

ZERO 2 INFINITY



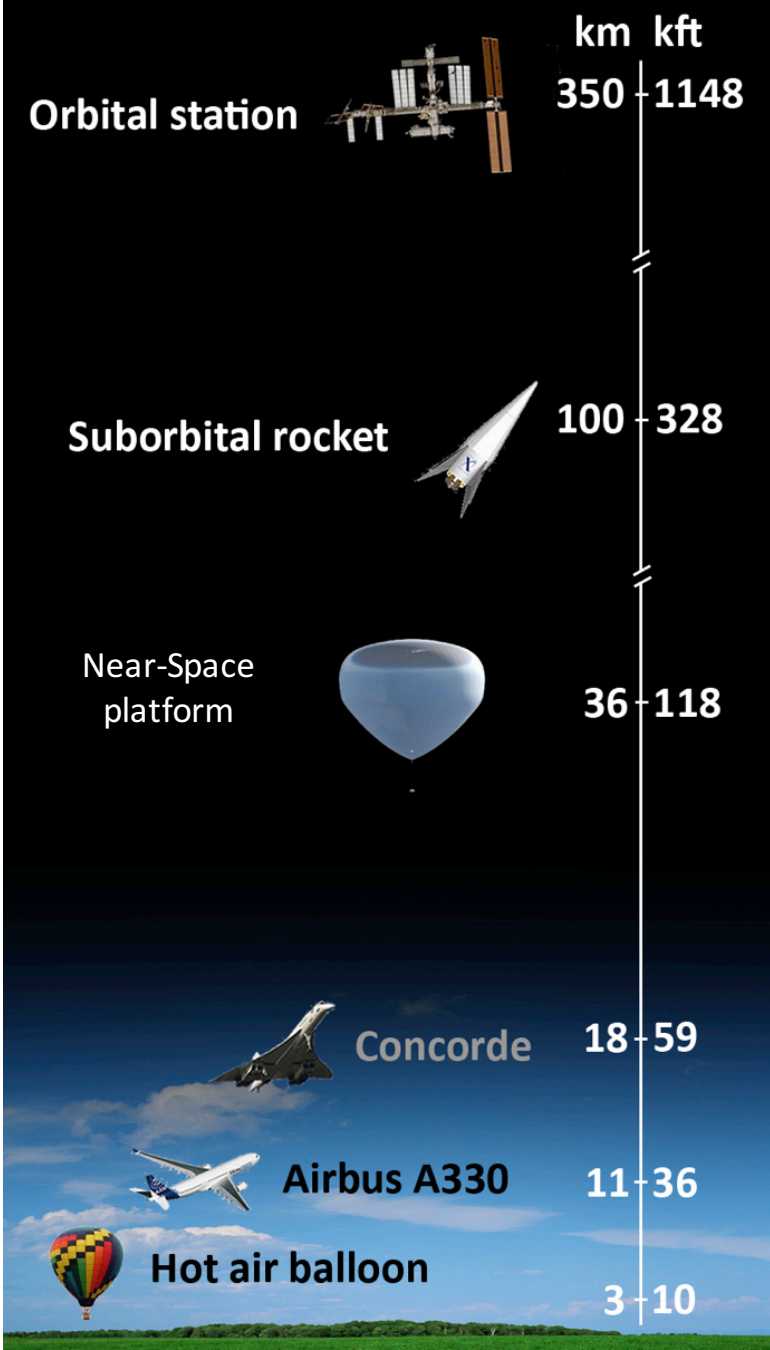
# The view from Near Space

José Mariano López-Urdiales, CEO



# What is Near Space?





CADE METZ BUSINESS 02.24.16 7:00 AM

## GOOGLE LASER-BEAMS THE FILM *REAL GENIUS* 60 MILES BETWEEN BALLOONS



IBT News World Business Politics Technology Science Sport Entertainment

## Facebook's solar-powered drone getting ready for flight

By Akanksha Prasad

February 25, 2016 08:43 GMT



Facebook is making weekly trial flights of its solar-powered drone – Aquila (Facebook)



# The typical launch profile

A night sky over a body of water. A bright orange arc of light starts from a launch site on the horizon and curves upwards to a white hot air balloon floating in the sky. The text "Our starting point" is overlaid on a green rectangular background in the center-right of the image.

**Our starting point**

# Problems that Small Satellite Operators Face



**NO TIME & DATE FREEDOM**



**NO ORBIT SELECTION**



**LACK OF RESPONSIVENESS**



**LACK OF CONSTELLATIONS**



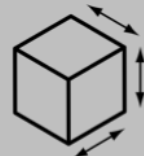
**HIGH RISK**



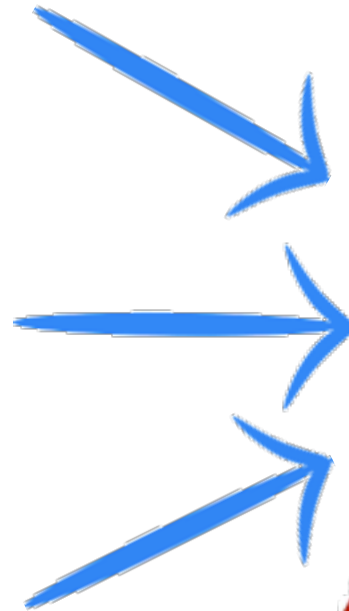
**HIGH COMPLEXITY**



**HIGH PRICE**



**VOLUME RESTRICTIONS**



# This is “bloostar”, a new type of launcher for a new market



NASA/TP-2015-216648/REV1



## Small Spacecraft Technology State of the Art

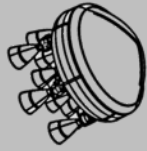
Mission Design Division  
Ames Research Center, Moffett Field, California

Table 10.4: Launchers on the Horizon

Product	Manufacturer	LEO Capacity	Planned First Flight	Launch Method	Status
Austral Launch Vehicle Aurora S	Heliaq	80-550 kg to low SSO	2019	Land / Air	TRL 2-3
Bloostar	Conspire Technology zero2infinity	225 kg to 500 km SSO	2025	Land	TRL 2-3
CubeCab	CubeCab	75 kg to 600 km SSO	2018	Balloon	TRL 5
Dedicated Nano Launch Vehicle (DNLV)	Independence-X Aerospace	5 kg to 400 km	2018	Air (F-104 Fighter Jet)	TRL 4
		100 kg to 500 km	2019	Land	TRL 2



# Smarter **Cheaper** Cleaner



HIGHER ENGINE EFFICIENCY



LESS CAPITAL INTENSIVE



INCREASED SAFETY



COST REDUCTION



ORBIT SELECTION



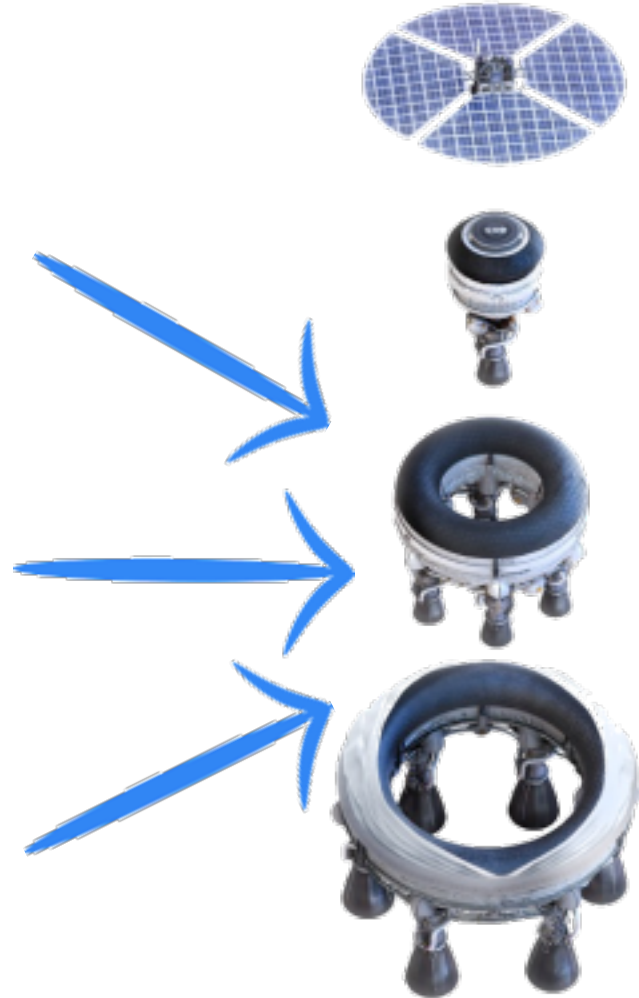
DESIGNED FOR REUSABILITY

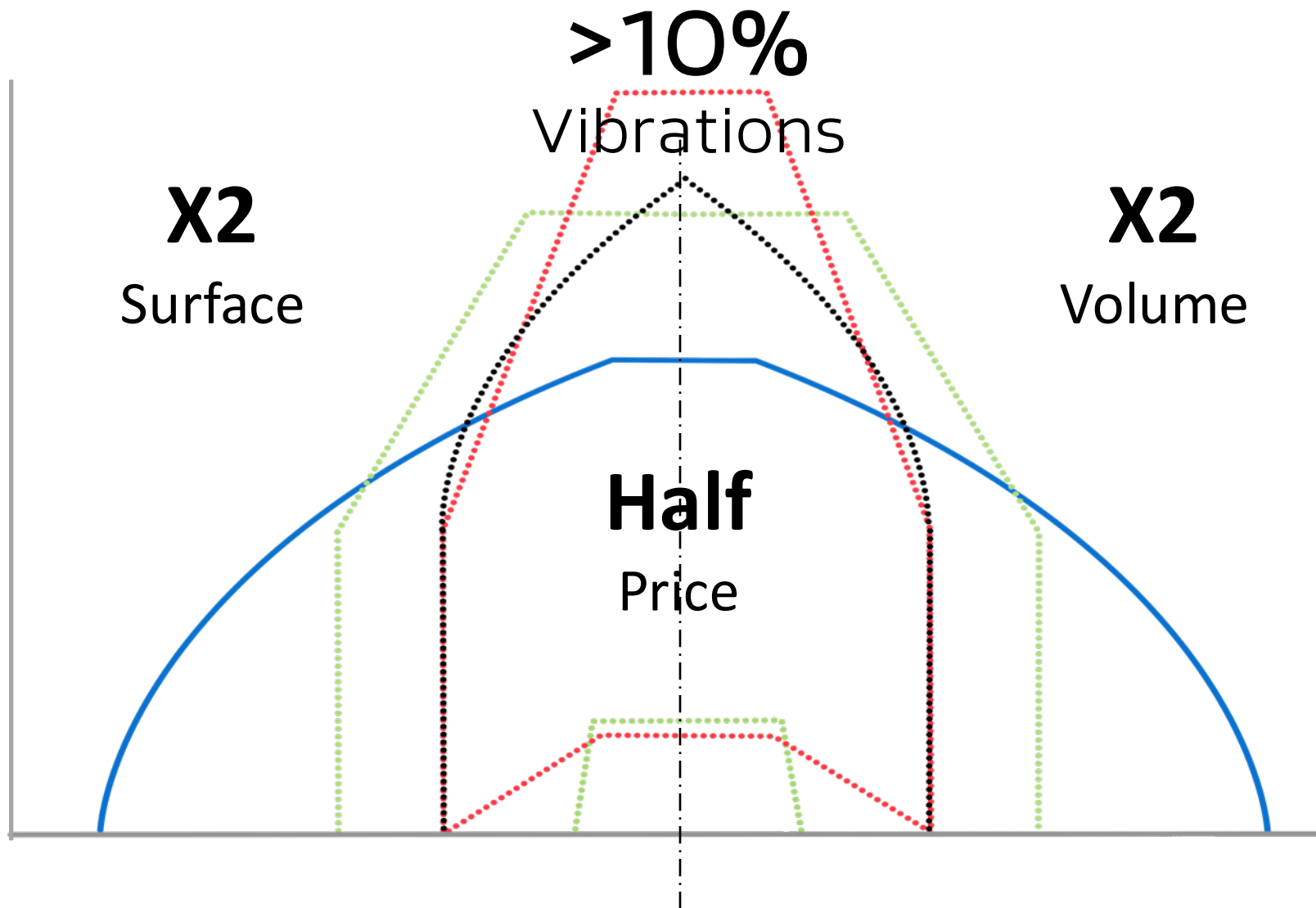


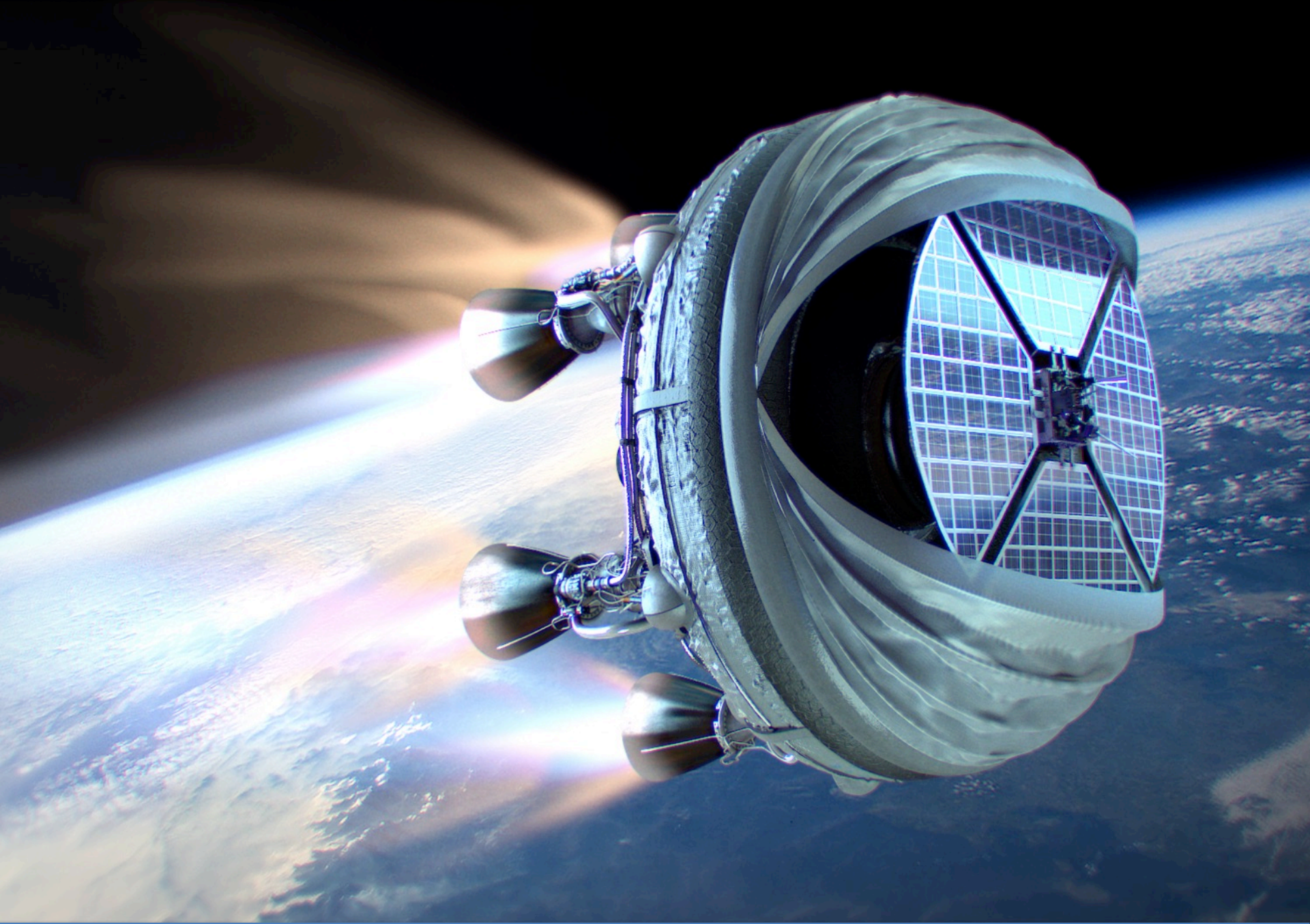
ALL WEATHER

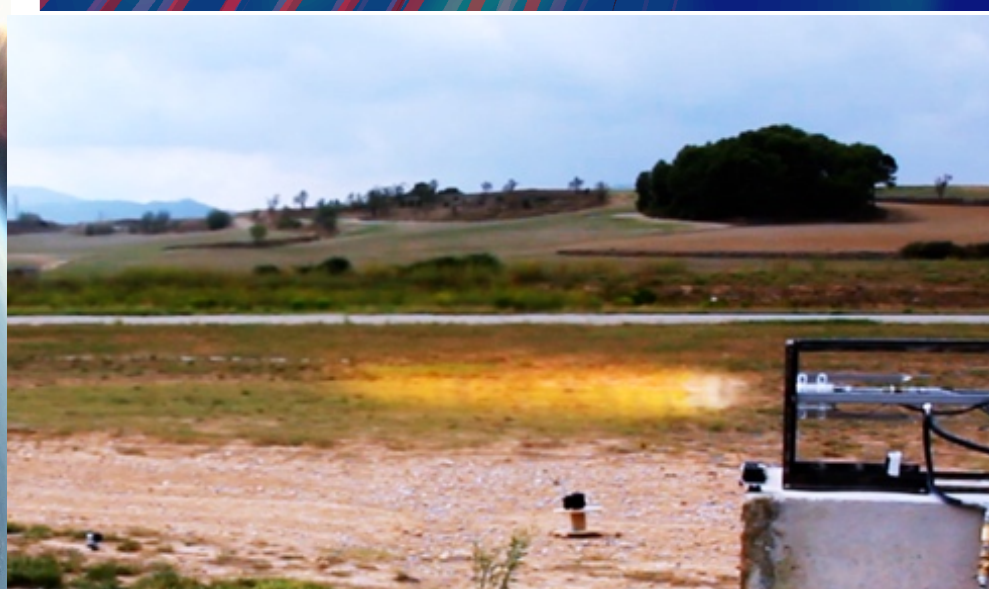
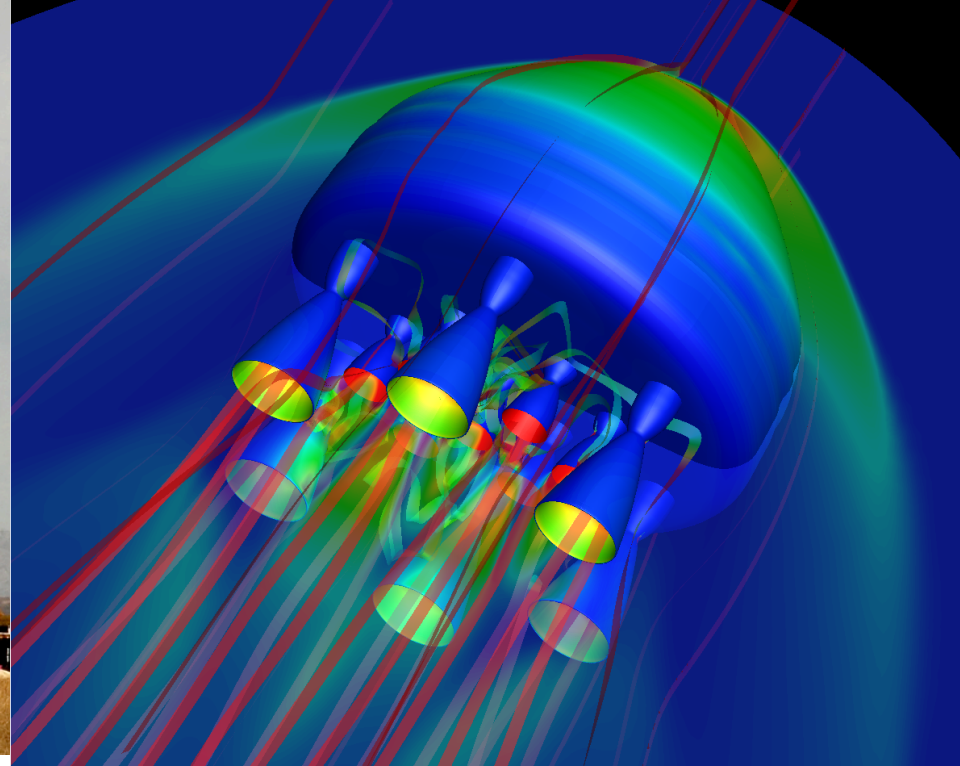


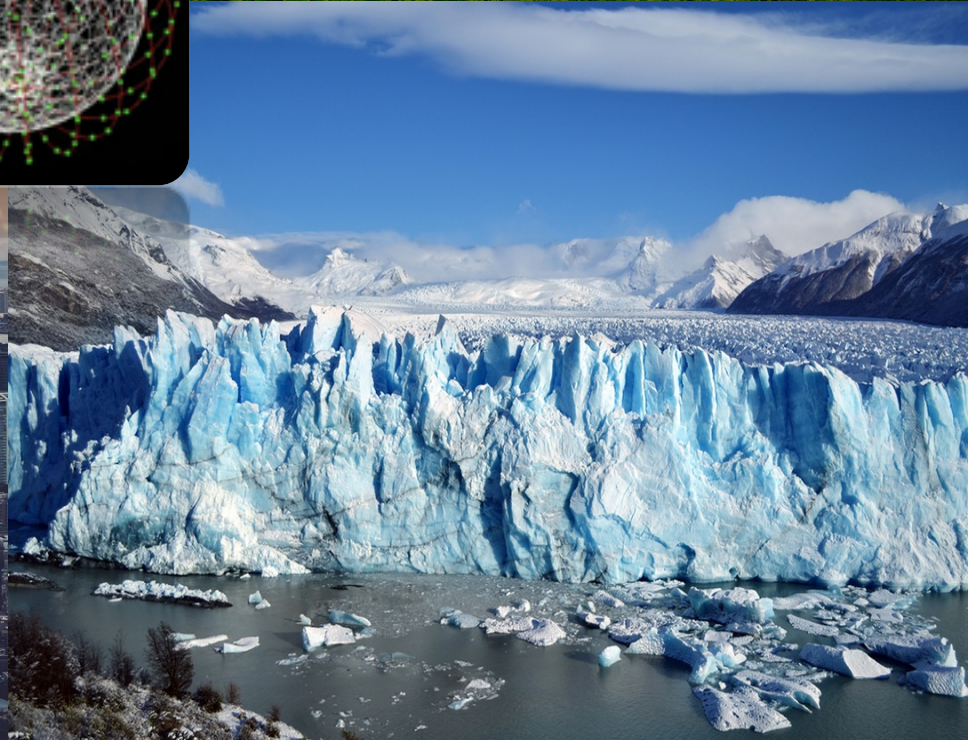
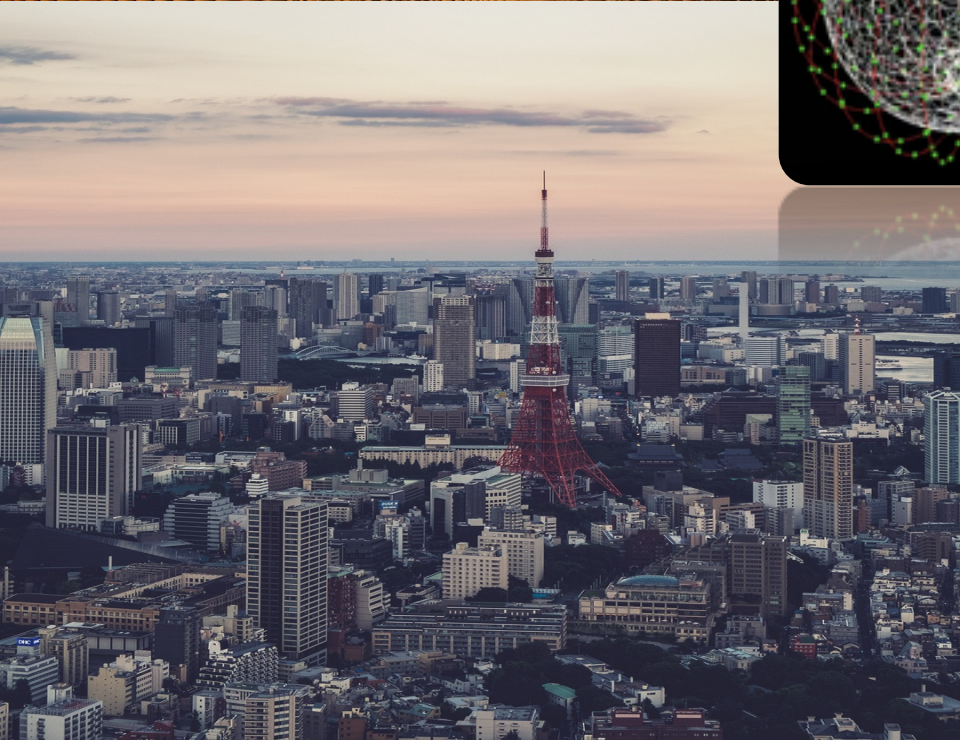
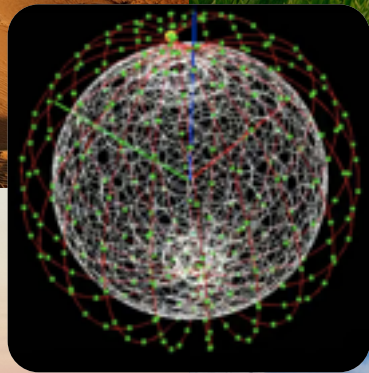
ENVIRONMENTALLY RESPONSIBLE











# Final Thought:



From the October 9th, 1903 edition of: **The New York Times**

*“[A] flying machine which will really fly might be evolved by the combined and continuous efforts of mathematicians and mechanics in from one million to ten million years.”*



From Orville Wright's diary October 9th, 1903:

*“We started assembly today.”*