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### Abstract

The Beyond Earth Institute (BE) will explore what policies are needed to accelerate the development of infrastructure in space. The goal of building such infrastructure is two-fold: to promote the commercial and economic advancement of those entities investing in such ventures, and to lay the groundwork for the eventual construction of permanent human communities beyond Earth. The paper will describe the unique challenges and opportunities of building infrastructure in space, and will describe the history and current state of infrastructure in space. The paper will go on to describe novel forms of in-space infrastructure that may achieve the twin goals described above. Once those new forms of infrastructure are outlined, the paper will describe the extent to which existing infrastructure funding and deployment mechanisms are appropriate to enable the development of this new infrastructure. The paper will also describe what policies might be needed to enable and accelerate infrastructure in space. These policies may include regulation, legislation, voluntary industry norms, or international agreements.

### A short bio

Tom Marotta is a Beyond Earth Institute co-founder and an analyst in the Office of Commercial Space Transportation at the Federal Aviation Administration (FAA). There he manages a wide array of policy and outreach activities notably the FAA's launch and reentry forecast and the Commercial Space Transportation Advisory Committee. Tom was a Foreign Service Officer at the U.S. Department of State having served overseas in West Africa, Iraq, and various locations throughout Europe. He is a member of the Space Settlement Advisory Committee of the National Space Society and the co-author of the award-winning book *The High Frontier: An Easier Way*.