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CODS-T105

Harlan's world

Equinox: PS-3 comm.system

Problem statement:

Space settlement subtopic 3:

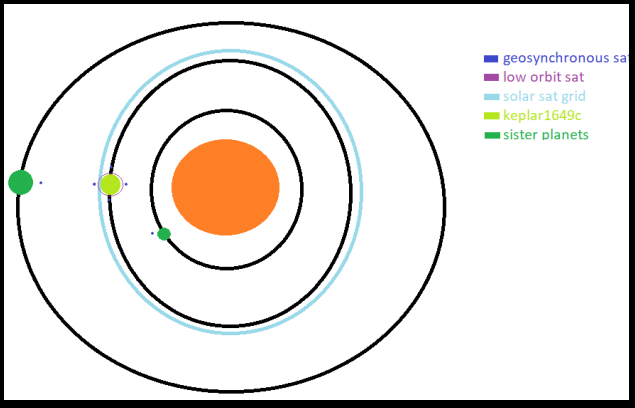
Communication Design

Ideating the communication network within the planet and a cluster of planets.

Harlan’s World

Comm.system

Project name The name Harlan’s World was chosen from the novel Altered Carbon as the protective mesh around the planet is similar to the kind of network that we intend on installing across keplar



Project Harlan’s world (HW)

Project HW is basically a grid of baloon radio systems, low earth(keplar1649c) orbit satellites and geosynchronous satellites along with a ring of satellites orbiting the sun and geosynchronous satellites of other planets in the keplar1649’s solar system.

Heading 2

As initially it will be hard harvesting resources from the new planet it will be more feasible to have the entire communication system brought to the planet through the cargo spaceships. It is also a top priority to have communications up and running as soon as possible so this method benefits us as we can have specially designed space ships to have the satellites put in place without even having to ever touch down on the planets surface. Also we will have modular units of internet hubs, databases, radio balloon kits and antennas that will be brought down to the planet.

Heading 3

Project HW after completion would have installed an internet network much more efficient that the internet present on earth. Not only will it be faster but less prone to failure and provide very high speed network access to all parts of the planet.

To summaries:

1) Very fast
2) Very reliable
3) Connectivity over the whole planet(s)

(without ever laying down a single wire over the harsh and unchartered terrain of keplar1649 system’s planets)

RESOURCES:

(58) How Does the Internet Work? - Glad You Asked S1 - YouTube

(58) Starlink explained - why SpaceX needs 42,000 satellites - YouTube