SpaceMobile

Transforming how the world connects



NASDAQ: ASTS

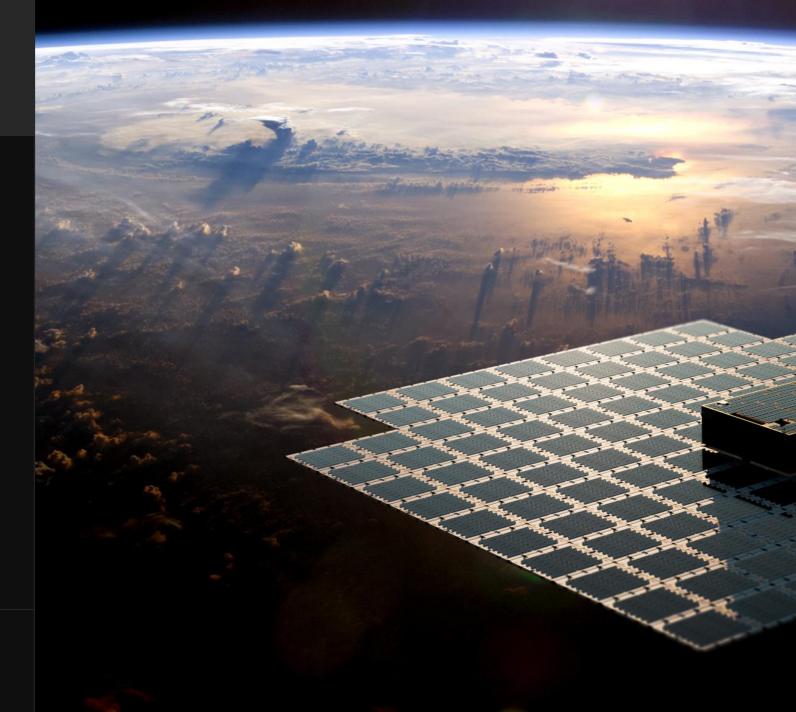
BEREC Presentation

April 13 2023 Vikram Raval Head of Global Regulatory Affairs



AST SpaceMobile is building the first & only space-based cellular broadband network

Our engineers and space scientists are on a mission to eliminate the connectivity gaps faced by today's five billion mobile subscribers and finally bring broadband to the billions who remain unconnected



² ast-science.com

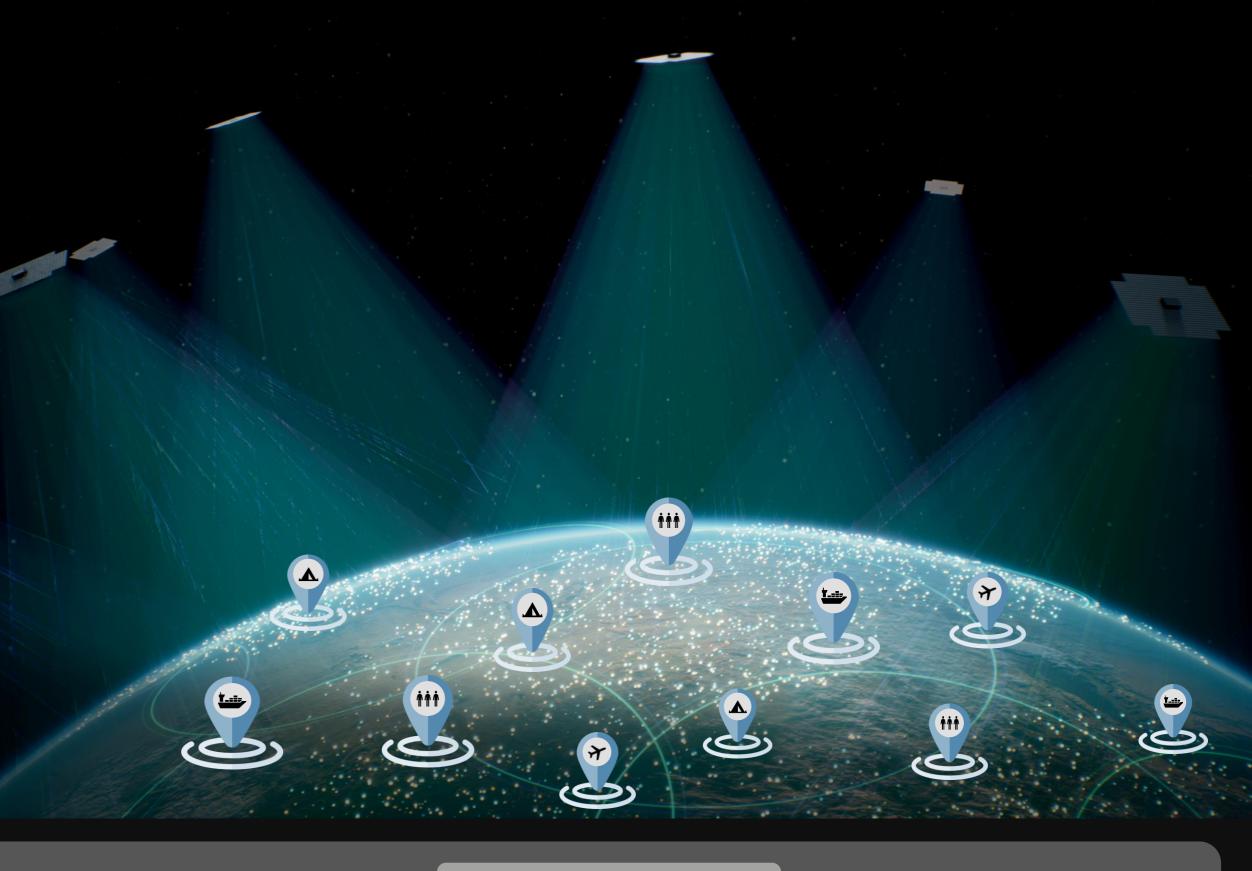


Transforming connectivity with direct-to-cell technology (5G + LTE)

Raised ~\$725 million to date to fund network build and technology with 2,600+ patent and patent-pending claims

Signed agreements and understandings with 35+ mobile network operators with **2+ billion existing subscribers**

Currently testing BlueWalker 3 in-orbit, the largest-ever commercial communications array in LEO



STANDARD





EXISTING SPECTRUM

AST SpaceMobile technology solution

Differentiated approach compared to existing space-based communications

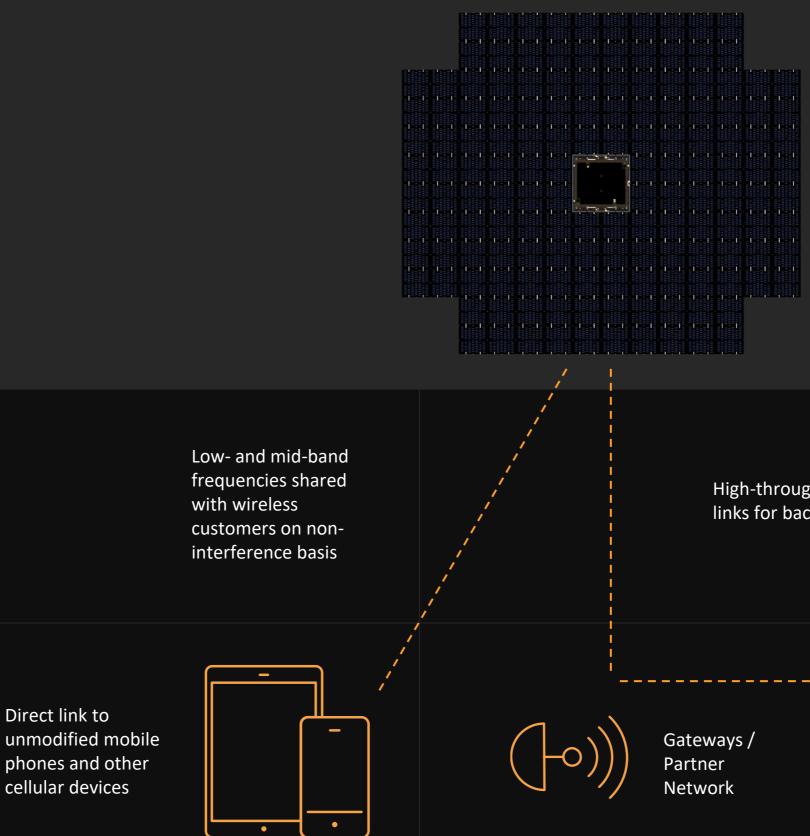
	First & Only Broadband Direct To Mobile Phones	Direct via Proprietary Mobile Phones	Indirect via Complex, Expensive Hardware
	CASST SpaceMobile		
	Any standard mobile phone	Provider-specific satphones (~\$1K)	Provider-specific antennas mounted on planes, ships, vehicles, buildings (~\$1K-\$200K+)
nd Users	Mass market mobility and the unconnected	Narrowband service on satphones	Enterprise, Maritime, Aviation, Government, Residential



Er

Satellite-to-cellular architecture is transparent to the end-user

SpaceMobile network designed to closely mirror terrestrial cellular architecture





Satellites in low Earth orbit will offer lowlatency and attractive look angles

Large satellites designed to create over 1 million fixed terrestrial cells globally with broadband capacity

High-throughput Q/V-band feeder links for backhaul



Terrestrial **Telecom Network** Mobile Network **Operators (MNOs)** are investors, partners and customers

When operational, SpaceMobile service will be available to MNOs on a wholesale basis, with existing relationships





Critical, unique cellular broadband technology currently deployed in orbit

The first and only in-orbit deployment of innovative satellite technology designed for cellular broadband direct to unmodified cell phones







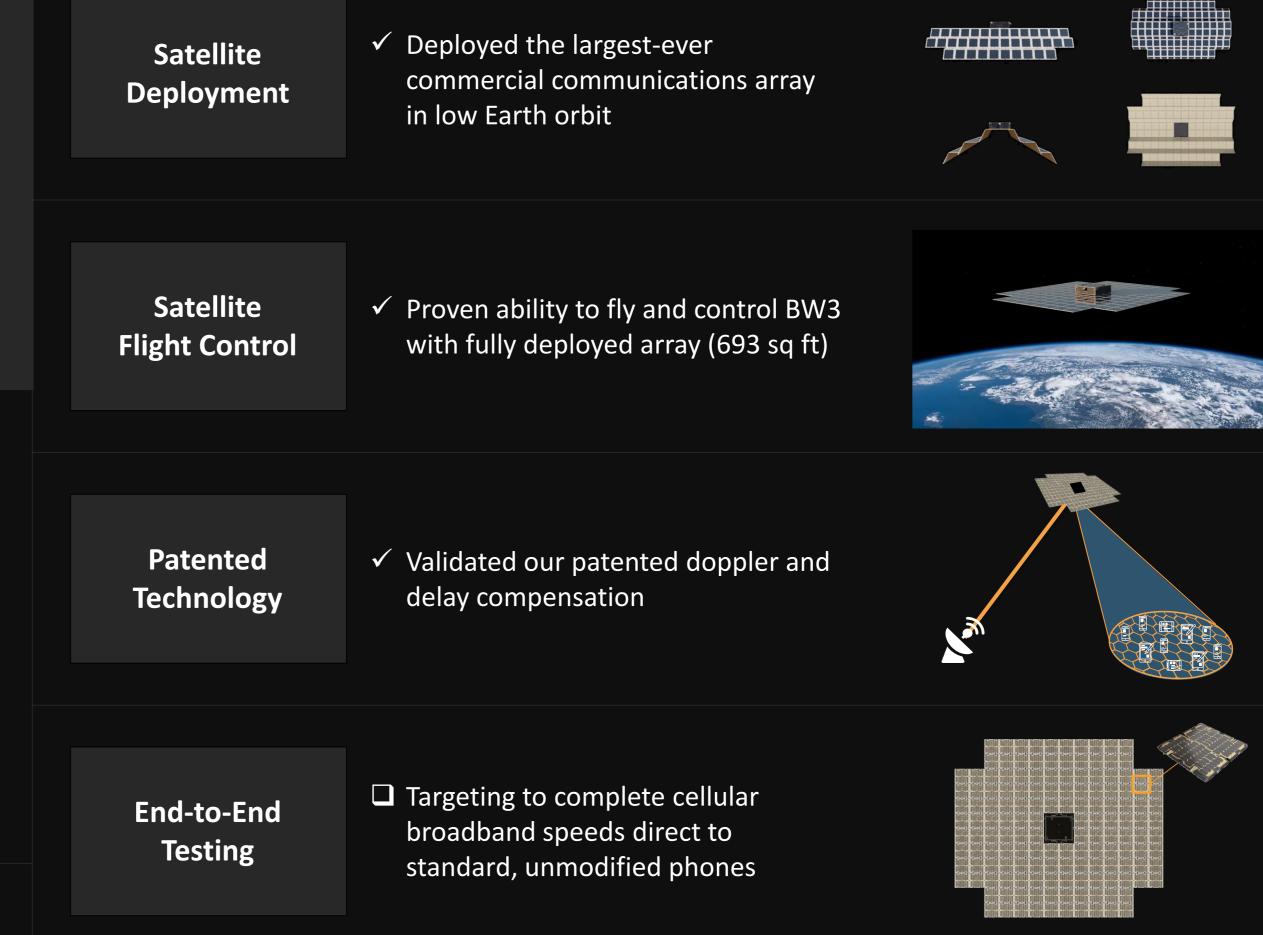




Unfolded – Solar Side

BlueWalker 3 test satellite update

Initial test results indicate downlink signal strength necessary to reach 5G cellular broadband speeds

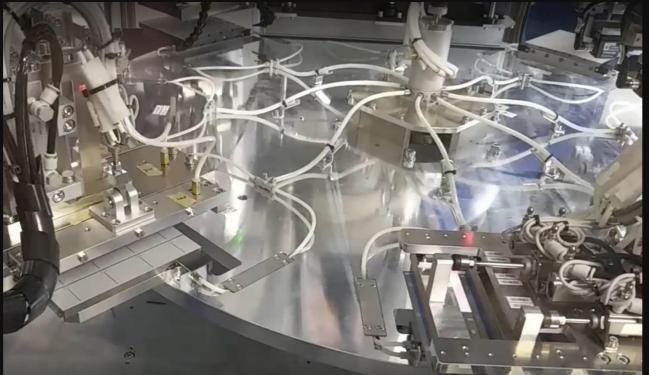




Vertically integrated manufacturing to support rapid constellation build We continue to invest in our facilities in Texas and around the world, as we ramp up initial manufacturing and assembly lines for the Block 1 BlueBird satellites

Headquarters









Site 2





AST SpaceMobile differentiation



Only pure play, low Earth orbit (LEO) broadband communications company that is publicly-traded



Novel technology solution applicable to mobile market to extend operators' coverage



Jointly going to market, not competing, with mobile network operators with hundreds of millions of subscribers

- $\bigcirc \rightarrow \square$ $\bigcirc \rightarrow \square$ $\bigcirc \rightarrow \square$
- Revenue share business model designed to allow users to sign up with a simple text message





FAST SpaceMobile





