Changing the World: The Flash Memory Revolution

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Forward Looking Statement

During our meeting today we will be making forward-looking statements.

Any statement that refers to expectations, projections or other characterizations of future events or circumstances is a forward-looking statement, including those relating to revenue, pricing, market share, market growth, product sales, industry trends, expenses, gross margin, production capacity and technology transitions and future products.

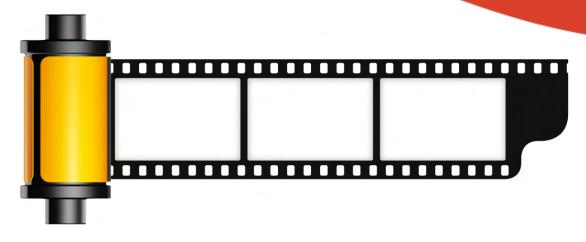
Actual results may differ materially from those expressed in these forward-looking statements including due to the factors detailed under the caption "Risk Factors" and elsewhere in the documents we file from time-to-time with the SEC.

We undertake no obligation to update these forward-looking statements, which speak only as of the date hereof.

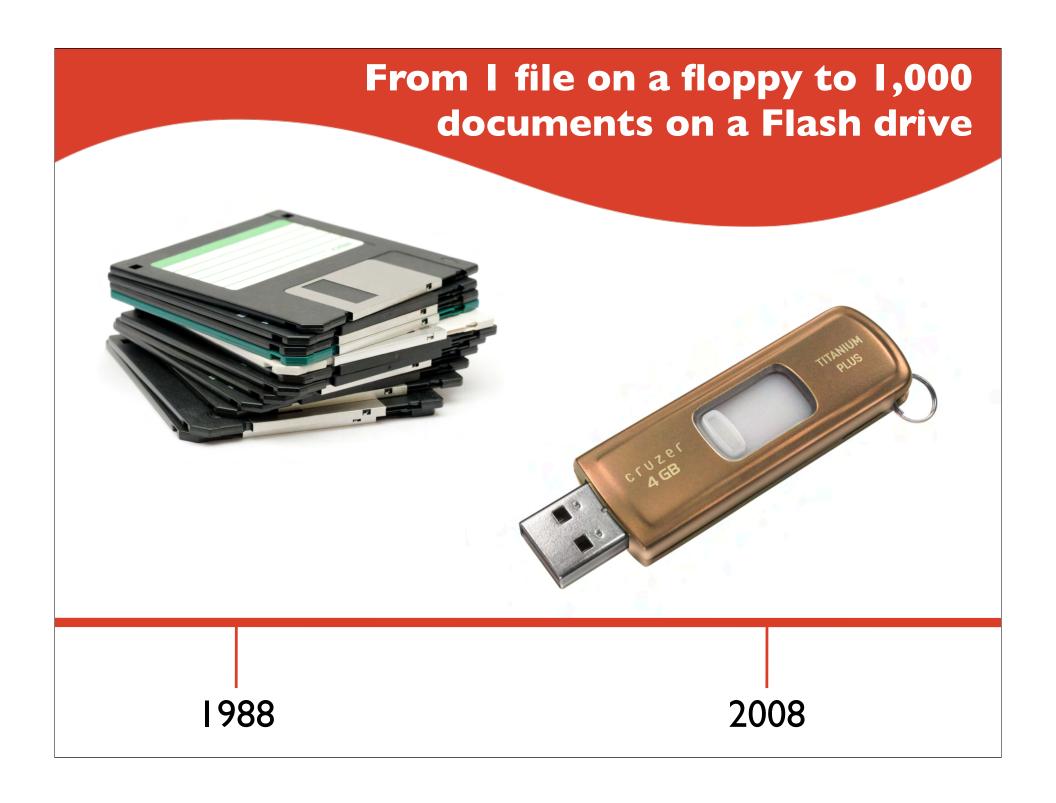




From 36 photos on a roll to 5,000 images in your hand



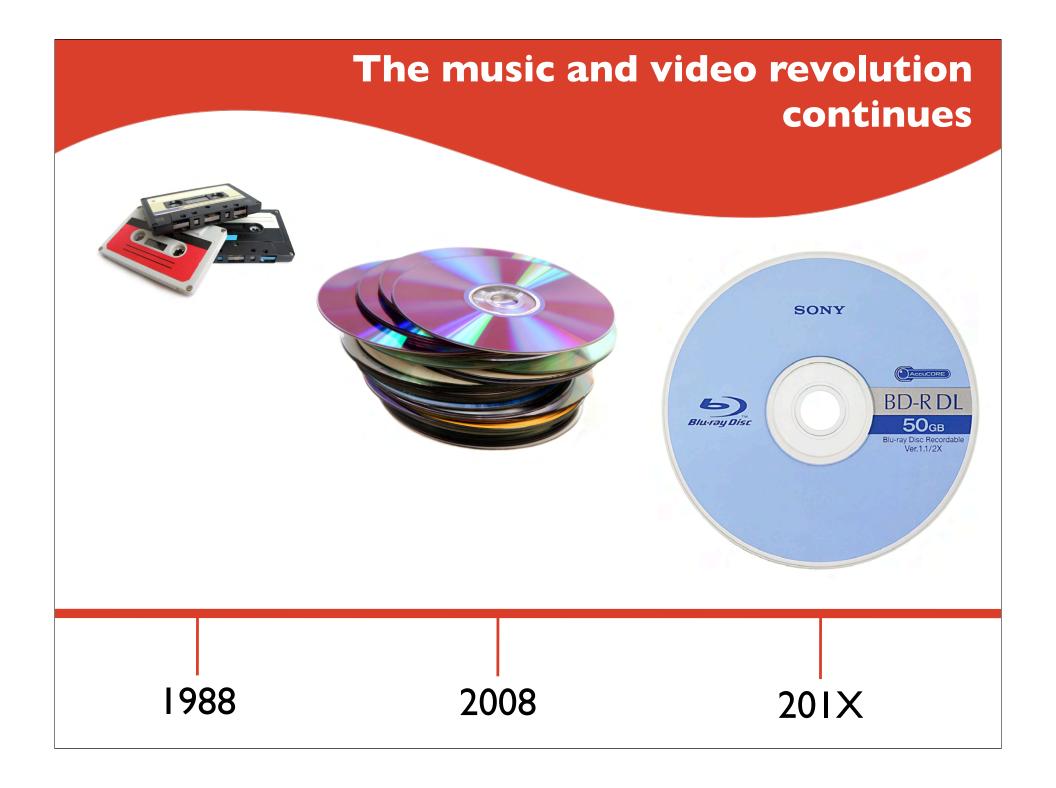




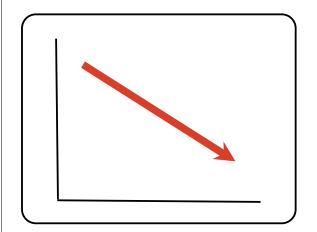
From 20 songs on a tape to 5,000 tunes in your pocket



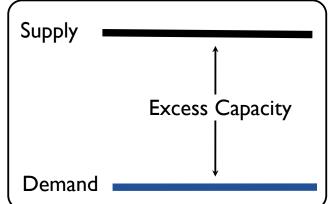




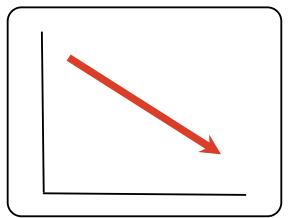
Our industry is facing some challenging times



Falling US
Consumer Confidence



Excess Supply, Commodity Pricing



3rd year of ~ 60% annual ASP decline

Self-correction will lead to growth with profitability in the next decade Slowing Capacity Adds **Profitability** Supply **Excess Capacity Demand** New Markets Taking Off 2008

Flash will profoundly transform three huge growth markets



Consumer Electronics



Handsets



Computers



Video is the new photo





Flash technology is at the heart of online file sharing, social networking

Capture

Store

Share

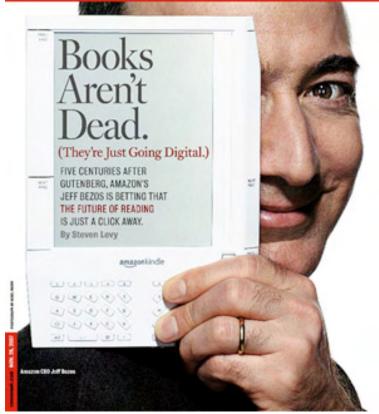






Flash is enabling the digital book revolution





Amazon Kindle: the future of reading

New paradigms require new ways of thinking

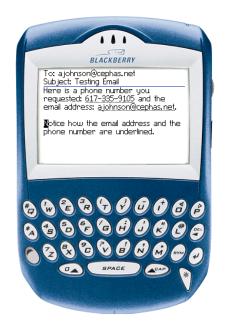


The world's first horseless carriage

The changing face of cell phones



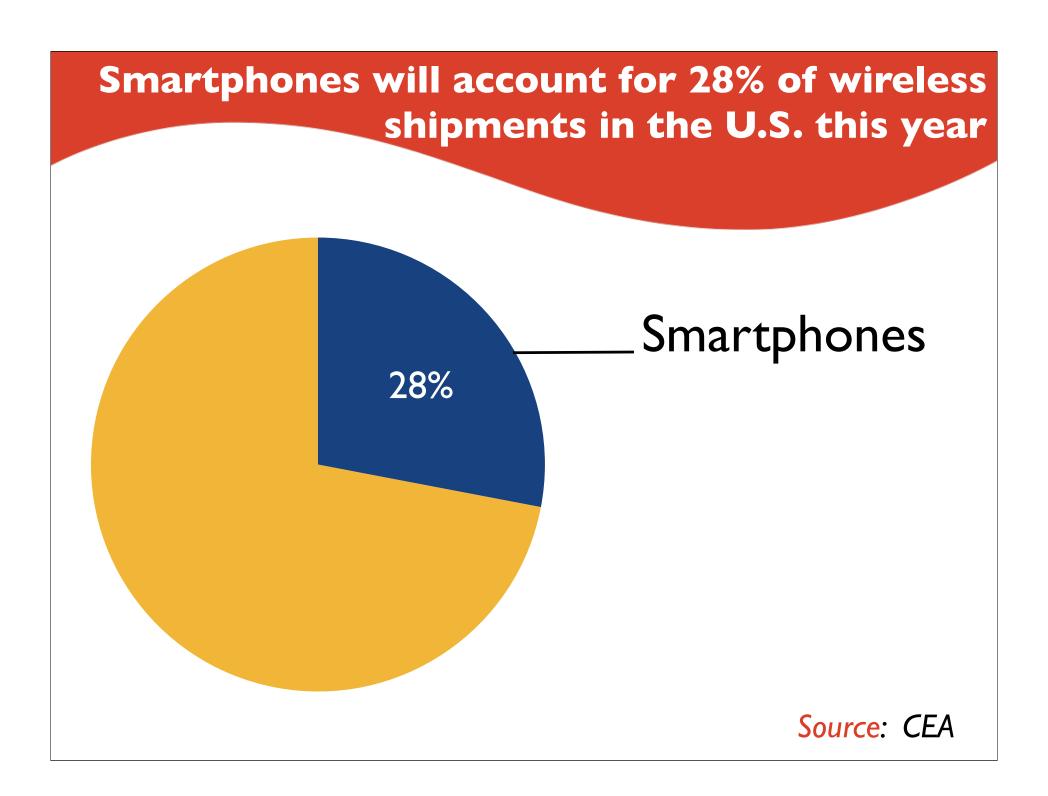
Voice



Data



Video



80% of cell phones will have memory slots by 2012





Source: Gartner

Future of mobile devices: all your content in your pocket



4G Broadband/Wimax: always on

PC OS: Symbian, Android, Mac, Linux, MS Mobile PC

3rd-party applications: iPhone 3G

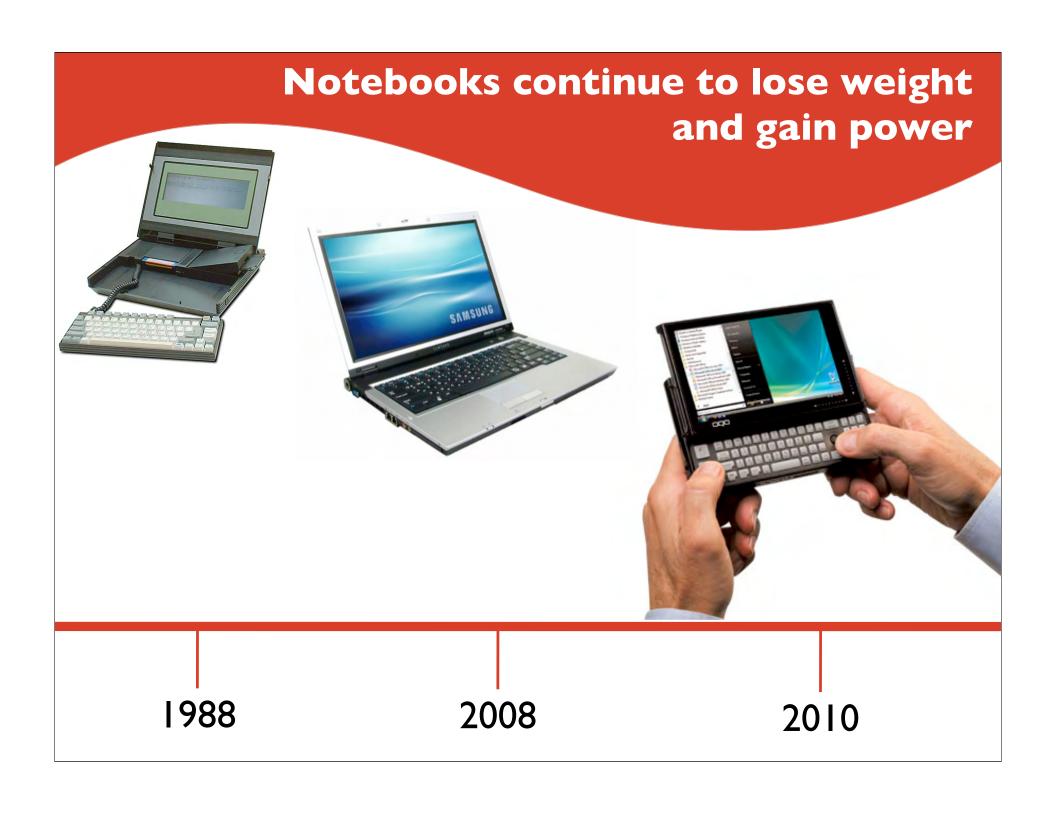
Local secure flash: (8GB to 128GB)

Flash caching

MNO competition: deliver content & services

Convergence: Netbook PC, Smartphone,

Multimedia handsets



SSD will complement HDD in enterprise performance

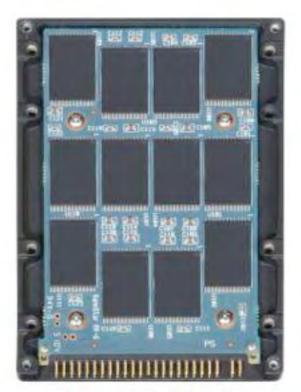
Source: Gartner

	HDD	SSD
Read Performance	X	100x +
Write Performance	X	10x +

One in five computing devices will have solid state drives by 2011/2012

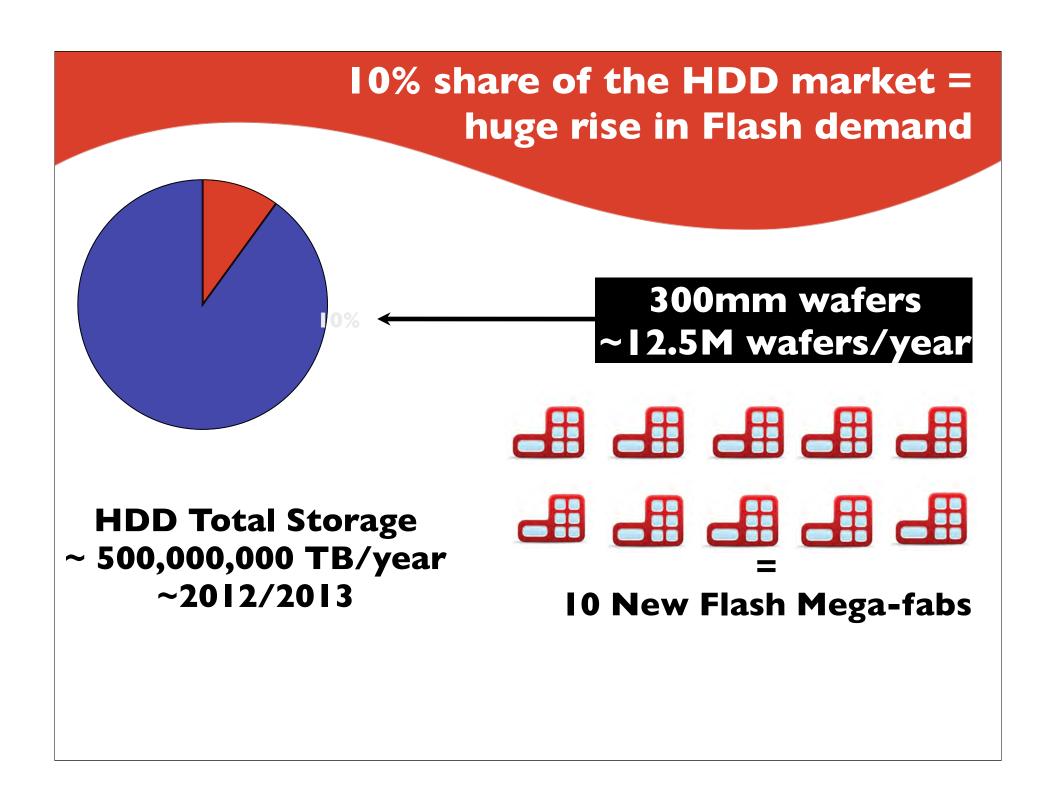


Traditional hard disk drive



Solid state hard drive

Source: Gartner



Netbook PCs are taking off



18 million

500,000

2007

2009

Source: Taiwan MIC

Flash has the power to democratize technology





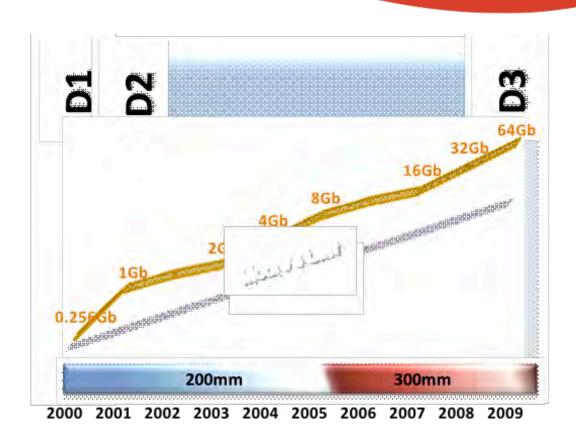






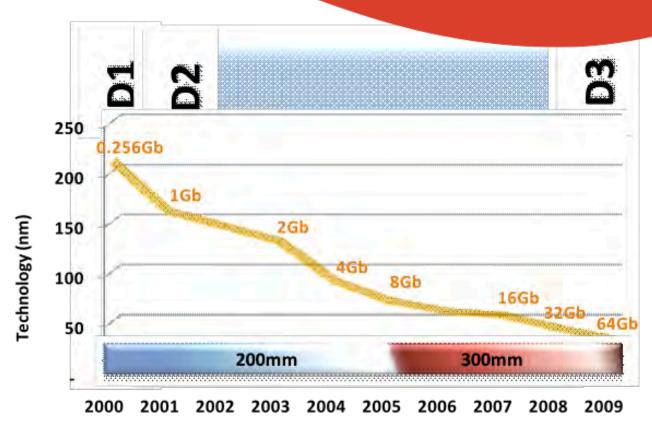


Flash's growth engine: beating Moore's Law



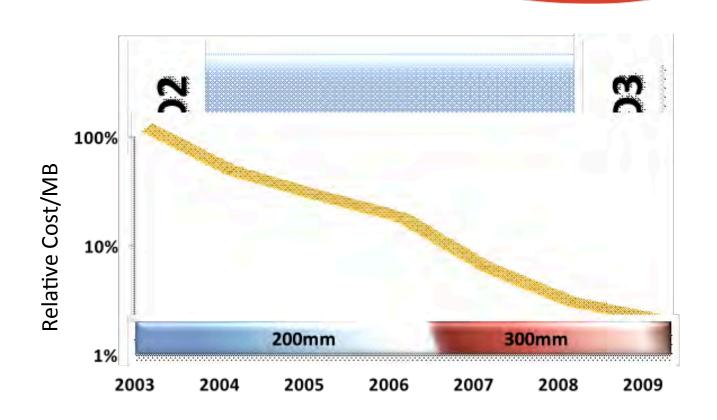
Faster than a speeding Moore: 9 generations in 10 years

Unprecedented pace of Flash technology transitions

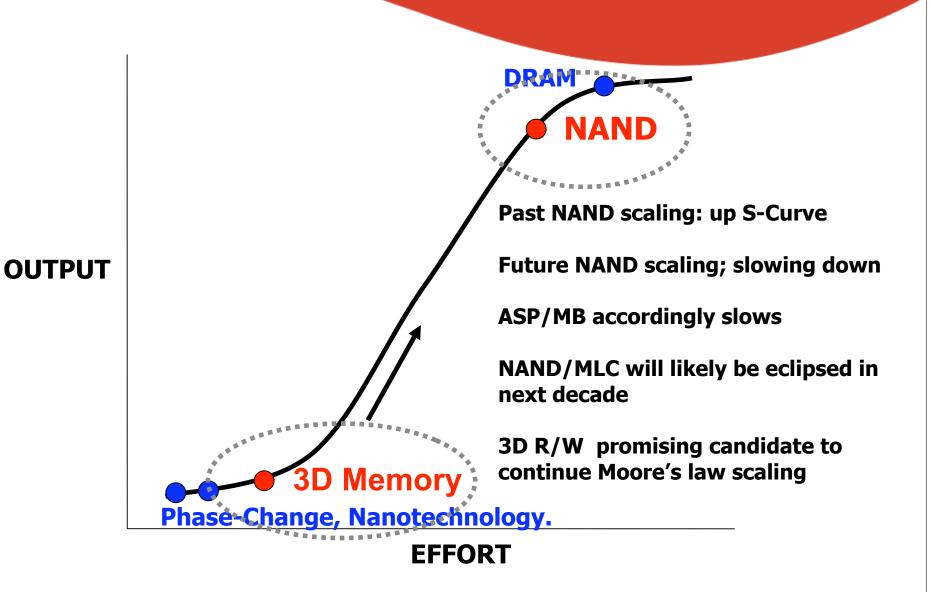


210nm \rightarrow 160 \rightarrow 130 \rightarrow 90 \rightarrow 70 \rightarrow 56 \rightarrow 43 \rightarrow 32nm in 9 years D1 (SLC) \rightarrow D2 (MLC) \rightarrow D3 (x3)

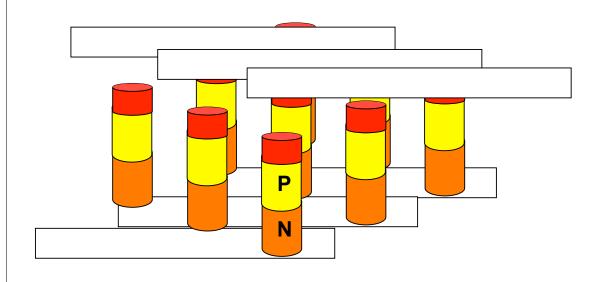
Dramatic Flash price reductions: key to new markets

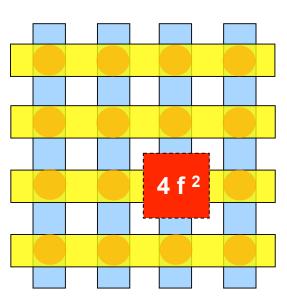


S-Curve: Memory Scaling Limits

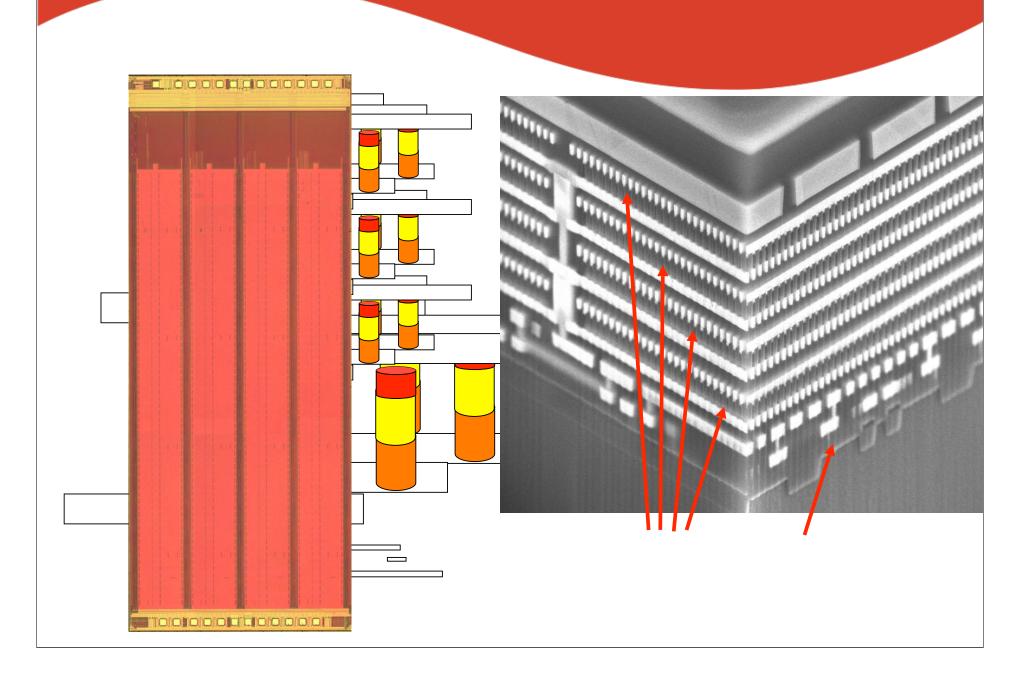


3D Diode Memory Arrays



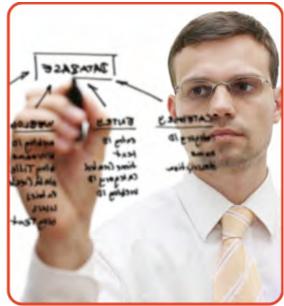


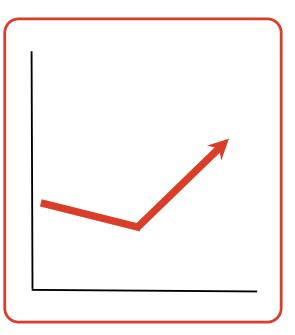
3D Diode Memory Arrays



Conclusion: flash/3D is the place to be in the coming decade







Transforming existing markets

Creating new mega-markets

Returning to profitable growth thru innovation, IP low cost

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