Resonant Inc.

Corporate Presentation

March 2015

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.

Corporate Overview

NASDAQ: RESN
Headquarters: Santa Barbara, CA
Employees: 20 (at 12/31/14)
IPO 5/29/14 @ $6/share

Resonant is a late-stage development company creating innovative filter designs for radio frequency (RF), front-ends for the mobile device industry.

Resonant uses a fundamentally new technology called Infinite Synthesized Networks®, or ISN®, to configure and connect acoustic resonators, which are the building blocks of RF filters.

At February 27, 2015	
Share Price	$10.40
Market Cap	$71.8 M
Shares Outstanding	6.9 M
Public Float	5.2 M
Insider Ownership	15.2%
Fully Diluted Shares Outstanding*	8.7 M

*Includes 1.04M warrants + 759K options/RSUs

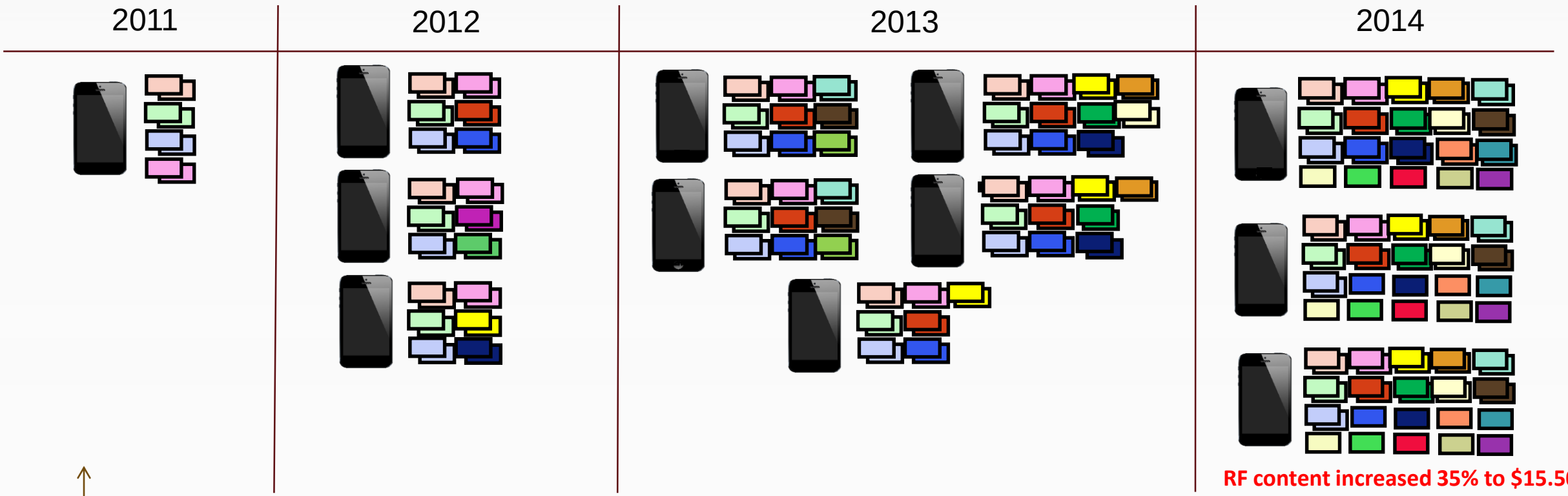
Investment Summary

We have invented a disruptive circuit design platform

Infinite Synthesized Networks (ISN)	• New method of designing RF filters that can displace conventional filters • Can combine multiple RF filters into one
Target Market: Mobile Devices	• Lower costs, smaller sizes, improved performance • Fewer components would dramatically simplify the mobile device supply chain
Unique Intellectual Property	• Biggest fundamental change to mobile device filter design in 80+ years • Aggressively patenting all elements of the ISN system
Licensing Business Model	• Developing 1st commercial designs in collaboration with leading supplier of front-end market • In discussions with other potential licensing partners

The Challenge: Need for A Greater Number of Mobile Data Filters

As carriers use more data bands, mobile devices need more filters



RF content increased 35% to $15.50 for "SKU Consolidation"*

One model with eight filters

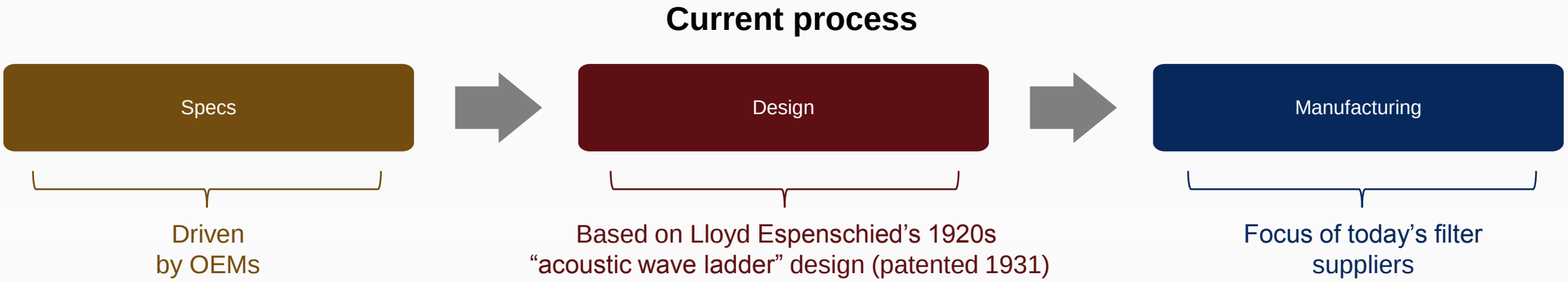
Three models with 31-35 filters each

Illustration

* Cannacord Genuity

State of the Filter Industry

Filter circuit design has not advanced significantly in 80+ years

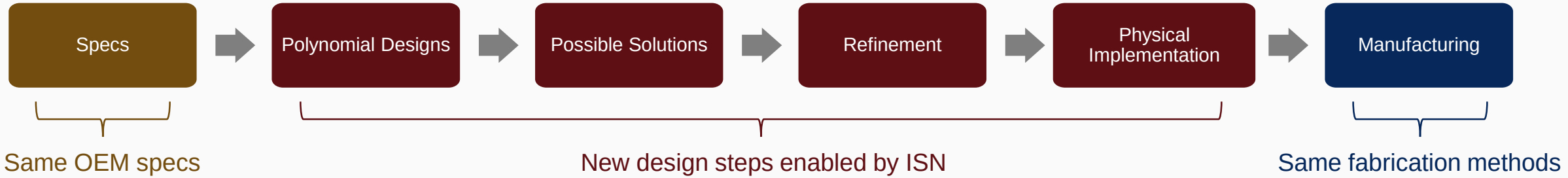


Mobile device suppliers are trying to solve a 21st century problem with a design based on 1920s technology

Our New Design Paradigm

ISN® is a comprehensive suite of circuit design methods and tools

ISN enables several new design steps



Our team created ISN from 2005 through 2010 at Superconductor Technologies, Inc. (STI)

- STI makes the world's highest-performance RF filters (for telecom base stations)
- We found that ISN designs could also work with non-superconducting materials
- We spun Resonant out of STI in July 2012

Commercialization Strategy

We are pursuing two RF filter markets

Single Band Designs: Improve Existing Filters

- Traditional surface acoustic wave (SAW) filters struggle in “hard bands”
- Therefore, manufacturers use more expensive bulk acoustic wave (BAW) filters
- ISN can improve SAW filters to work in difficult bands

Tunable Designs: From Many Filters to One

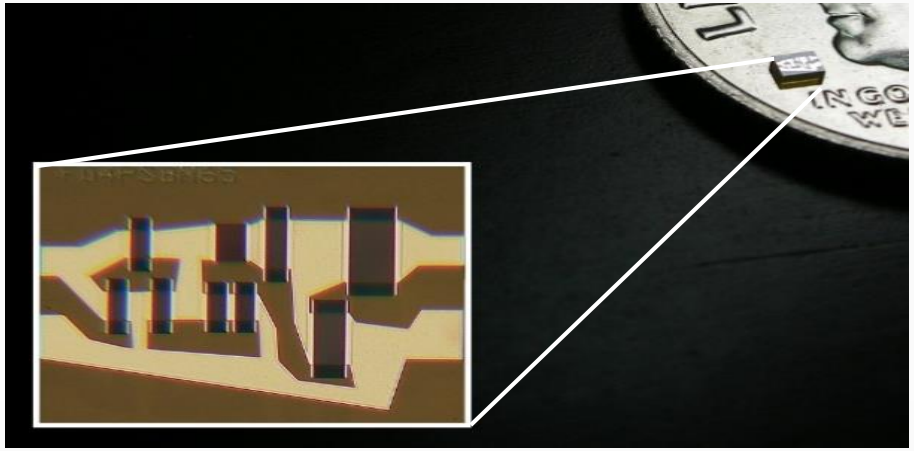
- A filter that can “tune” to multiple bands could replace several existing filters
- This would result in significant size and cost savings
- We believe ISN can create such a “tunable” filter

Single Band Designs

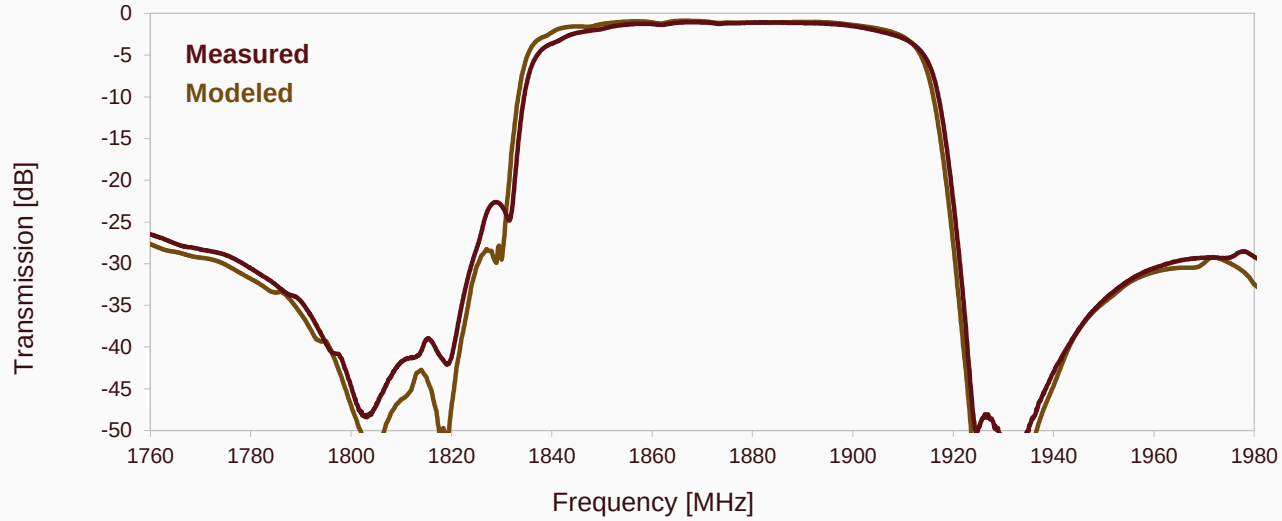
Single Band | Tunable Designs

Initial filters show great promise on both performance and price

Our initial SAW demonstration duplexer…



… had almost perfect alignment with what our ISN model predicted



Avg. Cost of BAW Duplexer*	$0.62
Avg. Cost of SAW Duplexer*	$0.28
Difference (Enabled Margin)	$0.34

<u>Projected Filter Market:</u>
20 billion units in 2014
Growing to 35 billion units by 2017*

* Navian Research, 2013

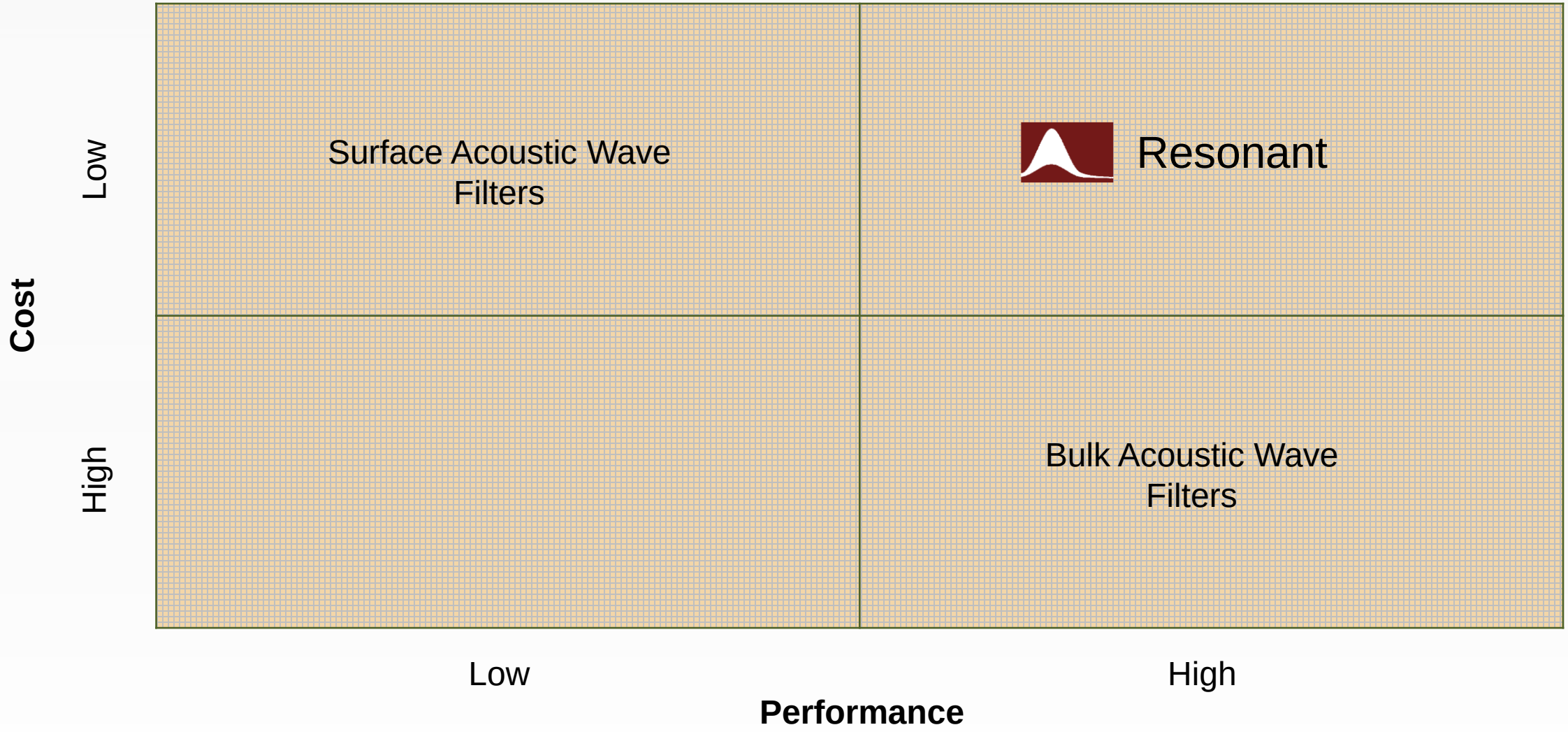
Our First Single Band Design

- We are collaborating with a leading supplier for the front-end market
- Three years of diligence before entering development agreement
- In Q1 2015, we delivered a completed duplexer design to our first customer for consideration
- They can elect to license our design under pre-negotiated financial terms; otherwise, we are able to license the design to other potential customers

Technology Landscape

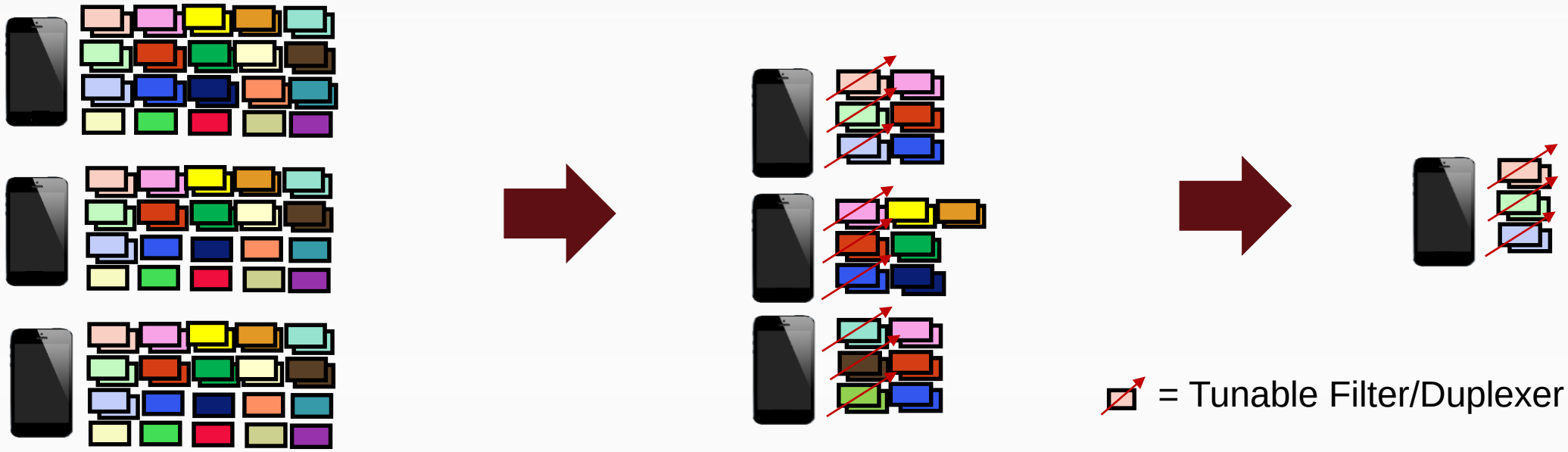
Single Band | Tunable Designs

We will work to partner with key players in the RF filter marketplace



Tunable Filter

We plan to reduce front-end filters using tunable filters



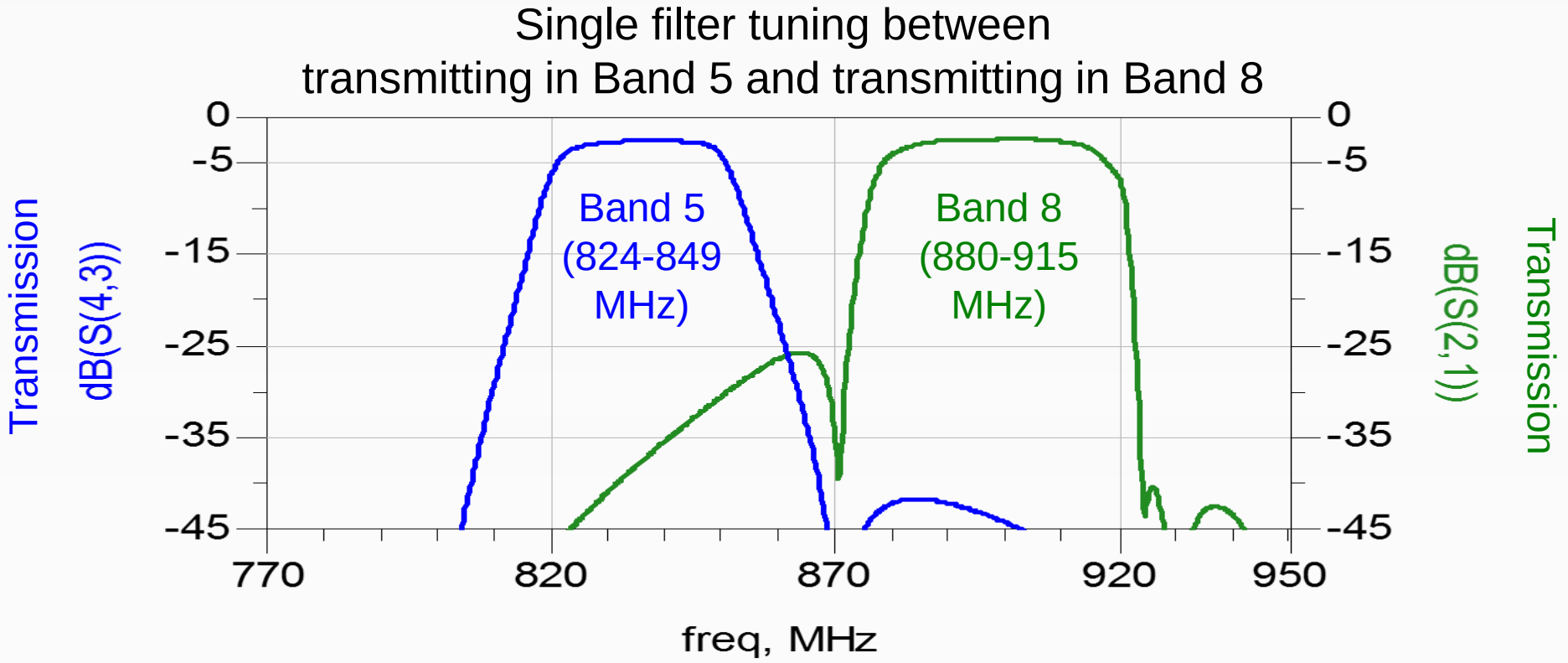
Cost Filter Set (2017)*	$1.85
Cost of Tunable Filter (Projected)	< $1.00
Difference (Enabled Margin)	> $0.85

We may also be able to reduce the number of power amplifiers and switches, which would result in a greater enabled margin

* Navian Research, 2013

Our Initial Results

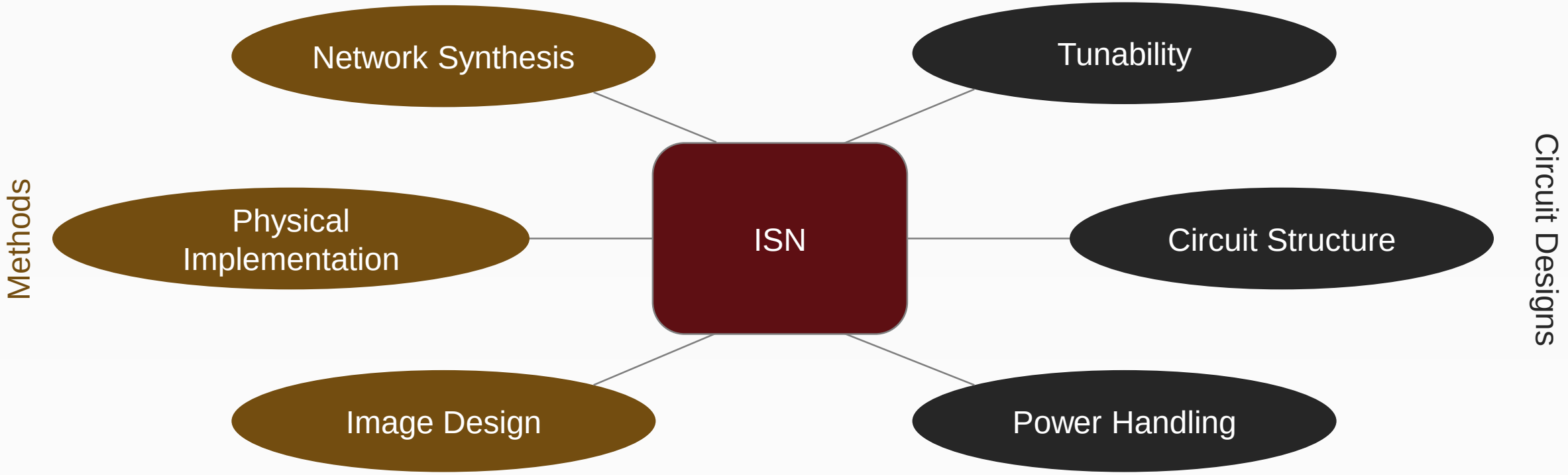
We have demonstrated a prototype two-band tunable filter



Initiated the design of a tunable filter prototype in 4Q14

Our Patent Strategy

Six patent families protect our methods and circuit designs



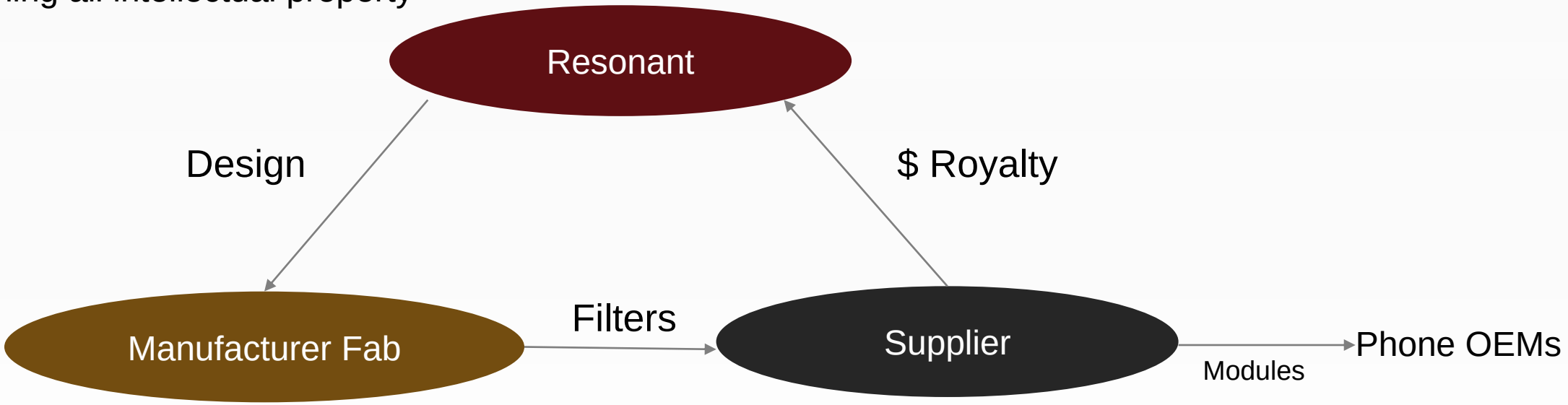
- 50 issued and pending patents
- Patent portfolio is expected to continue to expand

Business Model

We intend to license our designs to manufacturing partners

Our strategy encompasses:

- Licensing our custom designs to suppliers for a per-unit royalty
- Not manufacturing physical product
- Utilizing existing manufacturing fabs
- Generating high gross margins
- Retaining all intellectual property



2015 Key Milestones

Clear Pathway to Growth

- Achieve first product “Design Completion” in 1Q15
- Expand customer base (add one or more customers) and have multiple product development projects underway by year end
- Commence generating revenue in 2H15
- Complete tunable prototype design by year end
- Double technical staff to 20 by year end

Management Team & Board of Directors

NAME	BACKGROUND	SELECTED CURRENT and PAST AFFILIATIONS
Terry Lingren CEO, Chairman & Co-founder	20+ years experience as a senior technology executive; BA Physics; MSEE	Kyocera, Qualcomm
John Philpott CFO	20+ years financial and accounting management experience; MBA UCLA	Select Staffing, Miravant Medical Technologies, Ernst & Young
Bob Hammond CTO, Director & Co-founder	20+ years as Founder and CTO of STI; Physics Ph.D. Caltech	STI Superconductor Technologies Inc., Los Alamos National Laboratory, Caltech
Neal Fenzi COO & Co-founder	20+ years in engineering, operations and marketing positions at STI; BSEE	STI Superconductor Technologies Inc., BSEE Bureau of Safety and Environmental Enforcement
Mike Eddy VP, Marketing	Founder and President of ANTONE Wireless; STI; Chemistry Ph.D. Oxford; MBA	ANTONE Wireless, Westell, STI Superconductor Technologies Inc.
Dan Christopher VP, General Counsel & Secretary	25+ years public company experience; BSEE Villanova; JD Columbia Law	Irell & Manella LLP
John Major Independent Director	Multiple board memberships with public and private high-tech companies	Broadcom, Motorola
Rick Kornfeld Independent Director	VP Engineering and leader of first CDMA effort at Qualcomm; Serial Entrepreneur	GRID2HOME Smart Energy Solutions, Texas Instruments, Qualcomm
Janet Cooper Independent Director	Financial expertise in capital markets, audit, tax, accounting, treasury and risk-management	Toro, Lennox International, Qwest