

**PDC2025**  
**Stellenbosch, Cape Town, South Africa**

- Ongoing and Upcoming Mission Highlights
- Apophis: T-4 Years
- Hypothetical Asteroid Threat Exercise
- Key International and Policy Developments
- Near-Earth Object (NEO) Discovery
- NEO Characterization
- Deflection / Disruption Modeling & Testing
- Space Mission & Campaign Design (SELECTED THEME)
- Earth Impact Effects & Consequences
- Disaster Management & Impact Response
- Public Education and Communication
- The Decision to Act: Political, Legal, Social, and Economic Aspects

**Establishment of International Asteroids Processing Space Station For Economic Feasible Space Mining For Extraction of Minerals and Rare Earth Metals And Minerals From Asteroids And Near Earth Objects For Green And Sustainable Energy With Early Achievement of “Net Zero” by 2075; By Application of An Instrumental Scientific Nonagon Model.**

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**Keywords:** “Identification of Exploration of Rare Earth Elements”, “Green Energy”, “Sustainable Energy”, “NET Zero”

#### ABSTRACT

This proposed Research article focuses on planning a map for “Economically Feasible” merged method for swift growth in sector of “Asteroid Mining” for metal and mineral’s mining from Outer Space. The most focused point is “Identification of Exploration of Rare Earth” metals and minerals to be identified and processed.

Scientific Rationale of this Proposed Concept is conception of Air flying helicopter design about 400 years ago from Leonardo Di Vinchi, present form of mobile Communication conceived from Nikola Tesla less than 100 years ago, and successful operation of reusable launch vehicle rockets by Tesla. Exercising the motivation to “Conceptualize Out of the Box” thought process this Proposal is scientifically pitched to be developed in due course of time with huge cost curtailing in “Space Mining”.

The Scientific Proposal is a merger of nine different scientific aspects together. They are as follows:-

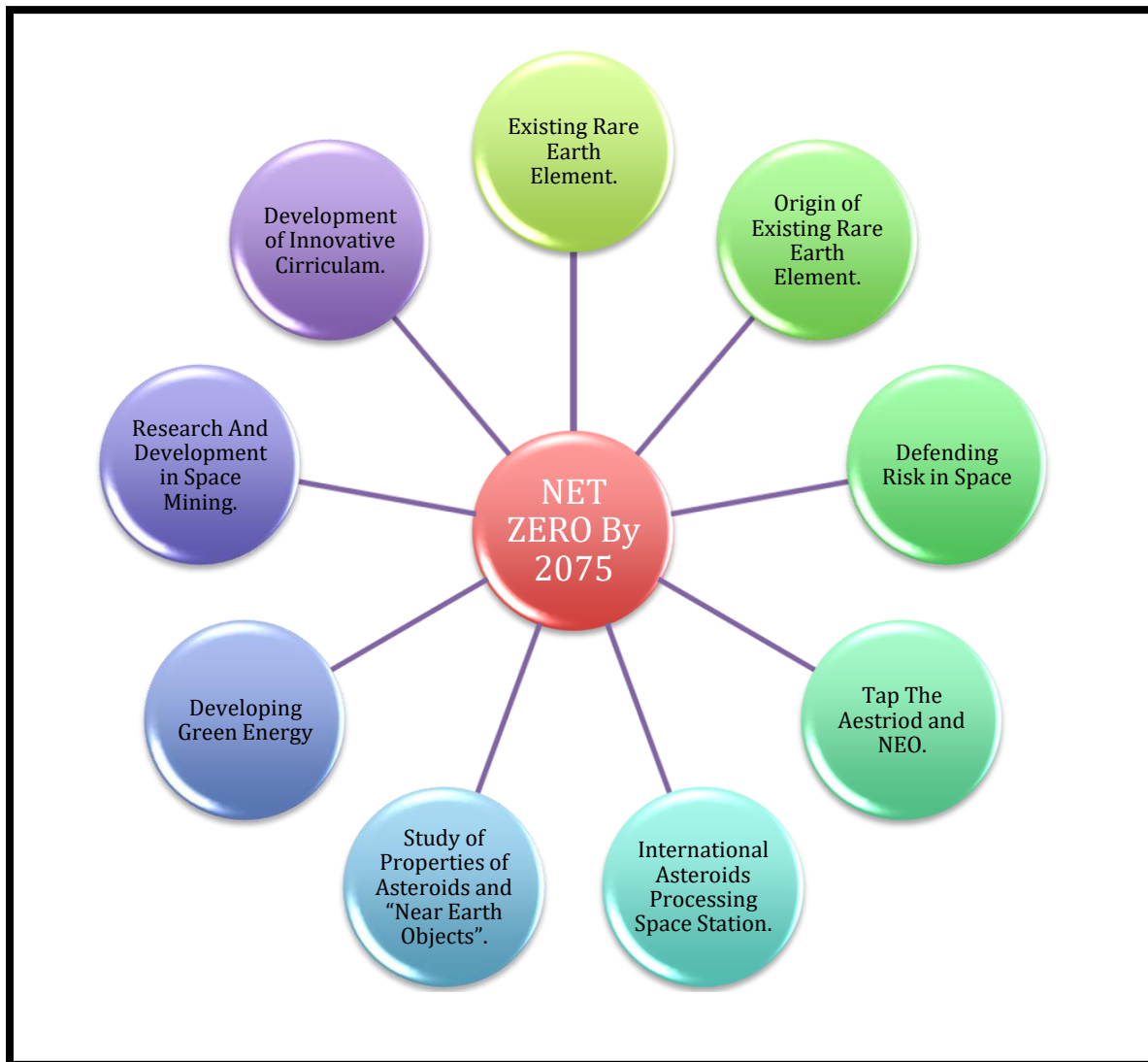
- 1) Existing Rare Earth Metals, Minerals and alloys that are not found on Planet Earth but they exist.
- 2) Origin of such Rare Earth elements in our Planet.
- 3) Defending our planet from destructive elements of falling Asteroids and Near Earth Objects.
- 4) Tap the Asteroid and other revolving "Near Earth Objects"(NEO) in space which may be immensely useful for mankind.
- 5) Proposed Infrastructure and Method for Scientific Installation of "International Asteroids Processing Space Station" with handling risk and challenges involved in operations of Space Mining.
- 6) Scientific Study of Properties of Asteroids and "Near Earth Objects" with comparing with existing "Rare Earth Elements" on Earth and process as per requirements.
- 7) Exploring the Energy Sector for developing "Green Energy" and "Sustainable Energy" for Planet Earth.
- 8) Assimilation of Available resources and speedy development of "Research And Development" of Human Capital for rapid growth in Scientific Development of overall Space Mining Sector.
- 9) Development of new Curriculum related with Innovative Teaching And Research Methods to cater the Demands of content and length of the Proposed Project.

Existing Rare Earth Metal/Mineral Explored.

A real pragmatic visit has been made to one of the oldest Museum Library and the "Unique Preservative" Fossil has been covered as a real case study in form of Primary Data Collection<sup>(1)</sup>. The Proposed Concept will elaborate in details about the methods and steps which will enable to identify the elements of asteroid as well as the various sectors where the "Asteroid Mining" and its achieved products can be utilized for mankind in terms of Green Energy Generation, Food Preservation by Peaceful use of Nuclear Technology in Agricultural Sector and elements used in it<sup>(2)</sup>. Also the Rare Earth elements will be a Game Changer for early achieving of Status of "NET Zero". And also the Model of Preserving the Dangerous Radioactive Substance if any found in "Asteroid Mining" by appropriate models concealing the radiation after disposal.

The details of each of the nine mentioned scientific aspects will be explained scientifically in an elaborated mode in Full Paper Submission with all Scientific Measure and used Technologies.

## A Brief Diagrammatic Representation



### References:-

- 1) <https://www.youtube.com/watch?v=0mgkLNxovmE>
- 2) Shrivastava Abhinav Kumar, Octahedral Assorted Structure For Clubbing Of Agricultural, Environmental Restoration, Economic Growth, Technology, Ornithology, Agro Forestry, Polyculture And Sustainability - An Omnipresent Scientific Method For Achieving A Swift Step Leading To "Net Zero" By Peaceful Use Of Nuclear Technology, The V International Scientific Forum "Nuclear Science and Technologies" Monday, 7 October 2024 - Friday, 11 October 2024 Almaty, Kazakhstan, Page 308 (<https://indico.inp.kz/event/3/book-of-abstracts.pdf>)

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