



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 (particularly as a new public company); our ability to complete designs that meet customer specifications; the ability of our customers (or their manufacturers) to fabricate our designs in commercial quantities; 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.



Fundamental Investment Premise:

Design Tools + Intellectual Property + People

=

Faster Filter Designs • More Cost Effective • Higher Performance

NASDAQ | RESN

■ Corporate Overview

- Headquarters: Santa Barbara, Calif.
 - Development center: Burlingame, Calif.
- Founded: May 2012
- IPO: June 2014
- PIPE: April 2016
- Secondary offering: September 2016

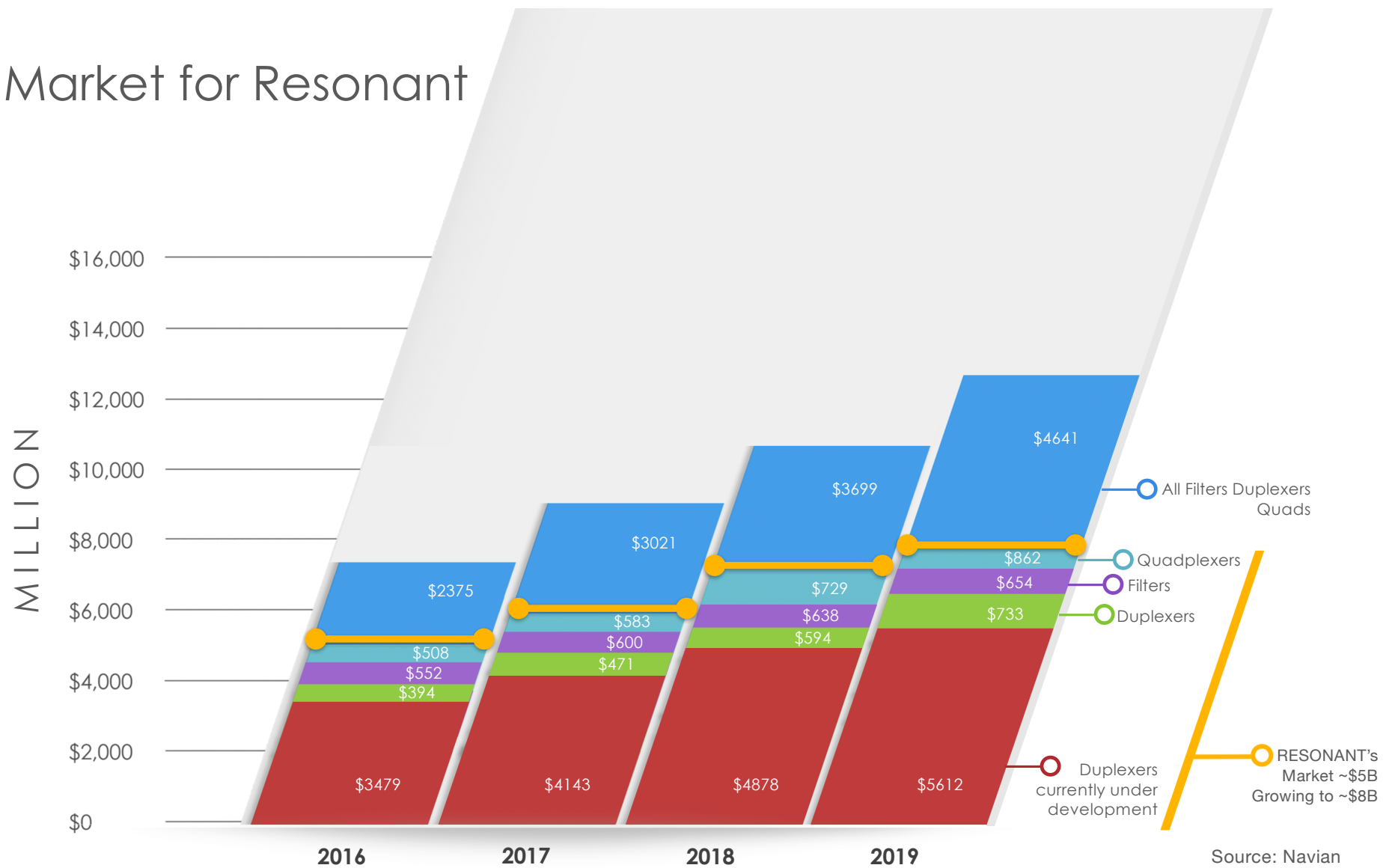
NASDAQ: RESN	November 11
Share Price	\$5.04
Market Cap	\$62.7 M
Shares Outstanding	12.4M
Public Float	7.2 M
Insider Ownership	10.4%
Fully Diluted Shares Outstanding	17.6 M

Compelling Investment

- We design RF filters for mobile devices that we believe can be manufactured for half the cost and developed in half the time
- Market Growing to >\$14B by 2019
- Asset-light licensing business model keeps costs down
- More than 100 pending and issued patents
- Currently have 20 complex duplexers and quadplexers under contracted development supporting customer sockets

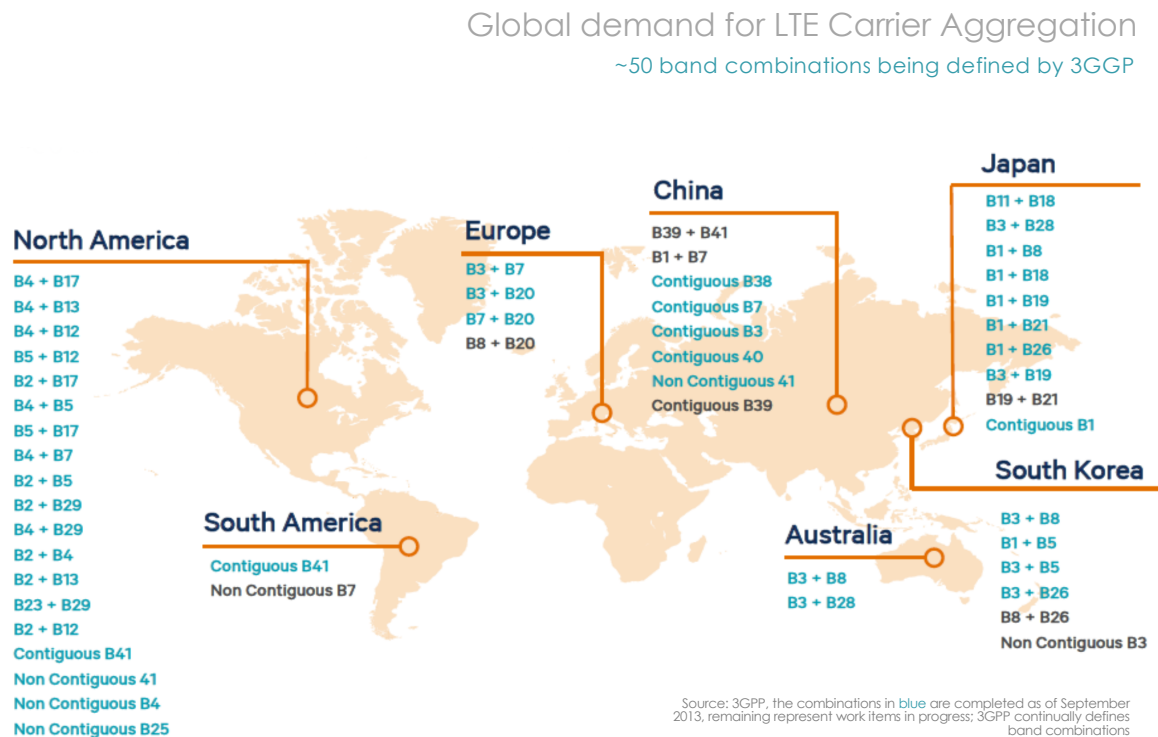
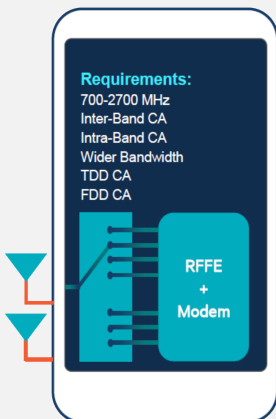
MARKET OPPORTUNITY

Market for Resonant



Band proliferation is driving the need for more filters

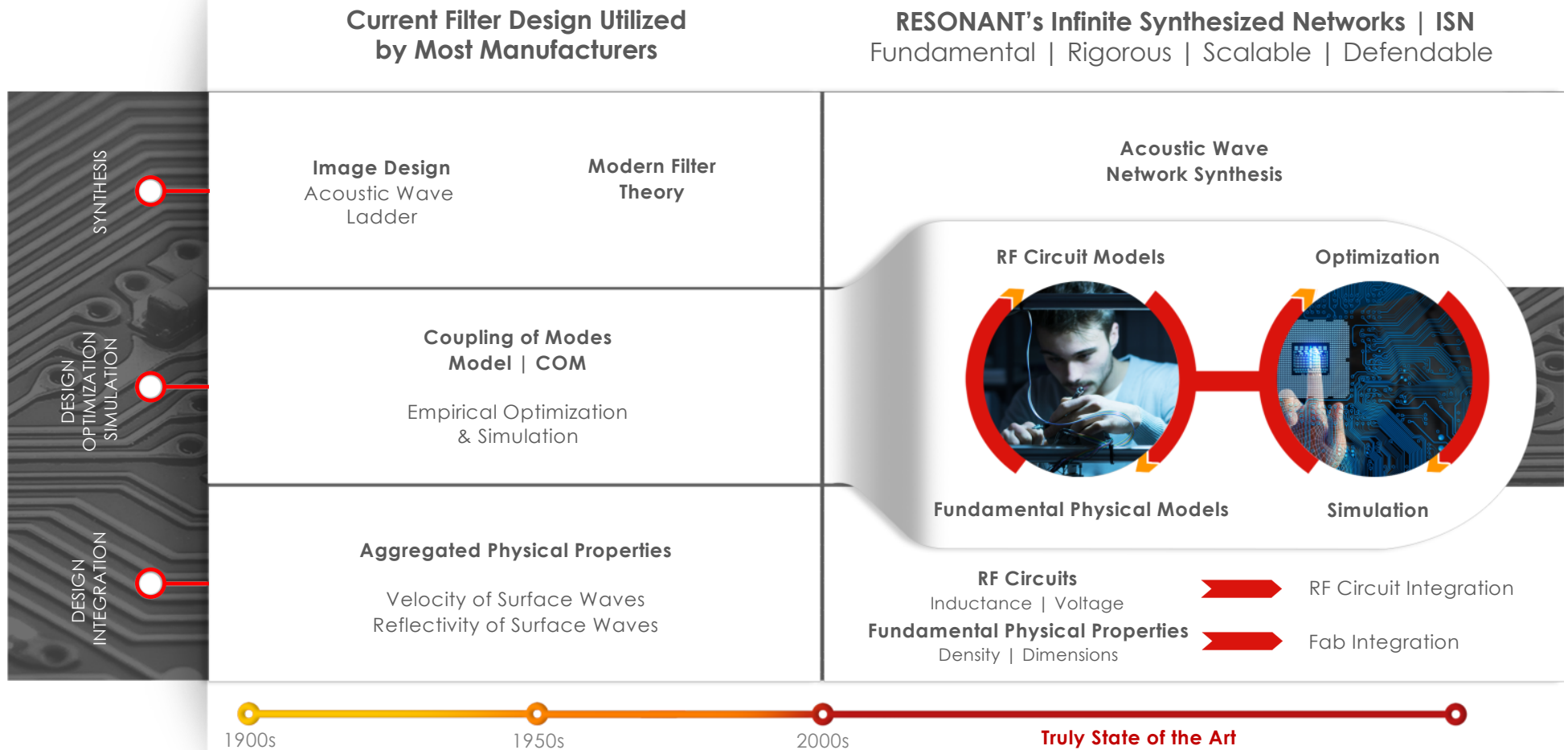
- More than 25B RF paths predicted to be carrier aggregated by 2020
- LTE Pro smartphones ~200 CA band combinations



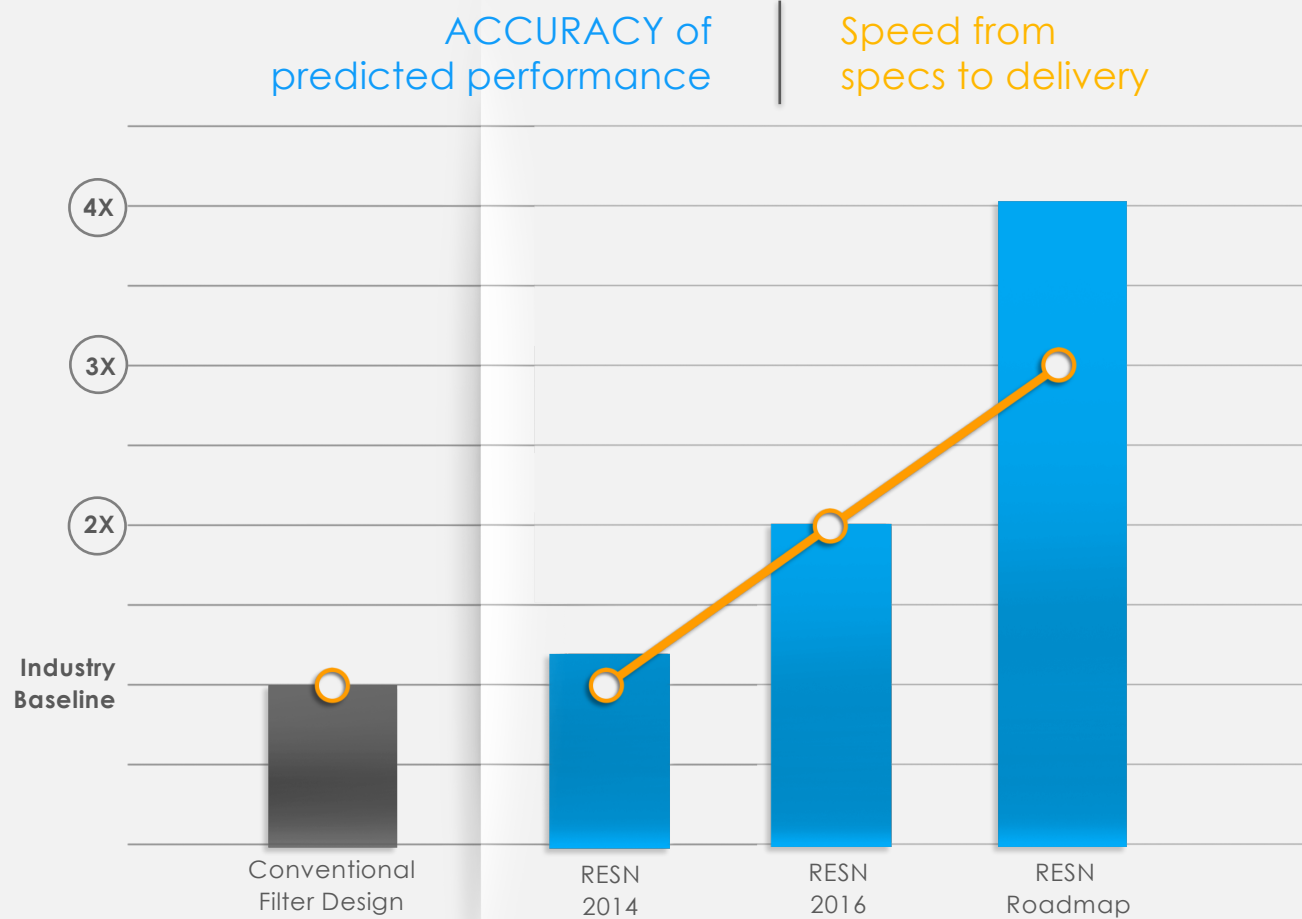
Source: 3GPP, the combinations in blue are completed as of September 2013, remaining represent work items in progress; 3GPP continually defines band combinations

Carrier Aggregation (CA) provides higher data-rates, BUT increases RFFE complexity

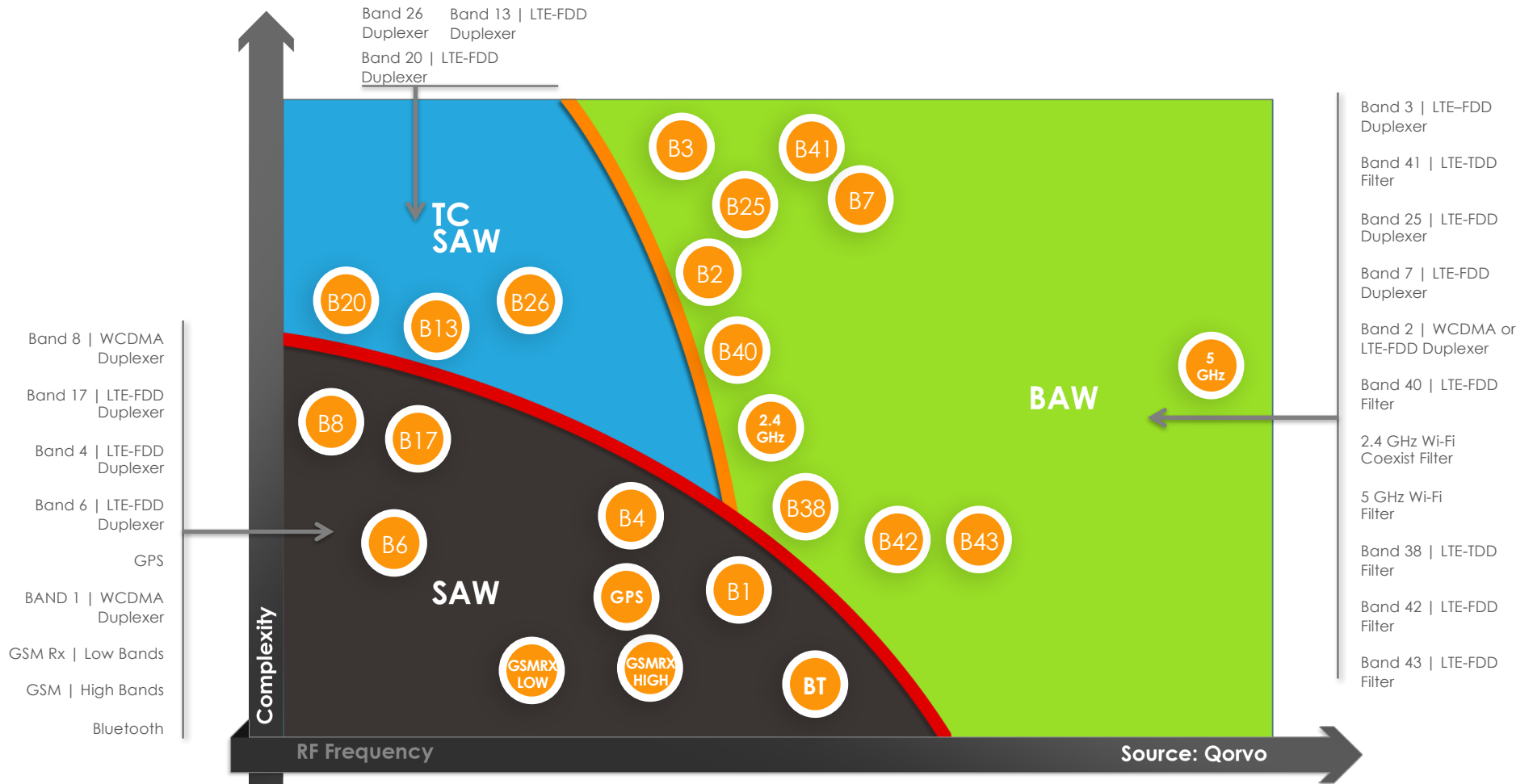
Evolution of Filter Design – ISN[®]: Next Generation Design Automation



Delivering on the Market's Need for Speed & Accuracy

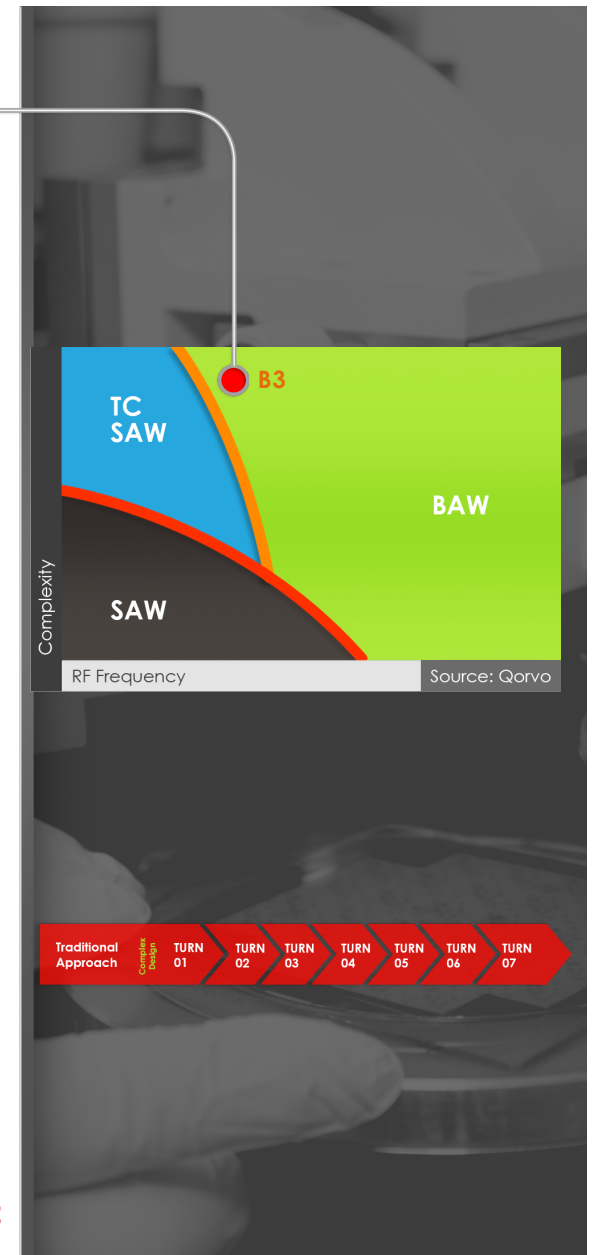
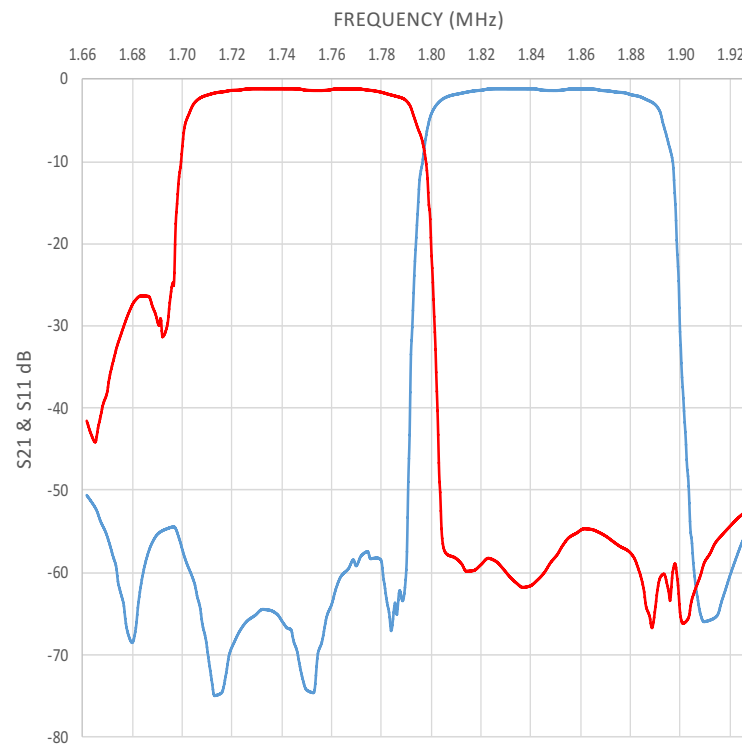


Market Overview: SAW | TC-SAW | BAW



Baseline | *BAW Band 3 Duplexer* Designed using COM Model

- High Frequency
- High Complexity
- Traditional BAW/FBAR Designs
- High Cost
- Long Development Times



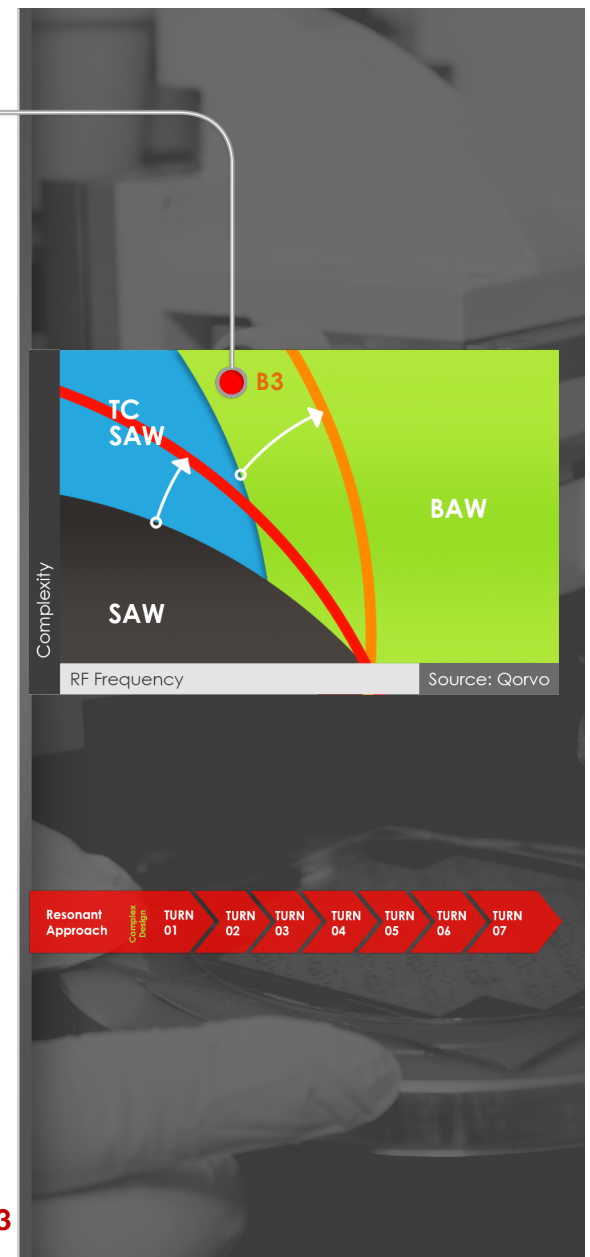
2014-2015: B3 Duplexer in TC-SAW

- Comparable Performance to BAW
- Lower Cost
- Comparable Development Time

A comparison of Resonant and Avago Band 3 Duplexer key performance metrics

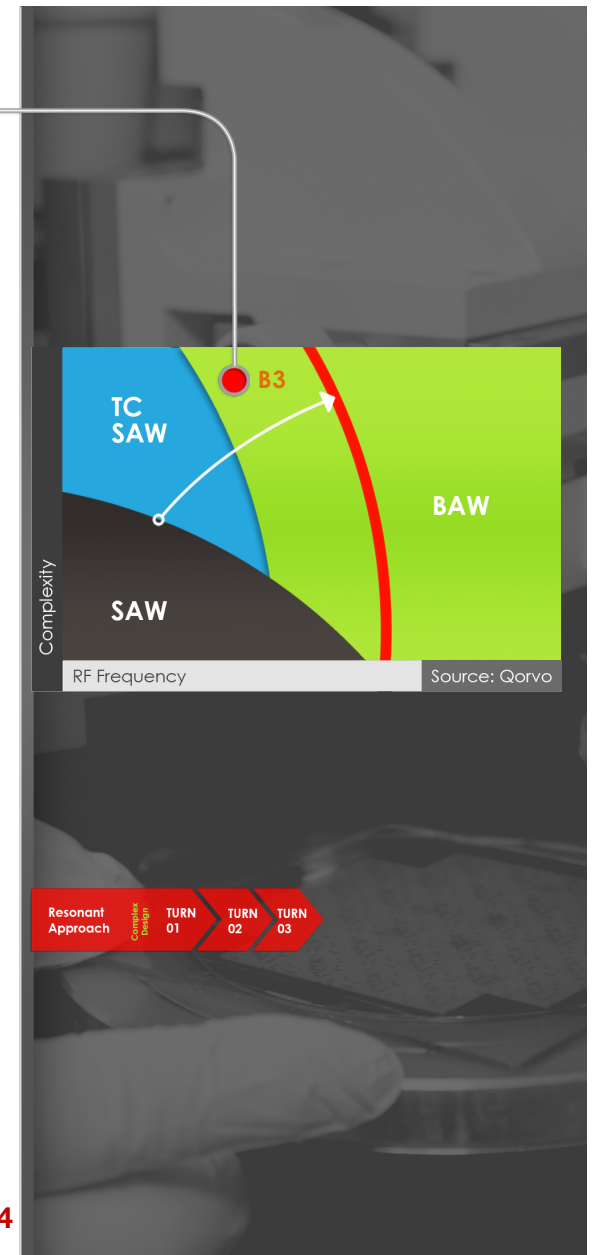
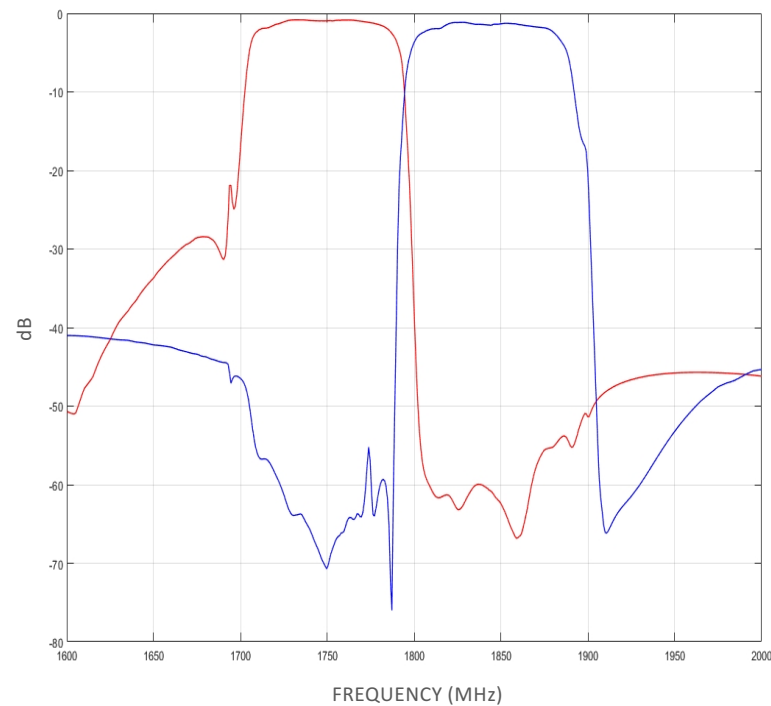
	Resonant (TC-SAW)	Avago (FBAR- Best in Class)*
Tx Center Band Loss	0.9dB	1.2dB
Band Edge Loss	2.2dB	2.1dB
Rx Center Band Loss	0.9dB	1.1dB
Band Edge Loss	2.8dB	2.4dB
Isolation	54dB	53dB
Size	1.8x1.4x0.38mm	2.0x1.6x0.9mm

* Source: Avago ACMD- 6103 Band 3 Duplexer Datasheet



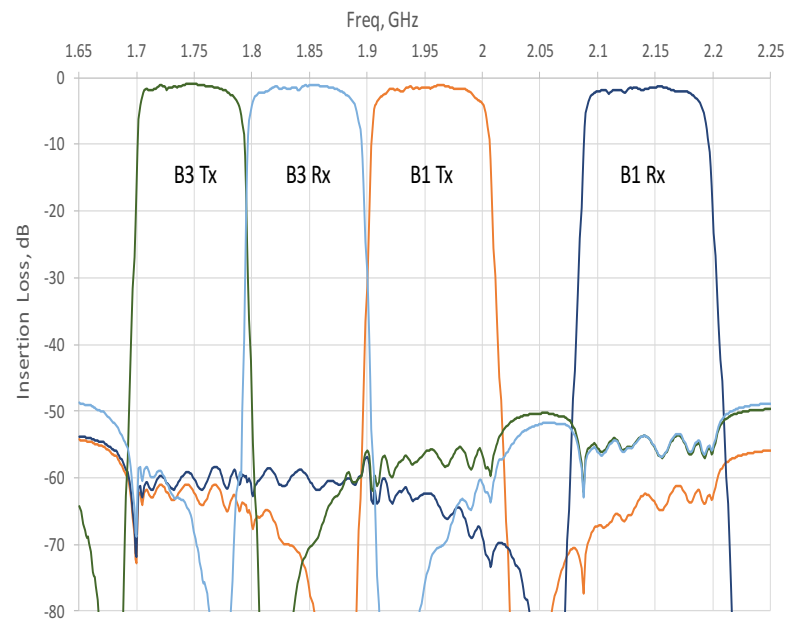
2016: B3 Duplexer in SAW Designed using ISN

- High Performance
- Low Cost
- Short Development Time

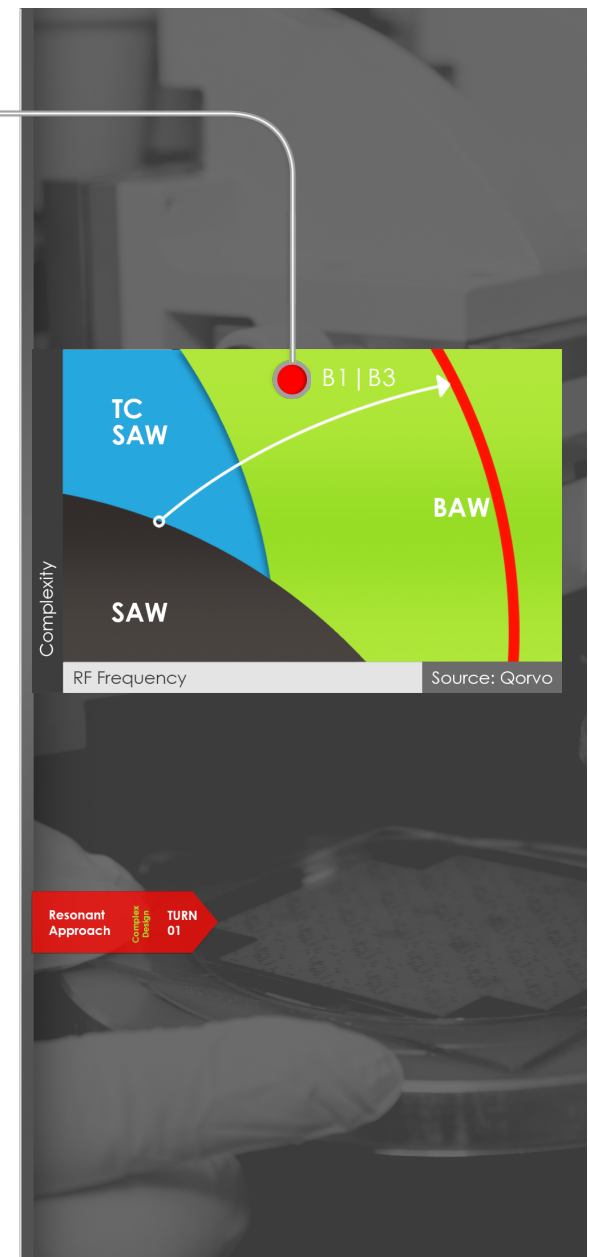


2016 and Beyond Higher Complexity Designs Using ISN

- High Frequency
- Higher Complexity
- Traditional BAW/FBAR Designs
- Much Lower Cost in SAW/TC-SAW
- Shorter Development Times
- Essential for Higher Data rates in BAW



Band 1/Band 3 Quadplexer

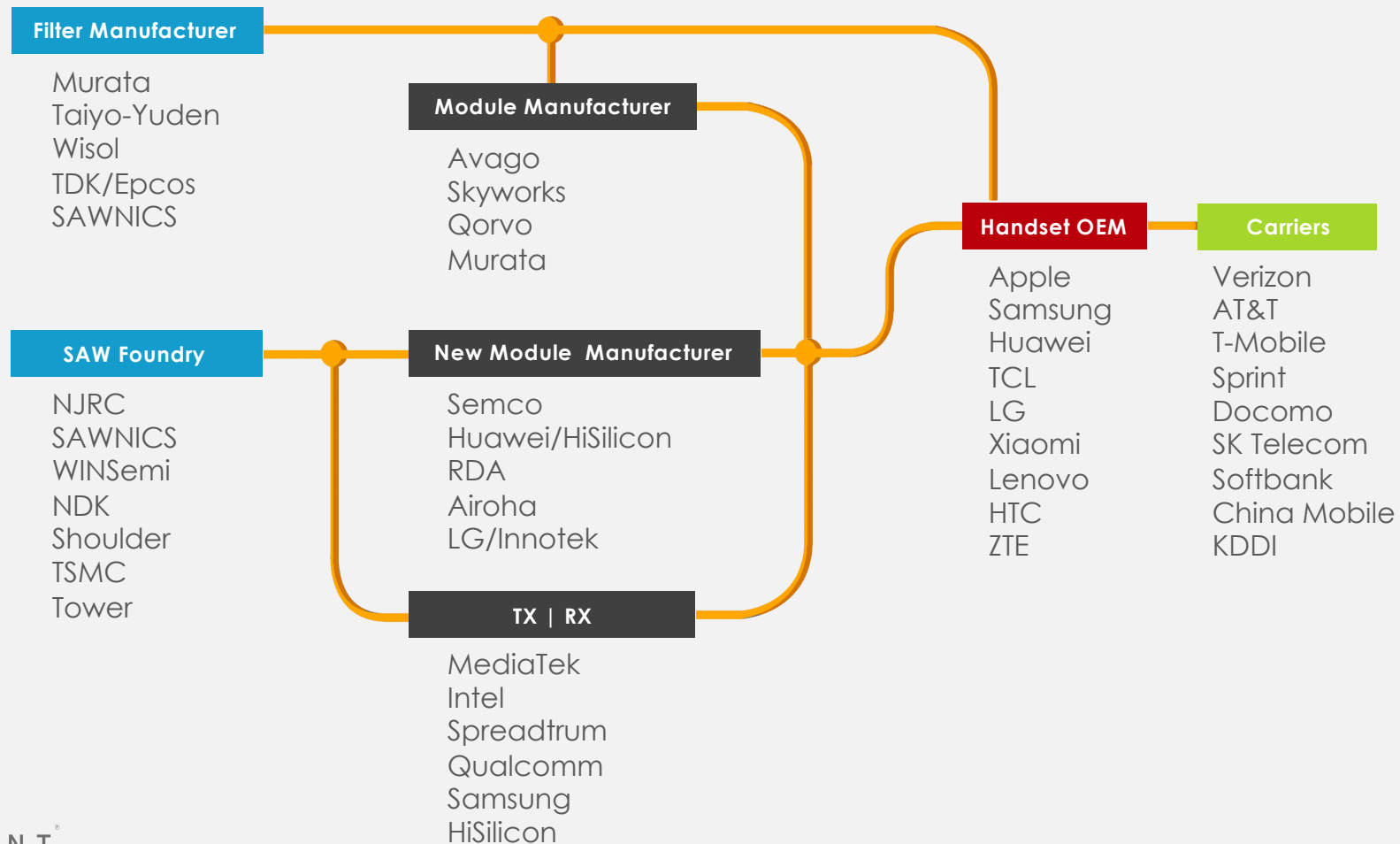


Business Model

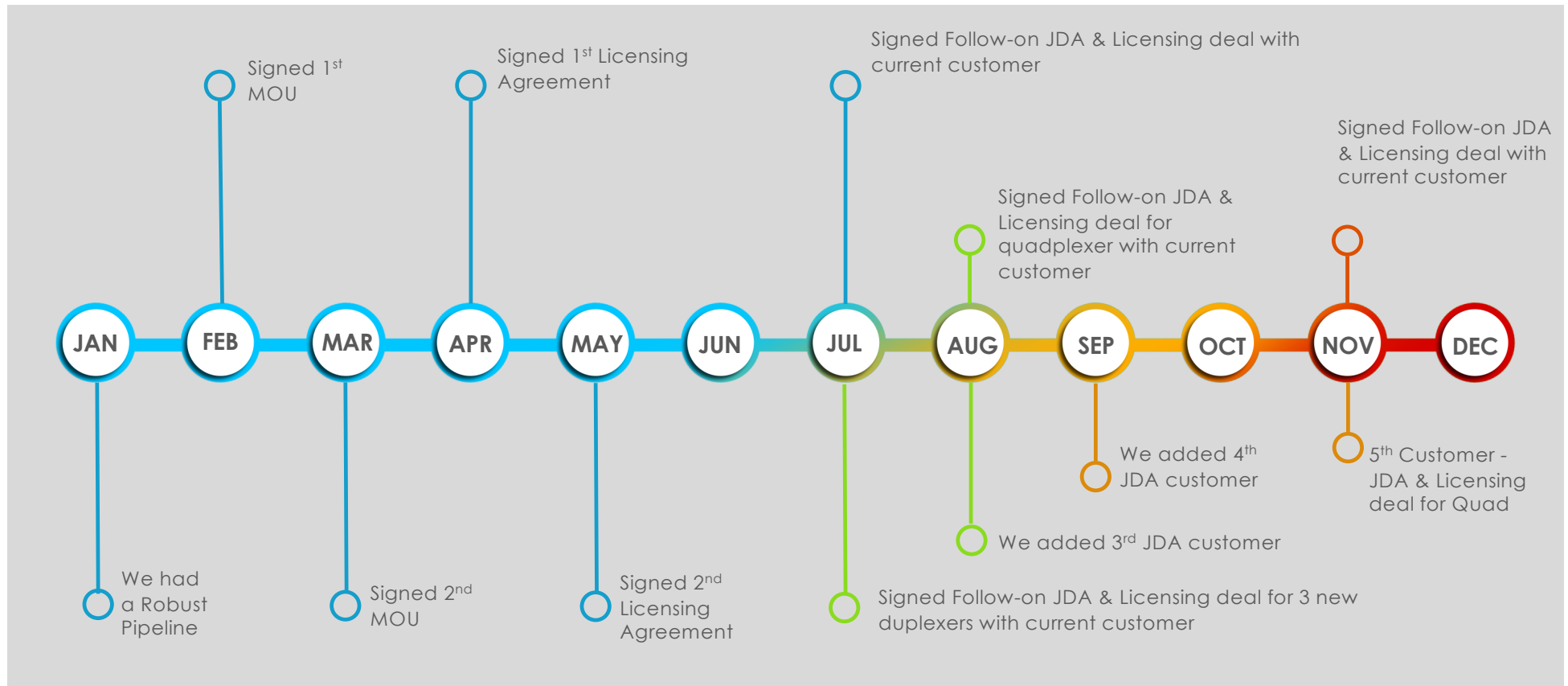
- License Custom Designs for a Per-Unit Royalty and License Fees
 - No costs or overhead for manufacturing a physical product
 - Results in high operating income
- Utilize Existing Manufacturing Methods
 - No modifications or new processes required
- Rapid Design and Quick Time to Market, Expands Potential Customer Opportunities
- Retain all Intellectual Property

Market for Resonant

RESONANT

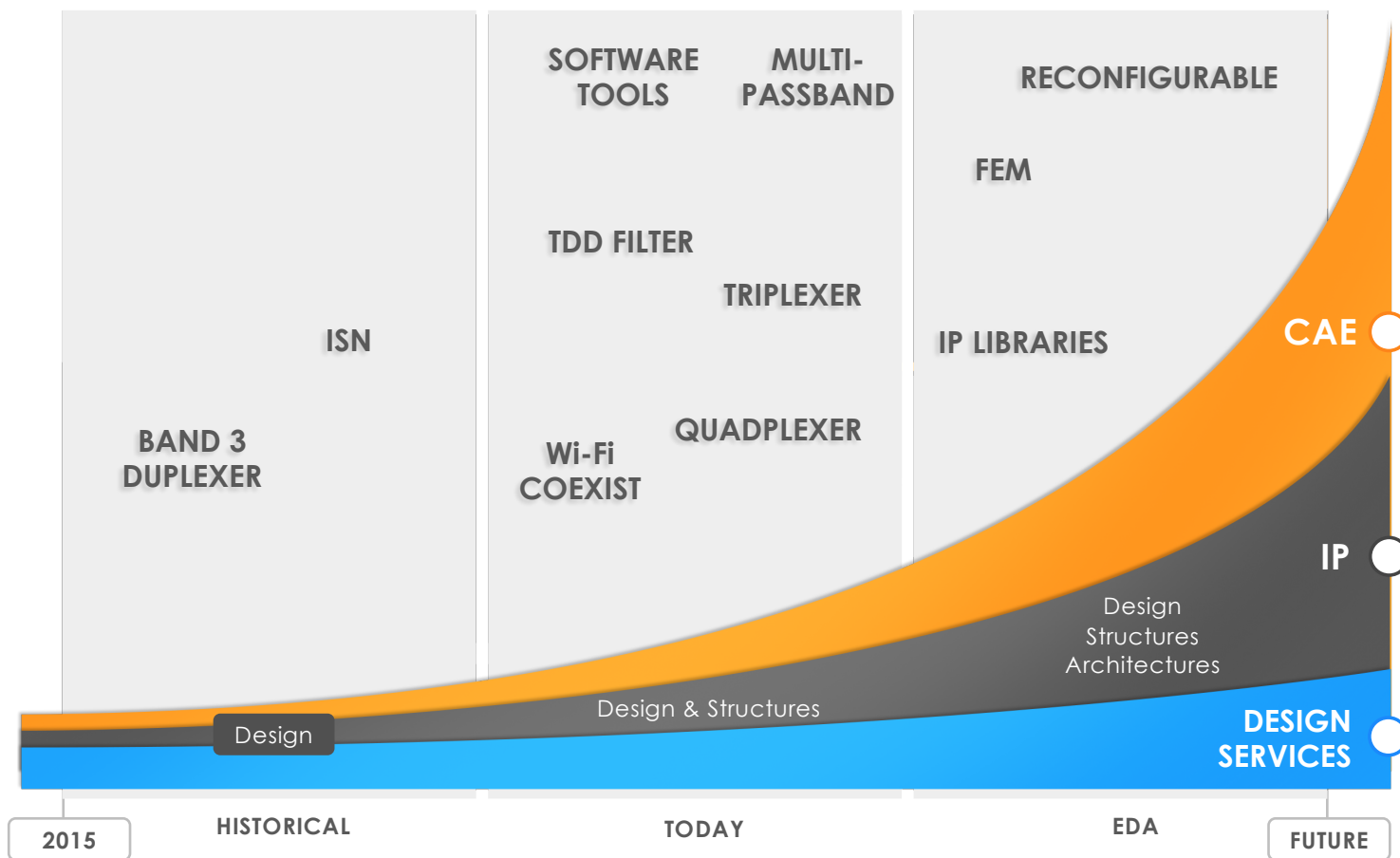


Success in 2016

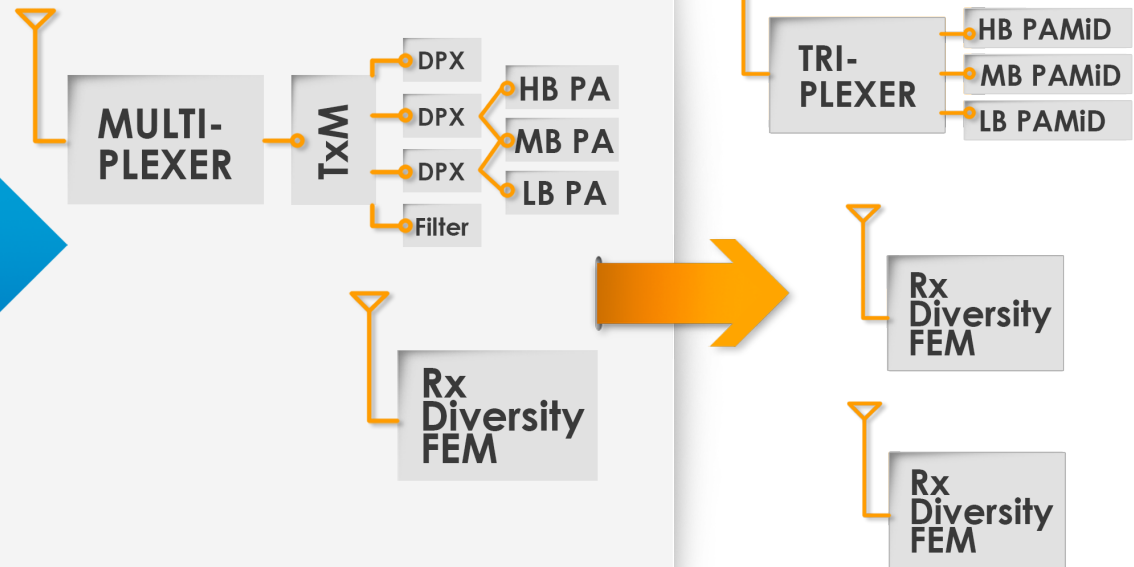
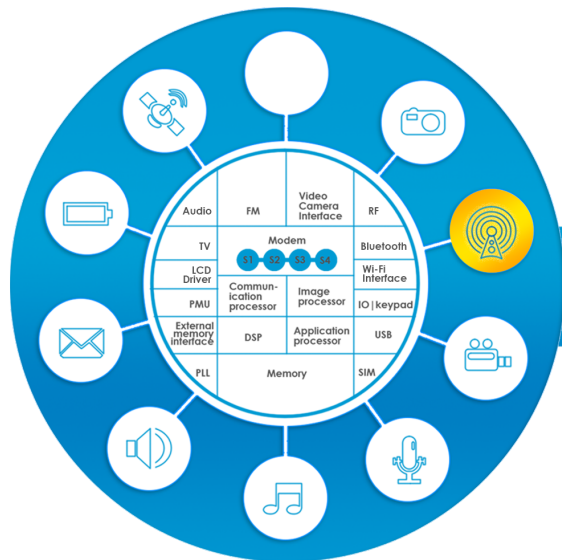


ROADMAP

Resonant Roadmap



ISN : RF Filter Electronic Design Automation (EDA)



EDA | IC

Computer Aided Engineering
Physical Design & Verification
PCB & MCM
Semiconductor IP
Services

ISN | RF Filter Design

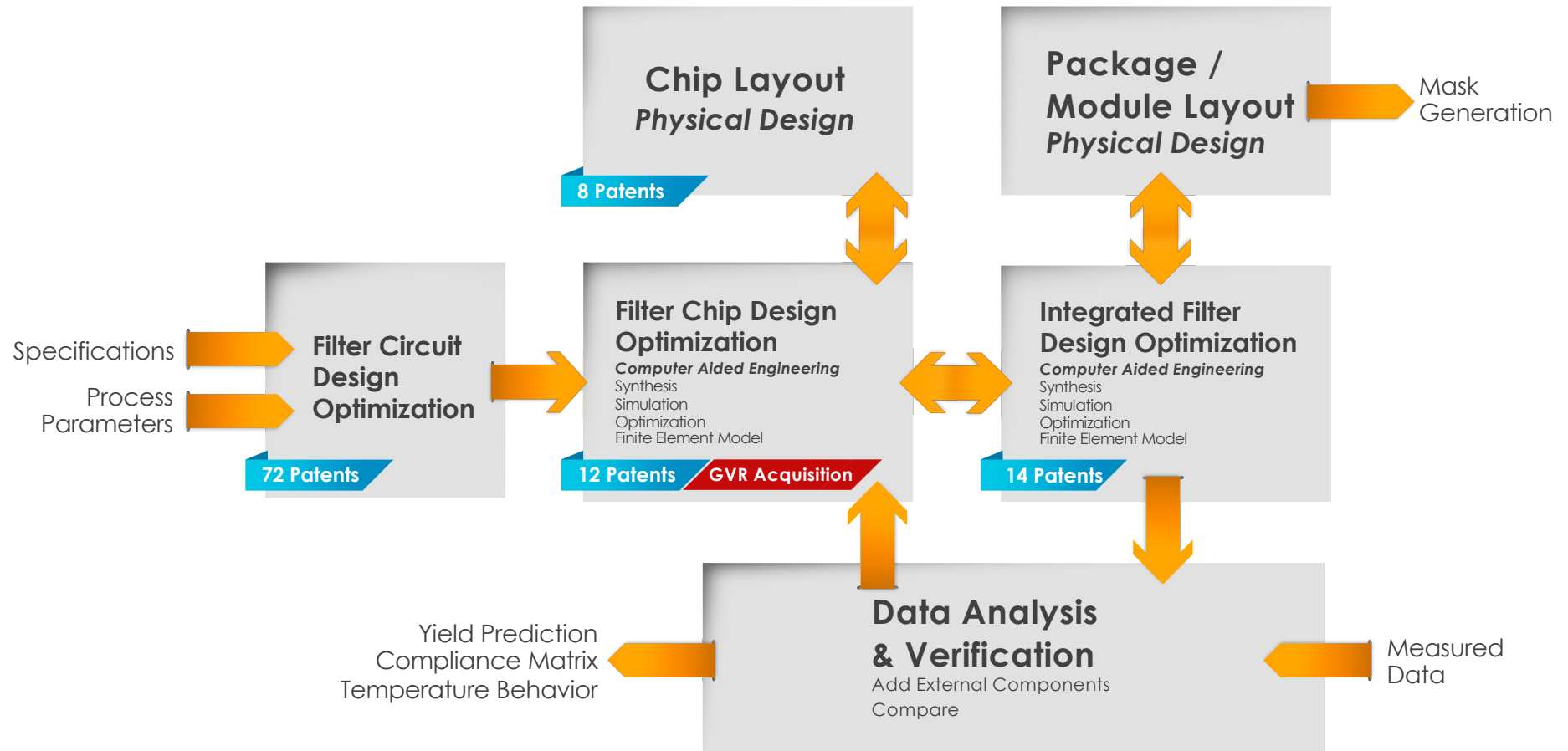
Computer Aided Engineering
FEM –Acoustic and EM
RF Analog IP
RF Design Services

EDA | RF Evolution

Computer Aided Engineering
Physical Design & Verification
Module Integration
RF Analog IP
Custom RF Design Services

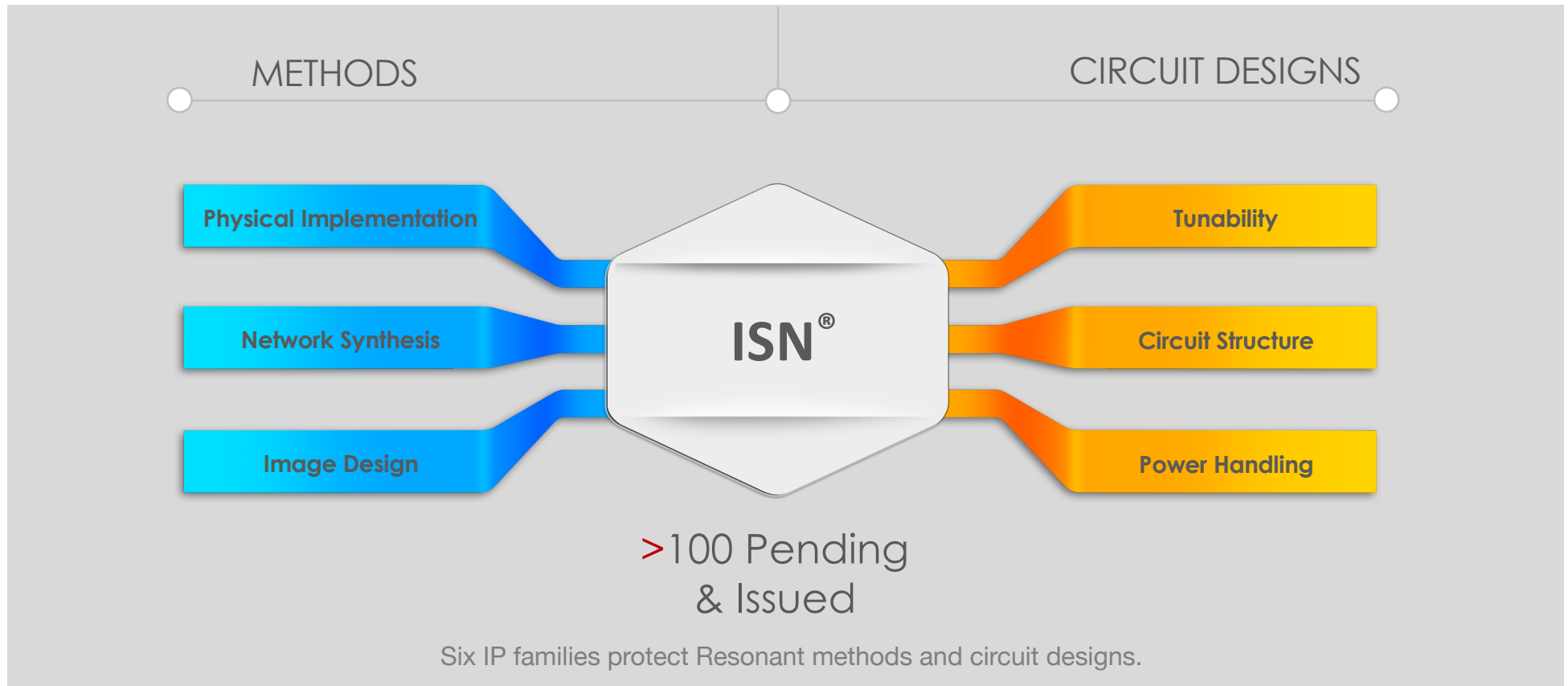
NASDAQ: RESN | 21

■ ISN : Fundamental and Complete Filter Design Suite



Note: Patents issued and pending

IP Portfolio Continues to Grow



Executive Team



Terry Lingren

CEO, Director
& Co-founder

20+ years experience as
a senior technology
executive; BA Physics;
MSEE



George Holmes

President, Chief
Commercial
Officer, Director

30+ years leadership in
sales & marketing and
management



Jeff Killian

CFO

20+ years financial and
accounting
management
experience; BS Finance
and MBA



Bob Hammond

CTO, Director
& Co-founder

20+ years as Founder
and CTO of STI;
Physics Ph.D. Caltech



Neal Fenzi

COO
& Co-founder

20+ years in
engineering, operations
and marketing positions
at STI; BSEE



Independent Board Members

John Major

CEO, Director
& Co-founder

Multiple board memberships with public and private high-tech companies



Tom Joseph

Independent Director

Leader in the RF, semiconductor, cellular, fiber optics and SAW industries.
PhD & MSEE at USC



Rick Kornfeld

Independent Director

VP Engineering and leader of first CDMA effort at Qualcomm; Serial Entrepreneur



Janet Cooper

Independent Director

Financial expertise in capital markets, audit, tax, accounting, treasury and risk-management



Michael Fox

Independent Director

Financial expertise in capital markets, shareholder interests and strategy



■ Balance Sheet

	September 30, 2016
	Actual
Cash, investments & equivalents	\$12.7M
PP&E, gross	\$2.1M
Other current and non-current assets	\$1.2M
Accounts payable and accrued expenses	\$1.5M
Deferred revenue	\$0.2M
Stockholders equity	\$14.3M

Use of Cash:

- Accelerate product development
- Expand advanced development
- Business development
- General and administrative support functions
- Public company costs

Summary

- Market is explosive as the RF front-end industry is undergoing dramatic increases in growth and complexity due to:
 - Band Proliferation, Carrier Aggregation & Overall RF Front-End Complexity
- Resonant EDA solution combines the power of its Infinite Synthesized Networks[®], or ISN[®], technology, with an ever expanding IP portfolio of designs and tools
- Resonant is well positioned to capture the RF Filter EDA market, filling the unmet need in a massive market, in the only significant growth area in mobile
 - Market validation - Pending EDA transaction: Softbank acquires ARM for \$32B a 23 multiple on revenue



NASDAQ | RESN