

Human access to space will become essential and highly demanded in the future. Right after COVID, I remember the semiconductor industry enjoying its prosperity from a very high demand from the public. People waited years to receive its new cars or any other products that used semiconductor chips. The space industry will be the next industry feeling the high demand. Our society will want to find a solution to Global Warming and always new economical and technological opportunities, and efforts for human access to Space like those by Blue Origin will be the key to the solution and opportunities.

Access to Space will provide the solution for Global Warming. Despite many people's efforts to remedy Global Warming, I am pessimistic about their effectiveness. The cars we commute in, the food we eat, and the clothes we wear are all producers of greenhouse gases. However, people, including myself, are not willing to give them up. Unless a groundbreaking technology like nuclear fusion is realized, Global Warming will continue. Therefore, an alternative solution is a new habitat beyond the Earth, where humans live and work in Space. Whether we build habitats on the Earth's orbit, the Moon or another planet, it will reduce the burden on the Earth, currently withstand the entire human byproducts. Blue Origin's vision to move factories into Space is a perfect example of lessening the burden on the Earth. Also, I see a possibility of Global Warming making the Earth uninhabitable for humans in the future, so our effort to inhabit in Space will become essential.

Furthermore, opportunities exist in Space. The minerals, oxygen, water and other useful resources are found on the Moon, Mars and asteroids, but people argue that these opportunities are filled with too many uncertainties. For example, Helium-3 that could be used for nuclear fusion is a commonly mentioned resource on the Moon. However, nuclear fusion technology has not been realized yet, and there is no guarantee that it will. Also, we do not fully know all the dangers in Space and how to efficiently harness the resources. These uncertainties, though, should not hinder our efforts to access Space. In the 15th and 16th century, the Europeans ventured across the Pacific Ocean from a conjecture that there might be faster trading routes to Asia. There were no certainties to their exploration, but they found something greater than what they had imagined: the Americas. European countries reaped the unexpected resources in the new land and benefited economically from them. We are in a similar situation. Space is the Americas that has not been explored and stores new resources that we haven't found. Histories repeat and they will repeat in Space.

Resources in Space are not just limited to what we know currently. Most valuable resources today like oils, iron, and coal existed on the Earth for millions of years, and primitive humans must have ran into them not knowing what they were. They were not important resources to them. It was not until relatively in recent years that humans had recognized their values and harnessed them. Such resources must be abundant throughout the universe. They will advance our technology and revolutionize our life for the better like the metals and oils have done for us today.