The New - The epoch times -SPACERACE

new space race is beginning, and with it, the United States is aiming to push forward its development of new technologies that may soon find their way into government systems, defense programs, and consumer products.

The main challenger to this push is the Chinese Communist Party, which runs its space programs under its military, the People's Liberation Army, and is developing new forms of space-based weapons designed to disable or destroy key technologies essential to U.S. defense.

The new competition to develop economic opportunities within the Earth-Moon system, and eventually to reach Mars, could lead to innovations in farming, sustainable energy, and other sectors that the world has not yet known. This could again solidify the United States as a leader in innovation and in the global economy.

SPACE SOLAR PANELS

Solar energy will be crucial to any orbital or planet-based structure. The increased focus on solar could bring technological advancement both in space and on Earth.



CIVILIAN SATELLITES

Civilian satellites are used for civilian products such as communications services and television broadcasts.

NUCLEAR WEAPONS

Nuclear weapons could be placed in space so that attacks would be difficult to intercept or counter.

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LASERS

These multiuse weapons can be used to blind or disable satellites.

ELECTROMAGNETIC PULSE

Detonating nuclear weapons in high orbit could generate an electromagnetic pulse to destroy electronics in a targeted country.

COUNTERMEASURES

CHINA'S MILITARY

mine the Moon.

MINING

on Earth.

Operations to mine the Moon or

revolutionize mining industries

asteroids would require the

development of new

technologies that could

The space programs of the

Chinese Communist Party are

operated under its military, the

People's Liberation Army. China

is currently developing space

weapons and anti-satellite

weapons, and is planning to

Space-based sensors and interceptors capable of tracking and destroying missiles will be important for defense.

FUSION ENERGY

MOON

Many countries are looking to fusion as a clean and more advanced alternative energy source. Helium-3, which is scarce on Earth, could be mined on the Moon to fuel fusion power plants, creating a major industry.

ASTEROIDS

Many countries and private companies are researching ways to capture asteroids and bring them into planetary orbit, in order to mine them for valuable resources.

PRIVATE SPACE INDUSTRY

Many private companies are developing technology for space programs, which include shuttling services, luxury services, mining operations, and other services or programs.

MILITARY SPACE OPERATIONS

The U.S. military will need to develop technologies and methods for fighting wars in harsh interplanetary environments.

SPACE FORCE

Self-Sustaining •

The continuation of a

require the development

of self-sustaining living

environments that could

Mars mission would

support human life

indefinitely.

Environments

Facing growing security threats, the United States may soon have a dedicated military branch to defend U.S. interests in outer space.

CONSUMER TECHNOLOGY

The push to develop new

technologies will likely have a

new consumer technologies and

revolution" of the 1950s and '60s.

trickle-down effect that will create

products, as was seen in the "silicon"

 TECHNOLOGICAL WARFARE President Donald Trump could secure the United States as a leader in innovation with his new space policy, as researchers develop new technologies for an outerspace economy and space military operations, as well as a mission to Mars. This is part of technological warfare, which is a push by nations to achieve dominance in technological development, especially in military technology. The goal of the top nation is to stay decades ahead of its adversaries in terms of military capability. As military technology advances, the older technologies can then be released to the consumer and economic markets.

SPACE WEAPONS

New vehicle weapons, emplacements, and small arms for use in space will need to be developed—as well as those with the capability to function on Mars, and beyond.



The Moon is believed to have a reactors.

• WATER ON MARS

NASA has discovered liquid and frozen water on Mars, which could make long-term settlements and operations more viable.

Farming

HELIUM-3

greater reserve of helium-3 than found on Earth. China has proposed mining the element for future use in fusion energy

> A mission to Mars would require a renewable source of food, so the United States will need to develop new farming methods for surviving in environments where growing crops currently is not possible.