

Agenda 2030 : Volodia Ring - a 1,000 people Space-4-All artificial planet to help Mother Earth

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Abstract

Planet Earth is in great difficulty to meet the 17 Sustainable Development Goals for the United Nations Agenda 2030. Since the year 2023, under the leadership of Space Renaissance International, the National Space Society and nearly one hundred world space organisations, it appeared that the introduction of an 18th SDG of Space-4-All to develop large space settlements in the Earth-Moon system may help to achieve successfully the Agenda 2030 of the United Nations. Reunion Island Space Initiative, a partner of SRI and NSS, is developing a « VOLODIA RING » space habitat concept of the Stanford Torus type for one thousand persons, that appears to be feasible by the year 2030 if politicians and industry leaders worldwide follow the « Apollo-Soyuz » spirit implemented in 1975 during the cold war period by Vladimir « Volodia » Syromiatnikov. If the aerospace industries in the whole world, instead of mostly manufacturing destructive war equipment, would cooperate to build the tools for a livable, peaceful and profitable future, in the present context of the digital environment, with internet global connectivity and artificial intelligence, a first Volodia Ring may be fully completed and operational by the year 2030. With the contribution of many co-authors from Reunion Island, a one million people exceptional singularity on Planet Earth, and with the participation of contributors from the whole world, the « Volodia Ring » project will propose a roadmap, and explore the various technical, sociological and organizational aspects of this evolutionary public-private non-conventional perspective.

Keywords : Artificial Planets – Sustainable Development Goals –
Agenda 2030 – United Nations – Reunion Island - Apollo-Soyuz

1. Introduction

Planet Earth is today in great difficulty to meet the 17 Sustainable Development Goals for the United Nations Agenda 2030. Since the year 2023, under the leadership of the SRI Space Renaissance International, the NSS National Space Society and now one hundred world space organisations, it appears clearly that the introduction of an 18th SDG of Space-for-All to develop large space settlements in the Earth-Moon system may help to achieve successfully the Agenda 2030 of the United Nations. The Volodia Ring is an initial practical project for an experimental micro-planet for the year 2030.

2. The Volodia Ring concept

A Stanford Torus type for 1000 persons :



Overall diameter is to be 2 km with a small diameter of the tube of about 150 m, to be built at an Earth-Moon Lagrange Point L-4 or L-5.

3. Compare with compact large habitats

The Volodia Ring may be compared to well known current realisations that can host and support the life of several thousands of persons,



like the large cruise ships that travel the oceans,



or military aircraft carriers with very complex and sophisticated equipment on board. Many industrial organisations have the capability and do these high level things in today's world.

4. Defence Industries

War oriented defence industries of the military industrial complexes are the most capable to build space settlements, but while some of them are already engaged in space activities, their main production remains overall the fabrication of weapons to wage wars and destruction. At this point we have to reconsider the meaning of the basic concept of what is « defence » :

Defence is today about

GLOBAL SURVIVAL

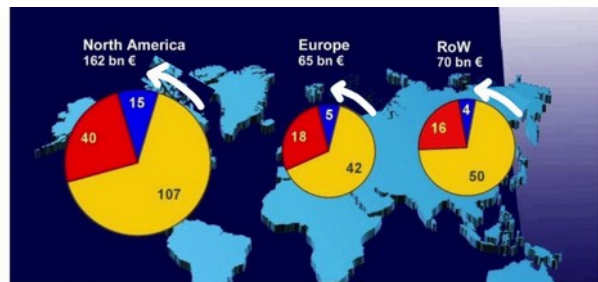
and no longer about fighting neighbours !

World business that make war armament

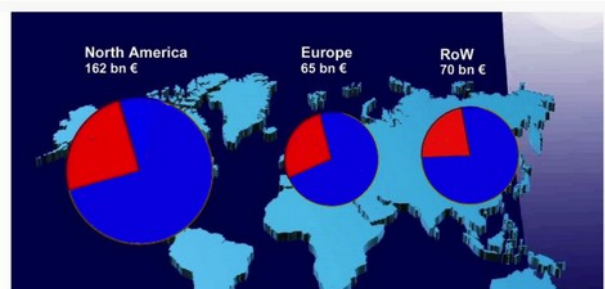
can join together for CONSTRUCTION !

5. Stop wars and make Peace

Most of the air and space budgets in today's world are war oriented. In the following diagrams, the red color is civilian aircraft, blue is for space and yellow is for military and war.



SPACE <<< is better than WARS!!



If the military industrial organisations in our world, whether governmental or private, would change their orientations and their minds to use their facilities and develop building our future world in the Solar System for the benefit of our Mother Earth rather than wasting their potential on war and destruction, that would be positive.

The budgets for making Volodia Ring are at similar levels or less than what is considered in some of the current armed conflicts, but using them for space development would give a great relief appreciated by most of the populations in our world while **SAVING EMPLOYMENT.**

Like we have « NEW SPACE »

we need « NEW DEFENCE »

Defence **BUSINESS** organizations can rapidly build a VOLODIA RING and make further SPACE settlements to support our MOTHER EARTH to be

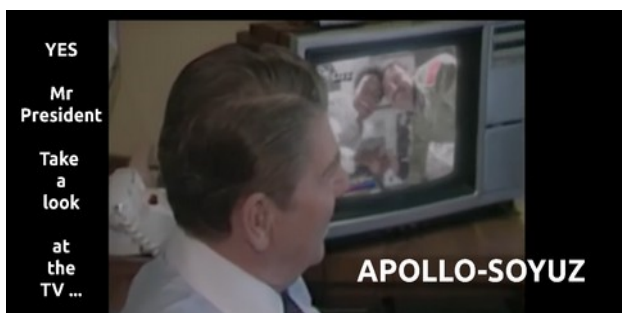
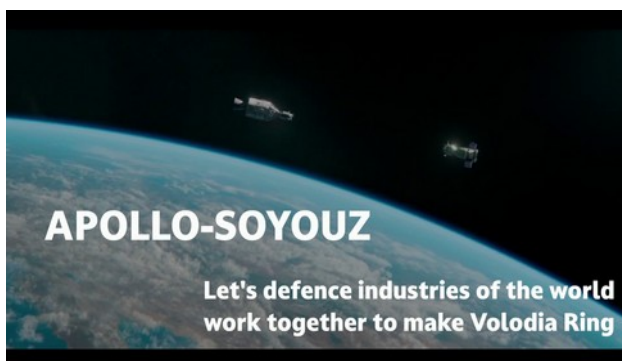
SUSTAINABLE

PEACEFUL

PROFITABLE

6. The Apollo-Soyuz model

In 1975, « Volodia » Syromiatnikov of Soviet Union's Russia and some peaceful American friends went over the cold war to organize together the Apollo-Soyuz Test Program.



In their recent world serie « For All Mankind », Apple TV+ channels revisited the Apollo-Soyuz dramatic episode when politically opposed systems did a successful handshake in space that stopped a war just about to flare up.

**Apple TV is fiction
but
« New Defence » Industries
can make it true !**

7. An 18th SDG for 2030 – Yes we can !

In 1961, President JFK of the USA said they would « Go to the Moon within the decade ! » They made it without today's tools . . . :

- * **World Communication networks**
- * **Digital and Big Data Power**
- * **Artificial Intelligence**

One hundred world space organisations with the NSS National Space Society and SRI Space Renaissance International say now that with a United Nations 18th SDG, we can have a first VOLODIA RING operating at the end of THIS decade – Yes we can !

8. Authors

For more than one year, a number of persons have contributed to the preparation of the Volodia Ring Presentations, bringing challenging ideas and questions.

Guy PIGNOLET, lead author, a senior engineer with a long professional carrier as an oil field engineer around the world, then a high school science teacher and eventually a space educator with the French space agency CNES and with the IAF, he continues experimental activities in order to develop space cultural and economic fields in his home island of Reunion.

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Kaloune PROFIL, also from Reunion Island, is a well-known inspired and innovative talented artist, often refered to as the « Black Fairy ». Besides her activities as a songwriter and performer, she is interested in the current evolution of society and Mankind in general.
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René LEMAYEN is a visionary famous architect living in the South of Reunion. At one point, he solved the centuries old problem of « squaring the circle » with a ruler and a compass. Contact : lem.ren@hotmail.fr

Willy LAMEYER, one of the co-founders of « Reunion Island Space Initiative » is a brilliant high-school teacher in Reunion, with a major interest in experimental space activities. He has participated to numerous space congresses, especially in Europe and in Japan.
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