Forward Looking Statements
The information in this presentation and the oral statements made in connection therewith includes “forward-looking statements” for the purposes of federal securities laws that are not historical facts and involve risks and uncertainties that could cause actual results to differ materially from those expected and projected. All statements, other than statements of historical fact in this presentation and the oral statements made in connection therewith regarding AST SpaceMobile, Inc.’s, collectively with its subsidiaries (“SpaceMobile” or the “Company”), financial position, business strategy and the plans and objectives of management for future operations, are forward-looking statements. Words such as “expect,” “believe,” “anticipate,” “intend,” “estimate,” “seek” and variations and similar words and expressions are intended to identify such forward-looking statements. Such forward-looking statements relate to future events or future performance, but reflect management’s current beliefs, based on information currently available. A number of factors could cause actual events, performance or results to differ materially from the events, performance and results discussed in the forward-looking statements. For information identifying important factors that could cause actual results to differ materially from those anticipated in the forward-looking statements, please refer to the Risk Factors contained in AST SpaceMobile’s Annual Report on Form 10-K, filed with the SEC on March 31, 2022. The Company’s securities filings can be accessed on the EDGAR section of the SEC’s website at www.sec.gov. Except as expressly required by applicable securities law, the Company disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.

Use of Non-GAAP Financial Measures
Adjusted operating expense is an alternative financial measure used by management to evaluate our operating performance as a supplement to our most directly comparable U.S. GAAP financial measure. We define Adjusted operating expense as Total operating expenses adjusted to exclude amounts of stock-based compensation expense and depreciation and amortization expense. We believe Adjusted operating expenses is a useful measure across time in evaluating the Company’s operating performance as we use Adjusted operating expenses to manage the business, including in preparing our annual operating budget and financial projections. Adjusted operating expense is a non-GAAP financial measure that has no standardized meaning prescribed by U.S. GAAP, and therefore has limits in its usefulness to investors. Because of the non-standardized definition, it may not be comparable to the calculation of similar measures of other companies and are presented solely to provide investors with useful information to more fully understand how management assesses performance. This measure is not, and should not be viewed as, a substitute for its most directly comparable GAAP measure of Total operating expenses.

Industry and Market Data
This presentation includes market data and other statistical information from sources believed to be reliable, including independent industry publications, governmental publications or other published independent sources. Although AST SpaceMobile believes these sources are reliable, we have not independently verified the information and cannot guarantee its accuracy and completeness.

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SpaceMobile will connect directly to mobile phones

Building the first and only space-based cellular broadband network

Giant total addressable market
Global wireless services market generates over $1.1 trillion in annual revenue via 5.3 billion mobile phones and devices

Revolutionary tech, over 2,400 patent & patent-pending claims and first-mover advantage
Technology designed to deliver broadband from space to unmodified mobile devices, providing a one-of-a-kind service to fill cellular coverage gaps

Industry-leading strategic partners
Investment, development and commercial relationships with Vodafone, American Tower, Rakuten and others

Built-in customer base ready to be turned on
When operational, SpaceMobile service will be available to our MNO customers, a growing list of leading companies that have over 1.8 billion existing subscribers

Flexible, scalable, super-wholesale business model
The SpaceMobile network is designed to provide easy sign-up for existing MNO subscribers under revenue share agreements

Source: GSMA Intelligence (data as of 12/31/2021).
1. Metric defined as number of subscribers represented by mobile network operators who have agreements and understandings with AST SpaceMobile as of 3/31/2022.
2. As of 8/15/2022.
**AST SpaceMobile technology solution**

Differentiated approach compared to existing space-based communications

<table>
<thead>
<tr>
<th>First &amp; Only Broadband Direct To Mobile Phones</th>
<th>Direct via Proprietary Mobile Phones</th>
<th>Indirect via Complex, Expensive Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Phone" /></td>
<td><img src="image" alt="Satphone" /></td>
<td><img src="image" alt="Antenna" /></td>
</tr>
</tbody>
</table>

**End Users**

- **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 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.
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
Lithuania Prototyping/Support
United Kingdom Manufacturing/Support

Abel Avellan
Chairman and CEO

• 25+ years space industry experience
• Co-Inventor of 18 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

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Manufacturing and assembly, integration & testing

Two locations in Midland, Texas with combined 185,000 sq ft with potential capacity to produce up to 6 satellites per month
The Market
Market opportunity

Significant opportunity to change the lives of billions of people around the globe

Source: GSMA market data as of 12/31/2021.

AST SpaceMobile

Designed to eliminate coverage gaps and enable billions of people globally to stay connected through their mobile phones

$1.1 Trillion+
global mobile wireless services market

5.3 Billion
mobile phones and devices moving in and out of coverage

~50%
global population without cellular broadband
Global wireless services market generates over $1.1 trillion in annual revenue, with a backdrop of evolving and imperfect networks.

Global Population – 7.9 billion

- 5.3 billion unique cellular subscribers
  - Move in and out of coverage as they live, work and travel

- 3.7 billion not subscribed to cellular broadband
  - 0.5 billion have no coverage
  - 3.2 billion usage gap

Source: GSMA Intelligence (data as of 12/31/2021).

5.3 billion mobile phones and devices globally

- 5.3 billion
  - Unique cellular subscribers

- 2.6 billion
  - Cellular subscribers - broadband

- 2.6 billion
  - Cellular subscribers - no broadband

- 1.1 billion
  - Not a cellular subscriber

- 3.7 billion
  - Mobile phones and devices globally

- 3.7 billion
  - Not subscribed to cellular broadband

- 1.2 billion
  - Mobile phones and devices globally

4.2 billion

- 4.2 billion
  - Not subscribed to cellular broadband

1.1 billion

- 1.1 billion
  - Not a cellular subscriber

5.3 billion

- 5.3 billion
  - Unique cellular subscribers

3.7 billion

- 3.7 billion
  - Unique cellular subscribers

Cellular subscribers - broadband

Cellular subscribers - no broadband

Not a cellular subscriber

9

ast-science.com
Everyone connected all the time
How subscribers are expected to use SpaceMobile

<table>
<thead>
<tr>
<th>Plan</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day Pass (Ad-Hoc)</td>
<td>Subscribers receive a text on their phone asking if they would like to turn on SpaceMobile service</td>
</tr>
<tr>
<td>Monthly Add-on (Consumer)</td>
<td>A fixed monthly rate to add SpaceMobile as a supplemental service to existing cellular plan</td>
</tr>
<tr>
<td></td>
<td>Automatically connect with SpaceMobile’s network upon entering an area without cell tower coverage</td>
</tr>
<tr>
<td>Monthly Add-on (Enterprise)</td>
<td>Same as consumer, but with more data targeting power users</td>
</tr>
<tr>
<td>Standalone Plan (Unconnected Subs)</td>
<td>In areas without reliable cellular coverage today, subscribers would use and pay for SpaceMobile as their primary network</td>
</tr>
<tr>
<td></td>
<td>Incumbent wireless companies would sell phones and market service</td>
</tr>
<tr>
<td>Emergency Connection</td>
<td>Subscribers would use SpaceMobile during emergencies and natural disasters when terrestrial networks have failed</td>
</tr>
</tbody>
</table>

Service designed to be compatible with the 5.3 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

You are out of coverage. Would you like to turn on your SpaceMobile Day Pass? (Yes/No)

Welcome to SpaceMobile. You will now be connected everywhere.
Critical MNO relationships

When operational, SpaceMobile service will be available to our MNO customers, a growing list of leading companies that have over 1.8 billion existing subscribers.

Source: GSMA Intelligence (data as of 12/31/2021).
1. Metric defined as number of subscribers represented by mobile network operators who have agreements and understandings with AST SpaceMobile as of 8/15/2022.

- Leverages existing 5.3 billion mobile phones and devices
- Strategic relationship with Vodafone
- Super-wholesale revenue share model
- Drives new MNO revenue and reduced churn
- Direct-to-phone native cellular architecture
- Easy sign-up for cellular subscribers
The Technology
Technology highlights

With 2,400+ patent and patent-pending claims (as of 8/15/2022), AST SpaceMobile's technology is designed to provide global broadband service directly to unmodified mobile phones.

Patented
- Ultra-powerful satellites leveraging existing technologies
- 2G/3G/4G LTE/5G & NB-IoT connectivity
- No modifications to standard mobile phones or IoT devices

Seamless
- Automatic roaming from land networks to space

Everywhere
- Worldwide 4G/5G speeds on land, at sea and in flight
Satellite-to-cellular architecture

SpaceMobile network designed to closely mirror terrestrial cellular architecture

- Satellites in low Earth orbit offer low-latency and attractive look angles
- Large satellites designed to create over 1 million fixed terrestrial cells globally with broadband capacity
- Low- and mid-band frequencies shared with wireless customers on non-interference basis
- High-throughput Q/V-band feeder links for backhaul
- Direct link to unmodified mobile phones and other cellular devices
- Gateways / Partner Network
- Terrestrial Telecom Network
Technology and industrialization update

- Fully-assembled BlueWalker 3 (BW3) test satellite delivered to Cape Canaveral, FL
- Upcoming planned launch, with a launch window for early to mid-September
- The next five satellites are in initial phase of component construction, with design based on similar technology to BW3, including FPGA, reaction wheels and antennas, with launch planned in late 2023
- Commercial agreements in place with suppliers for most components of the next five Block 1 BlueBird satellites and next generation satellites
- Construction of the extension production facility (Site 2) in Texas is on schedule
BlueWalker 3 in-orbit plan

- Size: 693 square-foot phased array
- We believe BW3 will be one of the largest phased array antenna deployed into low Earth orbit
- Target Altitude: low Earth orbit
- Target Orbit: 53 degrees inclined
- Expected Speed: ~25,000 km/h (~17,000 mph)
- Expected to circle the Earth every ~90 minutes
# BlueWalker 3 launch and testing timeline

<table>
<thead>
<tr>
<th>Path to launch and BW3 in-orbit operations roadmap</th>
</tr>
</thead>
</table>

## BW3 Launch Milestones

<table>
<thead>
<tr>
<th>July 19</th>
<th>August 9</th>
<th>T: Early to Mid Sep</th>
<th>T+2 Months</th>
<th>T+6 Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Transported BW3 to California for testing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Successfully completed environmental testing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Transported BW3 to Cape Canaveral, FL for final preparations and continuation of testing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Planned launch window on Falcon 9 Launch Vehicle from Cape Canaveral, FL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• BW3 placed into orbit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Initial in-orbit testing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Unfold phased array</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Deploy QV antennas</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Cellular broadband direct-to-cell phone testing on standard handsets, in cooperation with participating MNOs on six continents</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Testing with our BW3 satellite to be conducted utilizing Nokia and Rakuten commercial MNO infrastructure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[Image of satellite being transported]
Continued business momentum

Added three new operators
new memoranda of understanding signed with additional operators, including Smartfren Telecom (Indonesia)

More than 1.8 billion subscribers
represented by mobile network operators with whom we have agreements and understandings

Increase to more than 2,400 patent and patent-pending claims
supports strong and expanding competitive advantage

Agreement to sell majority ownership stake in NanoAvionika UAB
at enterprise valuation of €65 million, and the Company expects to receive approximately $27 million in net proceeds at closing

4G LTE/5G technology agreement with Nokia
for the integration of Nokia’s AirScale System, which is planned to be offered as part of SpaceMobile’s MNO infrastructure

Source: GSMA Intelligence (data as of 12/31/2021).
1. Since last business update provided on May 16, 2022.
2. Metric defined as number of subscribers represented by mobile network operators who have agreements and understandings with AST SpaceMobile as of August 15, 2022.
3. As of August 15, 2022, compared to more than 2,300 as of May 16, 2022.
4. Expected to close in the third quarter of 2022, subject to customary closing conditions including any required regulatory reviews. Reflects current estimate of net proceeds. Actual proceeds subject to fluctuation in the EUR / USD currency exchange rate and final closing balance sheet accounts.
Second quarter 2022 financial metrics

1. See the next slide for a reconciliation. Adjusted operating expenses is equal to total operating expense less non-cash operating expense such as depreciation and amortization and stock based-compensation expense. Depreciation and amortization for the three months ended June 30, 2022 and March 31, 2022 was $1.2 million and $1.1 million, respectively. Stock-based compensation for the three months ended June 30, 2022 and March 31, 2022 consisted of $1.0 million and $1.3 million of engineering services expense and $1.5 million and $1.0 million of general and administrative costs, respectively.

2. Cumulative as of date specified. Net of depreciation and amortization.

---

### Adj. Operating Expenses

<table>
<thead>
<tr>
<th></th>
<th>Q1 2022</th>
<th>Q2 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research and development costs</td>
<td>$10.7</td>
<td>$11.0</td>
</tr>
<tr>
<td>General and administrative costs</td>
<td>$8.3</td>
<td>$9.1</td>
</tr>
<tr>
<td>Engineering services</td>
<td>$10.4</td>
<td>$11.6</td>
</tr>
</tbody>
</table>

### Capital Expenditures

<table>
<thead>
<tr>
<th></th>
<th>As of 3/31/2022</th>
<th>+$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property and equipment</td>
<td>$114.9</td>
<td>$9.4</td>
</tr>
<tr>
<td>BlueWalker 3 Satellite - construction in process</td>
<td>$92.7</td>
<td>$3.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>As of 6/30/2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property and equipment</td>
<td>$124.3</td>
</tr>
<tr>
<td>BlueWalker 3 Satellite - construction in process</td>
<td>$86.6</td>
</tr>
</tbody>
</table>

### Liquidity

<table>
<thead>
<tr>
<th></th>
<th>Q1 2022</th>
<th>Q2 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Position</td>
<td>$253.7</td>
<td>$202.4</td>
</tr>
</tbody>
</table>
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 5.3 billion mobile phones and devices and the related $1.1 trillion+ TAM

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

Revenue share business model designed to allow users to sign up with a simple text message

Approximately $202 million cash and cash equivalents to fund business operations and initial production satellites

1. AST SpaceMobile market size based on GSMA Intelligence estimate of total cellular wireless market spend. As of 12/31/2021.
Following the Business Combination with NPA on April 6, 2021, the Company was organized as an umbrella partnership-C corporation ("Up-C") structure. As a result of the Up-C structure, the Company is a holding company and, accordingly, all the business of AST is held directly by AST LLC, of which we are the managing member.

The Class B and C common stockholders own economic interests in AST LLC which are redeemable into either shares of Class A common stock on a one-for-one basis or cash at the option of the Election Redemption Committee. See AST's Quarterly Report on Form 10-Q, filed with the SEC on August 15, 2022, for additional detail.

Mr. Avellan has historically asked not to be paid any base salary in excess of applicable minimum wage requirements under federal law and, as such, has received substantially below-market base salary. Effective as of the completion of the Business Combination, Mr. Avellan is not receiving any base salary from the Company.

Includes 11.3 million AST LLC 2019 Incentive Equity Options. Except as otherwise provided by the AST Board of Directors, each AST Incentive Equity Unit will be redeemable for one share of Class A Common Stock on the later of April 6, 2023 and the six-month anniversary of the vesting date.

Basic shares count as of 8/5/2022. Warrants, incentive equity options, and RSUs as of 6/30/2022.

<table>
<thead>
<tr>
<th>Shares 5</th>
<th>millions</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A common stock</td>
<td>53.2</td>
<td>Publicly-traded shares</td>
</tr>
<tr>
<td>Class B common stock 1,2</td>
<td>51.6</td>
<td>Series A / B shares</td>
</tr>
<tr>
<td>Class C common stock 1,2</td>
<td>78.2</td>
<td>Abel Avellan 3 shares</td>
</tr>
<tr>
<td>Total basic shares</td>
<td>183.0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other 5</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public warrants</td>
<td>11.5</td>
<td>$11.50 exercise price</td>
</tr>
<tr>
<td>Sponsor warrants</td>
<td>6.1</td>
<td>$11.50 exercise price</td>
</tr>
<tr>
<td>Incentive equity 4 / stock options and RSUs</td>
<td>16.2</td>
<td>Management grants outstanding as of 6/30/2022</td>
</tr>
</tbody>
</table>
Reconciliation to non-GAAP measures – adj. operating expenses

### Adj. operating expenses – 3 months ended

<table>
<thead>
<tr>
<th>($) in thousands</th>
<th>June 30, ’22</th>
<th>Mar 31, ’22</th>
<th>June 30, ’21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering services</td>
<td>11,999</td>
<td>11,717</td>
<td>5,784</td>
</tr>
<tr>
<td>General and administrative costs</td>
<td>13,075</td>
<td>11,643</td>
<td>9,157</td>
</tr>
<tr>
<td>Research and development costs</td>
<td>9,145</td>
<td>8,281</td>
<td>9,589</td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>1,185</td>
<td>1,100</td>
<td>567</td>
</tr>
<tr>
<td><strong>Total operating expenses</strong></td>
<td><strong>35,404</strong></td>
<td><strong>32,741</strong></td>
<td><strong>25,097</strong></td>
</tr>
<tr>
<td>Less: Depreciation and amortization</td>
<td>(1,185)</td>
<td>(1,100)</td>
<td>(567)</td>
</tr>
<tr>
<td>Less: Stock-based Compensation Expense</td>
<td>(2,440)</td>
<td>(2,255)</td>
<td>(242)</td>
</tr>
<tr>
<td><strong>Total adj. operating expenses</strong></td>
<td><strong>31,779</strong></td>
<td><strong>29,386</strong></td>
<td><strong>24,288</strong></td>
</tr>
</tbody>
</table>

### Adj. operating expenses – 6 months ended

<table>
<thead>
<tr>
<th>($) in thousands</th>
<th>June 30, ’22</th>
<th>June 30, ’21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering services</td>
<td>23,716</td>
<td>10,731</td>
</tr>
<tr>
<td>General and administrative costs</td>
<td>24,718</td>
<td>14,693</td>
</tr>
<tr>
<td>Research and development costs</td>
<td>17,426</td>
<td>10,603</td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>2,285</td>
<td>1,182</td>
</tr>
<tr>
<td><strong>Total operating expenses</strong></td>
<td><strong>68,145</strong></td>
<td><strong>37,209</strong></td>
</tr>
<tr>
<td>Less: Depreciation and amortization</td>
<td>(2,285)</td>
<td>(1,182)</td>
</tr>
<tr>
<td>Less: Stock-based Compensation Expense</td>
<td>(4,695)</td>
<td>(598)</td>
</tr>
<tr>
<td><strong>Total adj. operating expenses</strong></td>
<td><strong>61,165</strong></td>
<td><strong>35,429</strong></td>
</tr>
</tbody>
</table>

1. Stock-based compensation for the three months ended June 30, 2022, March 31, 2022, and June 30, 2021 consisted of $1.0 million, $1.3, and $0.2 million of engineering services expense and $1.5 million, $1.0, and $0.0 million of general and administrative costs, respectively.

2. Stock-based compensation for the six months ended June 30, 2022 and 2021 consisted of $2.3 million and $0.5 million of engineering services expense and $2.4 million and $0.1 million of general and administrative costs, respectively.