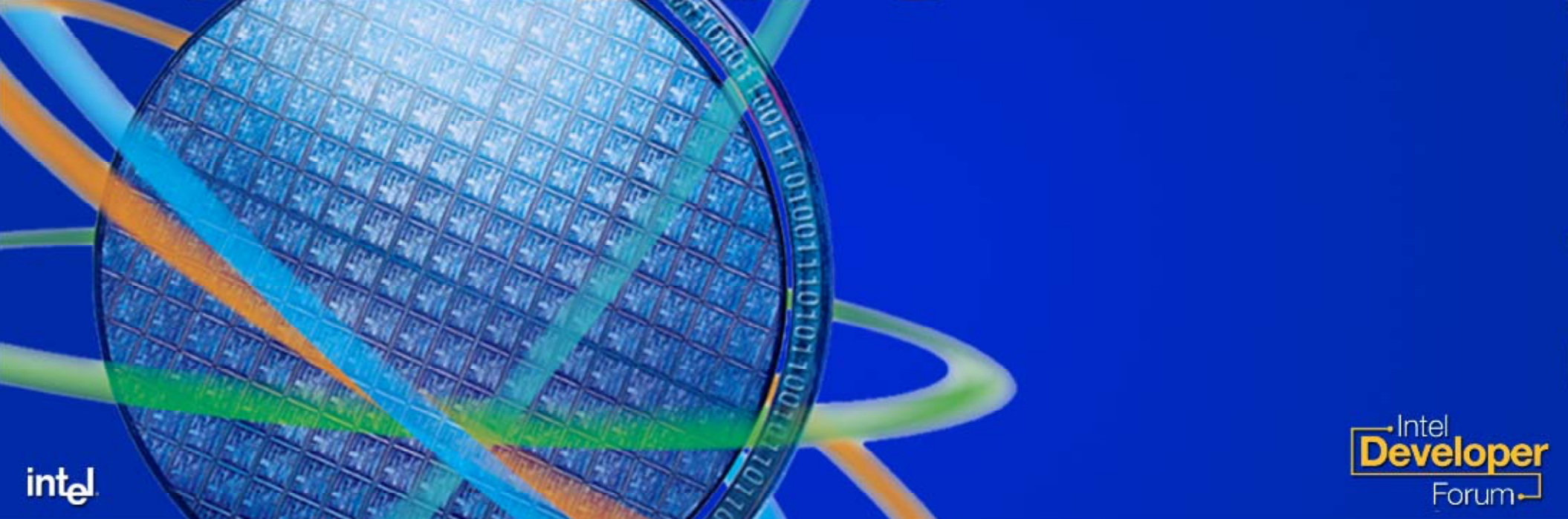

intel
Intel
Developer
Forum

# A World of Transformations

*Craig Barrett :: CEO :: INTEL*

# Overview

*A World of Change*

*Transformations*

*Dimensions of Growth*

A World of Change
Technology Applied
Countries
Governments
Businesses
Consumers
Educators

# A World of Change

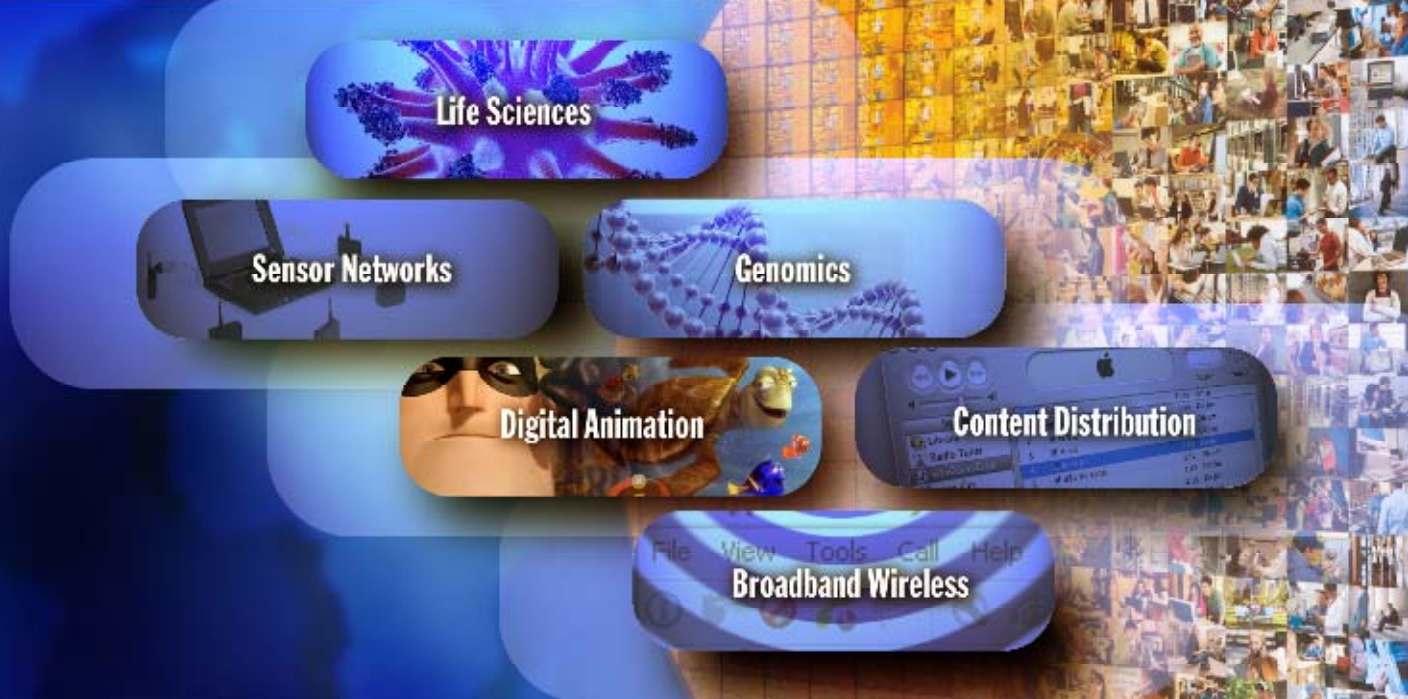
## Digital Transformations

# A World of Change

## After the Storm

# A World of Change

## New Fields Emerge



The world is being **transformed** by digital technology

# Transformations

## Convergence

# Transformations

## Silicon Integration Marches On

Transformations
Silicon to Solutions
Ecosystems
Applications
Software
Reference Designs
Silicon

# Transformations

## Enterprise

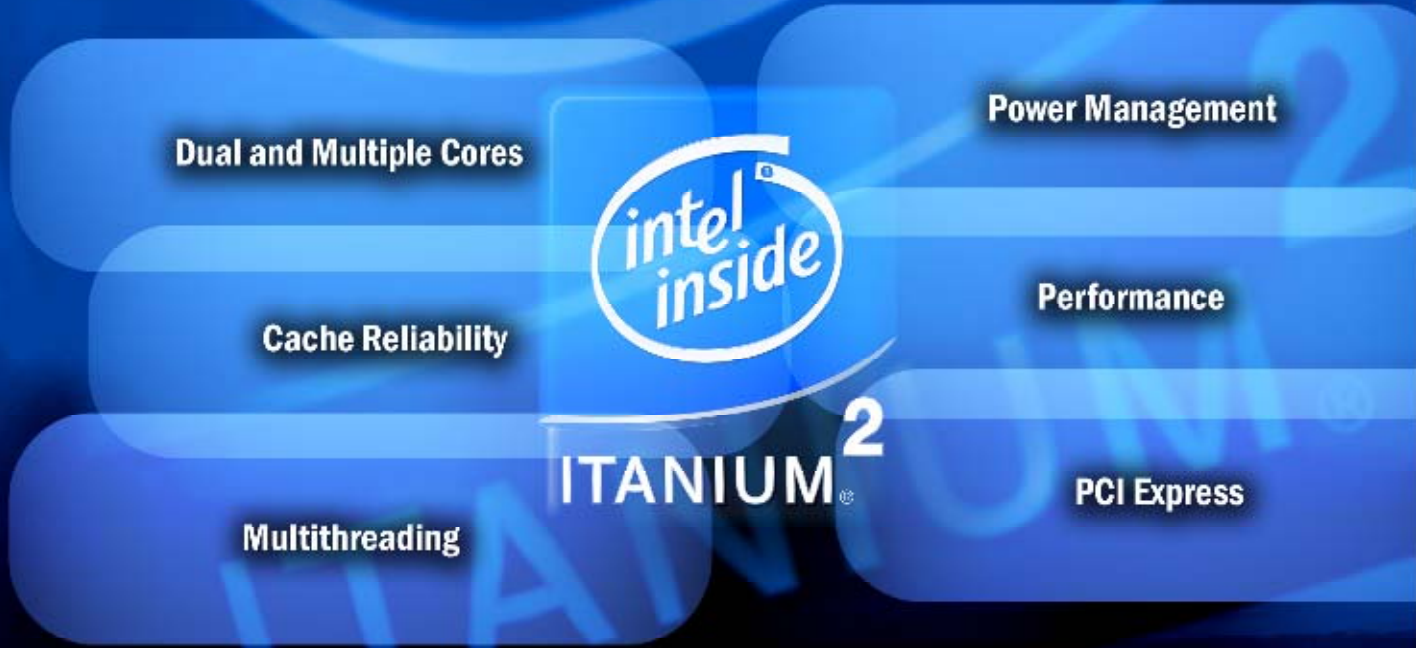
*#1 in performance*

*>50 OEM's shipping systems*

*1000 applications and tools in production*

# Transformations

## Intel Itanium™ Platform



Morgan Stanley
CAREERS
Morgan Stanley has earned a worldwide reputation for excellence in financial advice and market execution. The 58,000 members of Morgan Stanley in 28 countries connect people, ideas and capital to help our clients achieve their financial aspirations.
CONTACT US
Welcome to the world of Morgan Stanley
Individual Investors
Institutional Services
About Morgan Stanley
DJIA
NASDA
NIKKEI
DAX
FTSE
ACWI
EAFE
MWD

Morgan Stanley
CAREERS
Morgan Stanley has earned a worldwide reputation for excellence in financial advice and market execution. The 58,000 members of Morgan Stanley in 28 countries connect people, ideas and capital to help our clients achieve their financial aspirations.
CONTACT US
Welcome to the world of Morgan Stanley
Individual Investors
Institutional Services
About Morgan Stanley
DJIA
NASDA
NIKKEI
DAX
FTSE
ACWI
EAFE
MWD

# Transformations

## Intel Xeon™ Platform

PCI Express

Faster CPU and Front Side Bus

DDR2 memory

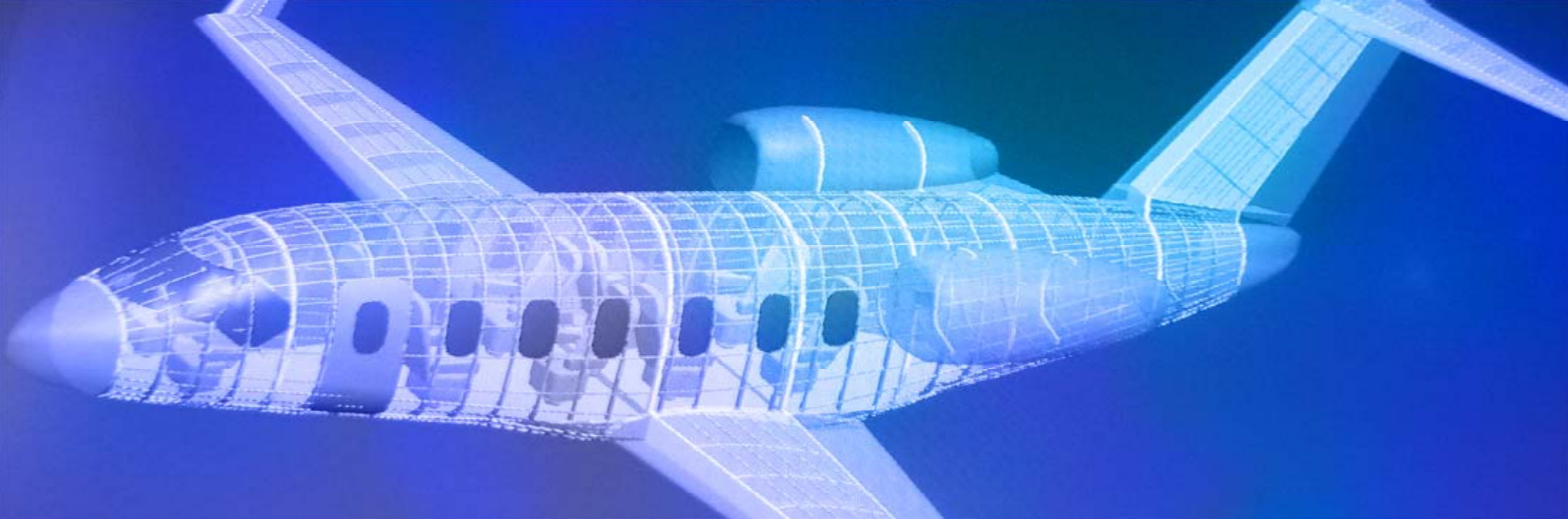
Power management technology

64-bit extension technology

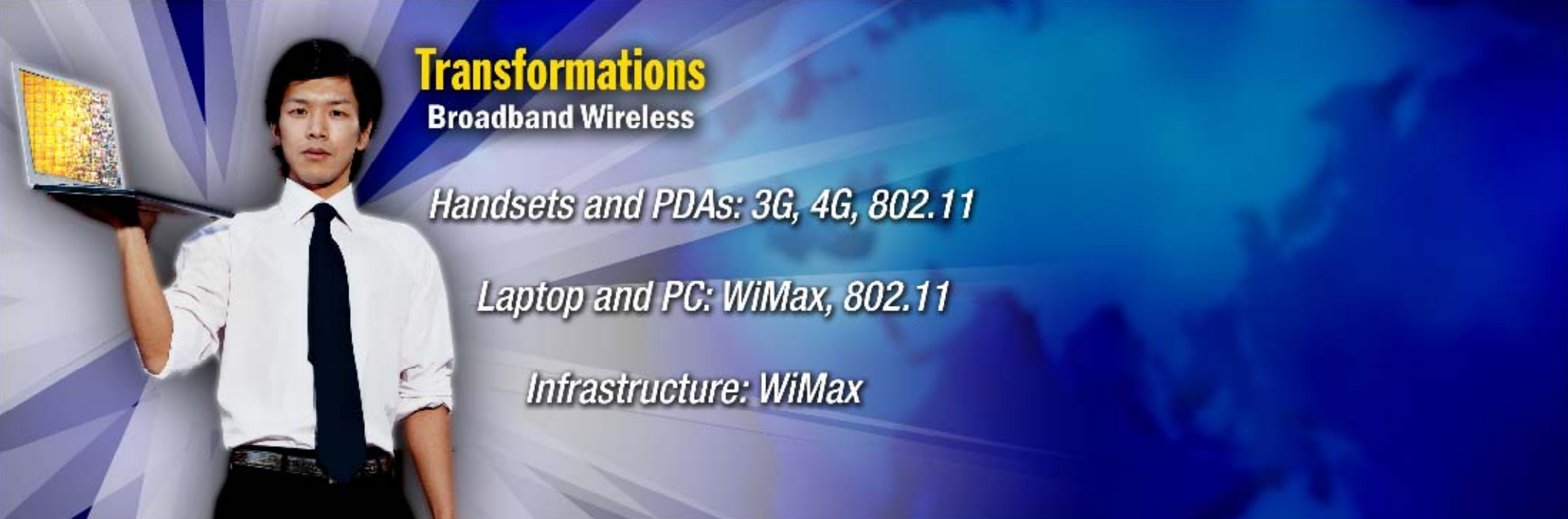
SSE3 Instructions

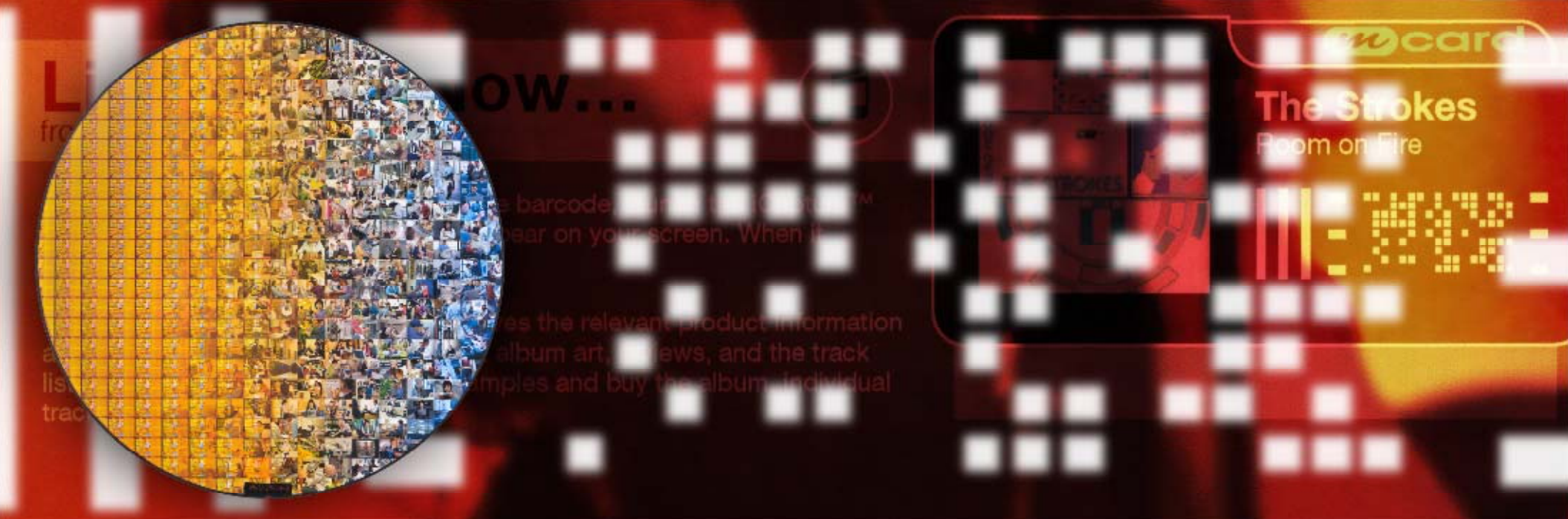
Edit View Favorites
Search
Favorites
Back
http://www.microsoft.com/windowsserversystem/default.mspx
Search Web
1 blocked
AutoFill
Options
Microsoft Windows Server System
Windows Server System
Overview
Solutions for...
Server Platform
Communication and Collaboration
Data Management and Analysis
E-Business
Management
Security
Speech
Mr. 5,000 Desktops Updated with the Latest Engineering App in 10 Minutes
MOTOROLA
Steven Is Doing More with Less
Steven Bramson works as a Senior Systems Architect to help keep Motorola's 65,000 desktops updated.
Watch the 3-minute video
Read how they did it
Highlights
Try SQL Server 2000 Reporting Services
Products by Name
Windows Server
Application Center

Product Test
& Validation
Manufacturing
Engineering
Manufacturing
Production
Launch
Sourcing
Sales
& Distribution
Product
Engineering
Maintenance
& Repair
Concept
Engineering
Disposal &
Recycling
Requirements
& Planning



Transformations
Your Digital Home
Merging of consumer electronics and computing


Transformations
Broadband Wireless
Handsets and PDAs: 3G, 4G, 802.11
Laptop and PC: WiMax, 802.11
Infrastructure: WiMax


card
The Strokes
Room on Fire

# Listen to it Now...

from your cardphone!

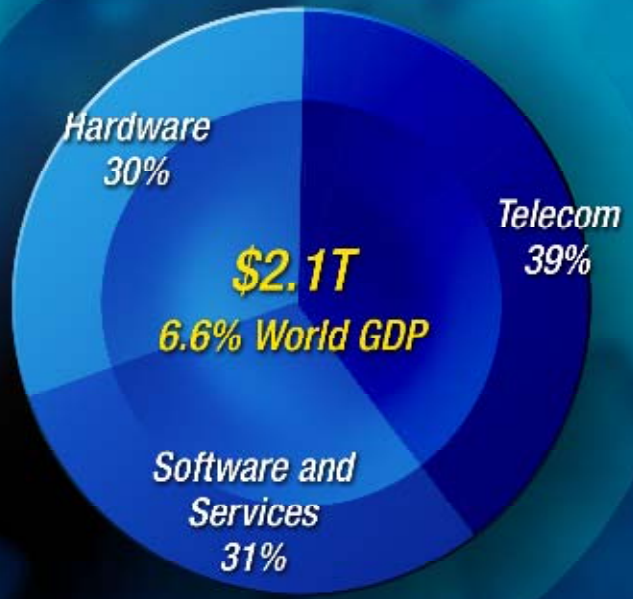
Simply point your camera squarely at the barcode [illegible] ™ application and wait for the music to appear on your screen. When it beeps, you're done.

Musicube's iCapture immediately retrieves the relevant product information and displays it right on your phone: get album art, reviews, and the track listing. You can then listen to song samples and buy the album, individual tracks or even ringtones!

Every aspect of life has a digital opportunity

# Dimensions of Growth

## Worldwide IT Market



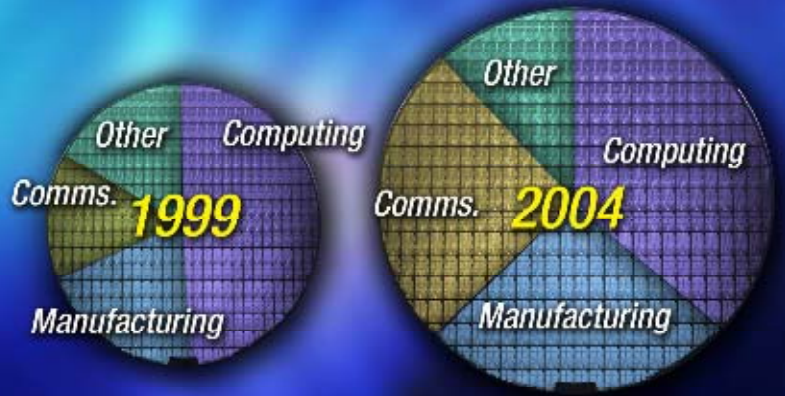
# Dimensions of Growth

## Access to Various Devices

Source: ITU, Dec. 2003

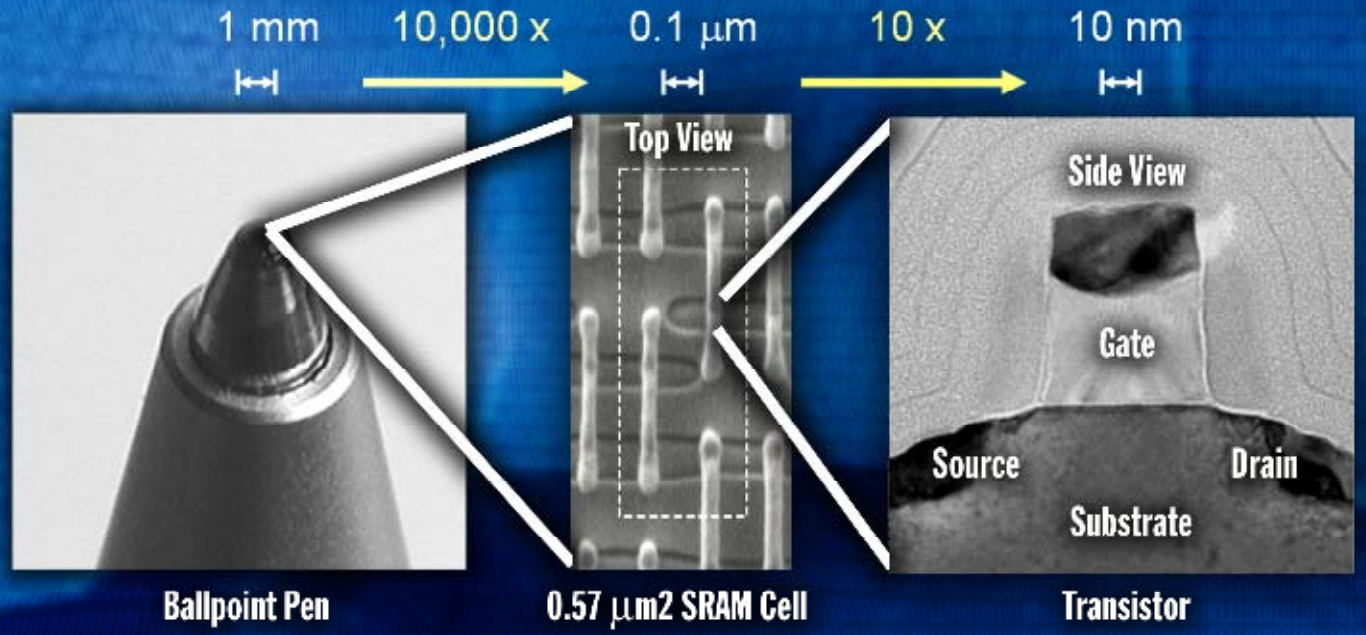
# Dimensions of Growth

## Research and Development



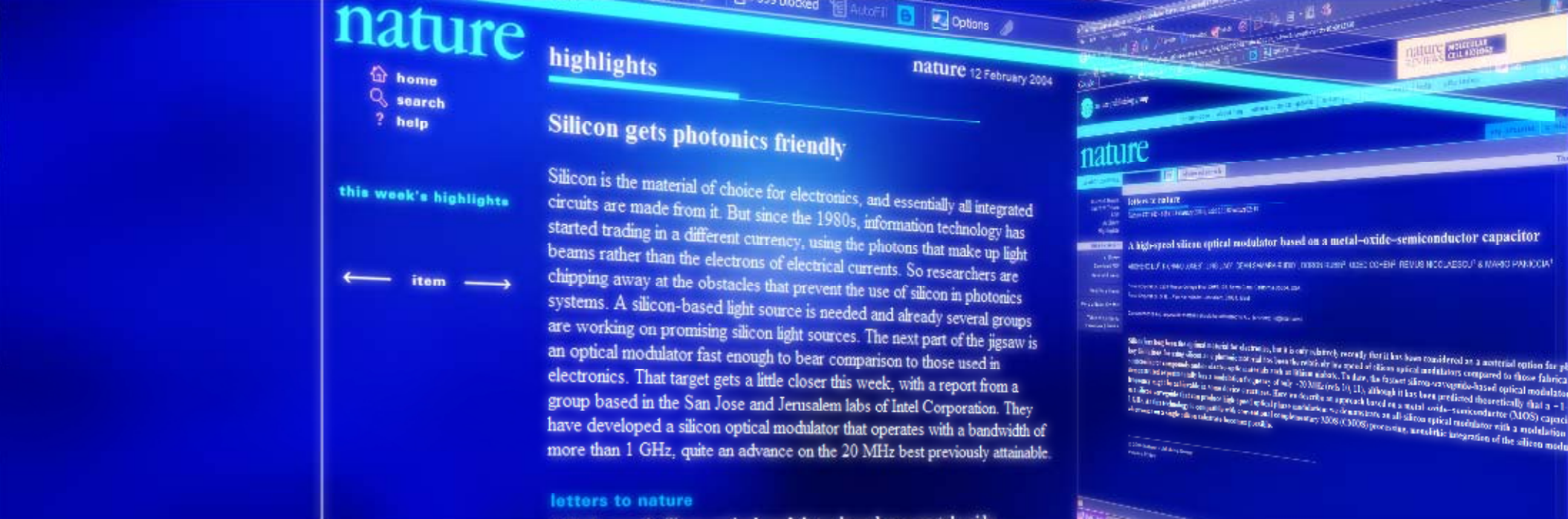
# Dimensions of Growth

## 65nm Generation Transistor



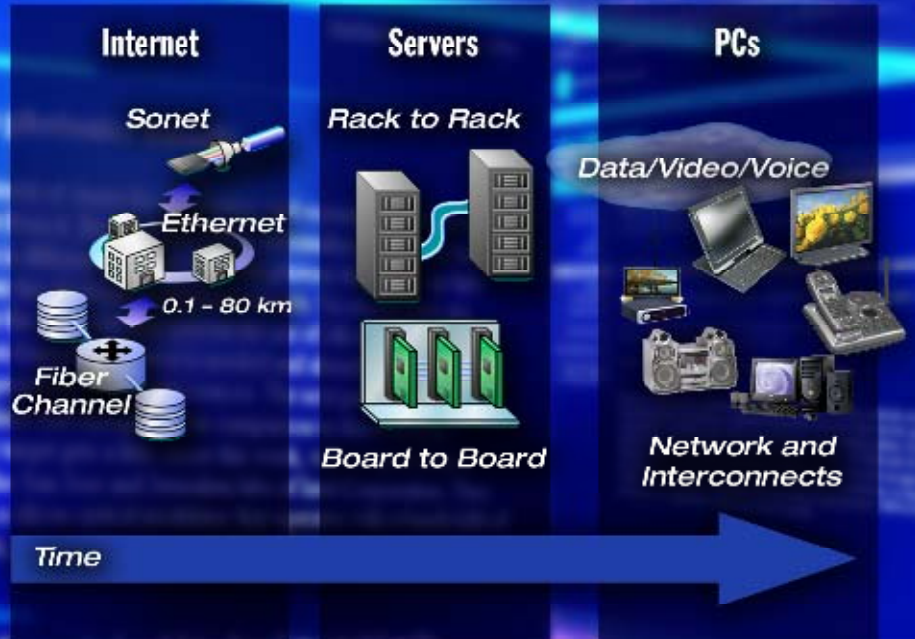
# Dimensions of Growth

## Silicon Modulator

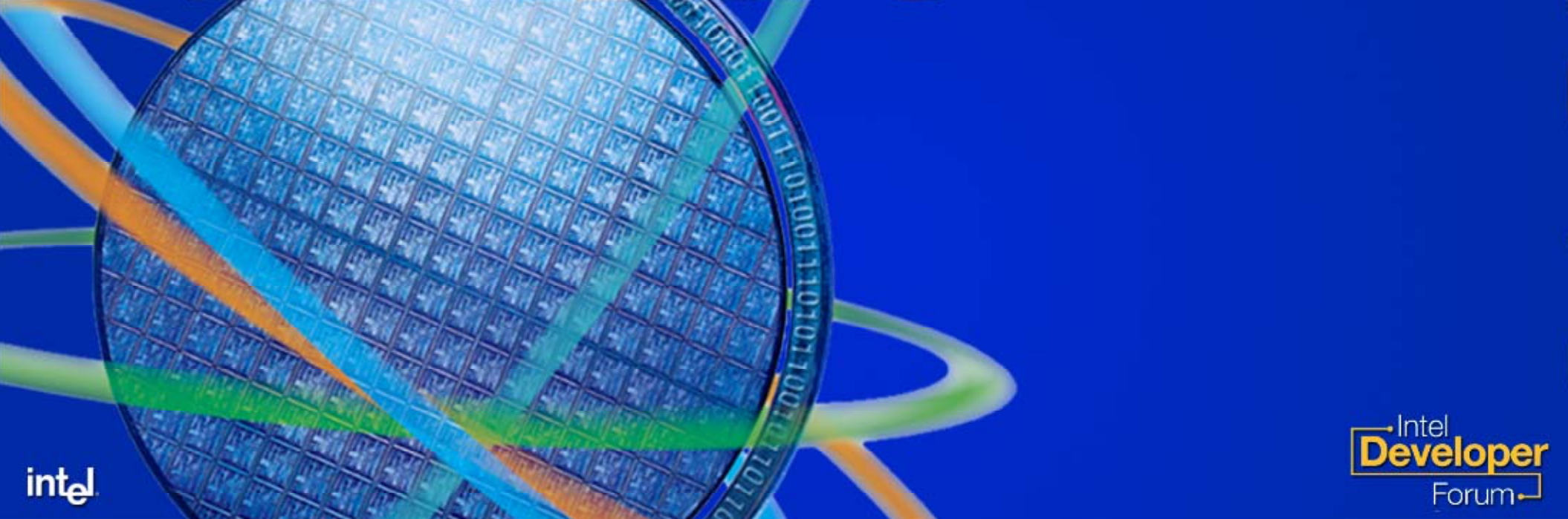

nature
home
search
help
this week's highlights
item
highlights
nature 12 February 2004
Silicon gets photonics friendly
Silicon is the material of choice for electronics, and essentially all integrated circuits are made from it. But since the 1980s, information technology has started trading in a different currency, using the photons that make up light beams rather than the electrons of electrical currents. So researchers are chipping away at the obstacles that prevent the use of silicon in photonics systems. A silicon-based light source is needed and already several groups are working on promising silicon light sources. The next part of the jigsaw is an optical modulator fast enough to bear comparison to those used in electronics. That target gets a little closer this week, with a report from a group based in the San Jose and Jerusalem labs of Intel Corporation. They have developed a silicon optical modulator that operates with a bandwidth of more than 1 GHz, quite an advance on the 20 MHz best previously attainable.
letters to nature
nature
A high-speed silicon optical modulator based on a metal–oxide–semiconductor capacitor

# Dimensions of Growth

## The Potential of Silicon Photonics



Let's invest together in the possibilities


intel
Intel
Developer
Forum

# Dimensions of Growth

## Expanding Opportunity