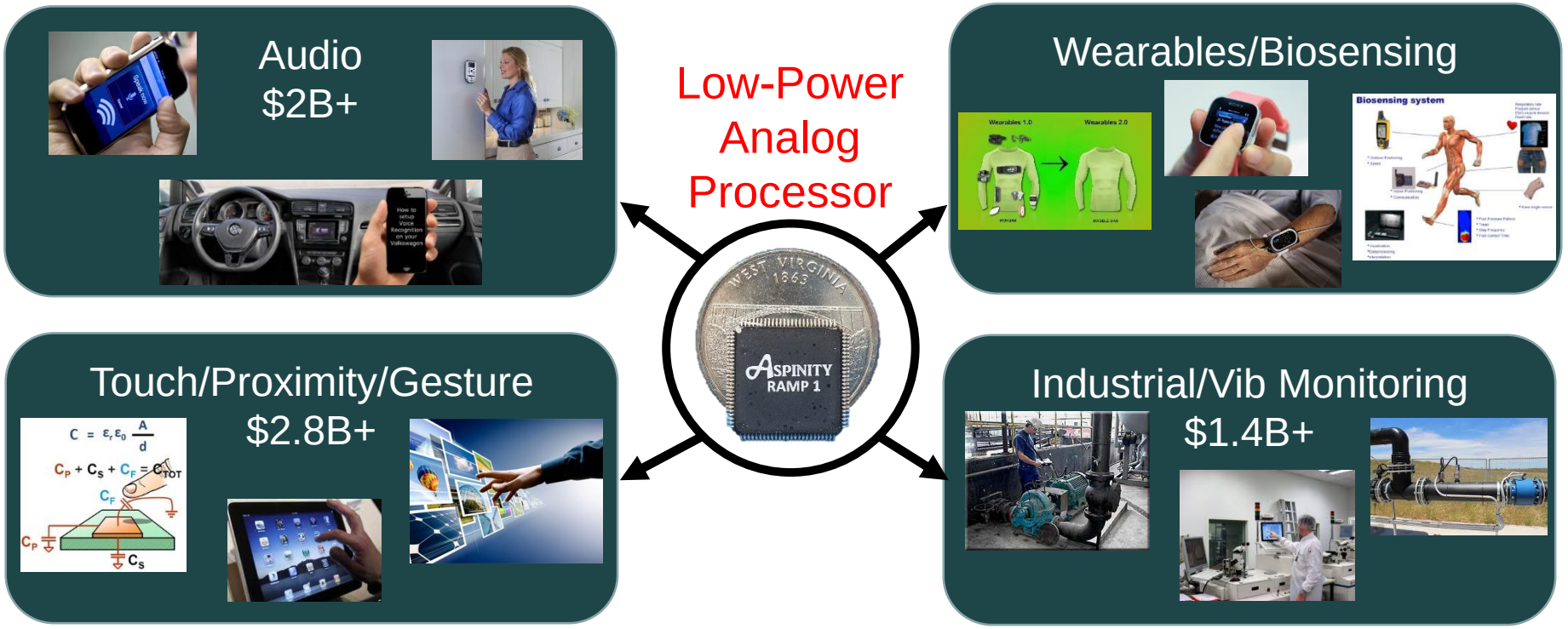
# Aspinity, Inc.

TransTech Conference

November 2016

# Broad Applications for Aspinity

- IoT is big opportunity for semiconductors
- Need solutions to data and power challenge

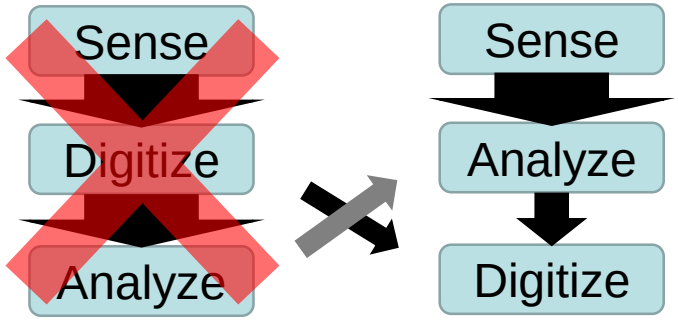


# Analog Solution to Power/Data Challenges

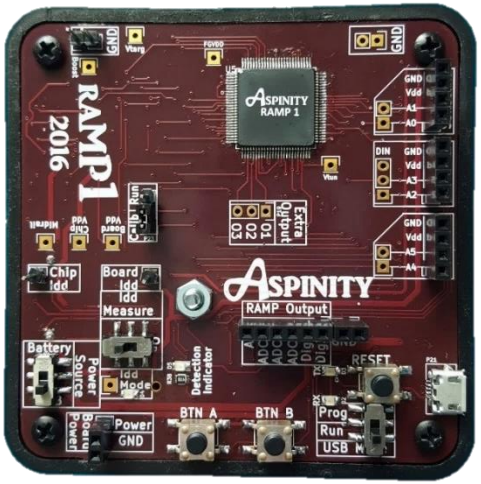
Voice Commands

**Digitizing non-speech burns most "always-on" power (up to 90%)**

- Why digitize ALL sensor data?
  - Inefficient!
- Competition stuck in digital paradigm!



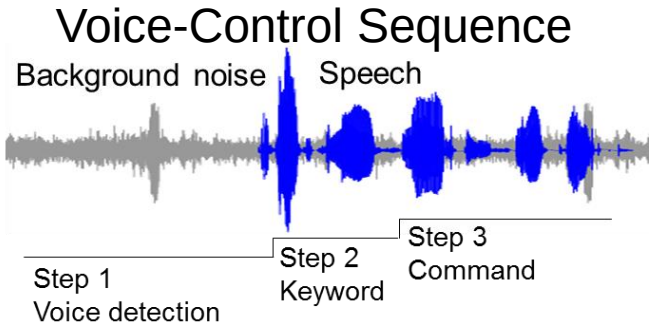

**Aspinity "RAMP" Development Platform**




- Solution: Analyze/reduce sensor data in analog
  - Nonlinear analog replicates digital tasks
  - Drop system power by ~10X!
- Afraid of analog processing? We take care of it!
  - Precise programmable analog with on-chip calibration/biasing
  - Easy-to-program analog (similar to DSP/MCU)

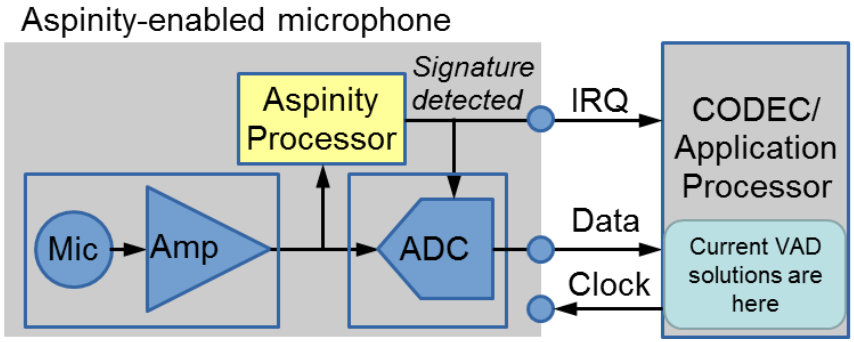
# Lead Product: Voice Detector

## Aspinity voice detector fits in existing microphone package!




- Digitizing non-speech burns most “always-on” power (up to 90%)
- Aspinity’s analog voice detector wakes downstream ADC/DSP
  - Just 10µA current draw

| | Voice Detection Total | Keyword Total (5% voice) |
|---|---|---|
| **Industry** | 360µA – 1.8mA | 400µA – 1.9mA |
| **Aspinity** | 26µA | 47µA |




- “Drop in” solution to create “smart microphones”

# Aspinity Factsheet

WVU spin out


"Hot startup to watch"

## Strong Team

- 3 PhD designers
- Industry veteran in sales/management

## Innovative, Protected Technology

2 patents awarded, 4 pending

## Low Burn

- Programmable prototype
- Fabless business model

## Broad market opportunities

# Thank You!

## Contact:

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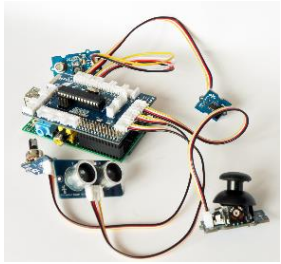
www.aspinity.com

## Applications:

Voice/Audio
10x power reduction
$1.81B Mkt by 2020

Cap Touch
10x power reduction
$2.8B Mkt by 2017

Vibration Monitoring
100x analog data compression
$1.4B Mkt by 2020



Sensor Interface & Conditioning
Programmability!
Many ICs to replace with 1!