



Constellation Manager®

Enables the Management of low and high altitude SkyOrbiters



SkyOrbiter

Multi-mission, multi-payload, high-endurance aerial system

Q-SATCOM™

Satellite Communications system, with global coverage over oceans, all land masses & poles



HC-LOS®

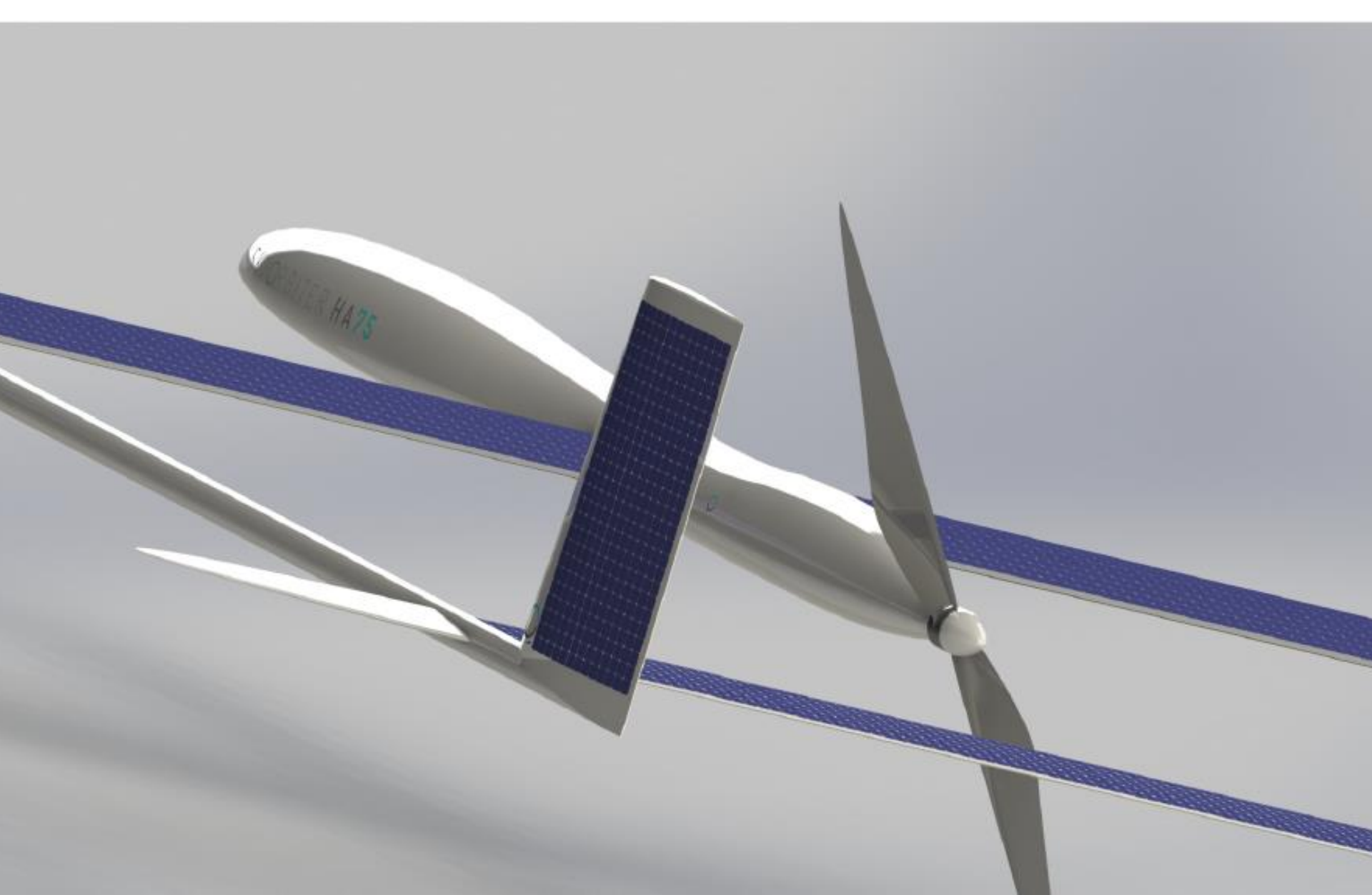
Ground-to-Ground, Ground-to-Air, Ground-to-Space Applications High Capacity Line of Sight Communications





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AROUND THE WORLD

SKYORBITER HA75 CHALLENGE



An aerial photograph of a vast vineyard with rows of grapevines stretching across rolling hills. In the lower foreground, the white frame and propellers of a SkyOrbiter drone are visible, suggesting it is the vehicle used for the survey. The text is overlaid on the top left of the image.

PRECISION AGRICULTURE ON A LARGE SCALE IS NOW POSSIBLE

INCREASING THE PRODUCTIVITY OF AGRICULTURAL CROPS

A SkyOrbiter is suitable for surveying vast rural areas and large-scale farms. The collected images have higher resolution than those obtained by conventional satellites, since this aerial platform is closer to the area being monitored.

It can be used either by government agencies or farmers to tailor the use of pesticides, herbicides and fertilizers based on the needs of a particular area — a process known as precision agriculture.

This allows saving money from unnecessarily overusing resources as well as minimizing environmental damage and reducing the amount of runoff that could flow into nearby rivers and streams.

By providing different types of detailed views, the SkyOrbiter system enables continuous aerial monitoring that can reveal patterns both in irrigation and soil, and in pest and fungal invasions that go unnoticed to the naked eye.

A multispectral image capture combined with infrared capabilities can create a view of the crop that highlights the difference between healthy and distressed plants.



SPECIAL OPERATIONS SUPPORT

SPECIAL OPERATIONS WITH A SPECIAL HELP

A SkyOrbiter can be used to enhance special operations by undertaking reconnaissance, surveillance and target acquisition missions autonomously in a cost-effective manner.

This aerial platform makes it possible to survey difficult-to-access areas on a continuous real-time basis. It can even provide day, night, thermal and radar high-resolution image gathering for multi-purpose screens that help the ground team to make accurate decisions, based on this information.

Furthermore, a SkyOrbiter eliminates the risk of special operation forces traveling into remote areas.



FOREST FIRES DETECTION AND PREVENTION

GATHERING A FIRE BRIGADE,
PUTTING A FIRE PREVENTION PLAN IN PLACE

SkyOrbiters were developed to loiter for long periods of time during day and night making manned aircraft an obsolete system for this kind of application.

This aerial platform can be used as a fire prevention tool for monitoring vegetation and estimating hydric stress and risk level. It can also be applied for forest fire detection and tracking.

A SkyOrbiter can be equipped with cameras and sensors to provide real-time data in emergency situations. The information collected includes the location of the fire outbreak, as well as important meteorological data (wind speed, temperature, humidity, precipitation, etc.) that is crucial to help firemen suppress fire.

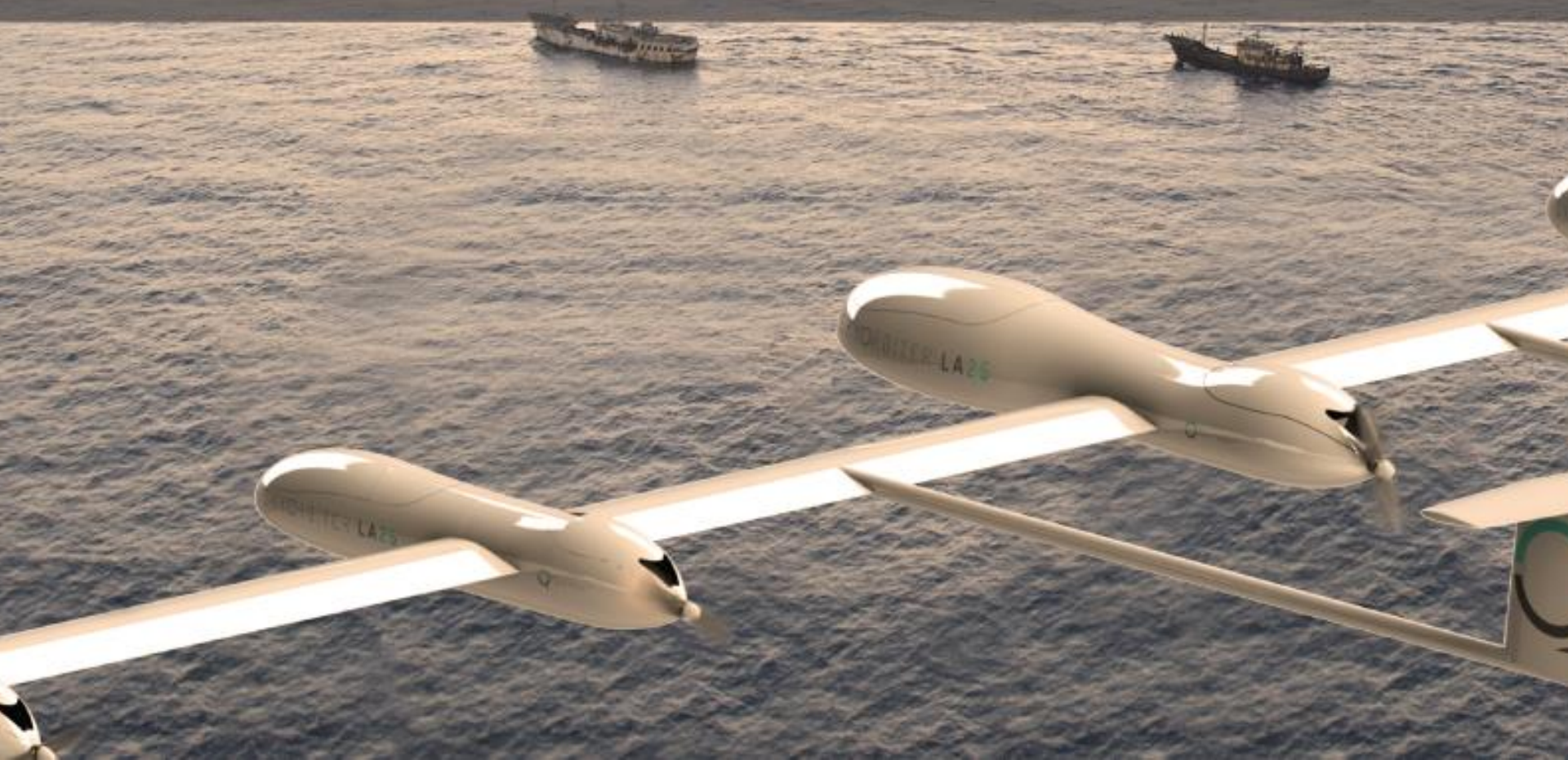


ILLEGAL TRADING CONTROL

SURVEYING TO CONTROL DRUG TRAFFICKING AND CONTRABAND

A SkyOrbiter provides enhanced surveillance and support for counterdrug and other operations against organized crime.

When tracking suspicious activities and individuals, SkyOrbiters are capable of delivering real-time tactical data regarding the target to the ground control station. Also, the fact that it operates in the atmosphere allows a greater range of sight. SkyOrbiters can fly over large areas for long periods of time without refueling, which is an added advantage since it allows to conduct continuous anti-narcotics surveys along the major land and sea-based drug trafficking routes.



A CELL TOWER IN THE SKY

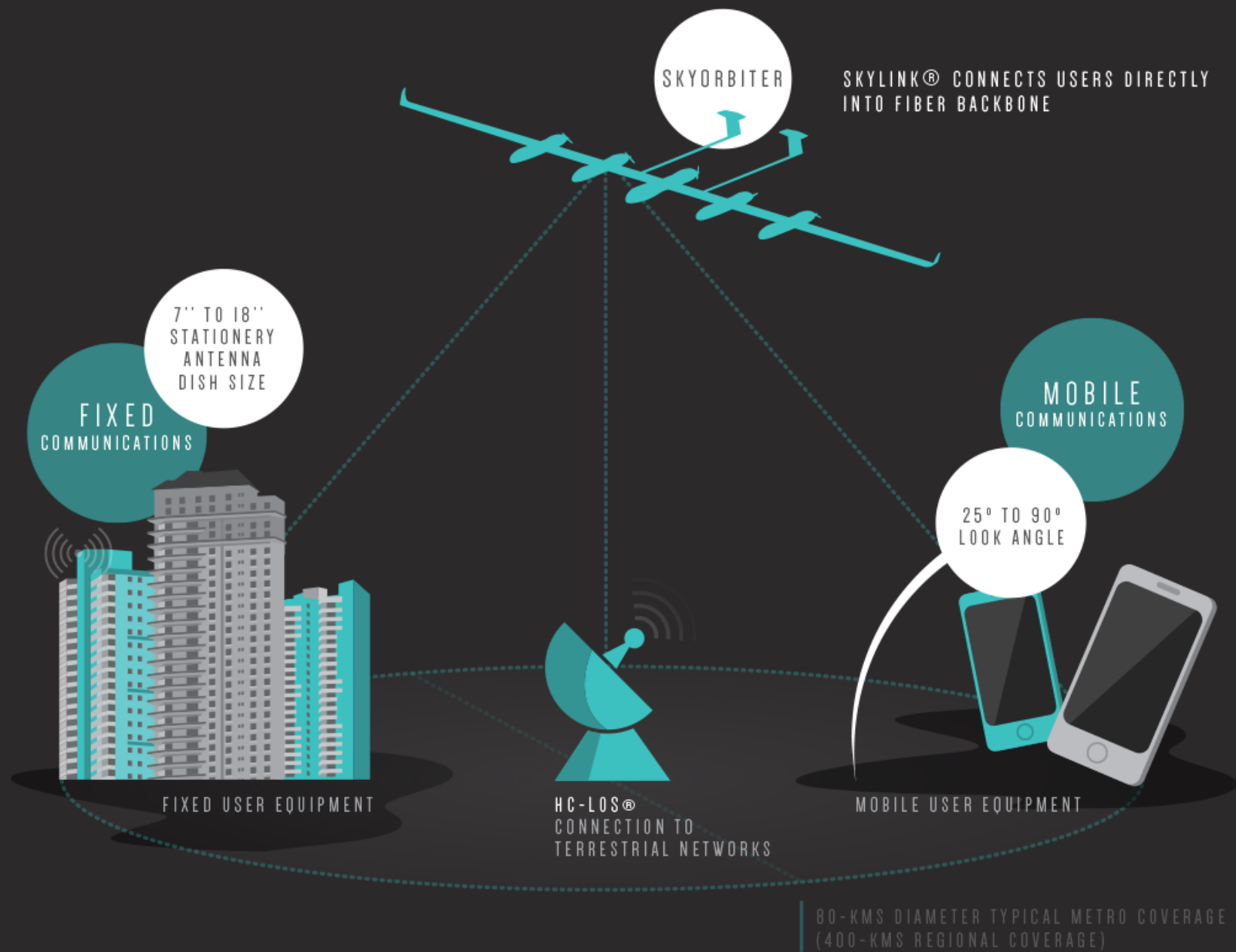
COMMUNICATING WITHOUT CONSTRAINTS

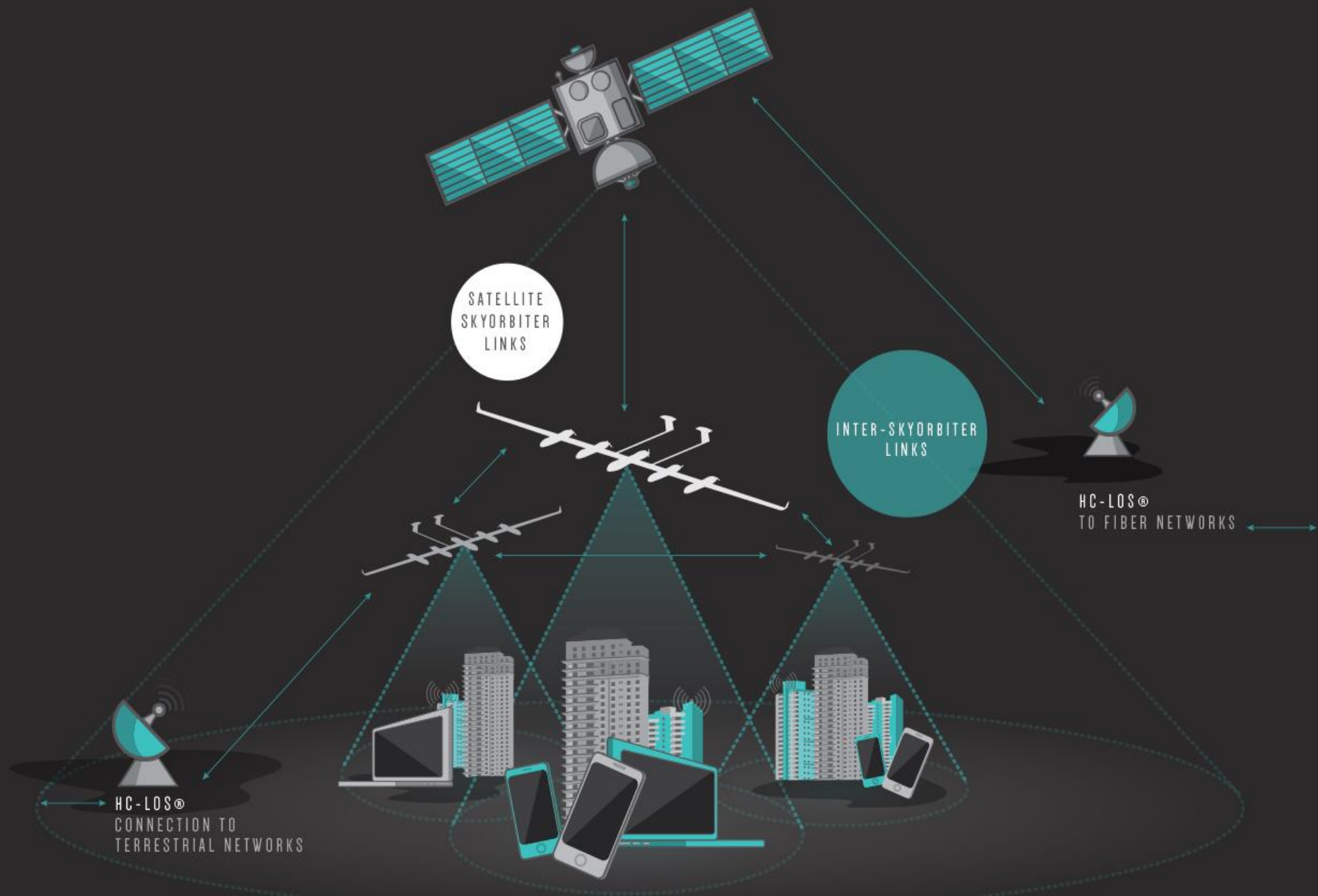


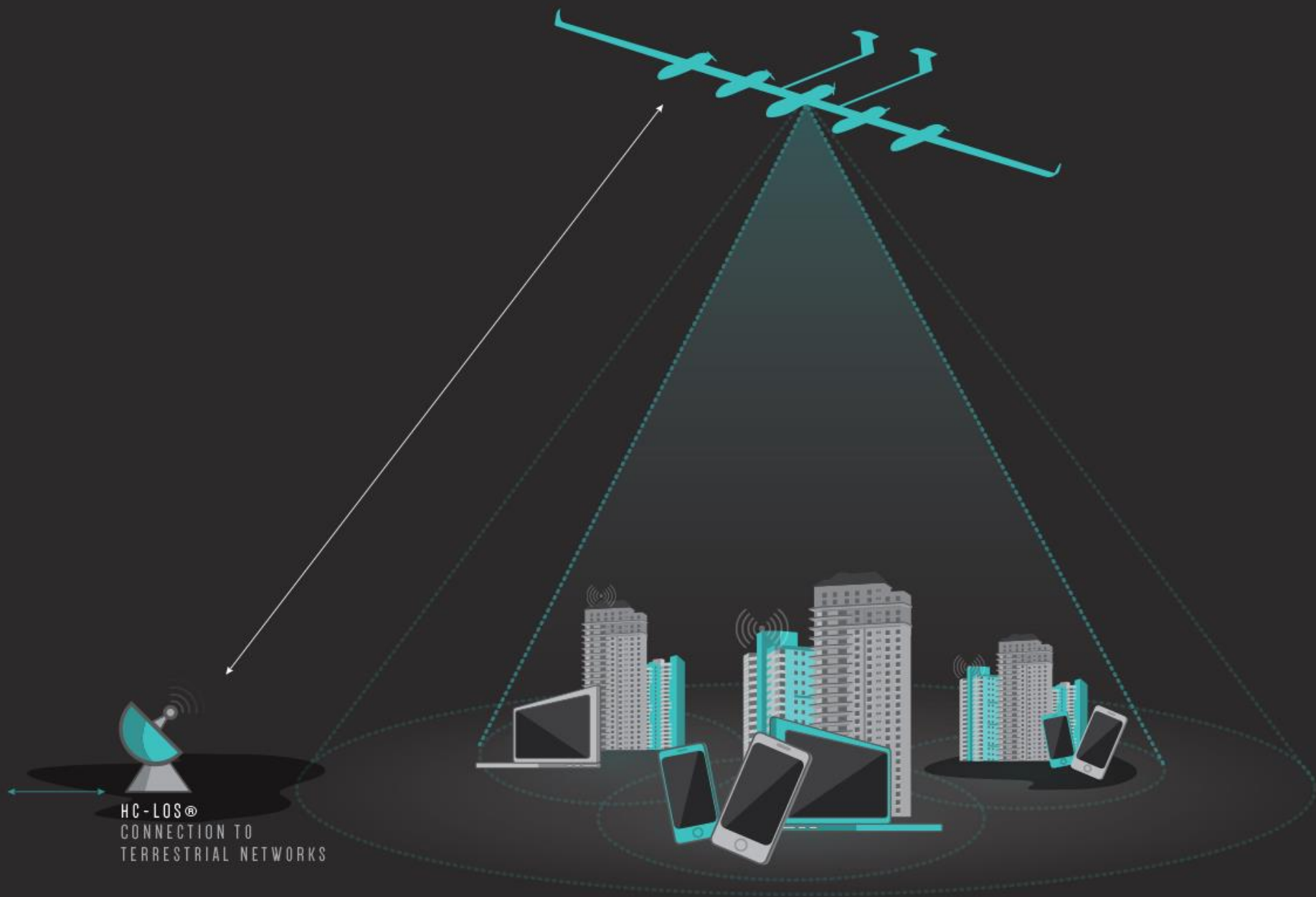
The SkyOrbiter platform through SkyLink can play an important role in voice, video and real-time data communications by offering a reliable, robust and scalable alternative to costly wire-bound and conventional communication infrastructures.

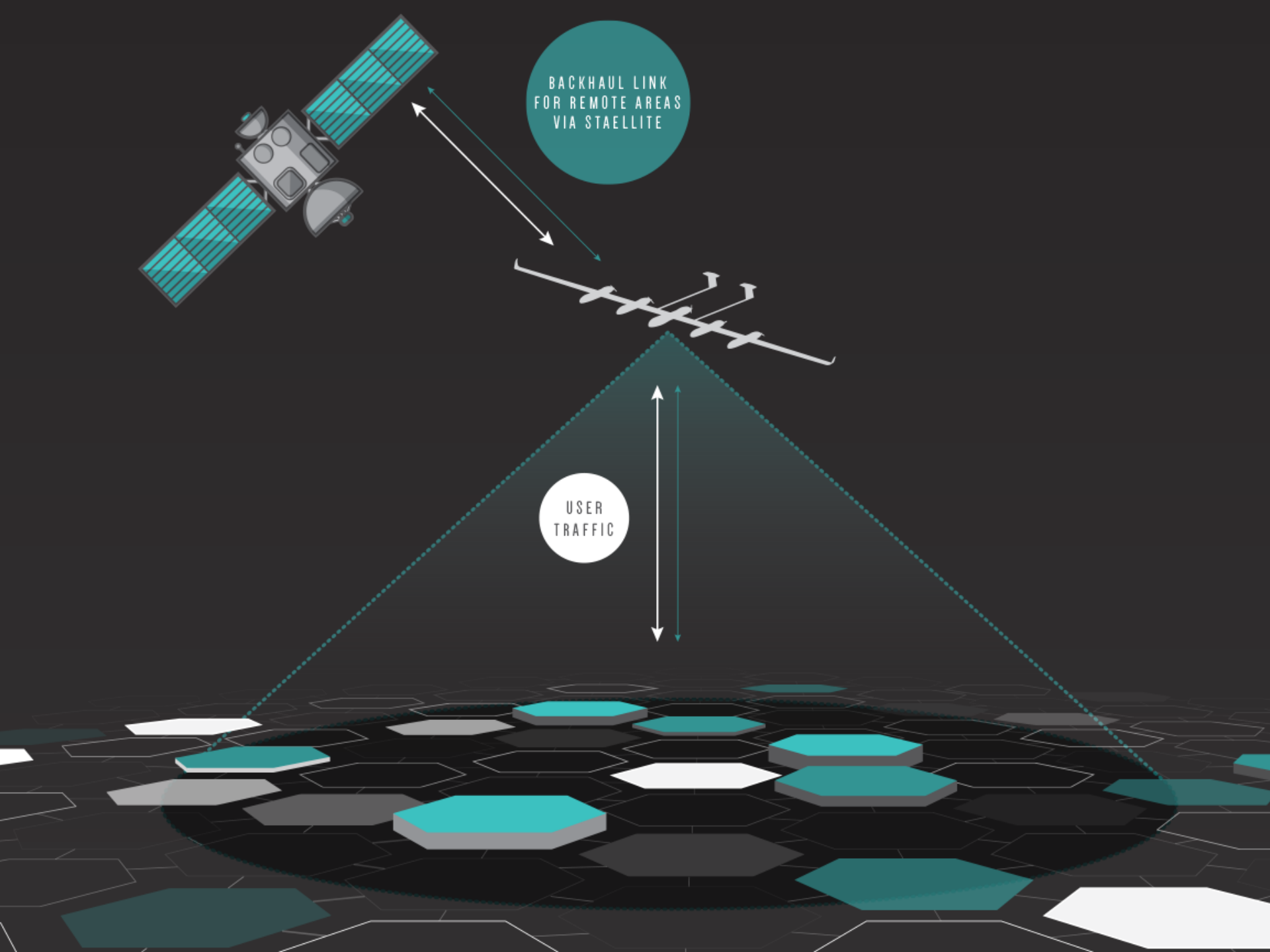
This aerial system can take high-speed broadband communications to remote underserved locations, thus breaking down geographical barriers.

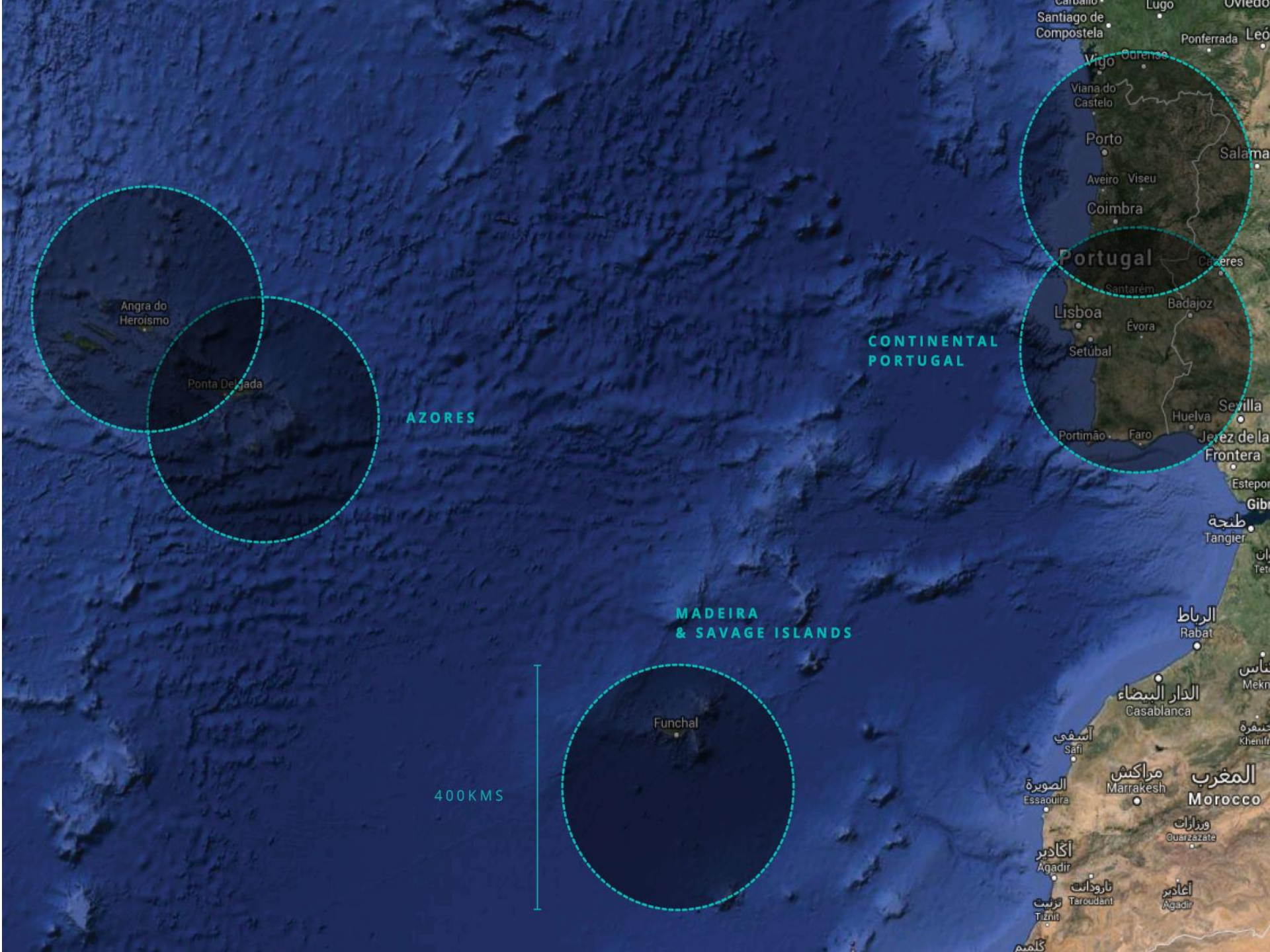
Also, unlike land-based communication infrastructures, SkyOrbiters are capable of providing continuous communication services even if a natural or man-made disaster occurs.











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