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 forward-looking 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.
SOLVING CRITICAL RF PROBLEMS BY PROVIDING DIFFERENTIATED SOLUTIONS FOR THE LARGEST SEGMENT\(^1\) OF THE RFFE (RF FRONT-END) MARKET

\(^1\) Source: Yole Developpement.
GROWTH DRIVEN BY
PROVEN INDUSTRY-LEADING TECHNOLOGY

UNPARALLELED DISRUPTIVE TECHNOLOGY

- **ISN®**: proprietary software platform revolutionizes filter design
  - Enables high-performance, low-cost and fast time-to-market
- **XBAR®**: revolutionary BAW (bulk acoustic wave) resonator
  - Critical for 5G filters

DIVERSIFIED GROWTH PLATFORM

- **Multiple revenue streams**
  - ISN-enabled 4G filter solutions, standard IP library, **break-out royalty growth** from XBAR and other high frequency-enabled 5G products
- **Foundry Program**
  - ISN-generated filter designs from stable, low-cost supply chain

TECHNOLOGY ADDRESSES FASTEST GROWING FILTER MARKETS
THE CORNERSTONE FOR RESN TECHNOLOGY
RESONANT’S ISN®

- ISN revolutionizes filter design
- Enables low-cost SAW fabrication with superior performance and faster time-to-market
- No comparable acoustic wave filter design tool exists

**Current design method**
- Iterative foundry process
- Months/years of lead time
- Increasing filter complexity
  - Delaying time to market

**Design method using ISN®**
- Half the time and half the cost
- Faster and more accurate
- Superior performance

TIME CONSUMING ITERATIVE MANUAL PRODUCTION PROCESS

NIMBLE, LOWER COST, SUPERIOR PERFORMANCE
**DIFFERENTIATED 5G & WI-FI 6 SOLUTIONS FUEL GROWTH**

**RESONANT’S XBAR® AND DEEP IP PORTFOLIO**

**XBAR®: RESN’s revolutionary BAW resonator structure**
- Manufactured using standard SAW processes
- Higher native operating frequency (3-7 GHz)
- 4x wider operating bandwidth
- Minimal additional CapEx
- Delivering bandwidth and throughput (HD video)
- Enables more network capacity

**IP Portfolio**
- >200 patents pending or issued
- >50 patents covering XBAR and related high frequency technologies

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**BREAKTHROUGH TECHNOLOGY POISED TO DISRUPT THE INDUSTRY**
DIVERSIFIED REVENUE STREAMS
TARGETING HIGH-GROWTH MARKETS

COMPLEMENTARY REVENUE STREAMS:

1. Custom & library designs: Royalty per unit shipped

2. Cutting-edge, off-the-shelf designs: Prepaid royalty

3. Foundry supply chain: Licensing revenue and white label sales

LEVERAGING DIVERSIFIED PRODUCT PORTFOLIO, REVENUE STREAMS, AND ENGAGEMENTS

**RFFE Components Market**

- **2007**: $15B
- **2020**: $28B
- **2025**: $40B

1. Source: Yole Developpement.

\[\text{NASDAQ: RESN} \]
DIVERSIFIED REVENUE STREAMS
HIGH-GROWTH MARKETS | 5G

XBAR®
- Filters in development with industry leader
- High-bandwidth, high-power needed for 5G applications
- Low-cost manufacturing techniques
- First non-mobile samples expected in first half of 2020

MARKET REALITY
- Increased number and more complex filters
  - More than 100 filters\(^1\) per phone
  - Fastest growing segment of the RFFE market, 15 billion today to $28 billion in 2025\(^2\)

SOLUTION
XBAR®
- Proprietary technology, >50 patents filed & issued
- Demonstrated industry-leading performance
- Solutions for mobile and infrastructure

DELIVERING DESIGNS THAT MEET THE EXACTING DEMANDS FOR ENTIRE WIRELESS SPECTRUM

\(^1\) Sources: Projections based on Yole Developpement, Navian, Resonant Management estimates.
\(^2\) Sources: Yole Developpement.
DIVERSIFIED REVENUE STREAMS
HIGH-GROWTH MARKETS | 4G

Disruptive supply chain – Foundry Program
- Low-cost solutions with high performance

Multiple revenue streams from existing players and new entrants
- Foundry partners leveraging Resonant’s off-the-shelf designs, ISN tools, and services

MARKET REALITY
Transition to 5G drives continued 4G RFFE market growth
- Majority of mobile filters remain 4G
  - Market will commoditize
  - Re-farming of 4G spectrum
  - 4G provides backstop for 5G coverage

SOLUTION
Infinite Synthesized Networks (ISN®)
- High volume of designs
- Off-the-shelf designs and foundry model
  - Low cost and high-quality

COMMODITIZING OF 4G FILTERS REQUIRES NEW SUPPLY CHAIN MODEL
FOUNDRY PROGRAM
TRANSFORMING THE MOBILE FILTER SUPPLY CHAIN

- Growing addressable market
  - Enables new market entrants access to high-quality, low-cost RF filters
- Stable and experienced supply chain
  - 5 filter companies currently comprise 80% of fab market\(^1\)
- Leverage Resonant’s design portfolio
  - Complex duplexers and quadplexers
  - Fast and predictable delivery times

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\(^1\) Source: Navian.
MOMENTUM ACCELERATES
NOTABLE TRACTION IN THE MARKET

WORLD’S LEADING RF FILTER MANUFACTURER

- In 2019, the world’s leading RF filter provider entered into a $9M commercial agreement with Resonant for the rights to develop multiple designs using Resonant’s XBAR technology
- Upon signing the agreement, the customer completed a $7M investment in Resonant

XBAR technology is expected to achieve higher frequency and superior performance to other filter technologies, in particular for new 5G filter requirements

SVP of Customer

TIER 1 CHINESE FOUNDRY

- In January 2020, Resonant signed multiple license agreements for prepaid royalties and upfront payments with a new China-focused filter foundry partner
- Customer licensing Resonant’s Process Monitoring Tool (PMTx) module of ISN

Resonant’s technology and expertise will help us build our complete technology foundation for providing full filter technology foundry service to global fabless and OEM customers

CEO of Foundry Partner

RESONANT CONTINUES TO TARGET WIFI/CPE AND INFRASTRUCTURE (SMALL CELL) APPLICATIONS FOR XBAR

Sources: Resonant press releases.
EXECUTIVE TEAM

George B. Holmes  
Chairman & CEO  
30+ years leadership in sales & marketing and management

Marty McDermut  
CFO  
30+ years in financial and accounting management; CPA

Dylan Kelly  
COO  
20+ years in engineering, product marketing and manufacturing

Bob Hammond  
Co-CTO & Co-Founder  
20+ years in advanced product development Ph.D. Caltech

Neal Fenzi  
Co-CTO & Co-Founder  
20+ years in engineering, operations and marketing positions at STI; BSEE

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