

PALL Pall Corporation

2009 INVESTOR DAY



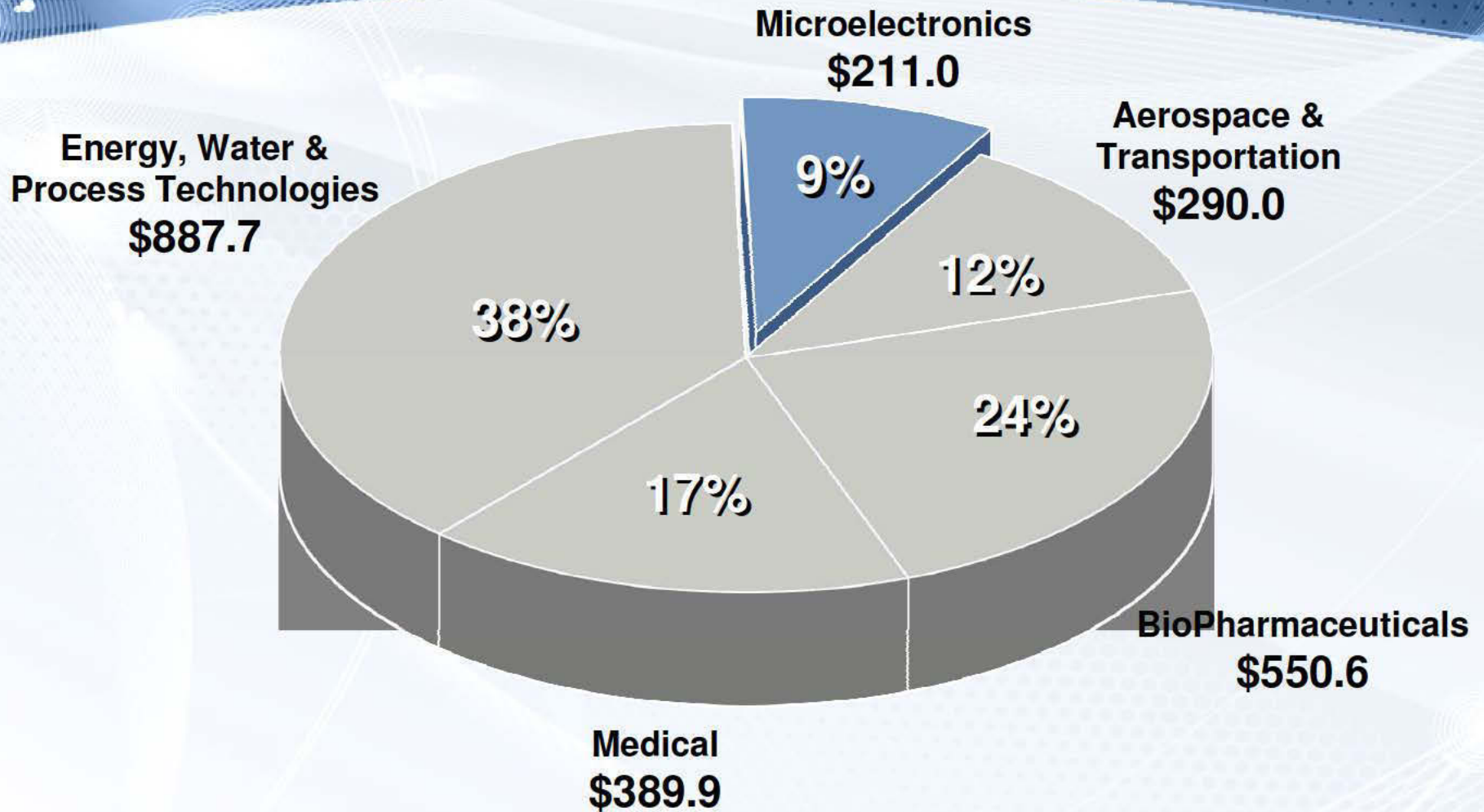
Microelectronics

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Senior Vice President

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Sustainable, Profitable Growth

Microelectronics Sales



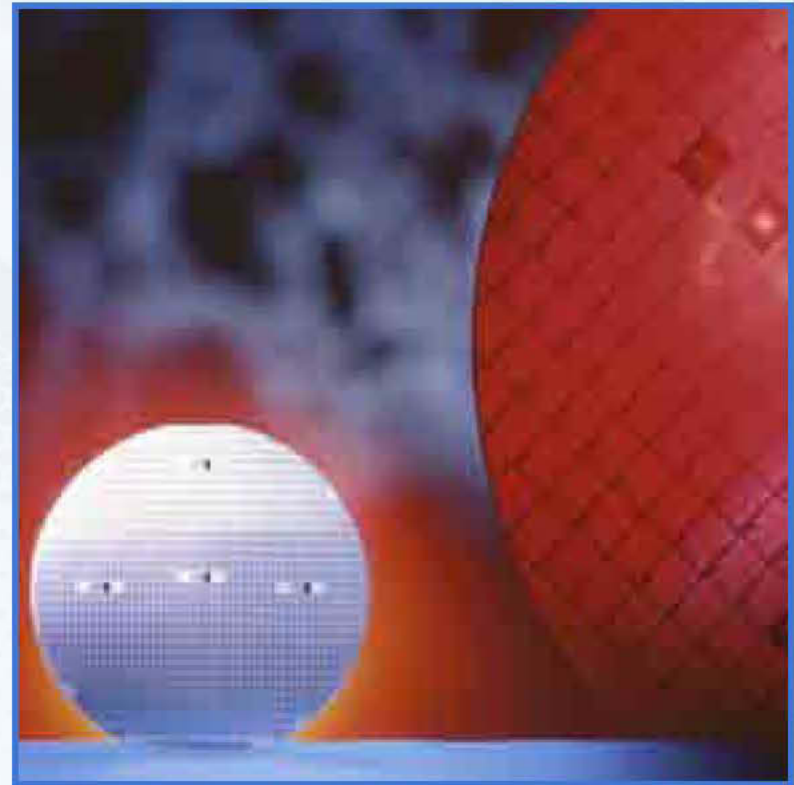
(Dollars in Millions)

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Microelectronics Revenue Potential = \$1.3B

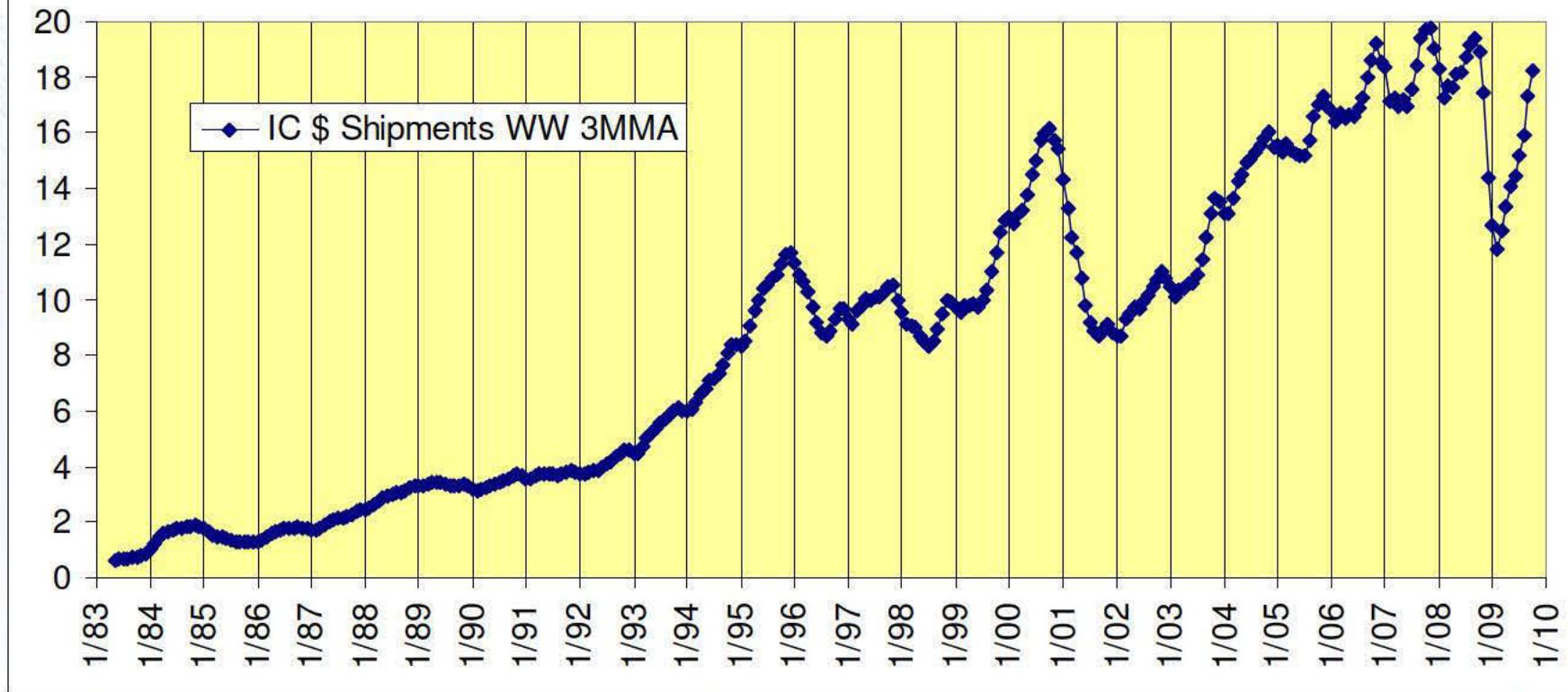
We provide solutions to the following end markets:

- ▲ **Semiconductors**
 - Photolithography
 - CMP
 - High-purity water
 - Chemical dispense
 - High-purity gases
- ▲ **Consumer electronics**
 - Displays
 - Data storage
 - Inkjet
- ▲ **Photovoltaic (Solar cells)**
- ▲ **Electronic components**



Microelectronics: Semiconductor Cycle

IC \$ Shipments WW 3MMA



(Dollars in Billions)

Source: Advanced Forecasting, Inc.

In Fiscal Year 2009...

- ▲ Semiconductor industry downturn was exacerbated by the economy
- ▲ FAB utilization and capital spending was at record lows
- ▲ Demand was affected by corporate and consumer
- ▲ Approximately 31 FABs closed in 2009*
- ▲ Consolidation of LCD manufacturers



* Source: Semiconductor Equipment & Materials International (SEMI)

For the road ahead, we see...

- ▲ Digital convergence and renewed consumer confidence
- ▲ Smart phones drives all submarkets
- ▲ The human condition will increasingly rely on electronics
- ▲ FAB construction spending expected to increase by 70%
- ▲ Equipment spending expected to increase by 65%
- ▲ Emerging middle class in China



Microelectronics Market Drivers

- ▲ First wave – Personal computing
- ▲ Second wave – Digital desktop
- ▲ Third wave – Digital convergence
- ▲ Primary drivers
 - Communications, pervasive computing, gaming, storage, and social connectivity are all in one device
 - Devices smaller – IC line widths narrowing driving demand for finer filtration
 - Displays
 - Incorporate OLEDs, giving rise to new purification opportunities
 - Storage
 - Increasing demand for thin film rigid disk and flash memory storage



Leveraging expertise to penetrate new markets

- ▲ Printed electronics market has huge potential
- ▲ Circuits, displays, sensors are just a few applications
- ▲ Pall lithography & inkjet expertise are enablers
- ▲ Flexible electronics (example) will employ inkjet and lithography
- ▲ Pall Microelectronics has strong positions in the market



“High Bright” LEDs save energy

- ▲ Architectural lighting
- ▲ Automotive lighting
- ▲ LCD TV, Laptops, Desktops
- ▲ Semiconductor manufacturing process
- ▲ Filtration / purification are process enablers



***Expected growth of 15% in 2009, and
40-50% in subsequent years when the economy recovers***

Helping make solar production Green

- ▲ Production of crystalline silicon wafers
- ▲ Filtration of reactor feed gas
- ▲ Chemical filtration for crystalline solar cells
- ▲ Purification of gaseous molecular contaminants
- ▲ Process water and silicon reclamation



Solar manufacturing environmental sustainability

- ▲ Silicon ingot shaping uses large amounts of water
- ▲ Water quality influences overall process
- ▲ DI water is expensive and must be recycled
- ▲ Pall reclaim systems recover 95% of the process water



ENABLING A
GREENER
FUTURE

Long-term market drivers

- ▲ Environmental
- ▲ Energy usage
- ▲ Water conservation
- ▲ Increasing FAB utilization
- ▲ Electronic device complexity
- ▲ LCD / LED display adoption
- ▲ Pervasive computing
- ▲ Automotive electronic content

