SpaceMobile

Transforming how the world connects



NASDAQ: ASTS

Investor Presentation May 2023



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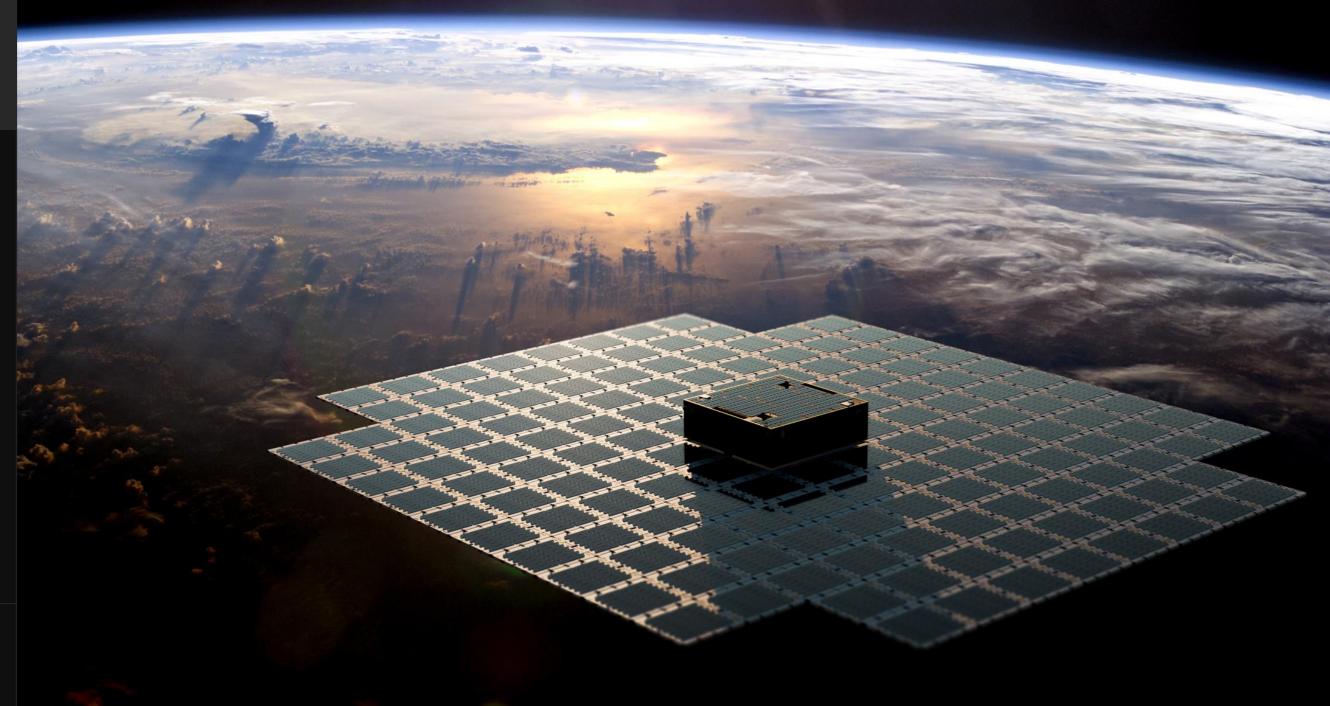
AST SpaceMobile is building the first & only space-based cellular broadband network



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



Completed first-ever space-based voice calls using everyday unmodified smartphones







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



Funded for production and launch of first phase of commercial satellites to offer **initial cellular broadband** service

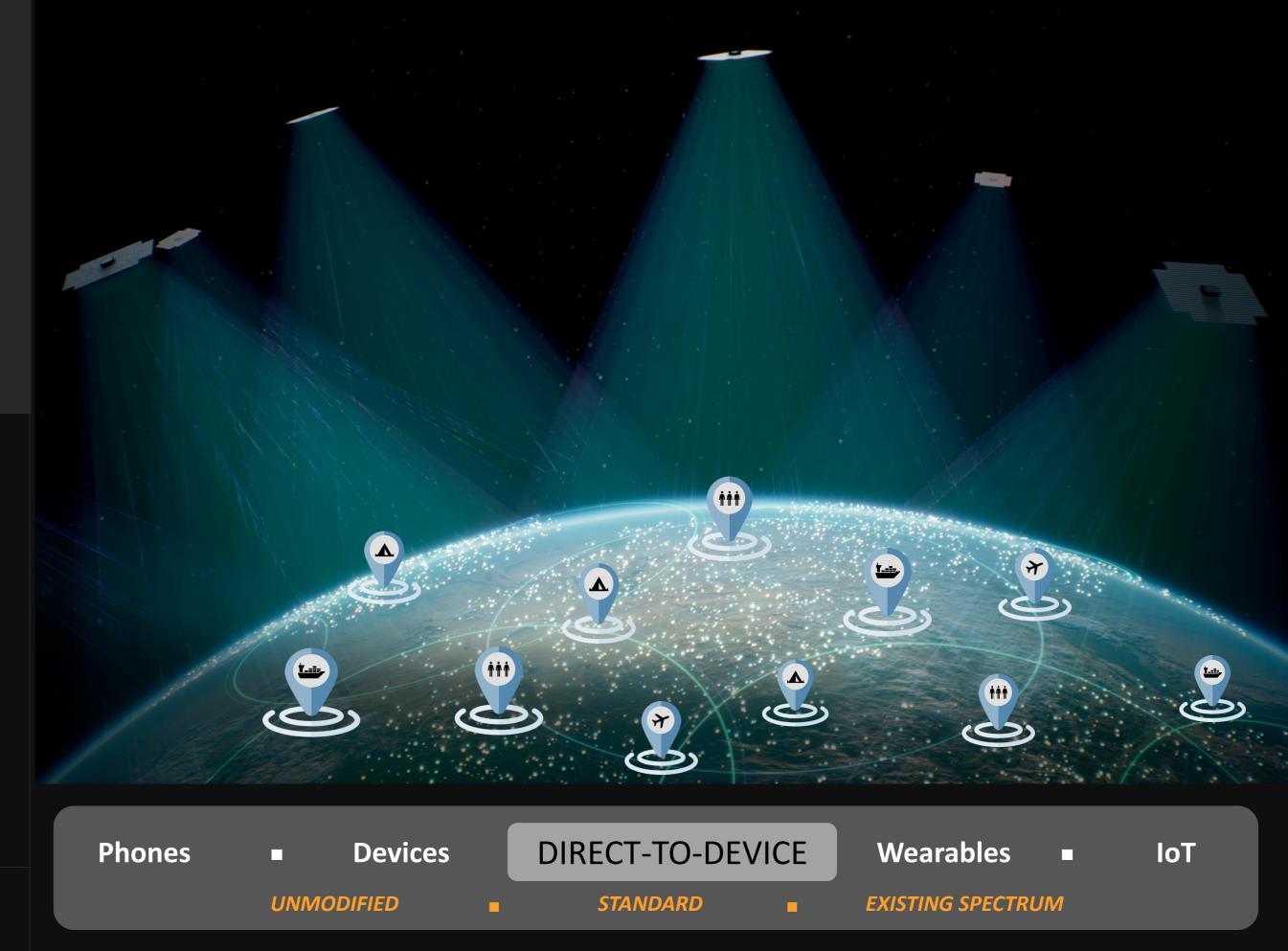
Transforming connectivity with direct-to-cell technology (5G + 4G LTE)

"Eliminating the friction of specialized equipment and spectrum bands from directto-cellular satellite coverage, at broadband speeds, is a transformational event for the communications industry"

"Not only do we expect to provide essential, affordable broadband connectivity to everyone everywhere, we are working to expand the market to billions of individuals and devices"



- Abel Avellan Chairman and CEO





Market opportunity is deep, untapped and expanding

Source: GSMA market data as of December 31, 2022.

1. Represents 2023-2030 cumulative estimated demand, per Northern Sky Research.

\$1.1 Trillion

global mobile wireless services market

5.5 Billion

mobile phones and devices moving in and out of coverage

44%

global population without cellular broadband

~90%

of Earth's surface without cellular coverage

\$67 Billion

8-yr expected demand for satellite direct-todevice communications ¹





Top Mobile Network Operators (MNOs) are AST investors, partners and customers

When operational, SpaceMobile service will be available to MNOs on a wholesale basis, with existing relationships spanning nearly all large countries (ex. China/Russia)







BlueWalker 3 Test Satellite

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History made: First-ever spacebased voice calls using everyday unmodified smartphones



The first voice call was made from the Midland, Texas area to Rakuten in Japan over AT&T spectrum using a Samsung Galaxy S22 smartphone



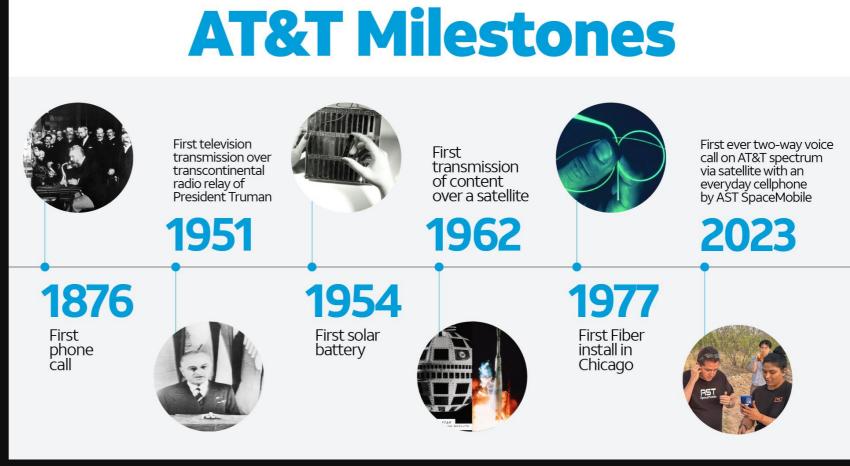
"Today, we have taken another major step in mobile communications. 30 years after Vodafone sent the world's first text message, we supported AST SpaceMobile in successfully making the first ever direct-tosmartphone test call using satellite communications. This is just the start. As a lead investor in AST SpaceMobile, we will continue to break technological boundaries by connecting many more millions of people across the planet when the service becomes commercially available."

-Margherita Della Valle, CEO



"AT&T's heritage began with the birth of the telephone 147 years ago and has continued with many other firsts including: trans-continental call, overseas call, call from the moon, and partnering to deliver the only network built with and for America's first responders. We connect people to greater possibility, and this important milestone with AST SpaceMobile is a big step and we can't wait to see what's next in our space-based journey."

-Chris Sambar, Head of AT&T Network







"It was a unique thrill and honor to have the Rakuten team talk with Abel in a worldfirst direct-to-satellite experience. Congratulations to AST SpaceMobile and all of its strategic collaborators on this groundbreaking event. As technological advancements like space connectivity become possible with pioneers like AST SpaceMobile, Rakuten will also progress even further along the road to democratizing connectivity for all."

-Mickey Mikitani, Chairman & CEO

Source: AT&T.

Critical technology milestone achieved with deployment of 693 sqft comms array in low Earth orbit

BlueWalker 3 is the largest-ever commercial communications array deployed in LEO





<u>Click here to see</u> how we assembled, launched and deployed BW3, and <u>click here for an</u> overview of the mission





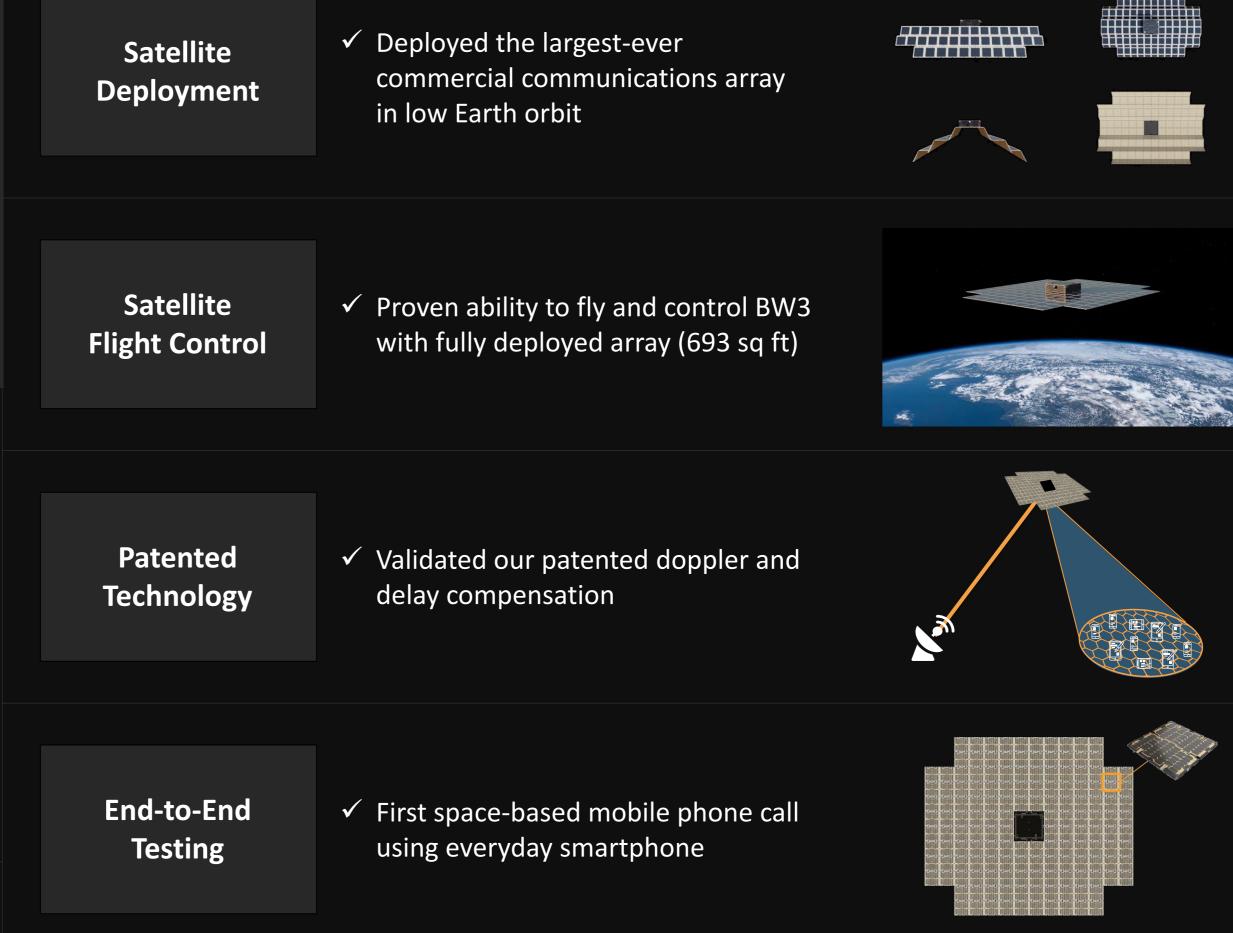


Unfolded – Solar Side



BlueWalker 3 test satellite update

First voice call has been completed, and test results confirm signal strength necessary to reach 4G / 5G cellular broadband speeds





Vertically integrated manufacturing to support rapid constellation build Two locations in Texas with combined 185,000 sq ft and potential capacity to produce up to 6 satellites per month using automated processes

Headquarters





Site 2

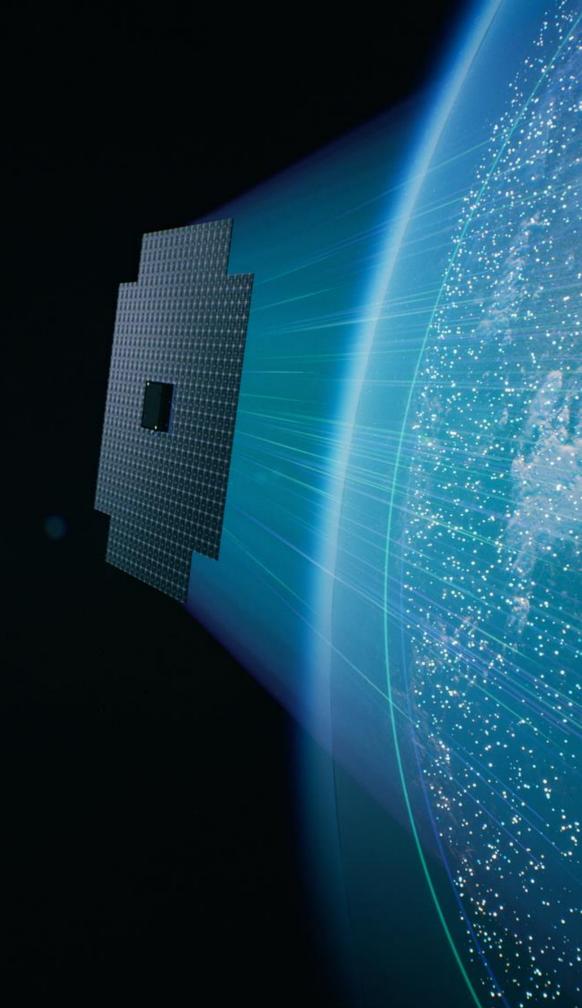




Key future milestones to reach initial spacebased cellular broadband commercial service

- Joint test results of BlueWalker 3 capabilities with MNO customers and technology partners
- Manufacturing and assembly of Block 1 BlueBird satellites at our Texas facilities
- Completion of definitive commercial agreements with initial customers
- Regulatory approvals in key markets
- Finalization of Block 2 BlueBird design, including ASIC tape out
- □ Launch of 5 Block 1 BlueBird satellites
- Initial commercial service using Block 1 satellites





AST SpaceMobile differentiation



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



Novel technology solution applicable to a market of 5.5 billion mobile phones and devices and the related \$1.1+ trillion TAM¹

- 1. AST SpaceMobile market size based on GSMA Intelligence estimate of total cellular wireless market spend. As of December 31, 2022.
- 2. Cash and cash equivalents as of March 31, 2023.



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

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



Approximately \$186 million cash and cash equivalents to fund business operations and initial production satellites²



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Company snapshot

Founder-led leadership and deep team with decades of successful execution

Global Infrastructure



Midland HQ / Manufacturing Facilities

Maryland Satellite Operations and Network Operations Center / Space Assembly Lab Israel RF/Hardware Design

Spain Mechanical Design United Kingdom Manufacturing/ Support

India Research & Development









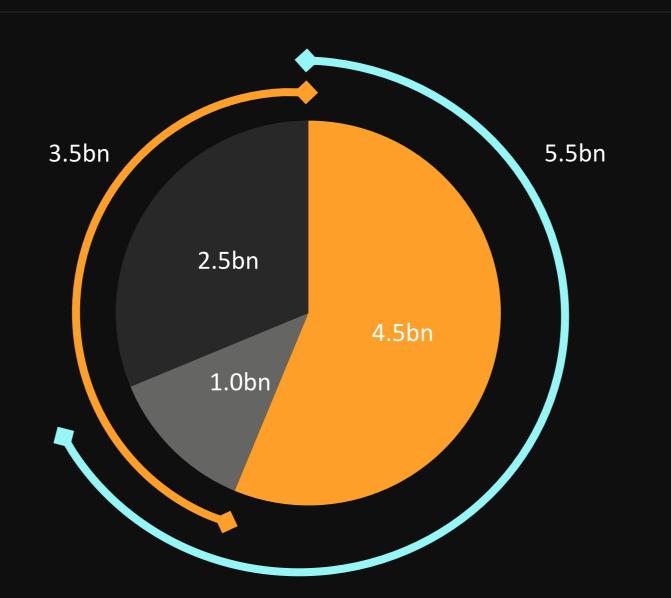


Abel Avellan Chairman and CEO	 25+ years space industry experience Co-inventor of 21 U.S. Patents Former Founder and CEO of EMC (Emerging Markets Comms.) until \$550mm sale in 2016 Provided initial seed capital for AST SpaceMobile
Sean Wallace Chief Financial Officer	 25+ years senior management and banking experience Prior CFO and Treasurer of Cogent Communications Former banking leadership positions at Standard Chartered Bank and J.P. Morgan
Scott Wisniewski Chief Strategy Officer	 15+ years of M&A / financing experience Previously Managing Director, TMT Investment Banking at Barclays Advised AST on its \$110mm Series B in 2019 and the SPAC merger / PIPE financing in 2021
Brian Heller General Counsel and Secretary	 20+ years of public company legal experience Prior General Counsel of Castle Brands Inc. Former Partner practicing Corporate and IP law
Chris Ivory Chief Commercial Officer	 25+ years in satcom, business development and government / regulatory affairs Led Commercial Business Unit as EVP Globecomm Former SVP of Satellite Land Services at EMC
Dr. Huiwen Yao Chief Technology Officer	 30+ years RF engineering + satcom Prior: Northrop Grumman Innovation Systems (Orbital ATK) 40+ GEO satellites built
Dr. Ray Sedwick Chief Space Scientist	 Director, Space Power and Propulsion Lab at University of Maryland NASA Innovative Advanced Concepts Fellow

5.5 billion mobile phones and devices globally

Global wireless services market generates over \$1.1 trillion in annual revenue, with a backdrop of evolving and imperfect networks

Global Population – 8.0 billion



- Cellular subscribers broadband
- Cellular subscribers no broadband
- Not a cellular subscriber

Source: GSMA Intelligence (data as of December 31, 2022).



5.5 billion unique cellular subscribers

move in and out of coverage as they live, work and travel



0.4 billion have no coverage

3.1 billion usage gap

AST SpaceMobile technology solution

Differentiated approach compared to existing space-based communications

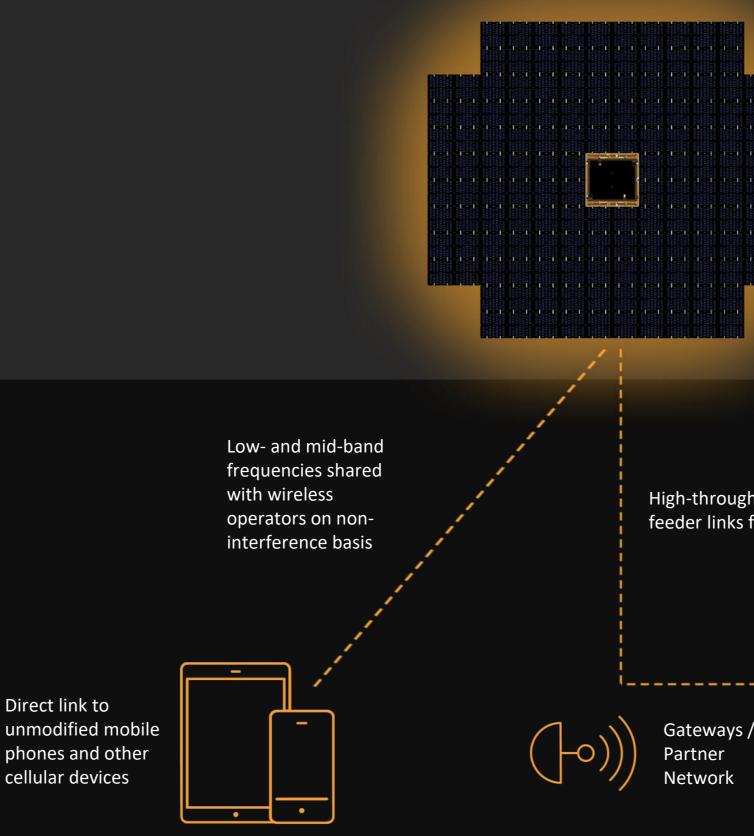
	First & Only Broadband Direct To Mobile Phones	Direct via Proprietary Mobile Phones	Indirect via Complex, Expensive Hardware
	FAST SpaceMobile		
	Any standard mobile phone	Provider-specific satphones (~\$1K)	Provider-specific antennas mounted on planes, ships, vehicles, buildings (~\$1K-\$200K+)
End Users	Mass market mobility and the unconnected	Narrowband service on satphones	Enterprise, Maritime, Aviation, Government, Residential
Market Size ¹	> \$1 trillion	< \$2 billion	< \$20 billion

1. Market size based on the sum of 2020A revenues of included providers, AST SpaceMobile market size based on GSMA estimate of total cellular wireless market spend.



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

SpaceMobile network designed to closely mirror terrestrial cellular architecture







Satellites in low Earth orbit to offer low-latency 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

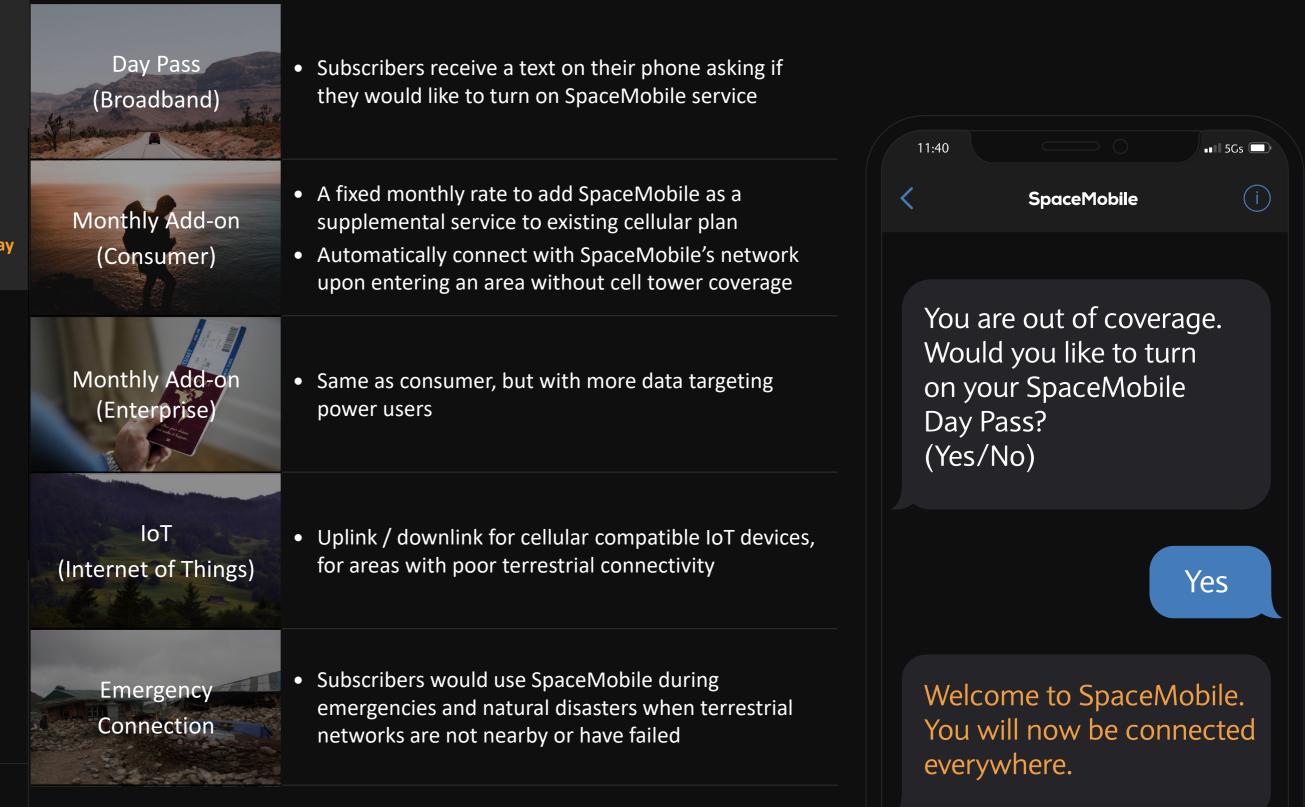


Terrestrial **Telecom Network**

How subscribers are expected to use SpaceMobile

Service designed to be compatible with the 5.5 billion existing mobile phones and devices in use globally today

Significant flexibility in go-to-market strategy, with multiple potential ways for cellular subscribers to access more and better connectivity



19

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Track record of attracting strategic investment

- 1. Representative of \$75 million of gross proceeds from November 2022 follow-on offering, \$13.4 million of net proceeds from committed equity facility ("CEF") as of December 31, 2022 and \$20.0 million of net proceeds from at-the-market offering program as of December 31, 2022.
- 2. On September 6, 2022, AST SpaceMobile completed the sale of its 51% interest in its former subsidiary, NanoAvionika UAB ("Nano") for net proceeds of approximately \$26.6 million

Milestone driven, value-creating financing approach with validation from a high-profile strategic investor base across the wireless ecosystem

Select Investors	Rounds Participated	Investment (\$mm)
Rakuten	2	\$104
Vodafone	2	\$35
American Tower	2	\$31
Cisneros	2	\$12
Bell Canada	1	\$10
Samsung	1	\$1

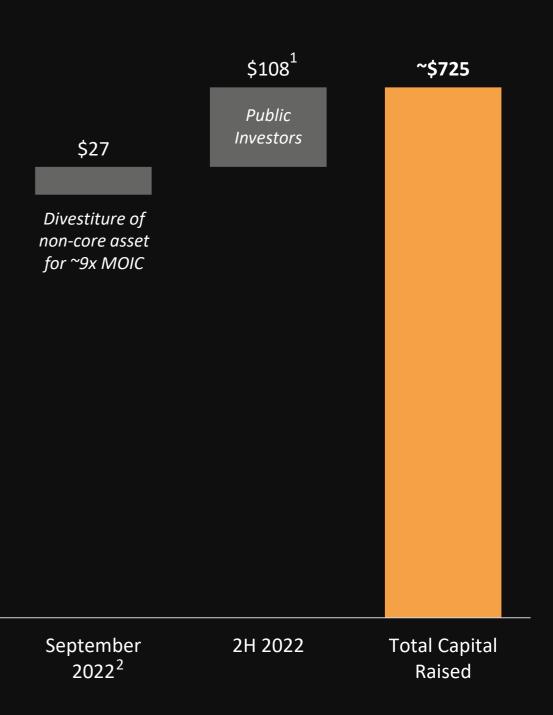
\$462 Rakuten **O** vodafone



Cisneros (Invesat LLC)

Founder, Chairman & CEO, Abel Avellan \$6	Cisneros (Invesat LLC), Latin American Media & Entertainment company \$10	\$110 Rakuten O vodafone SAMSUNG NEXT	+ Public Investors
January	June	2019 -	April
2017	2018	2020	2021







FAST SpaceMobile



