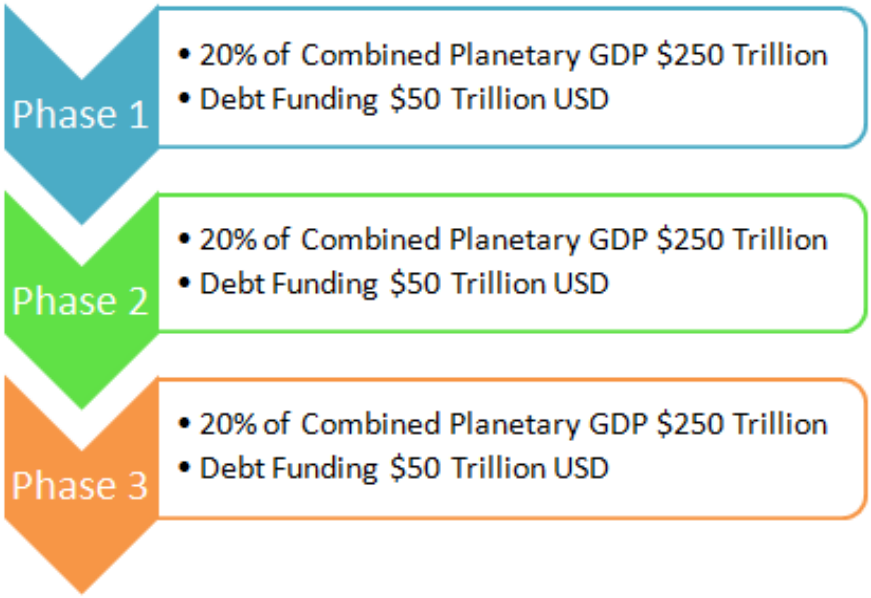
Future estimated GDP value of the Planetary Colonies



GEPSD Space Development Funding, Phases I to III

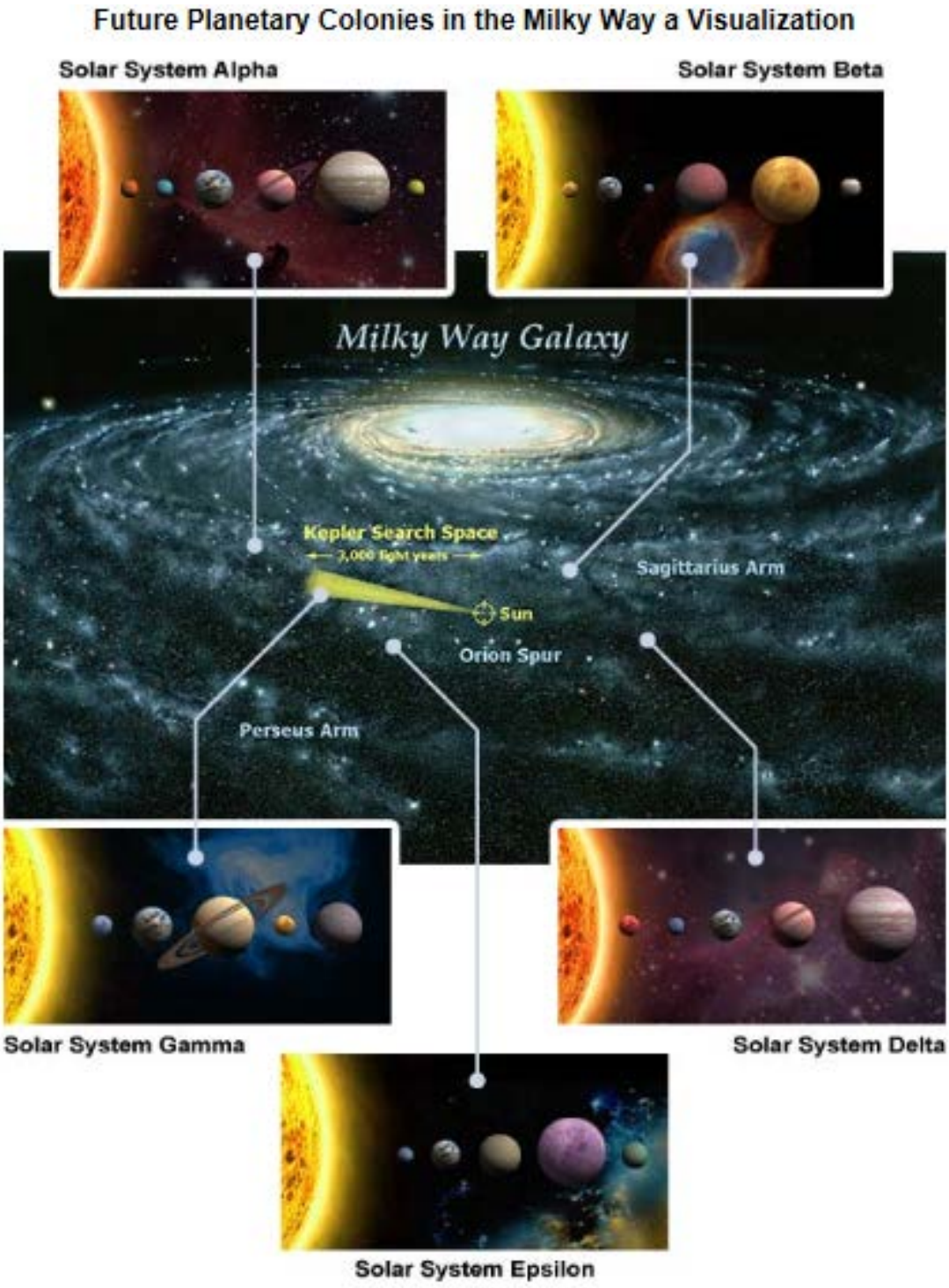
Assumption1: The average GDP for each future planetary colony will be approximately $50 Trillion USD
Assumption2: The Debt funding for each phase will be 20% of the Combined Planets GDP
Assumption3: The term of each phase of funding is to be determined by the G20 or G30 economic community. Most likely a period of around 200 years may be selected.

GEPSD Space Development Funding, Phases I to III



Within these three phases will be the stages of space infrastructure development:

I Development of space travel capabilities within the earth's solar system
II Development of mining and industry production in our solar system to contribute to space infrastructure requirements
III R&D for solar system to solar system transportation capabilities
IV Once solar system to solar system transportation is achieved. Mining and industry production in the new solar systems to contribute to space infrastructure requirements as well as to terra form the new planetary colony as needed.



Picture of the Milky Way Galaxy with the Kepler Search area highlighted in yellow:
Credit: Jon Lomberg" Portrait of the Milky Way by Jon Lomberg Copyright

Add on Solar Systems Visualization:
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(By Caton Designs)

According to the NASA Kepler Mission Site

"Target Region in Milky Way" : "Our Sun is just one out of over 200 billion stars in our galaxy, the Milky Way. The Sun is located in the Orion arm of our galaxy about 25,000 light years from the center of the Galaxy. Kepler will be examining over 100,000 stars in our neighborhood of our galaxy in the Cygnus and Lyra constellations. Most of these stars will be somewhere between 500 and 3,000 light years from our solar system.
http://kepler.nasa.gov/multimedia/Images/graphics/mediatelecongraphics/?ImageID=27
Credit: Jon Lomberg" Portrait of the Milky Way by Jon Lomberg Copyright www.jonlomberg.com

Proposed GEPSD Space Development Funding Process Flow