



Airspan Network Densification Solutions



British Columbia
Broadband Association

April 2019

VANCOUVER





Airspan

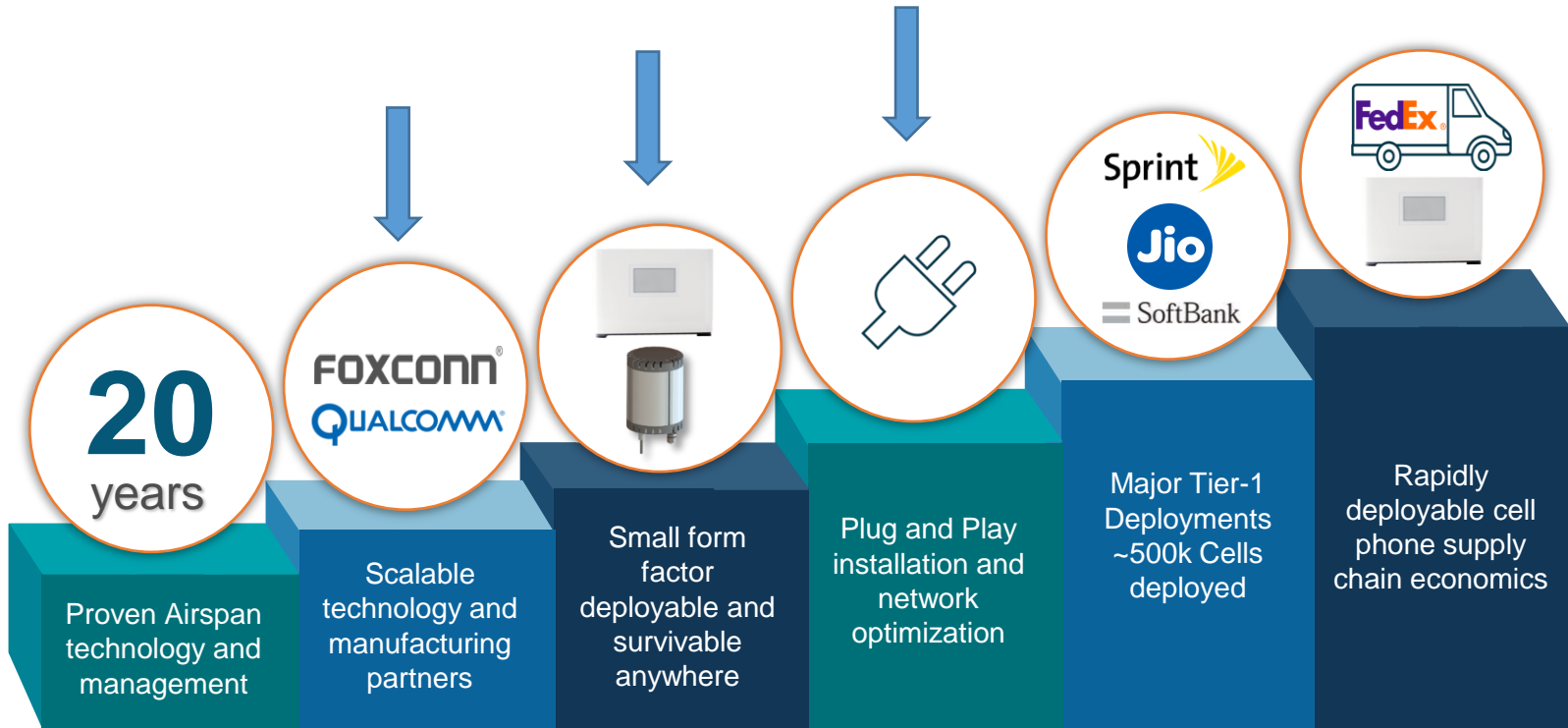
Our Company







What is Airspan's Differentiators



and Growing

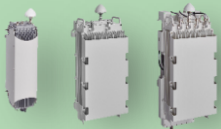
~500K Small Cells Shipped Globally





Airspan Wireless Solutions

Compact Macro, Micro



AirHarmony

Compact Pico



AirSpeed, AirStrand, AirSynergy

Indoor



*AirVelocity/
AirDensity/
AirUnity*

Wireless Backhaul

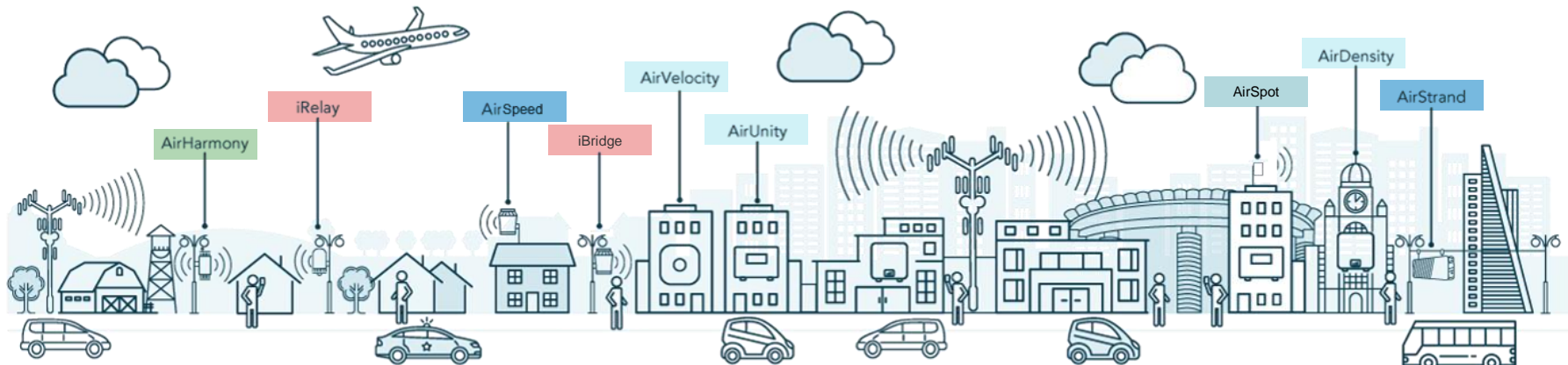


*iRelay/iBridge
NLOS and LOS BH*

CPE



AirSpot





Airspan Wireless Solutions

Compact Macro, Micro



AirHarmony



Netspan
Element
Management System



aCore
Scalable
EPC

Wireless Backhaul



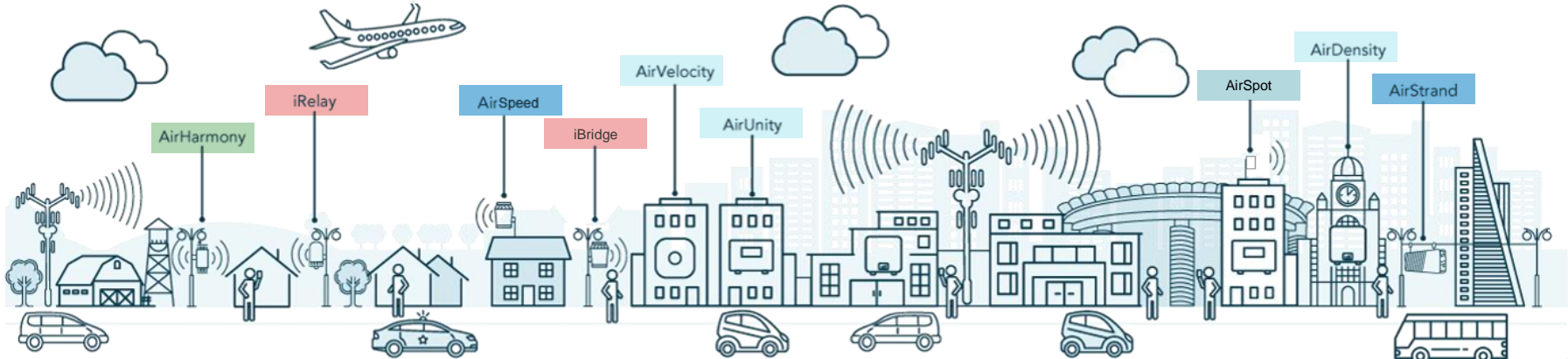
AirSON

iRelay/iBridge
NLOS and LOS BH

CPE

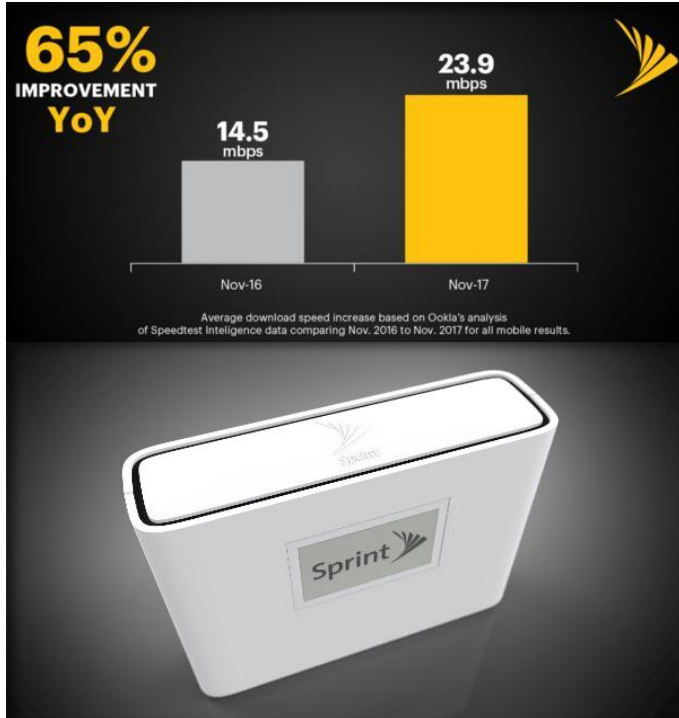


AirSpot





Use Cases



Sprint



~300,000 cells distributed

...Plug and Play

John Saw, Sprint CTO (December 18, 2018)

“We now have more than 275,000 Sprint Magic Boxes improving data speeds for homes and businesses.” “Sprint plans to deploy more than 1 million units as part of its multi-year roadmap”
 *Airspan Networks has stepped up production to keep the pipeline of product moving*”



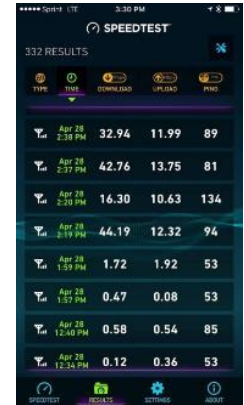
Sprint Magic Box Deployment: Typical Experience

- Transformational improvement in 4G Performance
- Improvement: 25x improved download speed!
- 97% TCO Savings!

44.2 Mbit/s
ON



OFF
1.7 Mbit/s



**Zero to 100M
subscribers
in 180 days!**



**120,000
Airspan Cells deployed**

*Mathew Oommen, president Reliance Jio:
“Jio is the world’s fastest growing mobile operator,
acquiring 100 million LTE subscribers in record time and
experiencing an unprecedented rate of data adoption and
usage. Jio is partnering with Airspan to deploy a network of
small cells..... The design provides a strong path
towards 5G with the same tools and building blocks,
allowing a further quantum leap in capacity.”*



Outdoor Small Cells

By Airspan



Outdoor Small Cells



AirHarmony

- Long range compact Marco with Dual Sector / Dual Carrier



AirSynergy

- Compact Pico-Cell with optional integrated Front Mount Antenna



AirSpeed

- Compact Small Cell with Dual Sector and integrated Backhaul
- Smart Beam Antennas



AirStrand

- Super Compact Strand Mounted Small Cell, Dual Sector with DOCSIS backhaul and power

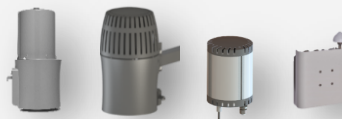
Super-fast installation. Support ever-increasing data loads and significantly improve mobile services!



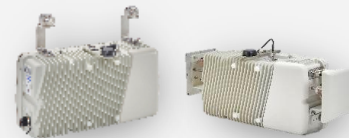
AirHarmony



AirSynergy



AirSpeed



AirStrand

Small Cell	Connected UEs	Throughput (Mbps)	Backhaul options
AirHarmony	1024*	TDD: 2x120 FDD: 2x150	2 x SFP 2 x RJ45
AirSynergy	128	TDD: 120 FDD: 150	RJ45
AirSpeed	64/128	TDD: 120 / 240 FDD: 150 / 300	UE Relay, ETH / GPON* DOCSIS*
AirStrand	64/128	TDD: 120 / 240 FDD: 150 / 300	DOCSIS, ETH



Indoor Small Cells

By Airspan



Indoor Small Cells



AirVelocity

- Small cell with wireline backhaul



AirDensity

- Small cell with wireless backhaul



AirUnity

- Small cell with wireless backhaul
- Dual Sector – Indoor, outdoor

Expand coverage and add network capacity at less than half the cost!



AirDensity

AirVelocity



AirUnity

Small Cell	Access	Mounting	Backhaul
AirVelocity	LTE, WiFi	Wall or Ceiling	Wireline
AirDensity	LTE Single Sector	Free-Standing	Wireless
AirUnity	LTE Dual Sector	Free-Standing	Wireless



mimosa®

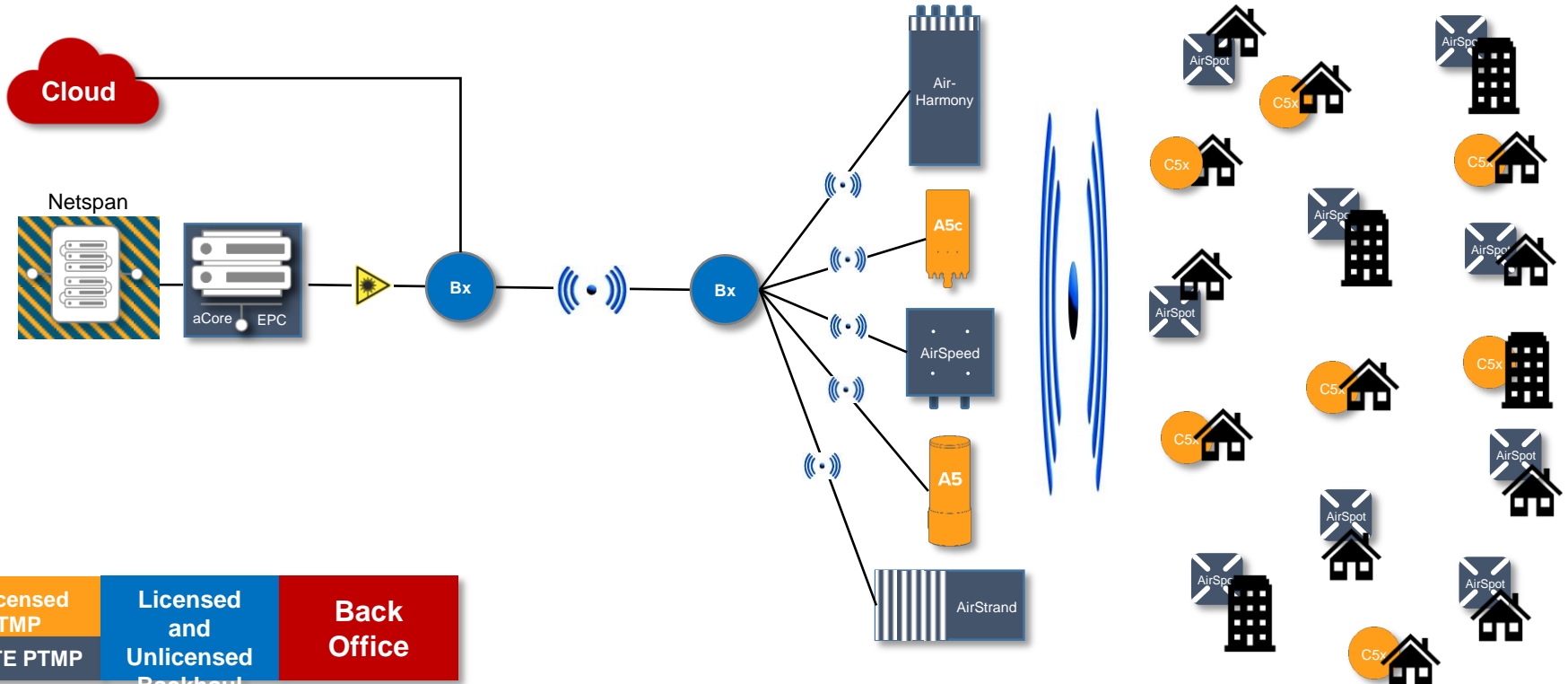
PTP and PTMP

Data
Center/Core/Cloud

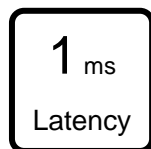
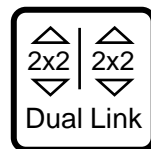
Transport – Fiber/Wireless

Access Points

Access – Clients/Subscribers



- Best Price Performance in the industry
- Rugged, Carrier Class solutions – at the best value
- Innovative Antenna Design provides superior performance
- No hidden costs
 - Excellent Performance without the need for add-ons
 - Highest speeds and functionality without infamous SW keys
- Simplified deployment model for ease of use and cost savings



B5c

Dual Link Connectorized



Long-Range

- 100+ km link distance

Customizable

- Flexible antenna options

Interference avoidance

- GPS sync & auto-channel, bandwidth & power

4950–6200 MHz

B11

Licensed Long Range



Licensed Long Haul

- 100+ km link distance

Flexible Bandwidth

- Dynamic up/down traffic

Extended Frequency Spectrum

- Unique 10.0-11.7 GHz support

Low Latency

- 1 ms

10.00–11.70 GHz

B24

Low Noise, Short Range



Short Distance Links

- 3 km link distance

Disruptive Price

- Industry leading price performance

Light, Compact & Efficient

- 6 lbs, 19.5 W power consumption

24.00–24.25 GHz

Beamforming Sectors



Urban MicroPoP



Access Point Radio and Antenna Innovation + the best multi-purpose Client Radios/Antennas in the industry allow true broadband at the best value for urban, suburban and rural applications

Thank you
Questions?
See you at the booth

Kevin Sweeting airspan.com



Member of:

