



WIRELESS  
UNLEASHED™

# UNLEASH THE POWER OF mmWAVE

## FIRST QUARTER 2023 EARNINGS CONFERENCE CALL

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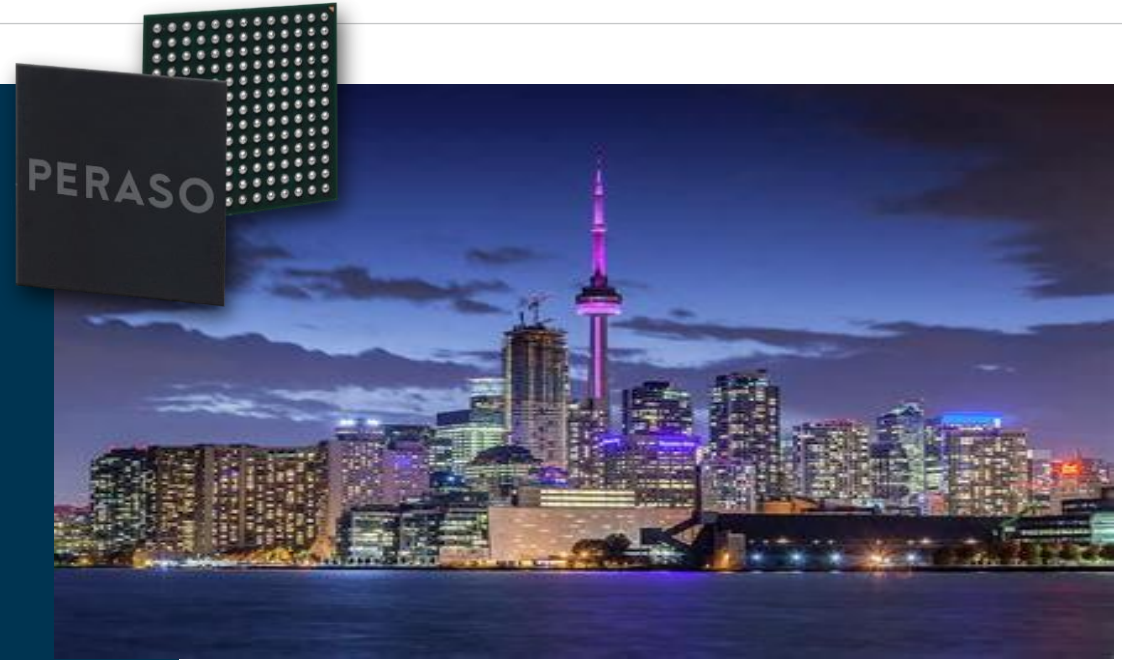
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# Opening Remarks

## First Quarter 2023 Earnings Conference Call

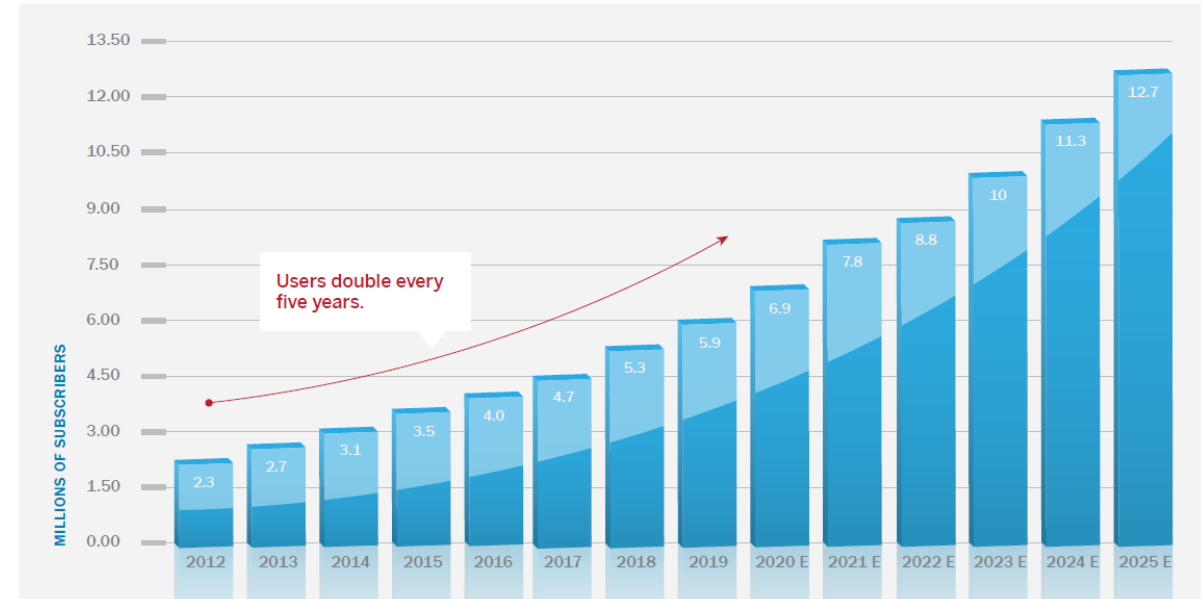


**Ticker:** [PRSO](#) (NASDAQ)  
**Headquarters:** *San Jose, CA*  
**Founded:** *2008*  
**Employees:** *67* (as of March 2023)  
**Patents:** *154*

# Wireless ISPs (WISP) Experiencing High Growth

- 6.7M wireless ISP (WISP) subscribers in U.S.
  - Expected to grow to 12.7M subscribers in 2025
  - Carmel Group predicts 100% growth every 5 years
- U.S. government providing significant support for universal broadband access
  - BEAD: \$42B to expand high-speed internet in all 50 states
  - RDOF: \$20.4B allocated for build out of broadband networks for rural communities

## WISP Subscribers (U.S.)



(E) Estimated/Projected.  
Source: The Carmel Group  
Numbers and estimates by The Carmel Group are for U.S. operators serving residential subscribers and non-residential subs.  
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## WISP Ecosystem

MikroTik

Cambium Networks

CISCO

UBIQUITI  
NETWORKS

STARRY  
Airspan

COMMScope®  
RUCKUS®

Ruijie 锐捷  
Networks

WeLink

Siklu

ARISTA

RADWIN

China  
unicom 中国联通

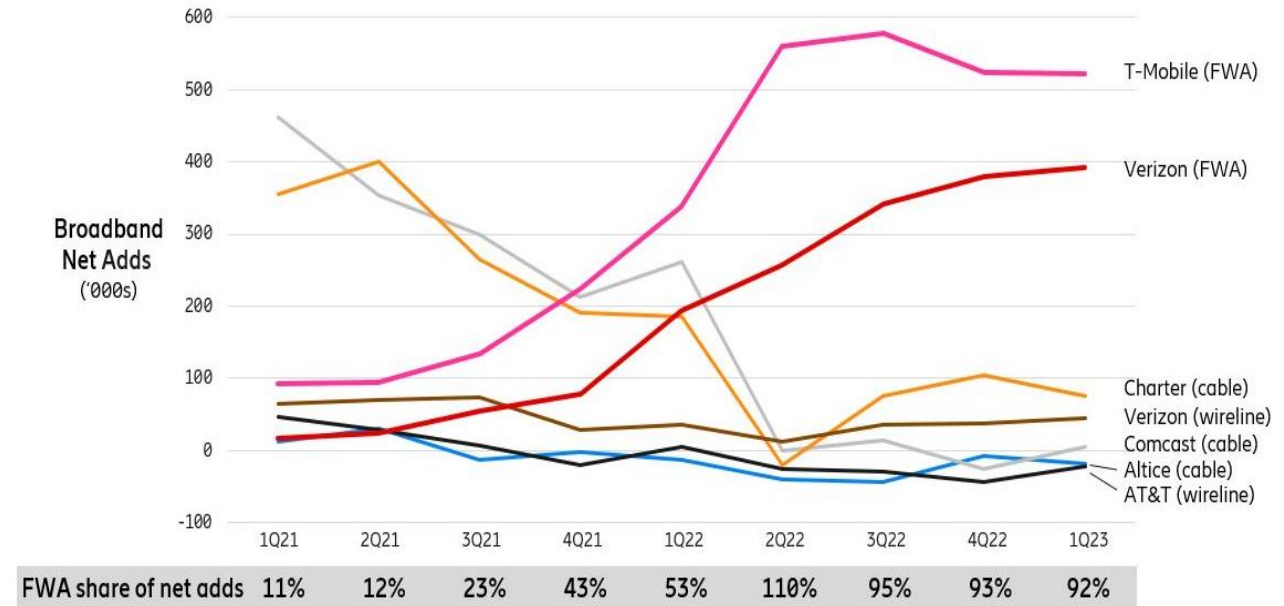
PERASO



# FWA Capturing +90% of Subscriber Net Adds in U.S.

- FWA capturing share of broadband market
- FWA emerging battleground for broadband providers
  - C-band + mmWave = potential to exceed gigabit connectivity
  - mmWave provides upload capacity for 'work at home' environment
- Market Potential
  - T-Mobile's 5G Home Internet available to > 40M homes
  - Verizon's 5G FWA service available to ~30M homes

FWA 'Net Adds' by Top Broadband Providers in U.S.



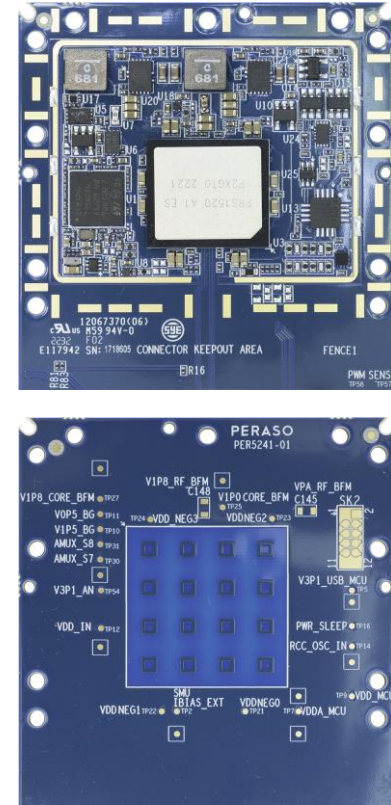
Source: Public information shared in company reports

## Global Carriers Utilizing mmWave Technology



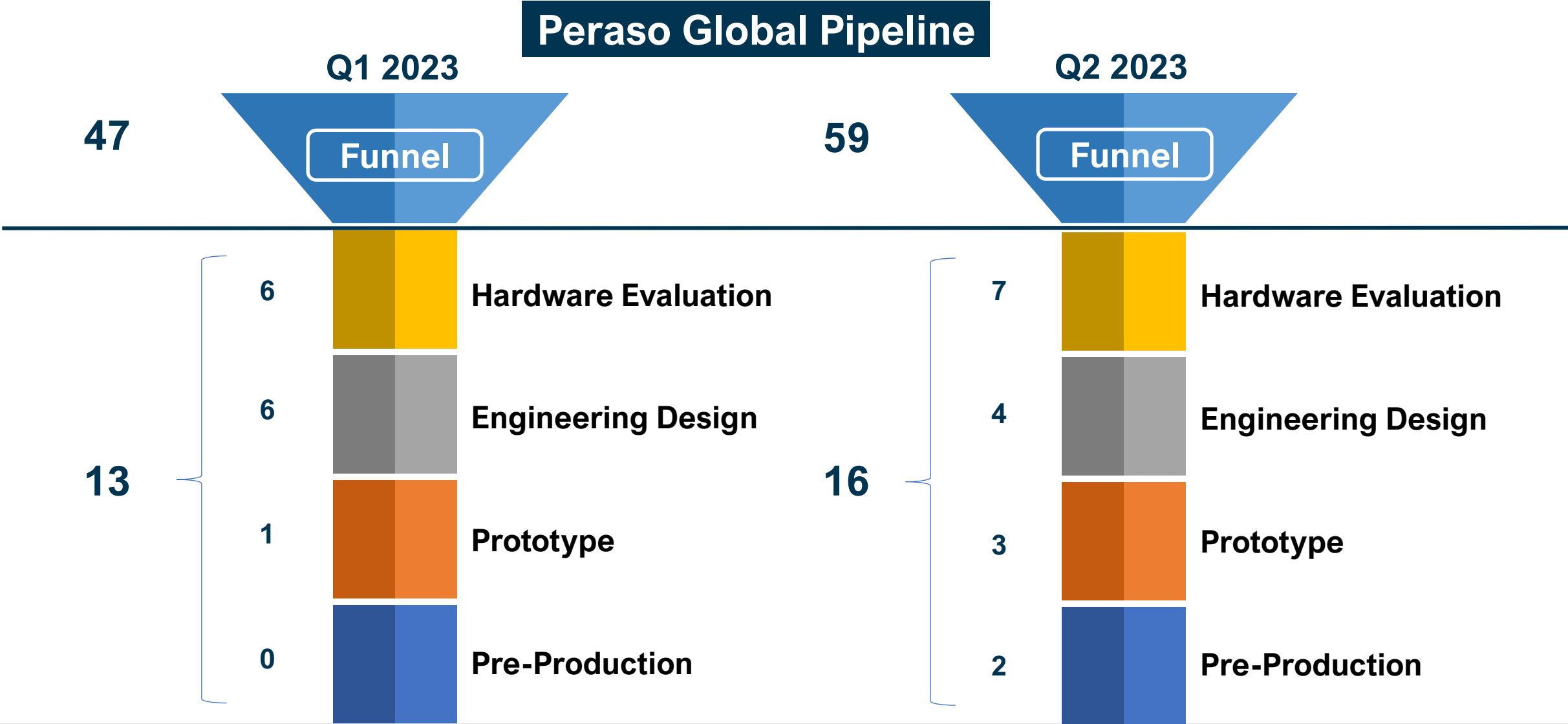
# 5G mmWave FWA Ramping Globally

- 5G mmWave FWA gains momentum as carriers recognize benefits of mmwave
  - NBN (Australia)
  - Eolo Italy (est. 300k subs using 28GHz)
  - India (JIO deploying in 26 GHz band)
- Peraso engagements saw material ramp in Q1 2023
  - Major OEMs, 5G baseband providers, frequency converters
- General industry recognition that Peraso' 5G beamformer is optimal for FWA



**Peraso dual-band, fully integrated 5G beamformer for fixed wireless access (front and back)**

# Expanding RF Engagements Pipeline



# Memory IC Products | End-of-Life

- Sole foundry discontinuing the process used to produce wafers
- Began informing customers of end-of-life (EOL) of memory IC products
  - Requesting customers provide purchase orders (PO) for last-time buys before end of 2023
- Expect to fulfill customer POs during 2024
  - Timing of EOL shipments will depend on deliveries from suppliers and customers' requests
- Potential for a pull-forward of future demand and revenue during 2024

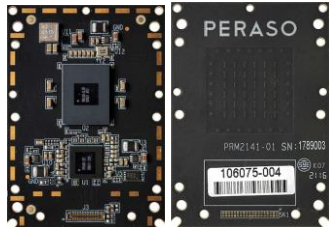


# Positioning to be Leading Supplier of mmWave Silicon

*For both Unlicensed and Licensed FWA markets*

## 60 GHz (IEEE 802.11ad/ay)

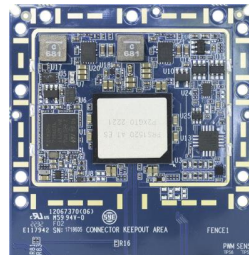
- Capitalize on PERSPECTUS family of products for FWA
- Advance existing engagements - potential NRE development projects



**Peraso 60GHz  
PtMP Solution**

## 5G mmWave

- Full production of highly integrated 5G beamformer for 5G CPE opportunities
- Leverage leadership momentum in WISP FWA to 5G carrier market



**Peraso 5G mmWave  
Antenna Module**

## WiFi 8 (IEEE 802.11bn)

- IEEE contemplating 60 GHz band to support ultra-high data rates for AR/VR
- 'In-room' characteristic of 60 GHz reduces overlapping networks in MDUs

## 6G mmWave

- THz frequencies utilize common design principles required for mmWave





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# FINANCIAL UPDATE





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THANK YOU