
NEXTNAV
Welcome to
NextGen PNT

Disclaimer

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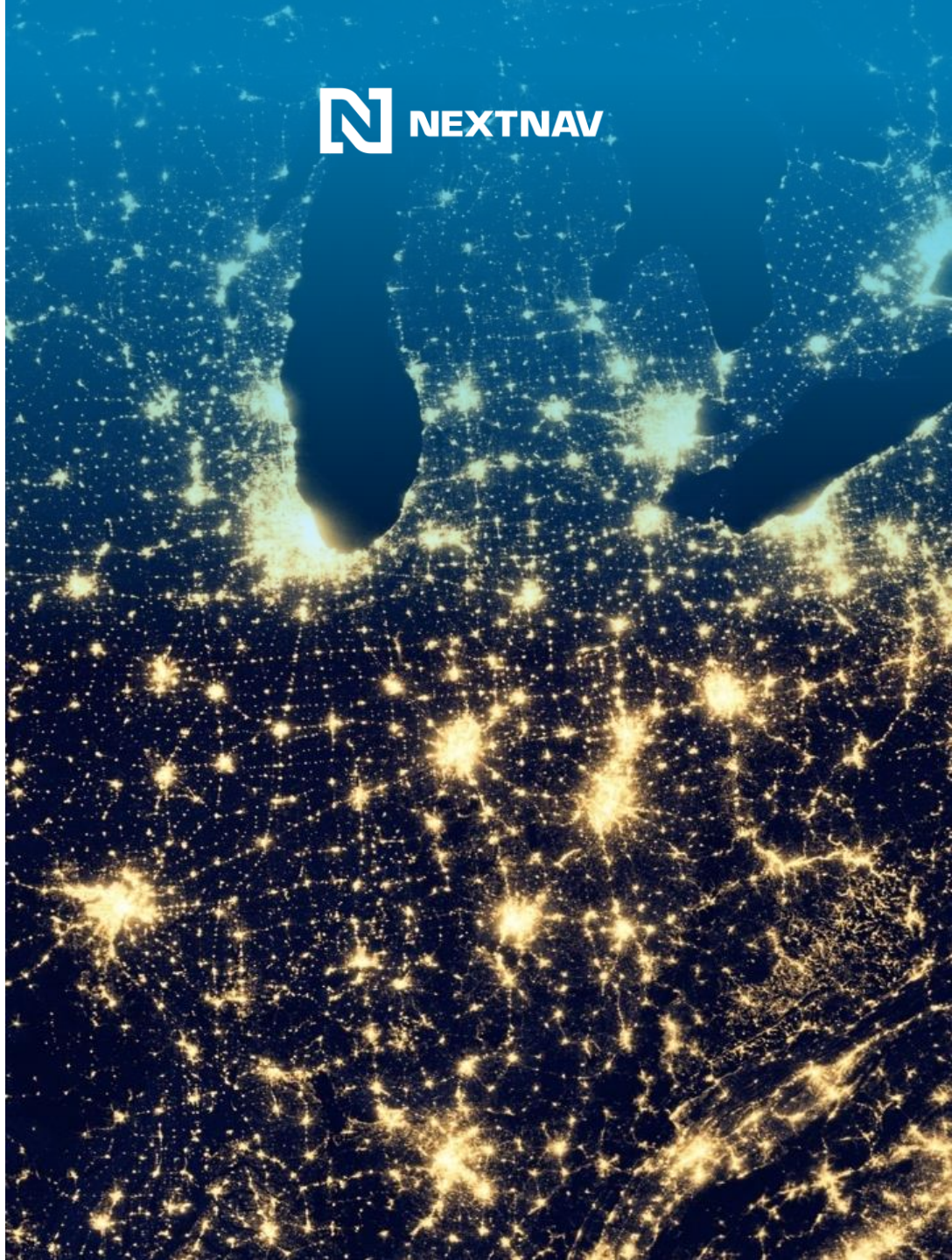
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NextGen PNT Vision

PNT Network Based on 5G NR and Aligned with 3GPP Global Standards

Leverages Spectrum Asset in the Lower 900 MHz band

Goal is Single Digit Positioning Accuracy Everywhere Including Indoors and Urban Areas

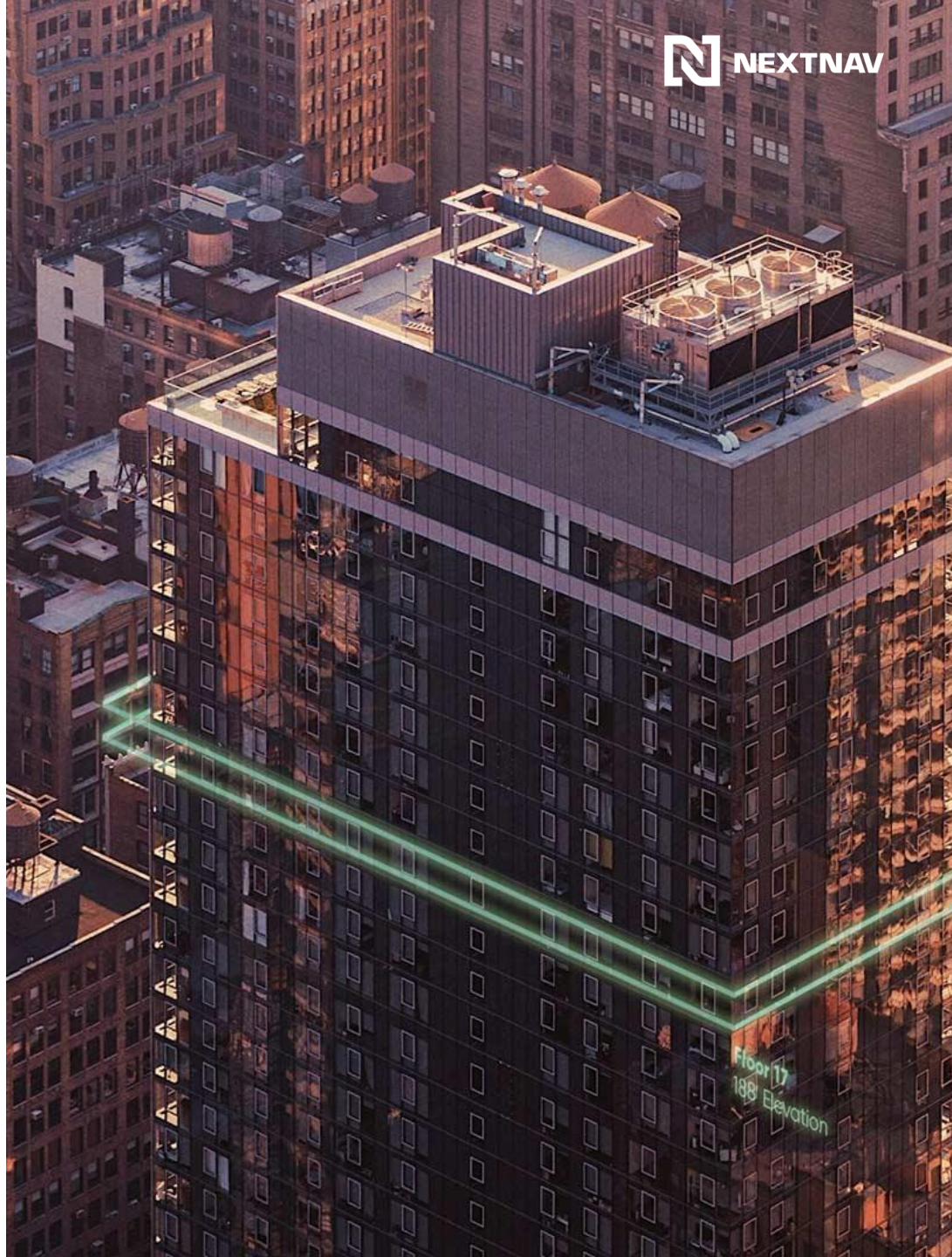


Need for a Terrestrial GPS Complement and Backup is Increasingly Urgent

- GPS provides PNT services, on which the United States relies for telecommunications, power grids, financial transactions, maps and more.

- But, satellite-based systems, like GPS, have coverage limitations indoors and in urban canyons with weak signal strength.

- As a space-based service, GPS is vulnerable to spoofing and jamming by rogue actors and state actors, as well as natural phenomena like solar flares.



Summary of NextNav's Proposal

Current Situation

- Consensus that the U.S. needs a terrestrial backup and complement to GPS for positioning, navigation, and timing (PNT)
  - GPS, and other space-based PNT systems, have coverage limitations indoors, in urban canyons, etc.
- Consensus that the U.S. needs more commercial spectrum for 5G
- NextNav has:
  - Developed a distinctive, terrestrial PNT product that delivers accurate 3D-positioning and timing based on 3GPP 5G NR standards
  - Acquired all the commercially-available licensed spectrum in the "Lower 900 MHz" band (902-928 MHz), including the proposed acquisition announced 3/11/24

Challenges

- The economics of an at-scale, standalone terrestrial PNT network do not work
  - GPS is free, limiting revenue potential for alternatives
  - Driving adoption into user devices is difficult if PNT-specific protocols are used
  - A federally funded GPS backup is unlikely, despite increasing acknowledgment of vulnerability of U.S. economic and national security interests
- Current spectrum pipeline is mostly empty

NN's Proposed Solution Addresses Challenges

✓ NextNav has asked the FCC to update the Lower 900 MHz band plan and rules, and swap NN's current holdings to make 15 MHz available nationwide, which can be used for 5G broadband and PNT

✓ A swap is in the public interest – as well as putting the Lower 900 MHz band to better use – wherever the spectrum is built out for 5G NextNav will commit to enabling a terrestrial PNT service that can be part of the nation's "system of systems" complement and backup to GPS

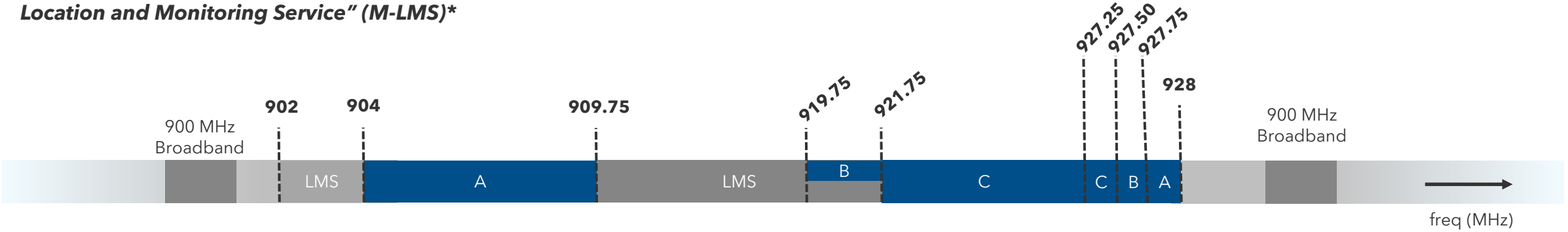
- NextNav's expertise and PNT solutions will be the catalyst
- NextNav will also ensure coexistence with licensed incumbent operations

✓ NextNav will partner with network providers that would be interested in commercial deployment of the Lower 900 MHz band for 5G broadband



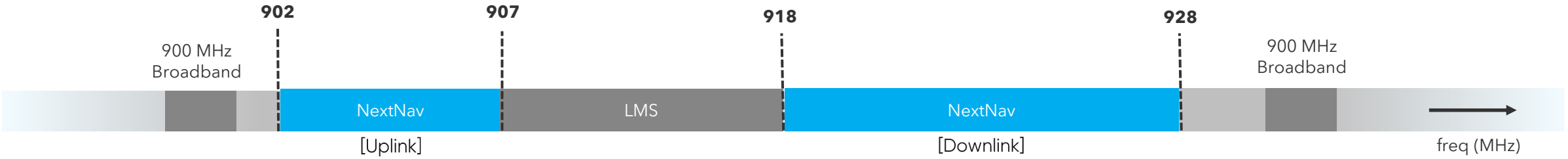
Overview of NextNav's Rebanding Proposal

Current Band Plan: 14 MHz in 3 blocks (A, B, C) per EA for "Multilateration Location and Monitoring Service" (M-LMS)*

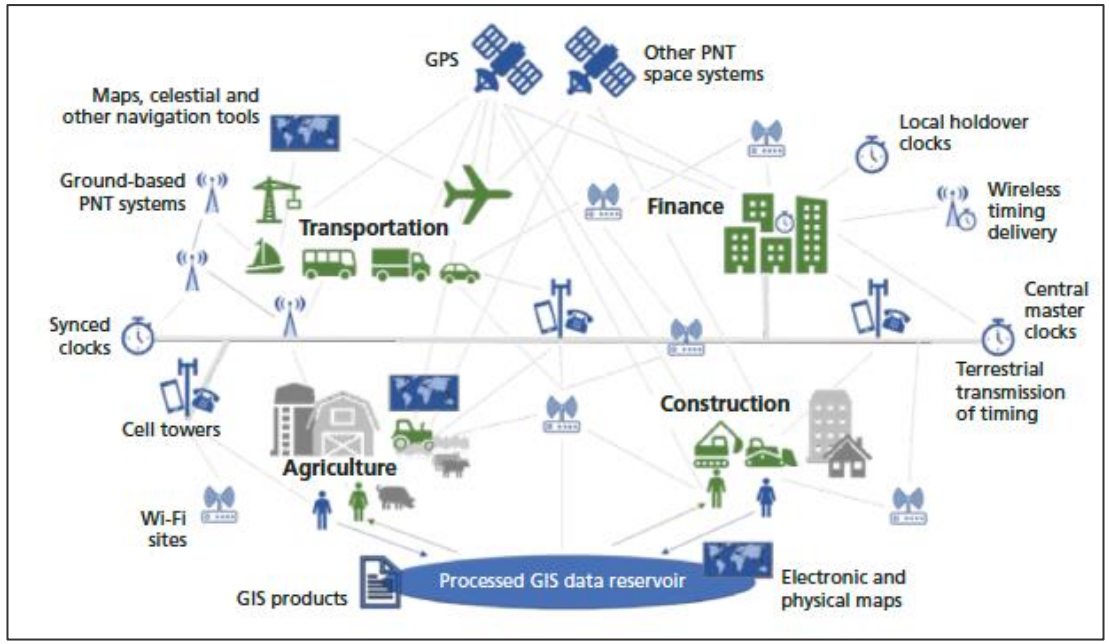


**NextNav's existing spectrum positions are in the A, B and C blocks of the 900 MHz Band*

Proposed New Band Plan: Rationalized and updated to create paired 5+10 MHz block suitable for PNT and 5G services

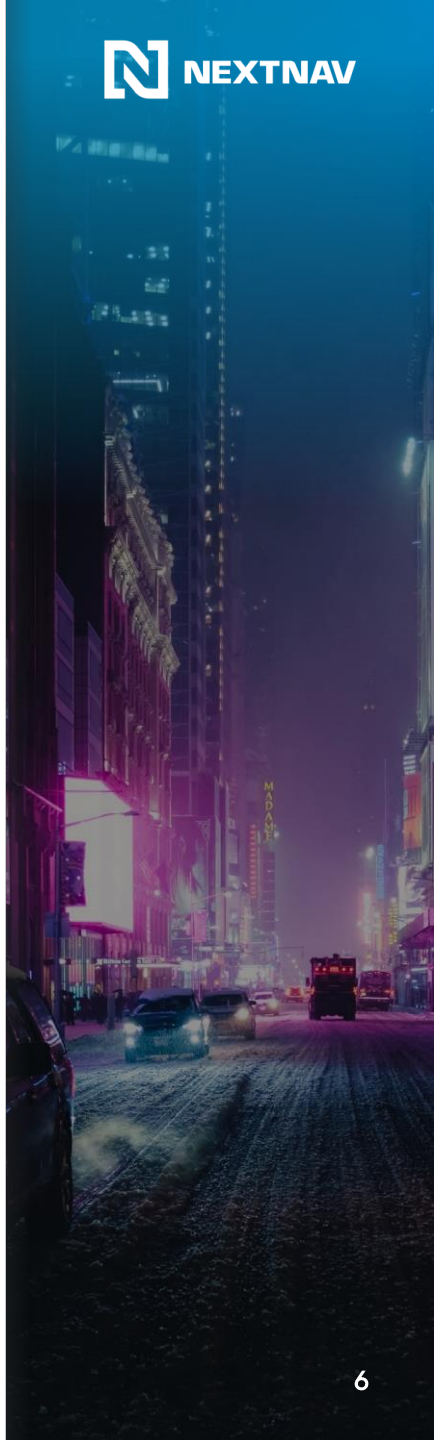


Use Cases Illustrate Need for Terrestrial GPS Complement and Backup

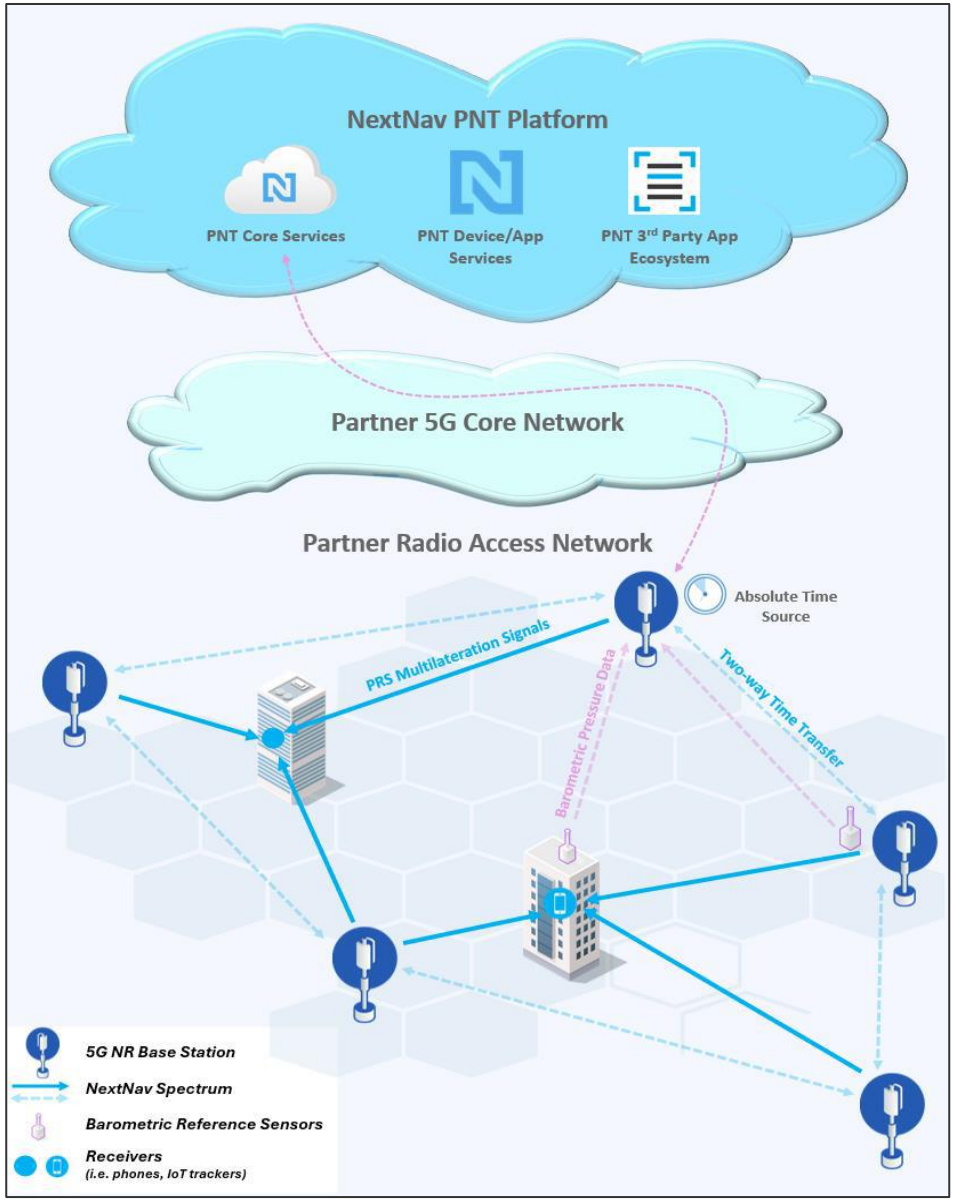


	Government	Commercial
Positioning	• E911 caller position • Smart city asset tracking • Military asset tracking	• Logistics and transport tracking • Enterprise asset tracking • Lone worker and worker safety tracking • Consumer tracking tags
Navigation	• First responder situational awareness and navigation • Warfighter situational awareness and navigation	• Consumer smartphones and wearable navigation and tracking applications
Timing	• Land-mobile radio base station synchronization for public safety jurisdictions • Electric substation synchronization for utilities and smart grids	• 5G core and radio-access network, including small cells, synchronization • Data center synchronization and timestamping for banks and enterprise

Source: Homeland Security Operational Analysis Center (2021)

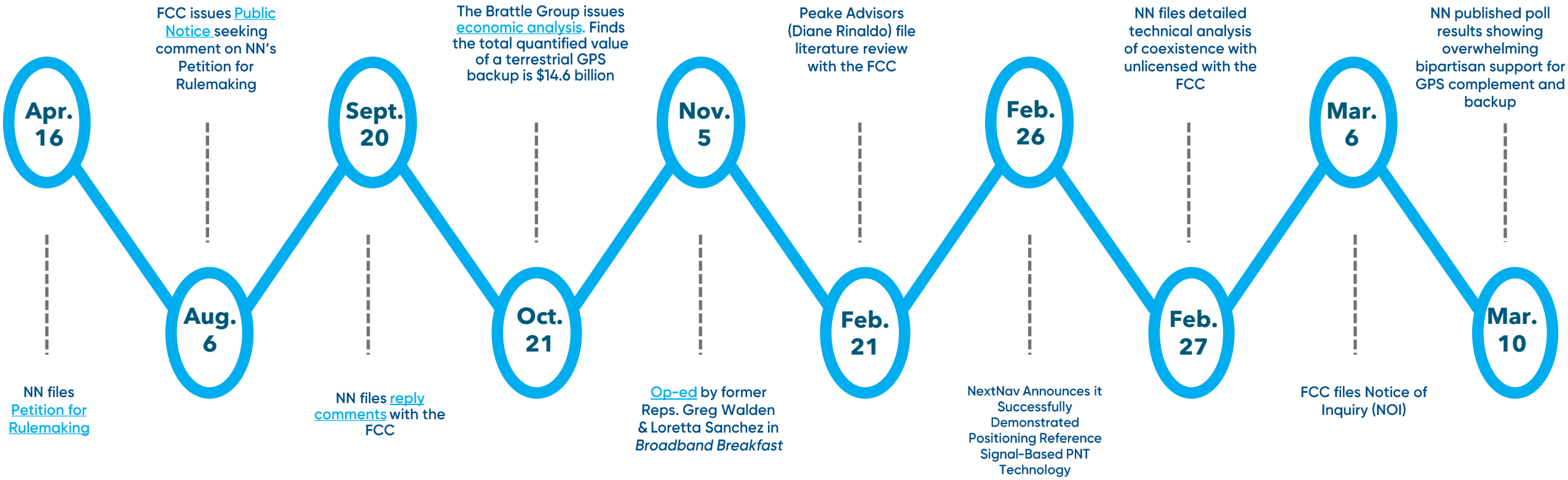


Overview of NextNav's 5G PNT Network Architecture



- NextGen PNT network:
  - NextNav's PNT network will be seamlessly and efficiently integrated into a 5G network
    - -Capable of leveraging partners' 5G network facilities (e.g., towers, backhaul, and core network)
    - -Topology that resembles other 5G networks, facilitating partnerships with existing providers and permitting NextNav to leverage the providers' existing deployments

NextNav's FCC Petition for Rule Making

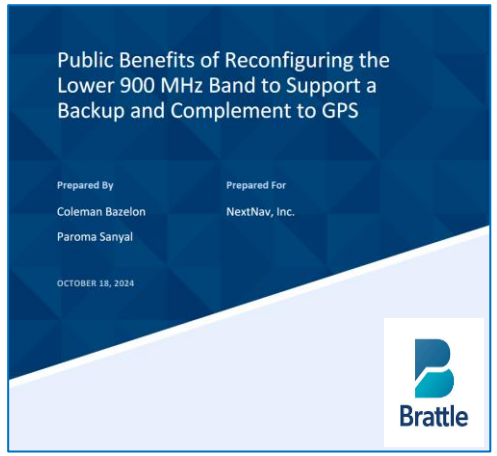


[1] Federal Communications Commission
[2] Apr. 16 to Nov. 5 are 2024 dates. Feb through March are 2025 dates.

The Brattle Group Issues Economic Report

*Report finds total quantified value of having a terrestrial backup to GPS is **$14.6 billion***

Estimate of potential U.S. economic loss for a GPS outage:		Adopting NextNav's proposal could prevent an economic loss of:
1 Day Outage:	$1.6 B	→ $663 M
7 Day Outage:	$12.2 B	→ $6.0 B
30 Day Outage:	$58.2 B	→ $31.9 B



- Adopting NextNav's proposal to reconfigure the Lower 900 MHz offers the US economy a $10.8 billion insurance policy to protect against GPS outages without taxpayer funding, plus additional benefits of $3.8 billion from increased resiliency.
- Based on The Brattle Group report, the total quantified value of having a GPS backup is $14.6 billion



Source: The Brattle Group. *Public Benefits of Reconfiguring the Lower 900 MHz Band to Support a Backup and Complement to GPS.* (October 21, 2024).

Robust Balance Sheet

Liquidity to Support Continued Growth

- Finished fourth quarter with $80.1 MM in cash, cash equivalents and marketable securities
- Embedded potential liquidity in balance sheet continued to be realized
  - $3.5 MM in proceeds from the exercise of additional warrants in the fourth quarter*
- No meaningful NextNav CAPEX plans tied to NextGen PNT solution
  - NextNav intends to partner with existing network operators for commercial deployment of 5G network

*Warrants were issued in conjunction with the Company's debt financing



Experienced Leadership Team



Mariam Sorond
Chief Executive Officer

28+ years of experience

- Led transformational change across mobile, wireless, fixed and satellite networks
- Extensive spectrum expertise

Previous roles:

dish
CableLabs
vmware



Chris Gates
Chief Financial Officer

20+ years of experience

- Deep financial expertise
- Background includes range of telecom and technology ventures after an early career in finance

Previous roles:

SKYTERRA COMMUNICATIONS
CHASE



Arun Raghupathy
Chief Technology Officer

25+ years of experience

- Key contributor to design of TerraPoiNT and Pinnacle services at NextNav
- Deep experience developing innovative concepts and maturing them into commercial products

Previous roles:

Qualcomm
Texas Instruments



Dr. Sanyogita Shamsunder
Chief Innovation Officer

20+ years of experience

- Deep expertise leveraging technology and innovation to scale growth
- Launched first 4G devices and led various spectrum initiatives in collaboration with government and industry groups

Previous roles:

verizon
Google
Meeami Technologies



Jim Black
General Counsel

20+ years of experience

- Extensive in-house experience advising highly regulated, publicly traded companies

Previous roles:

Osiris
NG



John Kim
Senior VP of Technology Development

20+ years of experience

- Extensive technology and management experience in wireless, wireline and cable industries
- Translates broad business, technical and strategic requirements into a set of actionable plans and executions

Previous roles:

vmware
CableLabs
dish



Renee Gregory
VP of Regulatory Affairs

20+ years of experience

- Deep expertise in public policy and spectrum
- Senior Policy Advisor for the White House Office of Science and Technology Policy and held key advisory roles at both the NTIA, and the FCC

Previous roles:

Google
NTIA
Federal Communications Commission



Susan Insley
Chief Operating Officer

25+ years of experience

- Extensive experience as a seasoned business executive, having worked in finance, internal audit and human resources in the technology industry

Previous roles:

vmware
intel
VERISIGN

Investment Highlights

- **Next Generation PNT solution** based on 5G
- **Valuable Spectrum Asset** with ideal propagation characteristics to power PNT and broadband
- **Robust Balance Sheet** with ample liquidity to fund operations
- **Leading Customers & Partners,** including AT&T, Verizon and NASA
- **World Class Management, Board, and Shareholders** with leaders in wireless and location services





Next Generation PNT