



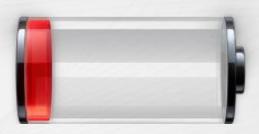
### SAFE HARBOR STATEMENT

#### Safe Harbor Statement Under the Private Securities Litigation Reform Act of 1995

This presentation contains statements that are forward-looking including statements relating to the size of the total addressable market for our products and services, the compound annual growth rate for mobile market sectors, expectations relating to our new products, the time to market for various of our product innovations, expectations relating to our product innovations, our anticipated platform silicon roadmap and the expected timeline related to such roadmap, opportunities for our pipeline and our positioning for long-term, sustainable revenue growth, the benefits of our mobile-specific programmable logic to customers, the benefits of our solutions platforms, our plans with respect to new product revenue growth, our long-term target operating model, our projections related to our revenue, gross margin, expenses, operating income, net income and earnings per share. These forward-looking statements involve risks and uncertainties including but not limited to expectations relating to production targets for our New Products, revenue growth from our new products, our design activity and our ability to convert new design opportunities into customer activity, market acceptance of our customers' products and our expected results. In addition to U.S. GAAP financials, this presentation includes certain non-GAAP financial measures. These historical and forward-looking non-GAAP measures are in addition to, not a substitute for or superior to, measures of financial performance prepared in accordance with U.S. GAAP. QuickLogic's future results could differ materially from the results described in these forward-looking statements. These and other risk factors are detailed in QuickLogic's periodic reports and registration statements filed with the Securities and Exchange Commission. QuickLogic expressly disclaims any obligation to update or revise any forwardlooking statements found herein to reflect any changes in Company expectations or results or any change in events.



## THE PROBLEM WE SOLVE



80% of respondents chose battery life as one of the most important features when deciding on their smartphone purchase.

ChangeWave Research, a service of 451 Research Sept 2016



Accel

## PLETHORA OF EMERGING SENSORS

#### **Motion Sensors**



Mag





**Heart Rate** 



**Biological Sensors** 



**Environmental Sensors** 









**Gesture Sensors** 





















### NEW APPLICATIONS AND USE CASES DRIVING GROWTH

Today's sensor processing tasks are considered FUNDAMENTAL

OEMs will differentiate through more *IMMERSIVE* consumer experience



Pedometer and **User Activity** 



Calibration

User

**Transport** 







Motion-Compensated **Heart Rate** 



Indoor Navigation



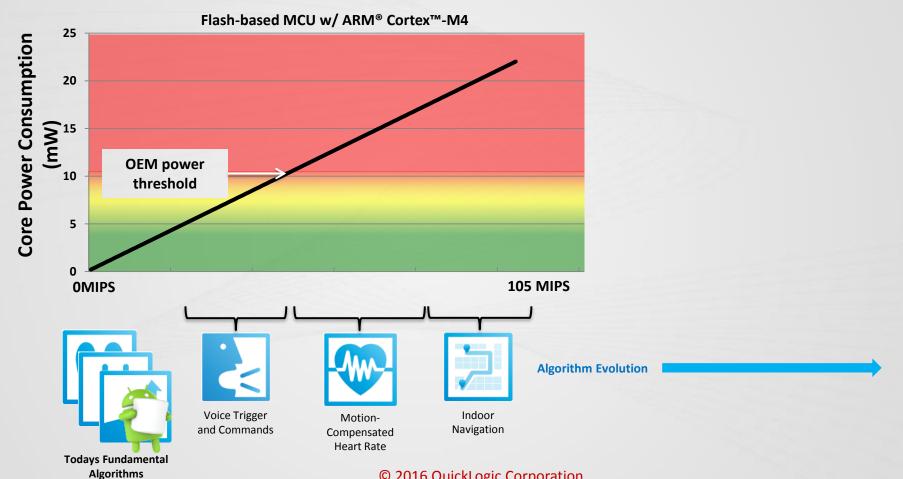
Voice Trigger and Commands



Advanced Health and Wellness, Environmental Monitoring, new ideas and concepts....



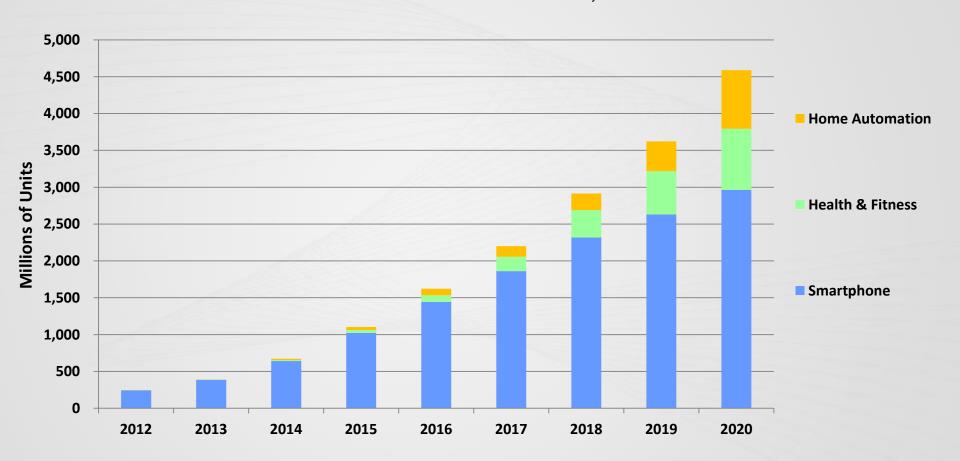
### IMMERSIVE EXPERIENCES CREATE POWER CHALLENGES





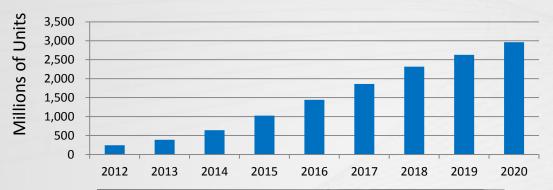


## SENSOR HUB - HIGH GROWTH, HIGH VOLUME MARKETS

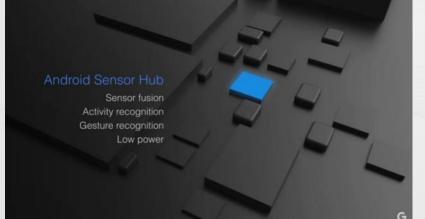




### SMARTPHONES - ~3B UNIT OPPORTUNITY







"With the launch of the new Nexus 6P and Nexus 5X, Google is including a new "Sensor Hub" to enable the phones to be even more aware of their surroundings." Engadget – Sept 29 2015 at Google Launch Event



### **WEARABLES**





"...Power efficient sensor hubs, such as QuickLogic's EOS platform, will be THE enabling hardware that allows device designers to quickly and easily incorporate multiple advanced features without increasing power drain."

Tom Hackenberg, Principal Analyst @ IHS iSuppli – Sept, 2015



### CASE STUDY: ENABLING 6 MONTHS OF BATTERY LIFE





"By combining the classic elegance of a fashionable analog watch with our world class activity tracking and the ultra-long battery life we get from using QuickLogic's unique products, we believe the Runtastic Moment will be a disruptive force in wearable technology."

Florian Gschwandtner, CEO and co-founder of Runtastic





### **KEY TECHNOLOGIES & CORE IP**

- 1. Patent-pending Sensor Processing Architecture
- 2. Patent-pending Sensor Fusion Algorithm Libraries
- 3. Patented Ultra-Low Power Programmable Logic

More than 50 patents granted across all technologies and IP

Portable across multiple semiconductor foundries and process nodes, making it highly scalable



### THE HEART OF OUR SENSOR HUB STRATEGY

# **Flexible Fusion Engine**

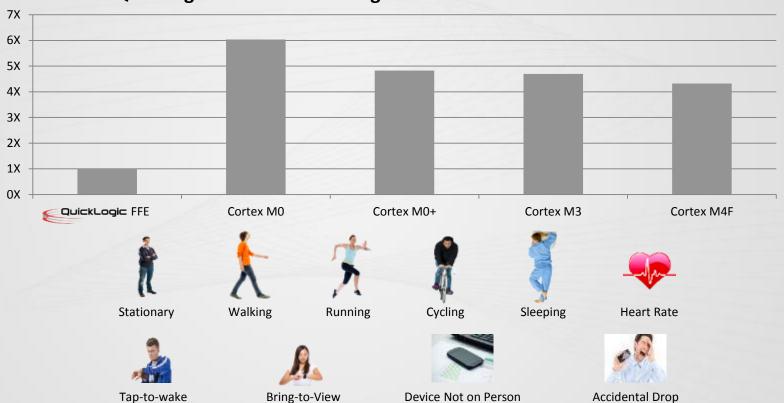
- Patent-Pending MicroDSP optimized for Always-On, Real-Time Sensor Processing
- Integrated into all of our sensor processing silicon devices
- 70% better power consumption than traditional microcontroller implementations





## ARCHITECTED FOR LOWEST POWER

### **QuickLogic Flexible Fusion Engine Lower Power than ARM Cortex**





## 1<sup>ST</sup> CORNERSTONE OF SENSOR PROCESSING SYSTEM

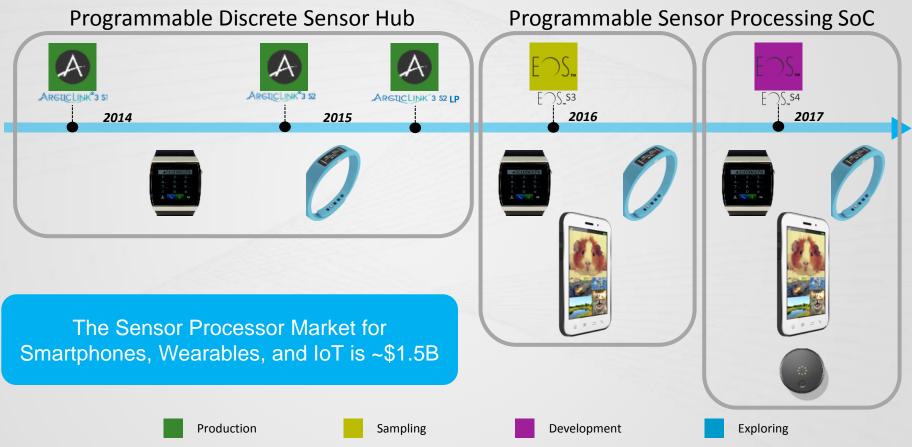
### **Silicon Platforms and Roadmap**







### GROWTH IN PROCESSING CAPABILITY = LARGER MARKET





## 2<sup>ND</sup> CORNERSTONE OF SENSOR PROCESSING SYSTEM

### **Silicon Platforms and Roadmap**





### SenseMe<sup>TM</sup> Sensor Algorithms





& Fusion



Recognition



Classification



Activity Monitoring

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### **OUR ALGORITHM DESIGN PHILOSOPHY**



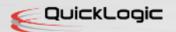
- We achieve longer battery life through a system approach:
  - Using the lowest power, and as few sensors, as possible
  - Being frugal with our algorithm memory requirements
  - Ensuring we minimize host processor computational requirements



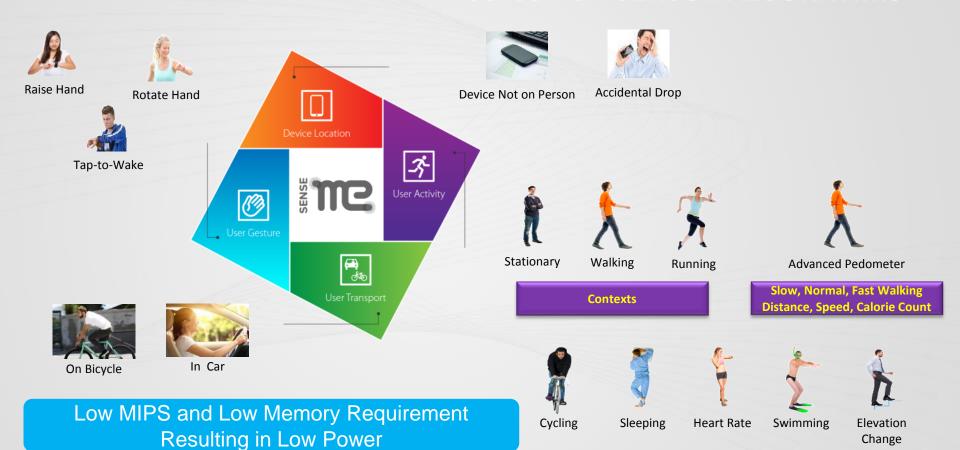
We achieve best-in-class accuracy through real-world testing with extensive consumer use cases



We enable ease-of-integration through a comprehensive software framework and tools



### SenseMe™ SENSOR ALGORITHMS



Change



### **BEST-IN-CLASS PEDOMETER ACCURACY**



97% Accuracy



Leading Fitness Band

95% Accuracy



Leading Fitness Smartwatch

87% Accuracy

**Test Results** 

• Test data produced by leading smartphone OEM, verified by QuickLogic

QuickLogic's Comprehensive Testing

 Includes multiple conditions; several device locations, cadence, gender, age, and height



# 3<sup>RD</sup> CORNERSTONE OF SENSOR HUB STRATEGY

### **Silicon Platforms and Roadmap**





### **Sensor Algorithms**





& Fusion

13

Recognition





Context Classification

Activity Monitoring

**Reference Designs** 













C-to-FFE Complier



## REFERENCE DESIGNS TO ACCELERATE TIME-TO-MARKET





## 4<sup>TH</sup> CORNERSTONE OF SENSOR HUB STRATEGY

### **Silicon Platforms and Roadmap**



#### **Reference Platforms**







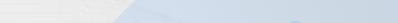








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**Sensor Algorithms** 









Sensor Calibration & Fusion

Gesture Context Recognition Classification

Activity Monitoring

**Qualified Vendor List** 















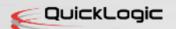








**Flexible Fusion Engine** 



# QUALIFIED VENDOR LIST SPEEDS TIME-TO-MARKET

Our close collaboration with sensor vendors enables us to deliver solutions to the market as new sensors become available.















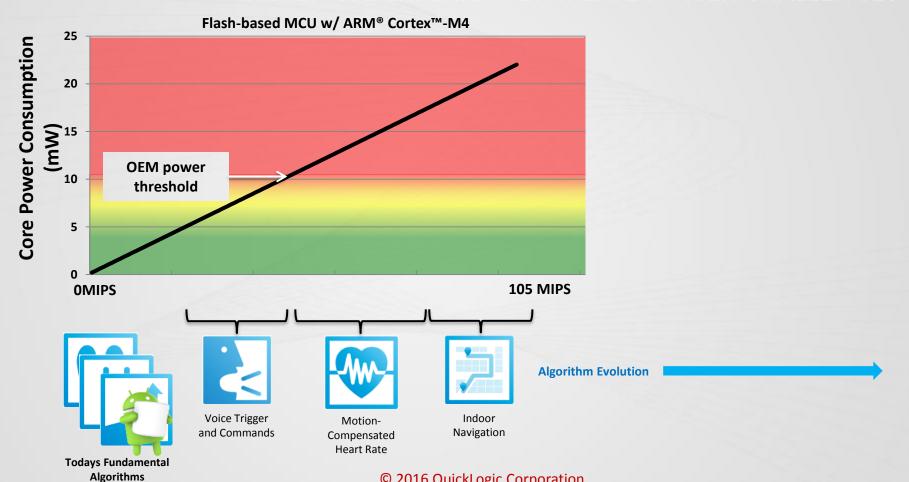






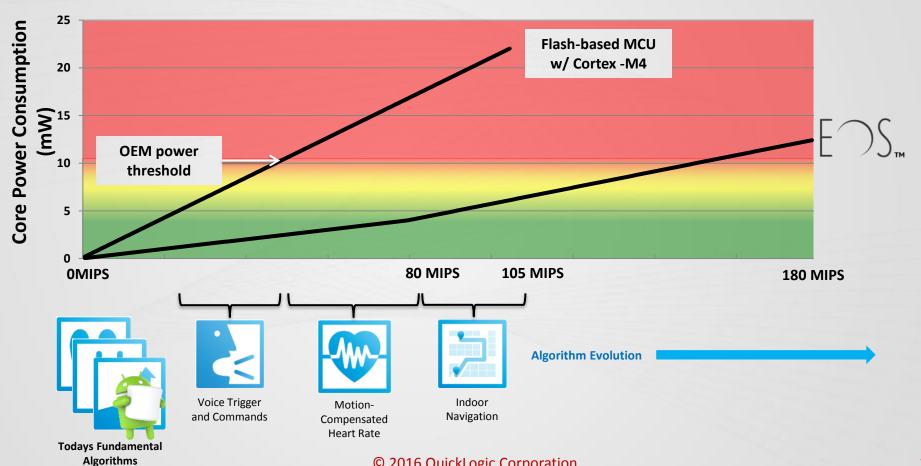


### IMMERSIVE EXPERIENCES CREATE POWER CHALLENGES





## QUICKLOGIC CHANGES THE POWER EQUATION





### COMPREHENSIVE SENSOR PROCESSING SYSTEM

### **Silicon Platforms and Roadmap**



### **Reference Platforms & Design Tools**



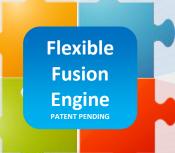












### SenseMe<sup>™</sup> Sensor Algorithms





& Fusion







Context

Activity Monitoring

Classification Recognition

### **QVL & Ecosystem Partners**





































### SENSOR PROCESSING MARKET DYNAMICS

Offloading sensor processing to a dedicated processor makes sense The question is where it should be located?

Battery Life is the most significant factor in the growth of the discrete sensor processor market.

In Wearables and IoT, the sensor processor will be the SoC



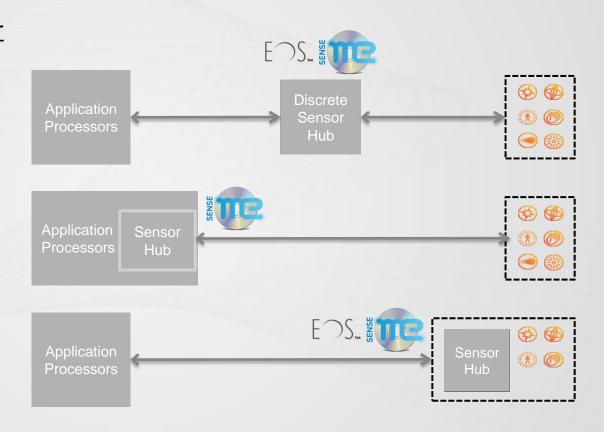
# QUICKLOGIC HAS SOLUTION FOR ANY ARCHITECTURE

### **Location of Sensor Processor**

Discrete Sensor Hub

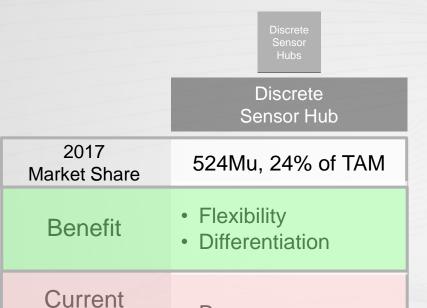
**AP-Integrated** 

Sensor w/ Integrated MCU





## **EXISTING ARCHITECTURES**

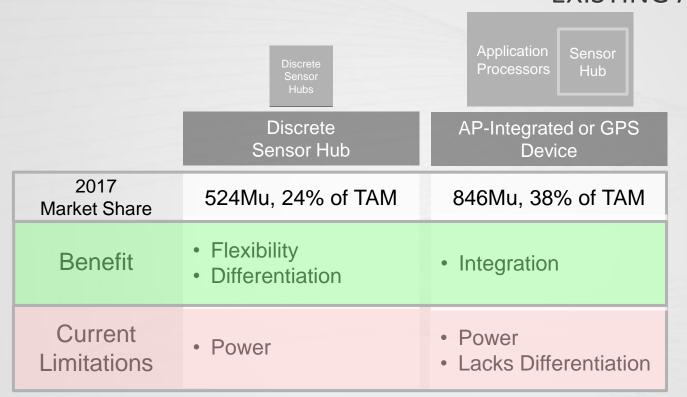


Power

Limitations

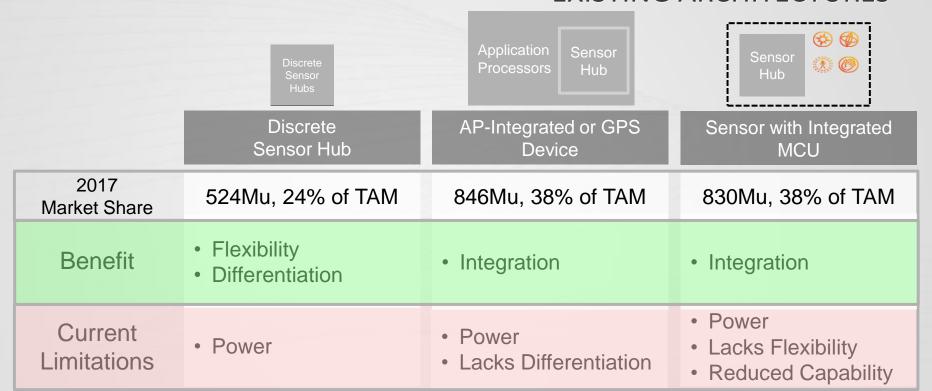


## **EXISTING ARCHITECTURES**



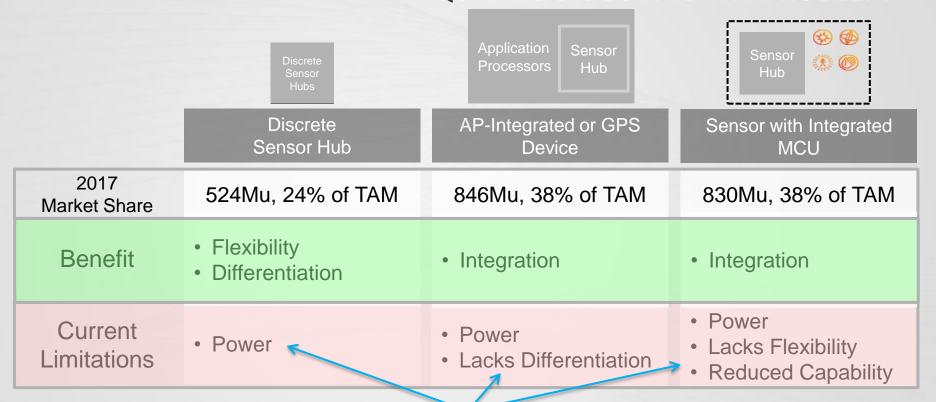


### **EXISTING ARCHITECTURES**





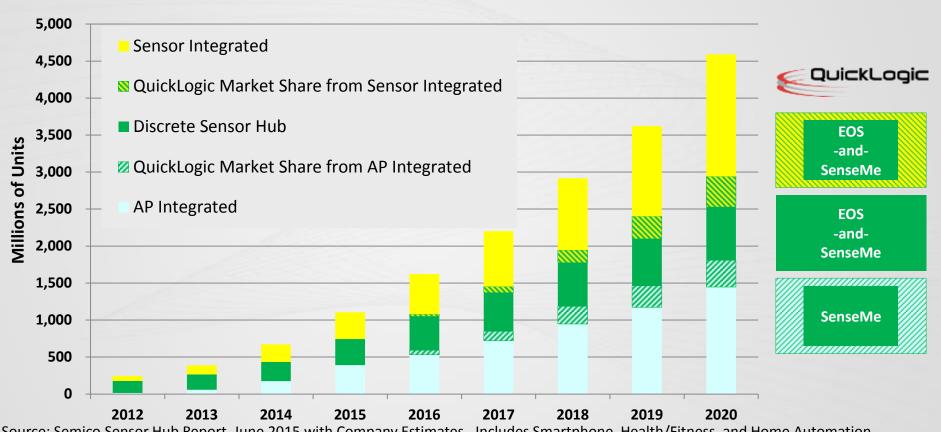
## QUICKLOGIC SOLVES THE PROBLEM



QuickLogic solves the power, differentiation and flexibility problems

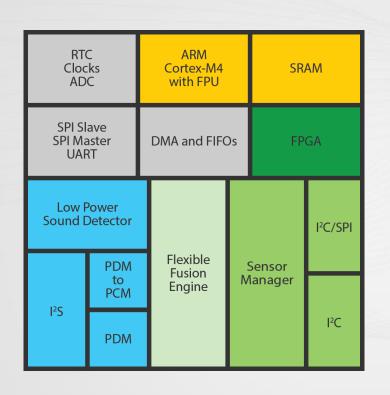


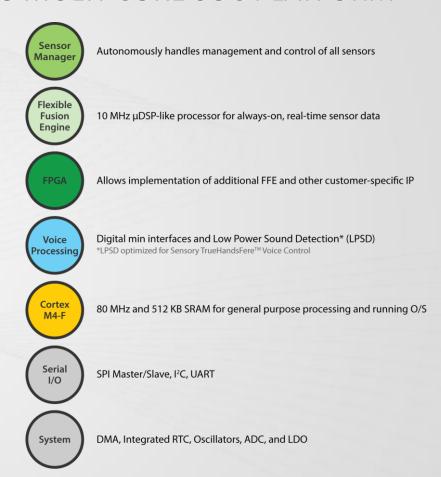
### QUICKLOGIC IN POSITION TO MONETIZE ALL SEGMENTS



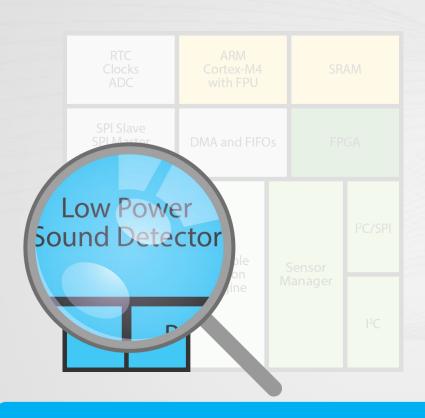
Source: Semico Sensor Hub Report, June 2015 with Company Estimates. Includes Smartphone, Health/Fitness, and Home Automation.







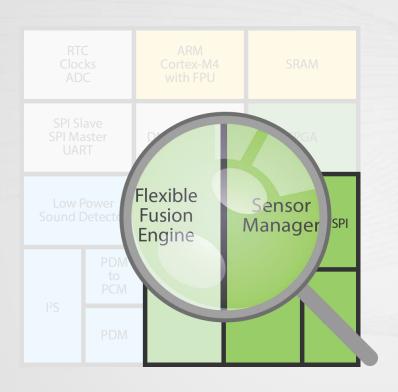




Digital min interfaces and Low Power Sound Detection\* (LPSD) Voice Processing \*LPSD optimized for Sensory TrueHandsFere<sup>TM</sup> Voice Control

The <u>lowest power</u> always-listening voice recognition

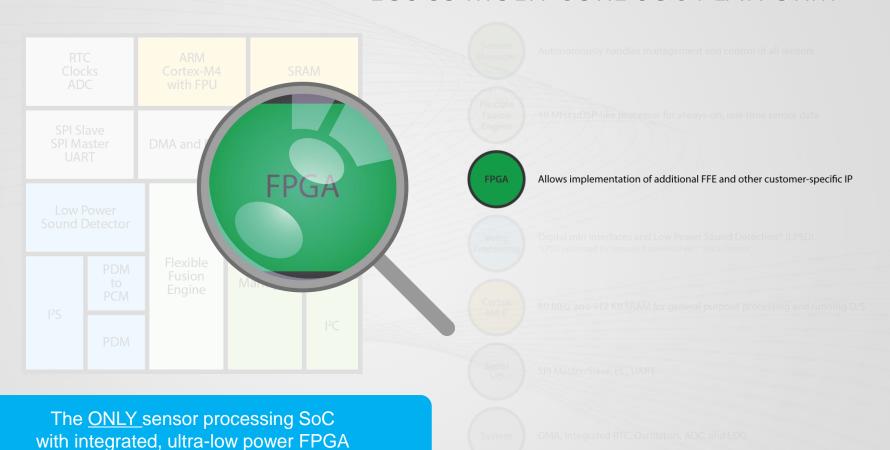






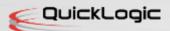
The lowest power always-on sensor processing engine





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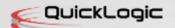
## SCALABLE GROWTH STRATEGY

- 1. Grow market share in Wearables → Establish defendable value proposition
- 2. Leverage success in Wearables to Smartphones → Grow significant volume
- 3. Leverage success in Smartphones to Consumer IoT  $\rightarrow$  Diversify into adjacent segments
- 4. Leverage success in Consumer IoT to Industrial IoT  $\rightarrow$  Diversity into adjacent customers



All the above segments can be penetrated with <u>only two devices</u> from the newly launched EOS S3 and next generation EOS S4





#### CORPORATE SUMMARY

**Disruptive** Technology • Sensor Processing SoCs and Re-programmable Logic ICs, software libraries and algorithms drive higher performance at far lower power usage

Large, High **Growth Markets** 

- Smartphones, Wearables, Tablets, and IoT
- QuickLogic potential addressable market of ~\$1.5B by 2018

**Top Tier** Customer Adoption









**Strong Ecosystem** 



















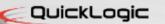






**Corporate** 

- NASDAQ: QUIK, HQ in Silicon Valley; R&D: Sunnyvale, Bangalore
- Field Sales and Support: South Korea, Japan, China, Taiwan, UK
- Employees 92; Technical Staff 65%
- >50 Patents in our core IP



# SUCCESS → MULTIPLE PRODUCTS, MARKETS, & CUSTOMERS

Sensor **Processing** 









Connectivity





















Display **Bridges** 



















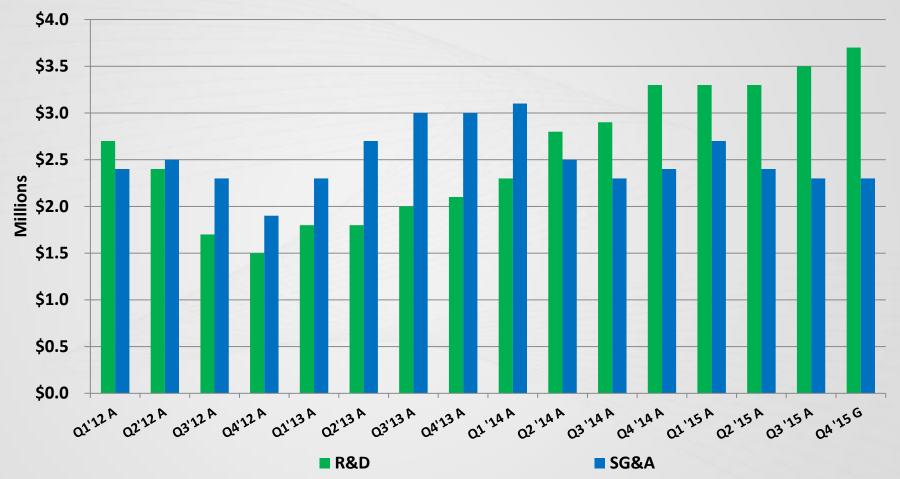


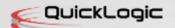




# QUARTERLY REVENUE TREND







Non-GAAP Results	FY 2012	FY 2013	FY 2014	Q1'15	Q2'15	Q3'15	Q4'15	FY 2015
Millions (except for EPS)	Actual	Actual	Actual	Actual	Actual	Actual	Guidance	Forecast
New Product Revenue	5.9	\$18.2	\$19.3	\$4.1	\$3.0	\$2.9	\$2.3	\$12.3
Mature Revenue	9.0	\$7.9	\$8.4	\$2.0	\$2.0	\$1.3	\$1.7	\$7.0
Total Revenue	14.9	\$26.1	\$27.8	\$6.1	\$5.0	\$4.2	\$4.0	\$19.3
								1, 1
Gross Margin %	49%	35%	40%	47%	44%	31%	42%	42%
Research & Development	8.3	\$7.7	\$11.3	\$3.3	\$3.3	\$3.5	\$3.7	\$13.8
SG&A	9.1	\$10.9	\$10.3	\$2.7	\$2.4	\$2.3	\$2.3	\$9.7
Total Operating Expense	17.4	\$18.6	\$21.7	\$6.0	\$5.7	\$5.8	\$6.0	\$23.5
Operating Income (Loss)	(\$10.1)	(\$9.5)	(\$10.5)	(\$3.1)	(\$3.5)	(\$4.5)	(\$4.3)	(\$15.3)
Net Income (Loss)	(\$10.3)	(\$9.9)	(\$10.8)	(\$3.1)	(\$3.6)	(\$4.5)	(\$4.3)	(\$15.6)
EPS	(\$0.25)	(\$0.22)	(\$0.19)	(\$0.06)	(\$0.06)	(\$0.08)	(\$0.08)	(\$0.28)



R&D investment increased 47% from 2013 to 2014 and expects to increase 22% in 2015 for new sensor platform development



Targets	Mid Term	Long Term		
Revenue Growth	Revenue Growth Expectations	Outpace Spending Growth		
Gross Margin *	Trending to Long Term Model	50%		
		400/		
Operating Margin *	NA	10%+		
Cash Flow	Cash Burn Decreasing	Positive Cash Flow		

**NOTE:** These projections are subject to a number of assumptions, risks, uncertainties and other factors that may cause our actual results to differ materially from such projections

<sup>\*</sup> Non-GAAP Measures



# BALANCE SHEET & CAPITALIZATION TABLE

	FY 2012	FY 2013	FY 2014	Q1'15	Q2'15	Q3'15
(Millions)	Actual	Actual	Actual	Actual	Actual	Actual
Cash	\$22.6	\$37.4	\$30.0	\$28.2	\$26.4	\$23.4
Current Assets (less cash)	\$5.6	\$8.7	\$7.7	\$6.1	\$5.5	\$4.9
Total Current Assets	\$28.2	\$46.1	\$37.7	\$34.3	\$31.9	\$28.3
Total Assets	\$31.0	\$49.1	\$41.1	\$37.5	\$34.8	\$31.1
Total Current Liabilities	\$3.3	\$8.3	\$4.3	\$3.8	\$5.5	\$5.4
Total Liabilities *	\$3.7	\$8.5	\$5.6	\$5.1	\$5.7	\$6.6
Shareholders Equity	\$27.3	\$40.6	\$35.5	\$32.4	\$29.1	\$24.5

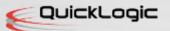
\* Includes \$1M borrowing from SVB \$12M Line of Credit

<b>Capitalization Table Highlight</b>	S	
Common Stock Outstanding	56.6M	as of 9/27/2015
Market Cap	\$91.7M	as of 9/27/2015 (200 day avg price \$1.62)
Options Outstanding	6.0M	as of 9/27/2015 (weighted avg price \$2.68)
RSUs Outstanding	0.8M	as of 9/27/2015
Warrants Outstanding	2.3M	@ \$2.98, expire 6/2017



# CAP TABLE AND OUTSTANDING SHARES

Captalization Table Highlights						
Common Stock Outstanding	56,594,752	as of 9/27/2015				
Stock Price	\$1.65	as of 9/27/2015				
Market Cap	\$93,381,341	as of 9/27/2015				
	5 007 776	50/07/0045				
Options Outstanding	5,987,776	as of 9/27/2015				
Weighted Exercise Price	\$2.68	as of 9/27/2015				
RSUs Outstanding	839,545	as of 9/27/2015				
Warrants (2012 financing)	2,304,900	@ \$2.98, expire 6/2017				
Total Warrants Outstanding	2,304,900					



Rare opportunity to target a ~\$1.5B sensor processing market in high growth mobile consumer market aligned with our value proposition

Disruptive, patented low power, in-system programmable logic optimized for mobile

Highly differentiated sensor processing (hardware & software) solutions enable significantly longer battery life