

SAFE HARBOR STATEMENT

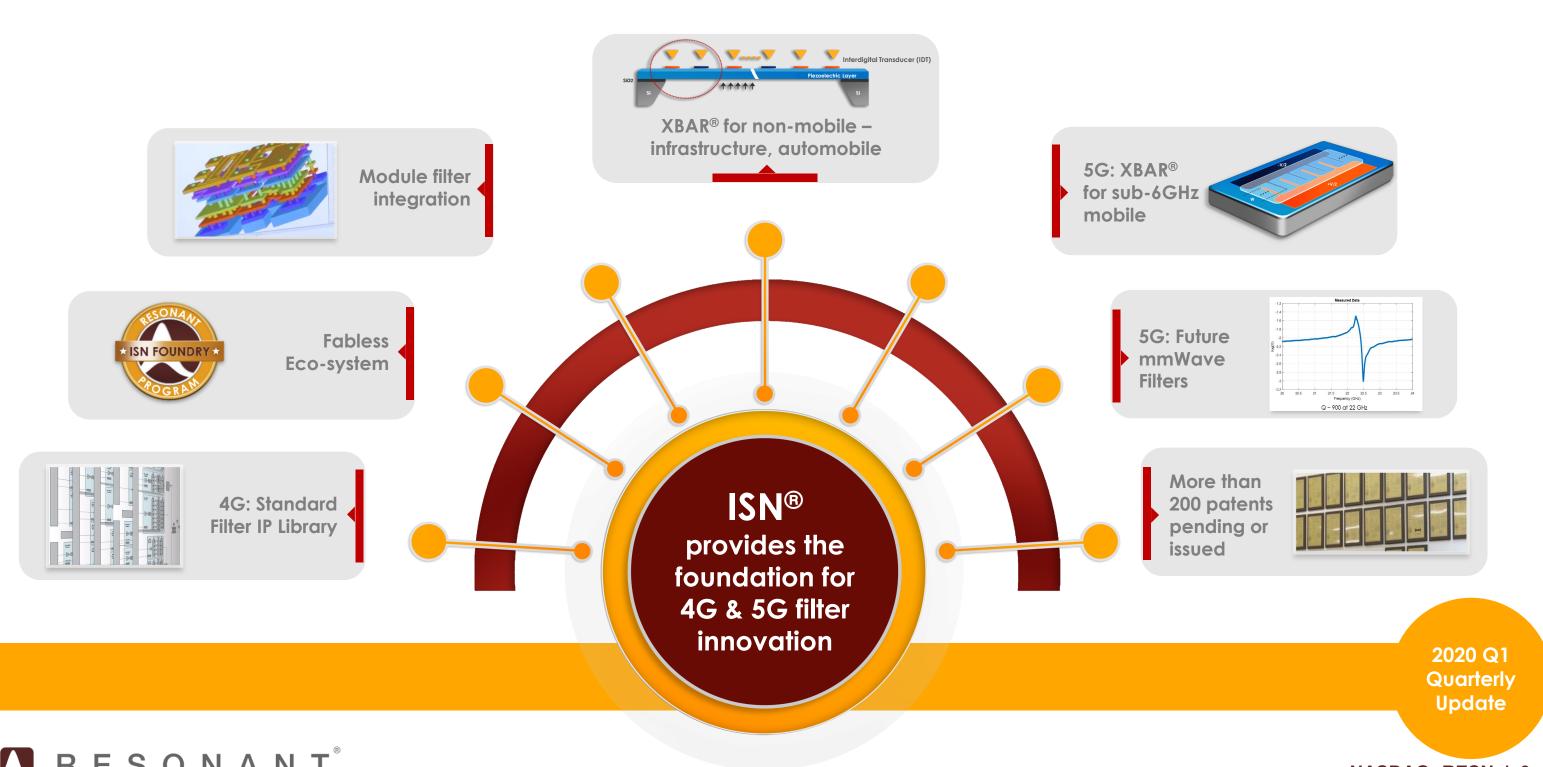
This document contains forward-looking statements. The words "believe," "may," "will," "potentially," "estimate," "continue," "anticipate," "intend," "could," "would," "project," "plan," "expect" and similar expressions that convey uncertainty of future events or outcomes are intended to identify forward-looking statements. Forward-looking statements may address the following subjects among others: the status of filter designs under development, the prospects for licensing filter designs upon completion of development, plans for other filter designs not currently in development, potential customers for our designs, the timing and amount of future royalty streams, the expected duration of our capital resources, our hiring plans, the impact of our designs on the mobile device market, and our business strategy. Forward-looking statements are inherently subject to risks and uncertainties which could cause actual results to differ materially from those in the forward-looking statements, including, without limitation, the following: our limited operating history; our ability to complete designs that meet customer specifications; the ability of our customers (or their manufacturers) to fabricate our designs in commercial quantities; the ability of our customers to sell products incorporating our designs to OEMs; our dependence on a small number of customers; the ability of our designs to significantly lower costs as compared to other designs and solutions; the risk that the intense competition and rapid technological change in our industry renders our designs less useful or obsolete; our ability to find, recruit and retain the highly skilled personnel required for our design process in sufficient numbers to support our growth; our ability to manage growth; and general market, economic and business conditions. Additional factors that could cause actual results to differ materially from those anticipated by our forward-looking statements are under the captions "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our most recent Annual Report (Form 10-K) or Quarterly Report (Form 10-Q) filed with the Securities and Exchange Commission. Forward-looking statements are made as of the date of this document, and we expressly disclaim any obligation or undertaking to update forwardlooking statements.

We may refer to information regarding potential markets for products and other industry data. We believe that all such information has been obtained from reliable sources that are customarily relied upon by companies in our industry. However, we have not independently verified any such information.



ISN® DIFFERENTIATES RESN AS A PURE PLAY SOLUTIONS SUPPLIER

PROVIDING DESIGNS, IP, AND SOFTWARE TO THE RFFE MARKET



BUILDING MOMENTUM IN 2020

XBAR® EXECUTION ACCELERATES AND REVENUES GROW

CUTTING EDGE XBAR® 5G FILTER TECHNOLOGY VALIDATED FOR NON-MOBILE

- Technology validated by worlds largest filter manufacturer
- 2020Q1 demonstrated enhanced performance
- 1.1 GHz of protected bandwidth at 6.5 GHz, delivering the full promise of broadband video to phones
- On track to deliver non-mobile 5G samples in the first half of 2020

ISN® TECHNOLOGY PLATFORM AND BUSINESS MODEL VALIDATED

- PMTx is ready to deploy to two customers once travel restrictions are lifted, expect late 2020Q2 installation
- CEMx is expected to be integrated into design flow in 2020Q2

FIRST QUARTER 2020 BUSINESS HIGHLIGHTS

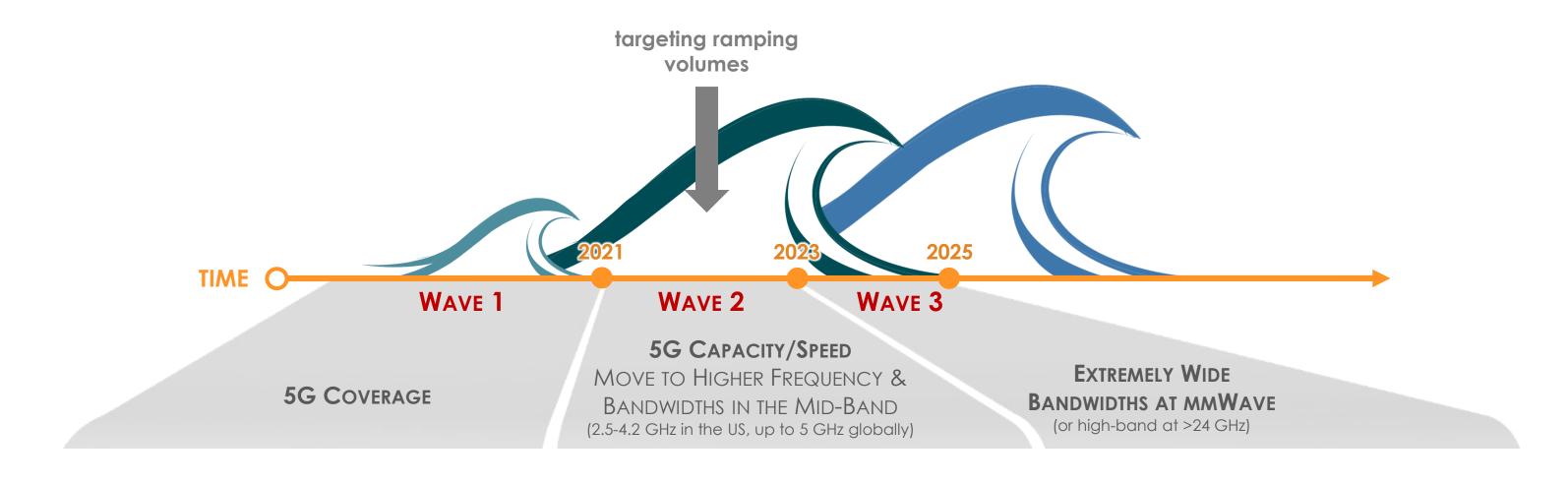
- Agreement with new Tier 1 Chinese foundry high volume, lower cost focused on Chinese handset market
- Focus on high performing customers, cutting ~\$5M of costs out of annualized run rate and transitioning current fabless customers to new Chinese high-volume foundries
- Sequential revenue growth demonstrates momentum in business
- 2020Q1 institutionally dominated public offering yielded \$26.3M in net proceeds and no debt

BUSINESS VALIDATION SETS FOUNDATION FOR GROWTH



5G FIRST WAVE IS HERE

EXPANSION TARGETED FOR 2021/2022



Mobile: World's largest filter manufacturer poised to intercept Wave 2

Non-Mobile: 5 GHz and 6 GHz WiFi filters poised for new Tier One engagements

BREAKTHROUGH TECHNOLOGY POISED TO DISRUPT THE INDUSTRY



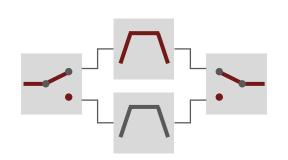
CHALLENGE WITH EXISTING BAW SOLUTIONS

INSUFFICIENT BANDWIDTH FOR 3-7 GHz BANDS

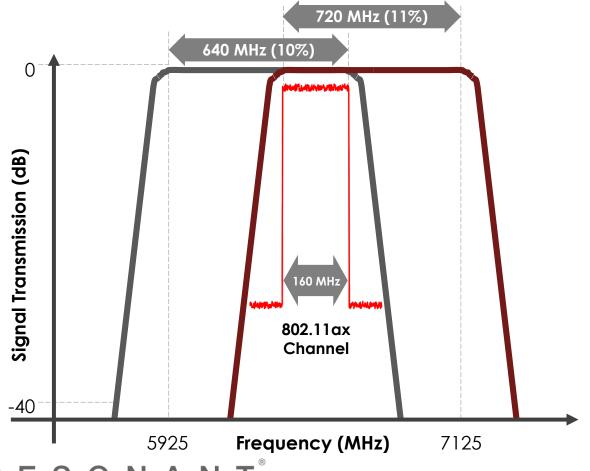
SCAIN BAW SOLUTION

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Requires sub-banding, increasing cost, area, and loss



Vendor	DPX Share*
AVGO	20%
QCOM	12%
SWKS	11%
QRVO	6%
AKTS	~0%
Total	49%



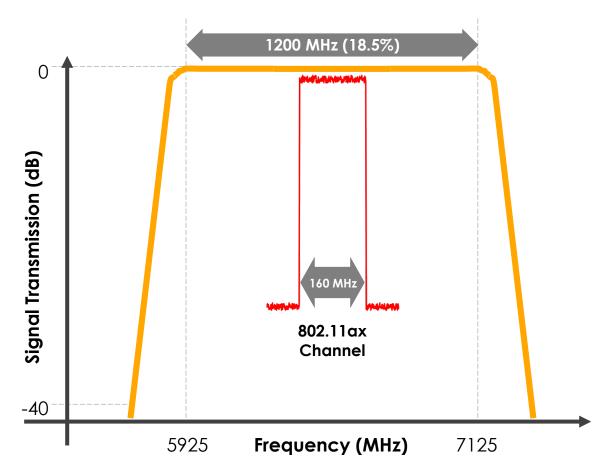
XBAR® SOLUTION



Native wide-band capability easily covers full Wi-Fi 6E band.

Embraced by world's largest RF filter manufacturer with 35% market share*





XBAR® MEETS 5G AND WIFI REQUIREMENTS

RESONANT'S XBAR® AND DEEP IP PORTFOLIO

XBAR®: RESN's revolutionary BAW resonator structure developed using ISN®

- Manufactured using standard SAW processes
- Higher native operating frequency (3-7 GHz)
- 4x wider operating bandwidth, up to 24%

- > Delivering bandwidth and throughput (HD video)
- > Enables more network capacity
- > Delivers the 5G consumer experience



IP Portfolio

- >220 patents pending or issued
- >60 patents pending covering XBAR® and related high frequency technologies
 - First XBAR® patents issued

BREAKTHROUGH TECHNOLOGY POISED TO DISRUPT THE INDUSTRY

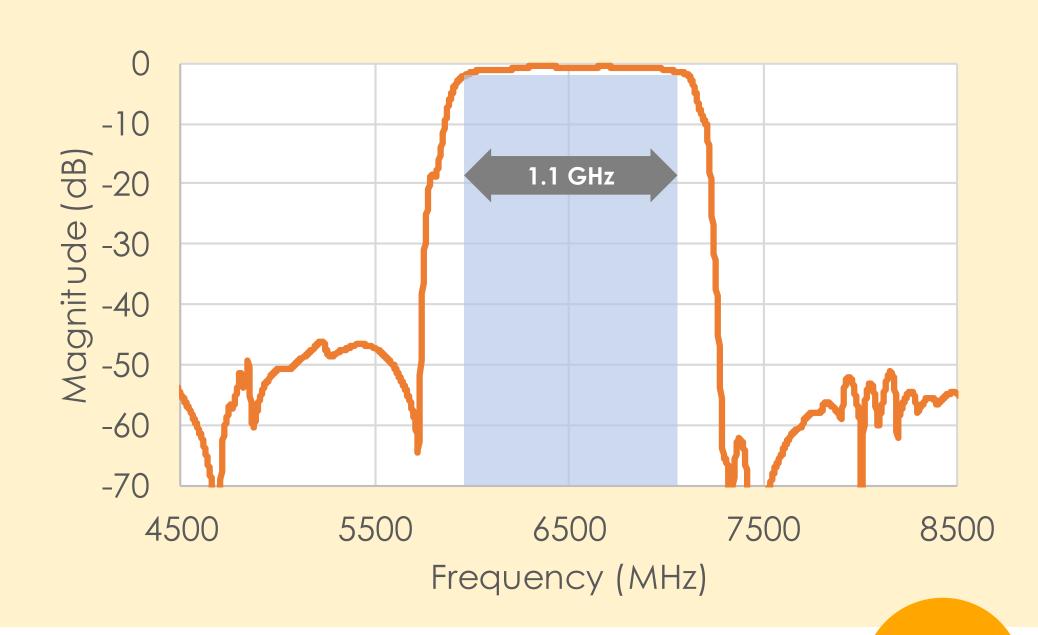


XBAR® UPDATE: NON-MOBILE

February 2020

LATEST RESULT

- Measured 1.1 GHz bandwidth centered at 6.5 GHz
 - 17% bandwidth
 - Nearly double 2019 results
- Minimum loss < 1.0 dB
- Rejection > 40 dB across neighboring Wi-Fi spectrum



FIRST ACOUSTIC WI-FI BANDPASS FILTER DEMONSTRATING GREATER THAN 1 GHz BANDWIDTH



4G SEES FURTHER COMMODITIZATION, REMAINS HUGE PART OF DEMAND

RESONANT'S ISN® AND FOUNDRY PROGRAM

FOUNDRIES & STANDARD PRODUCTS DOMINATE 4G ROADMAP

- Standard RF filter designs from ISN® platform
 - Lower costs and reduce time to market
 - Efficient supply chain
- Agreement signed with Tier 1 foundry, complimenting existing contracts with other Tier 1 IDMs in China
- Pre-paid royalty improves predictability of revenue

EARLY CUSTOMER ENGAGEMENTS CONTINUE TO CONVERT

- Existing custom designs continue with existing customers
- Volumes continue and new devices are expected to start shipping in the second and third quarters
- ASP's continue to decline, shift to standard products

EARLY CUSTOMER VALIDATION OF ISN®, ENABLES PATH FOR FUTURE



ADVISORY BOARD

Clint Brown

Advisor

Rubén Caballero

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Brian Crutcher

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Advisor & Board Member





Microsoft









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KEY INDUSTRY, FINANCIAL & STRATEGIC THOUGHT LEADERS



FINANCIALS

RESONANT'S CAPITALIZED AND POSITIONED TO DELIVER FOR SHAREHOLDERS

	Three Months Ended	
	March 31, 2020	March 31, 2019
Billings	\$282 K	\$54 K
Deferred Revenues	\$1.5 M	\$204 K
REVENUE OPERATING EXPENSES	\$544 K	\$134 K
Research and development	\$5.5 M	\$4.4 M
Sales, marketing and administration	\$3.1 M	\$3.0 M
OPERATING LOSS	(\$8.1 M)	(\$7.2 M)
NET LOSS	(\$8.0 M)	(\$7.1 M)
NET LOSS PER SHARE – BASIC AND DILUTED	(\$0.18)	(\$0.26)
Weighted average shares outstanding - basic and diluted	43.8 M	27.5 M
Adjusted EBITDA (non-GAAP)	(\$6.4 M)	(\$5.6 M)
NET EBITDA PER SHARE – BASIC AND DILUTED (non-GAAP)	(\$0.15)	(\$0.20)
Cash and cash equivalents and investments	\$29.6 M	\$15.2 M

STRONG BALANCE SHEET WITH NO DEBT



SUMMARY

INDUSTRY LEADING CAPABILITIES

Demonstrated first 5G filters to achieve bandwidths required by 5G.

LARGE AND GROWING MARKET

Targeting largest segment of the RF Front-End market, filters are expected to nearly double to \$28B by 2025.

ROBUST TECHNOLOGY AND IP

>220 patents filed or issued and >60 for high-frequency 5G-targeted devices.

PROVEN MANAGEMENT TEAM

Leadership team that has a proven ability to deliver.

VALIDATION OF TECHNOLOGY

Partnership with world's largest RF filter manufacturer and strong traction with additional existing customers.

ESTABLISHED FOUNDRY PROGRAM

Designed to expand market by allowing component suppliers ease of entry at low cost; multiple foundry partners including China-focused partner.

STRONG BALANCE SHEET

Well-positioned with a strong cash position.* No debt.

XBAR® AGREEMENT AND FINANCING POSITIONS RESONANT FOR SUCCESSFUL 2020



THANK YOU

