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20th IAA SYMPOSIUM ON BUILDING BLOCKS FOR FUTURE SPACE EXPLORATION AND DEVELOPMENT (D3)
Space Technology and System Management Practices and Tools (3)

Author: Ms. Daniela Fernanda González Chávez
Universidad Nacional Autónoma de México (UNAM), Mexico, astronautdani12@gmail.com

Mr. MIGUEL PADILLA
Mexico, mapv1717@gmail.com
Mr. Héctor Delgado
High Technology Unit (UAT) Faculty of Engineering - UNAM, Mexico,
delgadohectorsantiago@comunidad.unam.mx

CIRCULAR ECONOMY, ITS APPLICATION IN THE AEROSPACE SECTOR

Abstract

In the last decade, space missions have become much more ambitious, especially in the private sector. It is undeniably time for us to become an interplanetary and even intergalactic species, for this, it is necessary to produce high-level technology, but the truth is that this has serious effects on the environment. There are over half a million items of junk from over 50 years of space travel and satellite locations orbiting our planet right now. That is why it is urgent to adopt, even in the most remote practices, a model of production and consumption that implies sharing, renting, reusing, repairing, renewing, and recycling existing materials and products as many times as possible to create added value. For this reason, to create awareness of this problem and show a solution, an extensive analysis was made about how the circular economic model is part of and can be deployed more, in the tasks of space agencies around the world, since in the long term, it can make much more of the population interested in combating this problem, as well as more projects that take our species to other planets and galaxies more efficiently and consciously.