

Performance and Strategy

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January 2014

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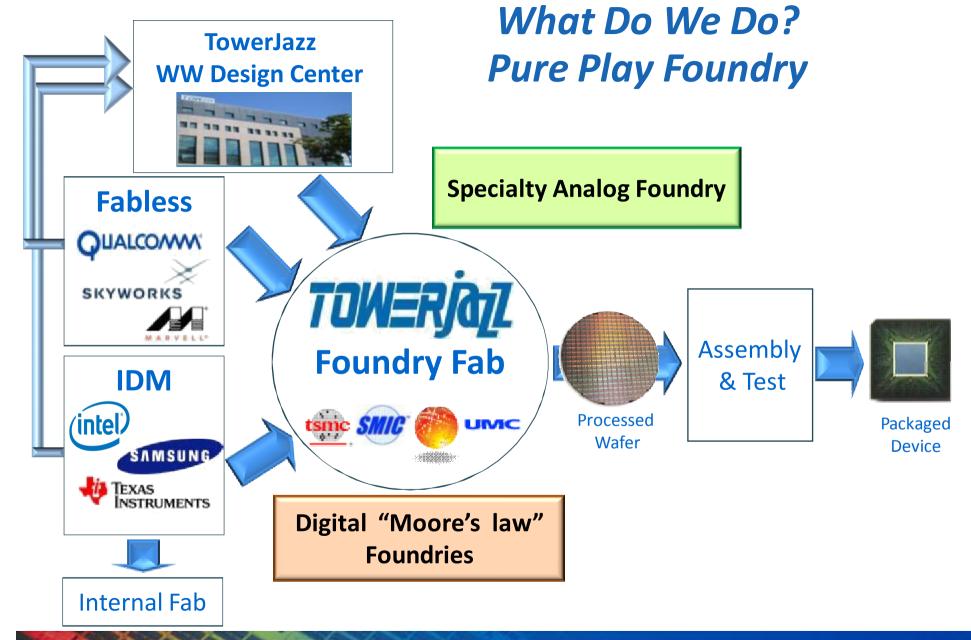


Outline

- Corporate Introduction
- Pure-play Foundry Landscape & Our Position
- Technology Offering | Business Units
- Financial Highlights
- Strategies Behind M&As

Company Introduction

What Do We Do?





We never compete with our customers



Two Types of Foundries

Specialty Foundry Enjoys Several Advantages



SMIC







	Digital Moore's Law Foundries	Specialty Analog Foundries	
Capacity Capex	High Low		
Technology Capex	High	Low	
Product Lifetime	Short	Long	
Customer Engagement	Typically multi-source	Sole or limited source	
Technology Differentiation	At leading edge only	Across process technologies	
Segment Sizes	Large	Many niches through mid-size	
Process Technologies	CMOS	SiGe, BiCMOS, MEMS, CIS	
Technology Nodes	65nm-22nm	350nm-110nm	



Apple iPhone – a Closer Look

Analog

Power

Audio

Display

Touch

PA

Switch

Controller

ESD

Discretes

Gyroscopes

Compass

Many Chips

Logic/Memory

Apps

Processor +

DRAM

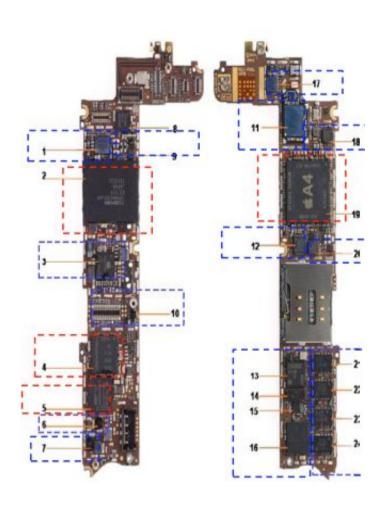
NAND Flash

NOR Flash

Quad

Baseband

4 Chips



Analog Market Segment is Expected Grow Rapidly in Coming Years

	Segment	2009 (\$ Mil) (TowerJazz Born)	2015 (\$Mil)	Y-to-Y Growth Rate
	Total Semiconductor	230,194	400,806	74%
Above A average growth	Sensors/Actuators	3,970	9,832	148%
	Optical	17,463	35,988	106%
	Discretes	15,454	31,253	102%
	Analog	36,073	72,113	100%
Below average V growth	Microcomponents	48,463	80,243	66%
	Memory	44,189	73,068	65%
	Logic	64,582	98,309	52%

Sources: Nikkei, iSuppli, PwC

TowerJazz end market TAM, SAM is large and fast growing







The Global Specialty Foundry Leader







Regional diversity; All major flows are cross qualified

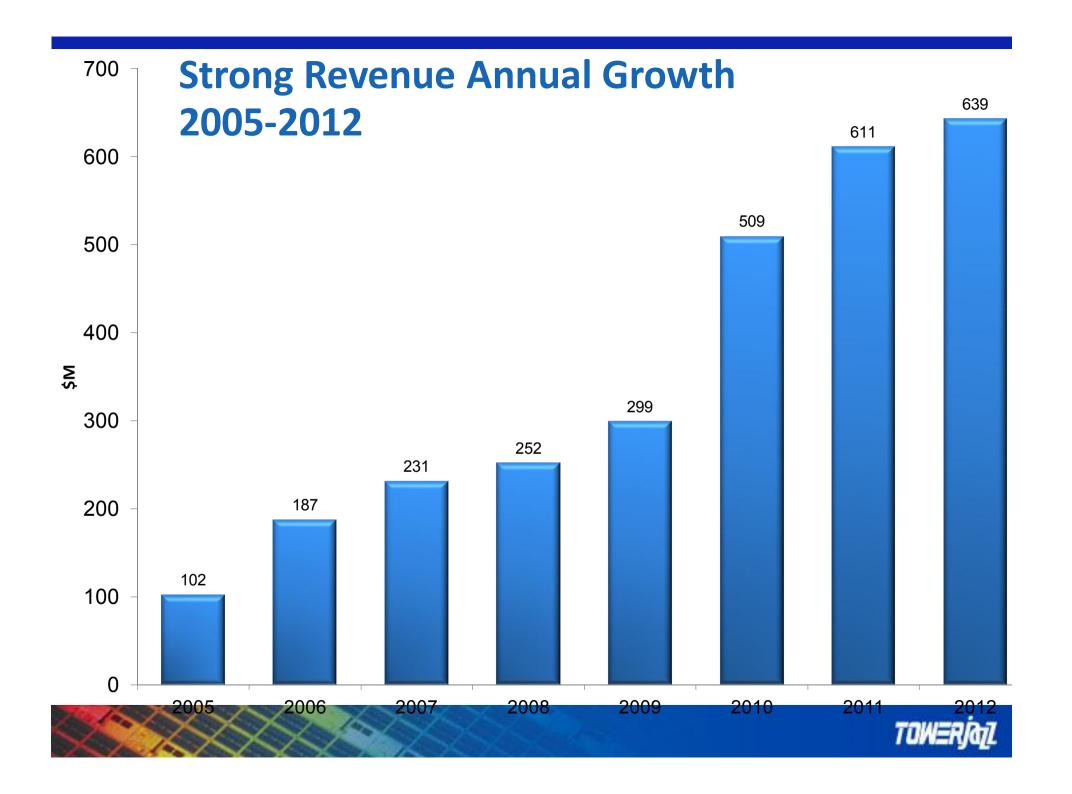












Diversified Customer Base





























































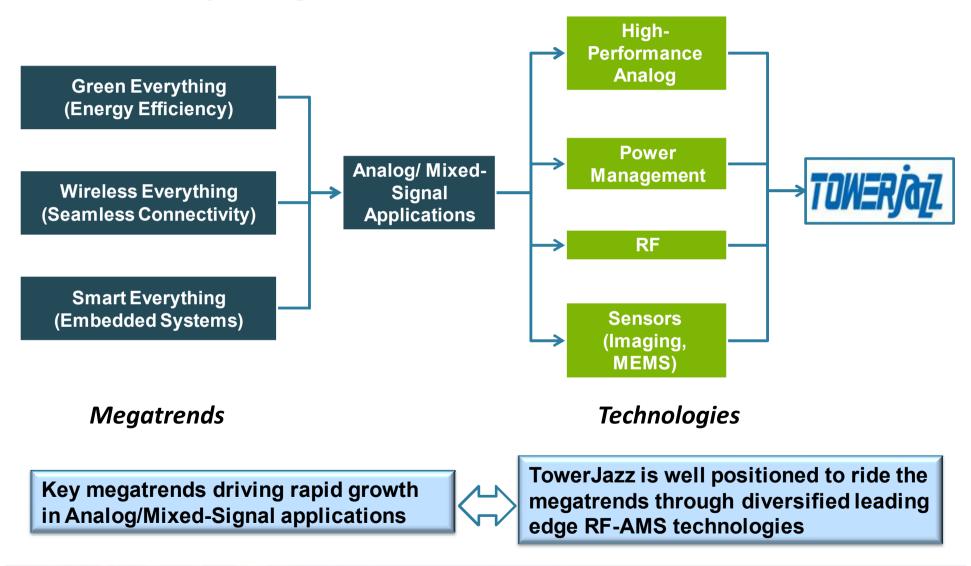
Our Specialty Technology Offering

Corporate Business Units - Specialty Markets



Technology, Flexibility, Experience, Commitment and supreme performances and design enablement (models, PDK, IP and Design Services) allows our customers to bring to the market best-in-class products

TowerJazz is Well Positioned To Benefit from Key Megatrends



RF/HPA Growth Driver: Our Solutions (~54% of specialty revenues)

Wireless Infrastructure

SiGe BiCMOS and RF CMOS

- Mature technologies for high reliability
- Wide range of options for integration
- Design Enablement fast time-to-market

Smartphones and Tablets

RF Front-End Technology: SOI / SiGe PA

- SOI for Antenna Switch
- SiGe Power Amplifier
- SOI/MEMS Antenna Tuning



High Speed Data Distribution

High Performance SiGe

- Strong market presence
- Best SiGe performance
- Strong roadmap for SiGe and Photonics



Sensor, WiFi, and Analog Technology

- WiFi Front-End Module
- C-BiCMOS for Analog
- MEMS for Sensors



Best-in-class SiGe, RF CMOS, RF models and Design Enablement



Power Markets: Our Solutions (~15% of specialty revenues)

Flat Panel TV / Display / Audio

Driving the need for power components

- 0.35um modular BCD
- · Low Rdson for small die
- Design enablement fast time-to-market

Automotive and Communication

Driving the need for more integrated PMICs

- Feature-rich 0.18um modular BCD
- Embedded NVM (no mask adder),
- High digital density



LED Lighting

Replacing commercial lighting

- 700V Production Technology
- Low mask count for cost-sensitive market
- Extensions to 900V to cover all standards

Industrial and Infrastructure

Growing the motor-driver market

- High-side 700V platform
- 1
- Gate driver for IGBT
- Will mirror growth of IGBT / Motor Drivers

Modular power management platform with best-in class performance and design enablement (scalable models, PDK, IP and Design Services)

Case Study: modular 0.18um Power Platform to efficiently serve a wide range of markets from Components to PMICs



Specialty CIS Growth Markets (~20% of specialty revenues)

Professional Photography

- Best in class pixels
- Low dark current
- Accurate stitching



X-Ray

- Excellent flexible pixels
- Stitching for 1 DPW
- Very high yields









Industrial

- Special fast pixels
- Unique features: Bathtub
- Network of leading customers





Automotive and 3D

- Unique near IR sensitive pixels
- High QE
- Very fast pixels
- High DR



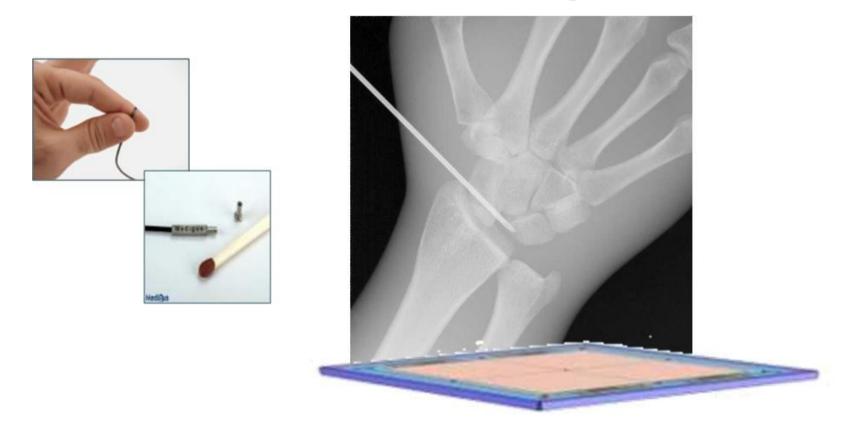




Technology, Flexibility, Experience and Commitment allows our customers to bring to the market the best in class products

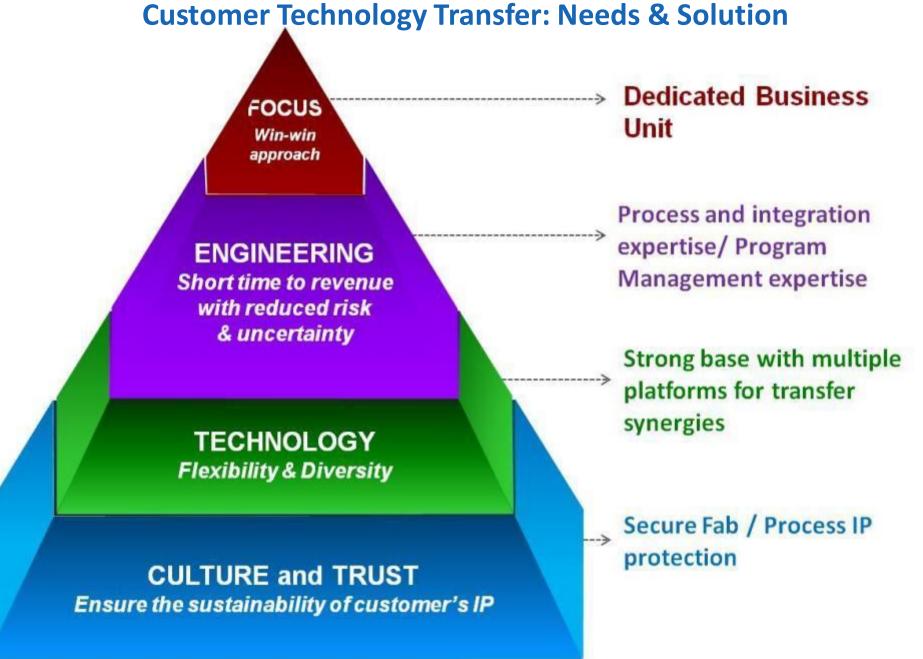
"Cameras" application range Medical (X-ray) Industrial, 8" wafer size Machine Vision, Bar-Code Studio & High End Photography Large Industrial, Scientific, Space Professional Consumer Photography 6" Wafer Size Prosumer Photography 48×36 645 1/10" 1/3" 1/2" Small Medical APS (3:2) 35 mm

From the smallest Sensor in the World to the Largest



Enabling Customer Innovation





Prevailing the cyclical industry we are playing at...

Two major sources of revenues:

- Specialty business units
 - Strong future growth
 - High exit barrier
 - Typically sole external source model
 - Better margins
 - Less ASP pressure
- TOPS business unit
 - Mainly take-or-pay long term agreements
 - Special business models
- Enabling the company to prevail the seasonality and the cyclical nature of the semiconductor industry.

Financial Highlights

Financial Highlights

Revenue & P&L

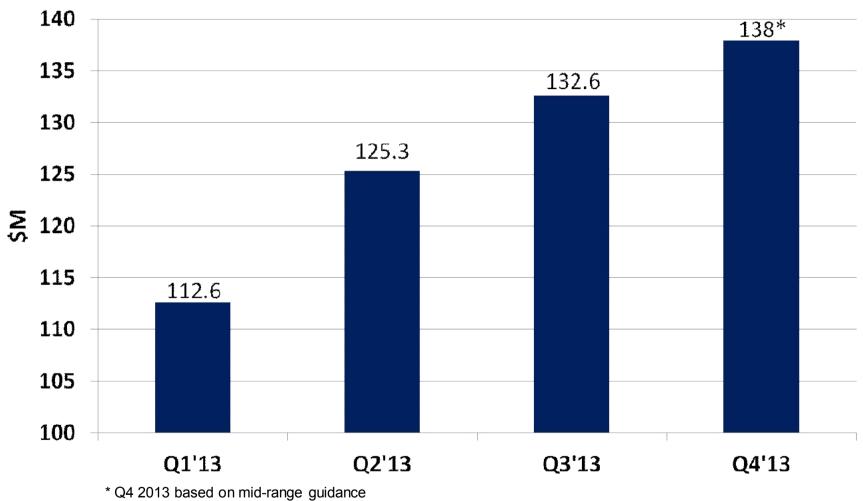
- Continued revenue Q/Q growth with \$132.6 million in Q3'13 Vs. \$125.3M in Q2'13 and Vs. \$112.6M in Q1'13
 - Up 6% and 18% against Q2'13 & Q1'13, respectively
- Fourth quarter guidance provided continuous growth with revenues of \$133 to \$143 million
- Positive EBITDA of \$150-170M per annum in 2010, 2011 and 2012 with positive cash flow from operations at \$90-120 M per annum.

Balance Sheet

- Strong balance sheet financial ratios and indicators:
 - Current ratio improved from 1.8X as of December 31, 2012 to 2.1X as of September 30, 2013.
 - Cash balance at September 30, 2013 at \$141 million of cash and deposits, an increase from the \$133 million as of December 31, 2012 and form \$117 million as of June 30, 2013



2013 Quarterly Revenues



Strategies Behind M&A

1. Increase Served Market

- Acquire new technologies w/ established customer base
- Acquire new technologies which serves existing base

2. Increase Operational Capacity

Acquiring capacity at substantial lower cost than organic growth

3. Create Geographic Alignment

- Improved customer alignment through local manufacturing (e.g. JDP execution)
- Operational optimization and reduced customer risk through flow cross qualification.

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- Operational optimization and red SEMICONDUCTOR, INC.



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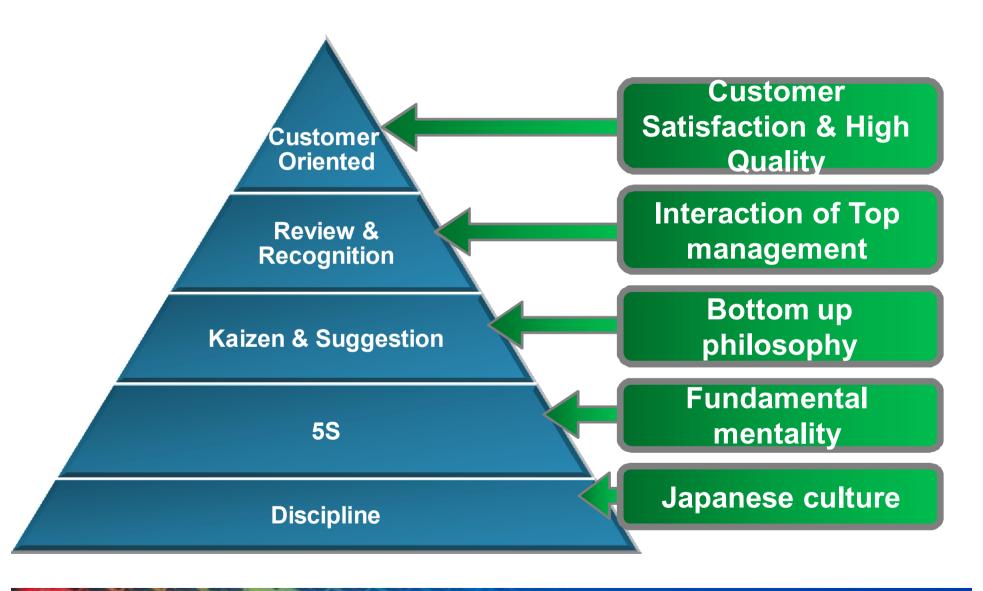
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What we have learned through integrating Japanese foundry

Discipline and Quality

Quality framework of TowerJazz Japan





1. Increase Served Market

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- Acquire new technologies which <
 isting base

2. Increase Operational Car

 Acquiring capacity at growth

3. Create Geganment

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Panasonic

TowerJazz Signs Definitive Agreement
Creating Joint Venture with Panasonic
Corporation to Acquire its 3 Semiconductor
Factories in Japan and to Manufacture
Panasonic and Additional Products

TowerJazz revenue to increase by approximately \$400 million a year, enabling a \$900 million annual run rate opportunity starting Q2 2014 and improving profitability following the closing of this transaction

(December 20, 2013)

Enabling at least \$1B of annual revenues in 2015



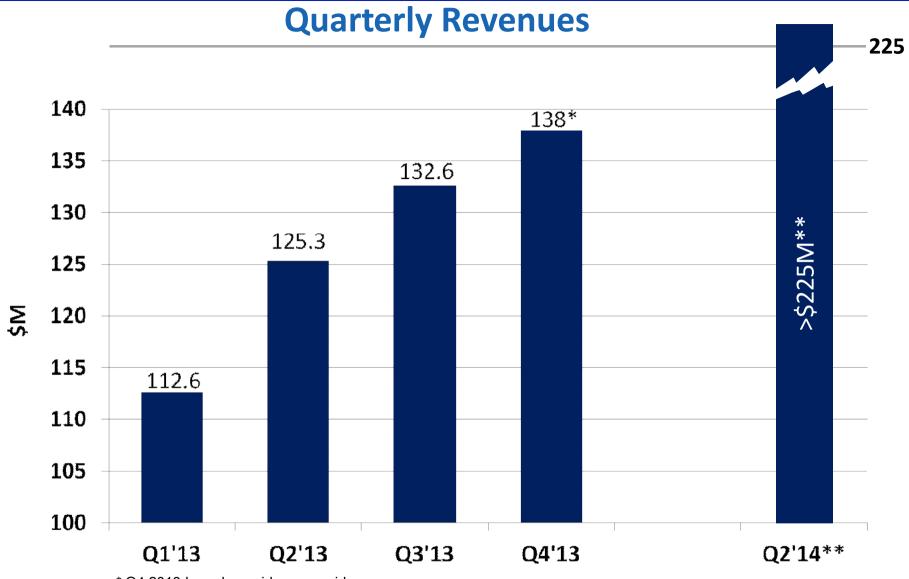


Panasonic

Highlights of the Deal

- TowerJazz to hold 51% of the joint venture (JV)
- Provides TowerJazz with incremental annual revenues of approximately \$400 million and above that substantial capacity for additional foundry business growth
- Added available capacity of approximately 800,000 wafers per year (8 inch equivalent) in three manufacturing facilities in Japan
- Panasonic committed to acquire its products from the JV for a period of at least 5 years of volume production
- Expanding TowerJazz leadership to include a state of the art 300 mm analog technology fab including best of class 65nm CMOS image sensor dark current and quantum efficiency performance and additional 45 nm digital technology
- Closing of the transaction expected to be by April 2014.





^{*} Q4 2013 based on mid-range guidance

^{**} Following Panasonic JV revenues

Emerging microelectronics: Two Roads to Follow

Specialty products: More than Moore

Plain vanilla CMOS; Moore's roadmap



Sensors





Specialty IC for mobile Specialized Image applications:







MEMS



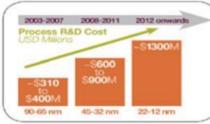


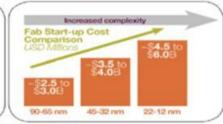
350nm-130nm (90nm as long term roadmap) technology nodes Moderate (hundreds of millions US \$) investments + lots of Innovation and Creative Thinking



Example: TSMC High-performance microprocessors, CPUs, GPUs (graphic processing units), etc: High Volumes

45nm -22 nm technology nodes Multibillion US \$ investments Only very large IDMs and huge foundries (TSMC, UMC, GF. SMIC) can follow this road



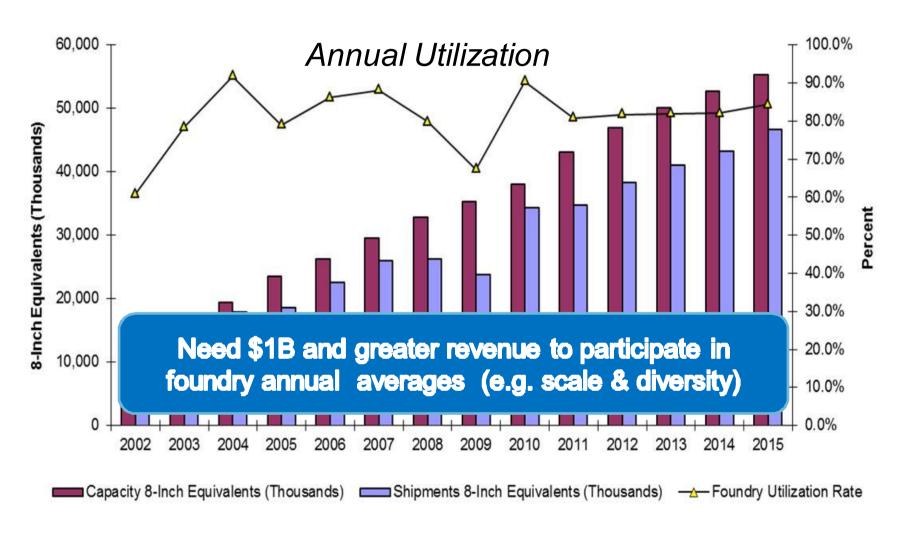








Foundry Annual Capacity, Shipments and Utilization Rate



Source: Gartner (September 2011)

Summary

- Core specialty business continues strong growth
 - FEM, Power Management, digital cameras medical and commercial, MEMS, High end RF
- TOPS business also demonstrate strong growth with a business model enabling levels of guaranteed revenues
- India consortia (with Jaypee and IBM) received in principle approval; expecting final approval
- Panasonic JV provides:
 - Access to multiple new industry leading technologies
 - 300mm factory for specialty expansion
 - Multi-year committed revenues with strong bottom line performance.
- On target for \$1B 2015 run rate.

