

SYMPOSIUM ON STEPPING STONES TO THE FUTURE: STRATEGIES, ARCHITECTURES,
CONCEPTS AND TECHNOLOGIES (D3)

Strategies and Architectures to Establish a “Stepping Stone” Approach to our Future in Space (1)

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SPACE RENAISSANCE - A PLAN FOR MOON/EARTH/LAGRANGE REGION
INDUSTRIALIZATION

Abstract

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With a population of almost 7 billion people, our growth on planet Earth is rapidly becoming unsustainable. Problems stem from a shortage of raw materials and a lack of inexpensive and accessible energy. This dearth of resources, resulting into continuous global economic recessions, could cause our civilization to implode. According to Professor Lovelock, the world's population might then decrease to a mere 1 billion or less. This implosion could result in humanity's regression to pre-technological ages.

The only solution to assure continuing growth of our civilization is to open the high frontier, and start surveying the resources of the solar system. Space contains huge unexploited resources on the Moon and asteroids, and can provide abundant solar power. Establishing a foothold off-Earth would also protect humanity from planet-wide catastrophes.

This new space-faring civilization would experiment a true Space Renaissance, and catapult us toward boundless economic and cultural growth.

This paper proposes a simple agenda to ignite the Space Economy Revolution: to develop low-cost civilian space transportation, sub-orbital and orbital space tourism, Moon industrialization, and the use of near-Earth asteroids to build space infrastructures. These include orbital stations, industrial settlements and hotels, and hubs for space-based solar power.

The paper also proposes policies to be adopted by governments in order to help the development of the civilian astronautic industry. These policies also extend to private organisations and individuals, space agencies, and financial institutions.

A world wide plan is also proposed, to encourage a broad collaboration on space projects among different countries, and to build Space Renaissance Schools and Academies, to involve, more and more, the youth generations to take part in the greatest endeavour humanity ever faced: the build of a new, post-Copernican, open world philosophy.

We are willing to present this paper at the “D3.1. Strategies and Architectures to establish a Stepping Stone Approach To Our Future In Space” symposium. The paper is new and never presented before.