

# WHITE PAGE

Thanks to



Title :

## SPACE DEBRIS MENACE



**GLYCAN SPACE XR- HELIOTORR Corp LLC Pasadena CA**

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**AMERICAN INSTITUTE FOR QUANTUM SCIENCES AND PLASMA TECHNOLOGIES** Non Profit

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THE DANGER (Collisions among satellites) or collisions with small space objects(asteroids or part of satellites) SEEMS TO BE IMMINENT REGARDING THE EXISTING POPULATION OF SATELLITES AND WITH INCREASING OF SATELLITES PROGRAMS

It's trivial to indicate that the dangers and consequences are fully understood by the community as well as :

big data compromised

Part of International existing satellites destroyed

National Security Agencies and Institutions - DoD- NSA-EPA compromised

Important EM disturbances and communications unsecured- **ISS**

Space missions postponed for months or years

Financial losses (X) Tr US\$ and therefore catastrophes for the investors(private or Institutional)

PLAN A and B will be :

**TO CLEAN BEFORE-and DEPLOY THE INDUSTRIES AFTER**

**GLYCAN SPACE XR-HELIOTORR**

**Presents :**

CREATION OF TASK FORCE COMMITTEE under American guidance and with the help of ESA and other Agencies , in order to prevent ,treat ,remediate Space Debris and better prepare future Space activities (Solar System) and help International and National Security USA.

## SOLUTIONS

### SPACE DEBRIS REMEDIATION (SDR) ACTIVE DEBRIS REMOVAL (ADR)

Extraterrestrial BUSINESSES PLANS IN ORDER TO CAPTURE AND Transport RAW MATERIALS(satellites and debris ) from NEO-LEO-GEO-GTO- LOCALIZATION AND BACK TO EARTH is out of our ACTUAL or FUTURE capabilities FOR THIS SPECIFIC PROBLEM(**comment**) or HAVE anti -g motors ! , is considered as a serious source of risks (deorbit and reentry UNCERTAINTIES MAINLY for LARGE OBJECTS) and DESTRUCTION OR FAILURE OF ROBOTS (if the rescue of satellite was completely robotized).

In addition the danger created FOR THE ENTIRE MISSION INCLUDED EARTH CONTAMINATION

THE REFINING OF VALUABLE RESOURCES MUST BE INSTALLED **NEAR** THE DEBRIS DISSEMINATED CLOUDS (HELIOTORR-PERT TERMINATORR TH3 STATION(TERMINATORR) POWERED BY PLASMA MOTORS VASIMR AD ASTRA USA, or others ) THE RESOURCES WILL BE STOCKED AS CONCENTRATED METALS(PERT Engineering) AND BACK TO MOON and Orbital or to MARS BUT IN SECURED CONDITIONS-SPACE DEBRIS ARE CONSIDERED AS RAW MATERIALS FOR FUTURE E.T ACTIVITIES.

One spinoff of the PERT TERMINATORR technology will be applied for Mining and Refining, ASTEROIDS-MOON-Moons-PLANETS.

[PERT :PLASMAS FOR EXTRATERRESTRIAL RESOURCES AND APPLIED TECHNOLOGIES\( 1981 \) report addressed to NASA JPL.](#)



Between 2016 and 2026 it will be necessary to have financial efforts of approx 20BN\$  
 Spread over 10 years in order to realize several missions included the present project.

**Part of the technology**

- Accretion spheres recovery for atomic species
- Mass – e/m –
- Electrostatic
- Electromagnetic (para magnetic and diamagnetic selections )
- Magnetic
- Resonance ions
- MHD-MGD
- ionic dense propulsion

## OUR UNIQUE ENGINEERING AND MANUFACTURING POINTS

**PERT Engineering PROMINENT part of HELIOTORR STATION (Plasma for Extraterrestrial Resources and applied technologies). PATENTS 2006 CH-WIPO- and Patent US -2016-62385858 and PCT phase 2017- Luxembourg 2018.**

**Christian Daniel ASSOUN- Expertise PhD Physics- Atomic spectroscopy 1979**

**Former ADVISOR NASA-JPL 1981-1982 – PERT REPORT has been USED IN THE JPL NASA report**

**Director Wolfgang H STEURER-1981-82-83-86 Extraterrestrial Materials processing-**

**The plasma technologies( introduced by PERT report )seems to be the most promising technology to be applied TO SPACE DEBRIS REMEDIATION and /or planets for mining and refining**

**THE PLASMA TECHNOLOGY ALREADY EXIST AND SEVERAL LABORATORIES ARE WORKING AT INTERNATIONAL LEVEL FOR SPECIALIZED domains for EARTH application ONLY - GLYCAN has developed the technology in order to create SPECIFIC TOOLS for Extraterrestrial Applications for deep space and planets.**

**More than theoretical field the plasmas TECHNOLOGIES are mostly utilized with “scientific and technologic “know-how” collateral from patents and spinoffs of these patents. THE PERT REPORT has set up several bases for ENERGY-MHD-MGD Magnetochemistry-SOLAR-AND NUCLEAR RESOURCES SECURED IN DEEP SPACE.**

**the GOAL OF Glycan Space XR HELIOTORR is to MANUFACTURE in USA (California or FLORIDA, KSC) SERIALS OF HELIOTORR PERT STATION and install its subsidiary company- IN ORDER TO LAUNCHED AND ASSEMBLED IN SPACE with help of National or Private Launchers.**

**THE PROOF OF CONCEPT (POC) WILL BE LAUNCH AT LEO 500 km and at GEO 36'000 km ? position with 130 kg payload experiment reduced scale 1/30em-**

**Our strategy WITH HELIOTORR PERT POC (proof of concept) is to verify at LEO 500 km and GEO 36'000 km the capabilities of this plasma technology will be checked AT SIMULATION LAB ON EARTH ! with “DEBRIS” GEO-CHEMISTRY SIMILAR FORMULAS CONTENTS / NASA JPL/ EXPERTISE IN THIS ALLOYS CHEMISTRY FIELD**

**- we estimate at several hundred MUS\$ ECONOMY OF FUNDS AND WE WILL SAVE AT MINIMUM 5 YEARS OF TIME IN THE PROJECT AND IMMEDIATE INVESTMENT IN PLASMA MHD MOTORS (60 MUS\$) IN ORDER TO PROPULSE THE FIRST HELIOTORR PERT STATION WITH THE HELP OF ADASTRA ROCKET COMPANY USA(we will purchase the VASIMR motors) or others if available .**

**JOIN US.**