

We Need More Space

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Last Millennium



A pair of hands, rendered in a grayscale, textured style, gently cradling a small, realistic globe of the Earth. The globe shows continents in green and yellow, oceans in blue, and white clouds. The background is dark and out of focus.

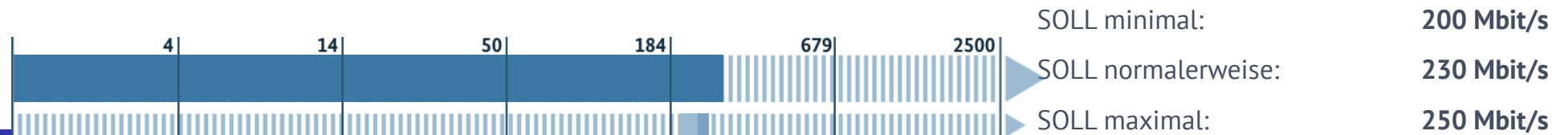
The Decade of Space



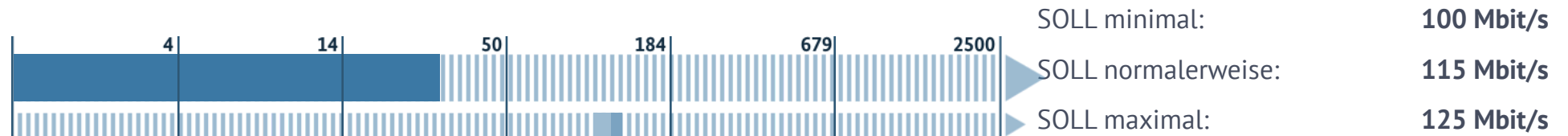
The space economy will grow from U\$ 340 billion to U\$ 3 trillion over the next 20 years.”

The text 'IoT' in a white, bold, sans-serif font, centered within a solid blue rectangular background.

Download: **279,84 Mbit/s**



Upload: **29,42 Mbit/s**



Laufzeit: **35 ms**

2015 CNBC DISRUPTOR 50

[2015 CNBC DISRUPTOR 50](#) | [METHODOLOGY](#) | [2014 LIST](#) | [2013 LIST](#)

How outer space is becoming the next Internet

Ari Levy | [@levynews](#)

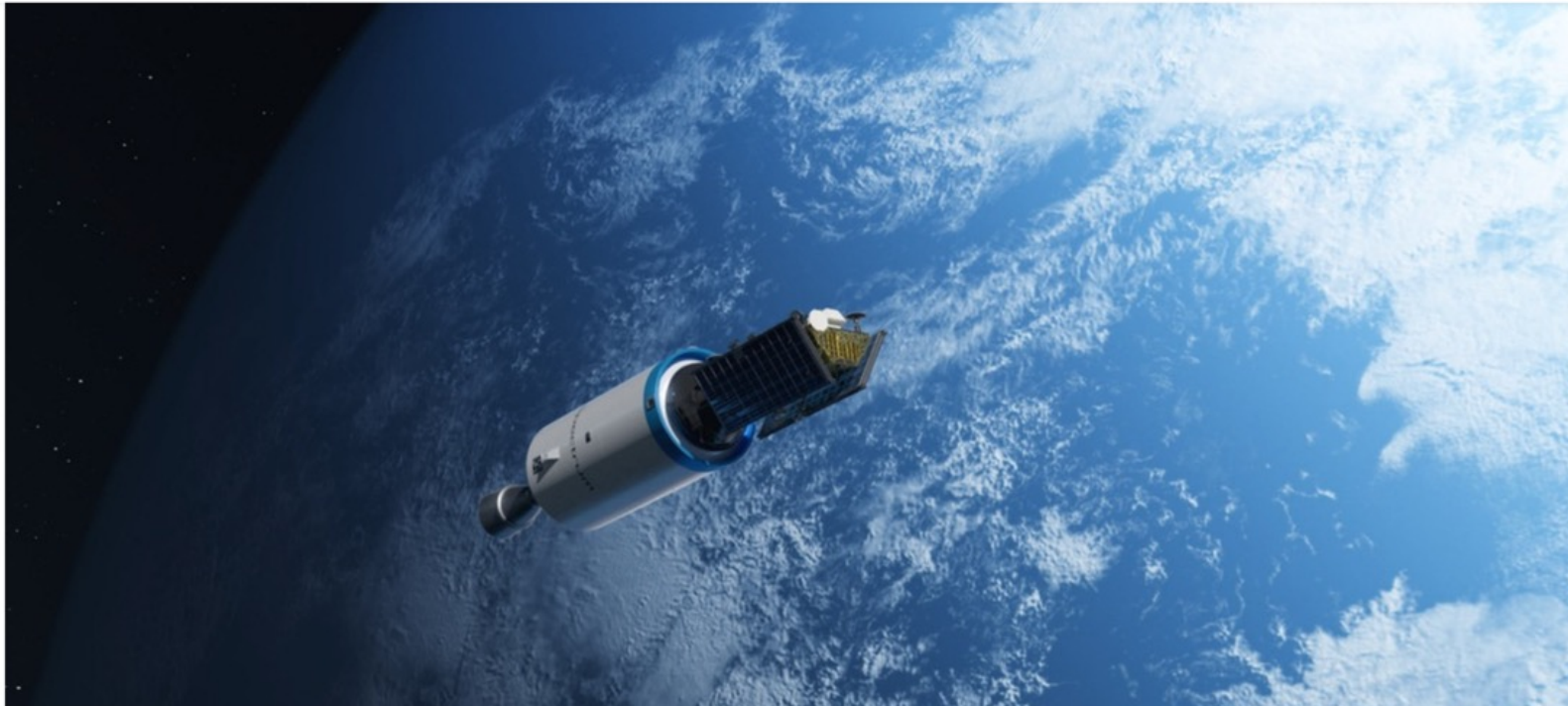
Wednesday, 22 Jul 2015 | 12:51 PM ET



Source: NASA

Planet Labs doves.

An hour after sunrise on June 28, [Mike Safyan](#) and nine co-workers from Planet Labs gathered in their San Francisco office for a pancake



Einstieg bei Isar Aerospace

Was will Porsche im Weltall?

Stand: 28.07.2021 13:25 Uhr

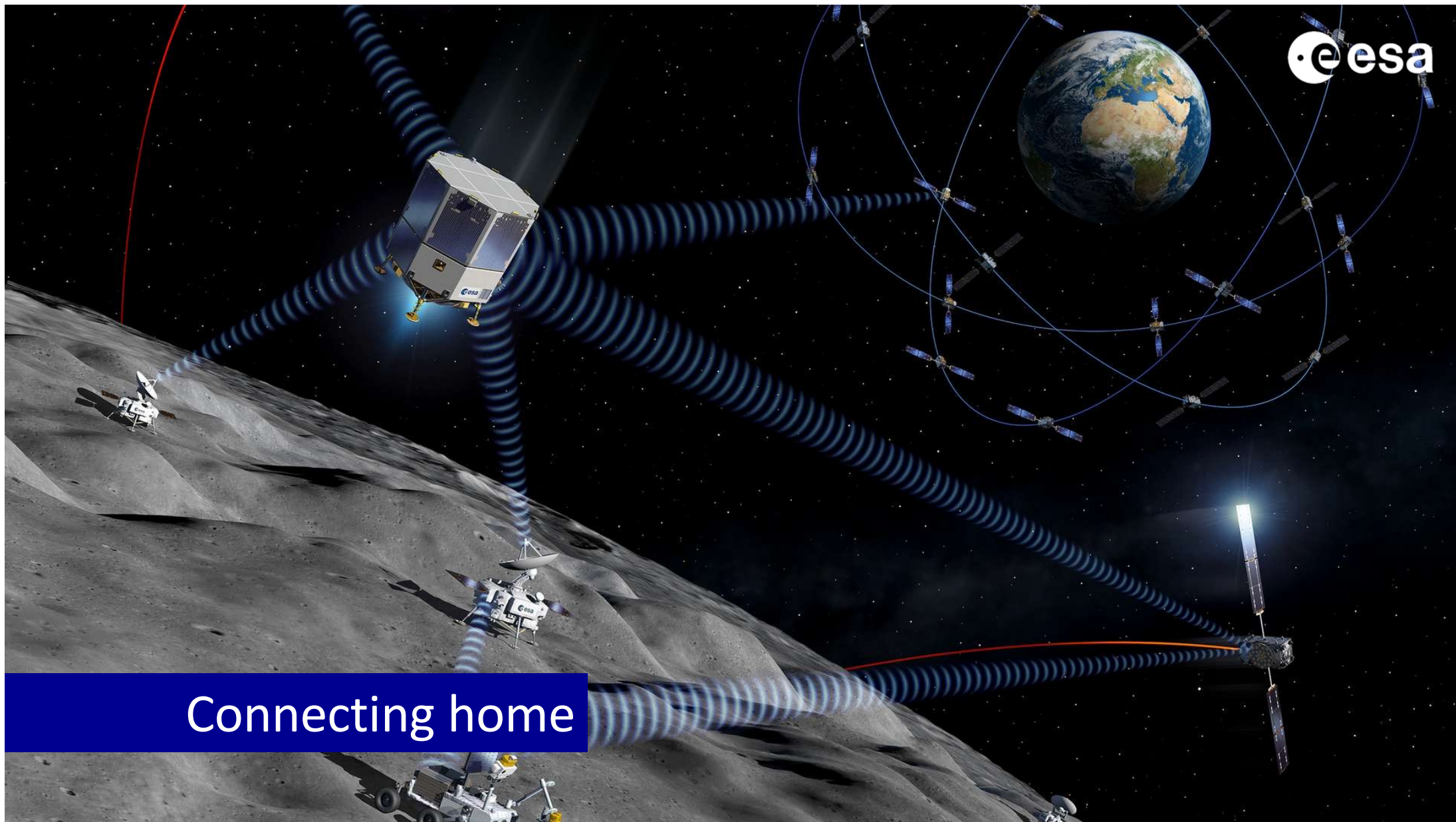
Die Porsche Holding SE steigt ins Weltraumgeschäft ein. Die Volkswagen-Mutter beteiligt sich am Münchner Raketenbauer Isar Aerospace. Dahinter steckt strategisches Kalkül.

	1G (1980s)	2G (1990s)	3G (2000s)	4G (2010s)	5G (2020s)	6G (2030s)
Mobile Access	Analog $\Delta=30\text{kHz}$ 	GSM <2 GHz $\Delta=200\text{kHz}$ 	UMTS <2GHz $\Delta=5\text{MHz}$ 	LTE <6GHz $\Delta=n \times 20\text{MHz}$ 	5G <100GHz $\Delta=n \times 200\text{MHz}$ 	6G <THz $\Delta=10\text{GHz}$ 
Compute Platform						
Network Platform	Analog	Circuit (TDM)	Circuit/Packet (ATM)	Packet (IP)	Cloud	AI/ML
Copper Access	POTS 	ISDN $\Delta=20\text{kHz}$ 	ADSL $\Delta=1\text{MHz}$ 	VDSL $\Delta=30\text{MHz}$ 	G.(mg)fast $\Delta=200\text{MHz}$ 	FTTH / FWA $\Delta=10\text{GHz}$ 
Defining Application	Voice	Voice	WAP, Video	Web	IIoT	Digital – Physical Worlds
Unexpected App	Fax	SMS, ringtones	Web	Facebook YouTube	?	?
Defining EU Projects	NA	COST207	RACE 1043 (others, incl. FRAMES)	FP6: WINNER (WWI)	FP7: METIS (5GPPP)	HEXA-X (SN&S)



Application

Connecting home

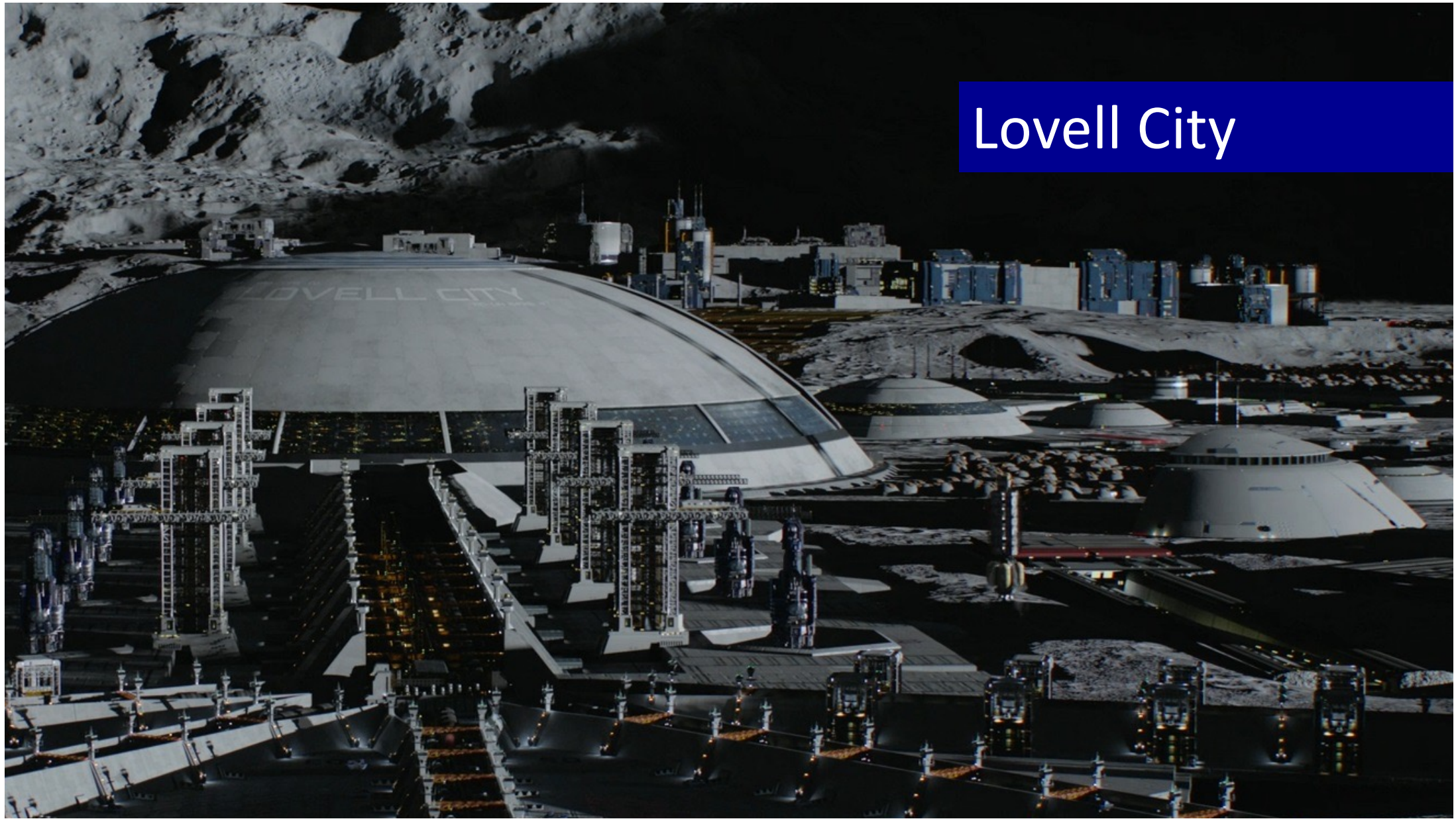




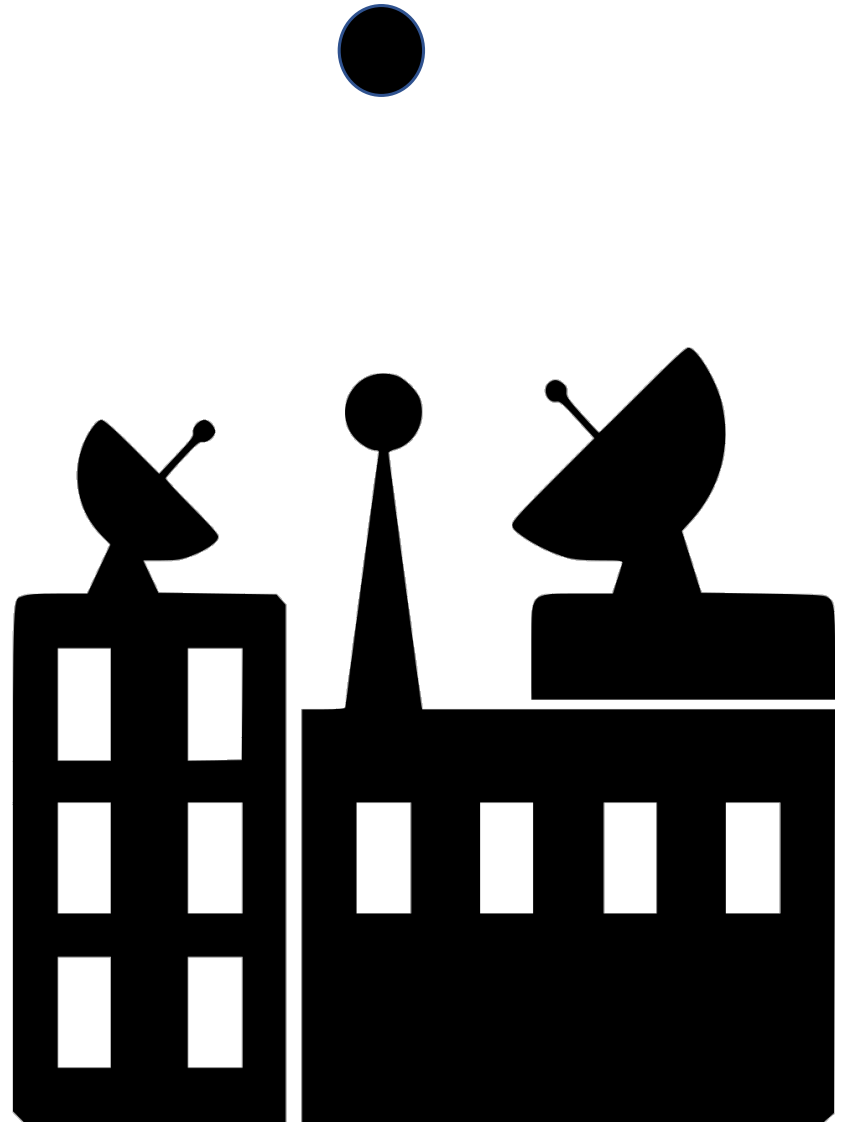
The power of vision



Lovell City



Biz Model



A young child wearing a blue and green striped shirt, blue jeans, and a brown pilot's helmet with large headphones lies on their back on a dark grey asphalt surface. The child's arms are outstretched. Surrounding the child are various colorful chalk drawings: a large rocket ship with a grid pattern on its side, several yellow stars, a green ringed planet, and a red planet with a blue ring. The scene is set against a dark, textured background.

Everybody can reach the stars,
you just add Space.

<https://spacesolutions.esa.int>

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