IAF SPACE EXPLORATION SYMPOSIUM (A3)
Interactive Presentations - IAF SPACE EXPLORATION SYMPOSIUM (IP)

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ATLAS OF A SYSTEM OF SIGNS FOR LUNAR AND UNIVERSAL CARTOGRAPHY INDICATORS (LUNAR ATLAS SIGNS & MARKERS)

Abstract

On Earth, to navigate through nature it is not enough to know how to mark the path or follow the existing trails while walking along the tree lines. You also have to know how to read the essential signs.

That is why, although a **Lunar Village** has initially been proposed at some point of interest on the Moon, the surrounding explorations will be part of the research tasks of the space-walkers. However, we are aware that the space race is not about a single country or nationality, but about an alliance of governments that also have their differences in their objectives. Just as traffic signs, or warning indicators are important in the terrestrial environment, so is the development of lunar exploration signs that must be embodied in settlement sites. Lunar tourism will be a fact, and it must begin to be regulated, and not merely circumstantially.

Since 2021 we have participated in scenarios such as the **Earth Observing Dashboard Hackathon**, with the satellite resources of NASA, ESA, and JAXA. This gives us the idea of bringing an interactive solution to the Moon as well.

Currently there is no cartographic map of the Moon with indicators and signage of possible paths, trajectories, places for the construction of transportation, caverns for settlements, warning zones, and others, but its creation will be a work of years. For this reason, it is essential to take advantage of the global events of space symposia, to create in harmony, a standard between our terrestrial civilizations, there on lunar soil.

Our proposal is the construction of **icons that represent a universal language of identification** of: Craters, slopes and gradients, type of terrain, traced path (be it a rover or a lunar monorail). This

would be the first time in history that all countries and their space institutions are taken into account to draw up a map of signs that identifies each relevant aspect to be taken into account during the stay on the moon and the tour of the lunar neighborhood. True, in conclusion, there will not be a single Lunar Village, there will be several, including the tourist sector.

Creating and familiarizing yourself with universal signage standards on extraterrestrial soil will allow for a safe and enjoyable exploration.

It's a long way to the top, if you want to go to the Moon.