## A New Era of Integrated Computing

Integrated in Our Lives


Managing Global Cities


Delivering Tailored Healthcare



## TRANSISTORS

The Essential Element of Innovation


## Billions of Transistors Per Chip



## "3D devices are too costly and not manufacturable."

"Gate last approach cannot be manufactured."
"Hi-K is limited to low performance."
"Phase shift masks will never be used in production."


From Cell Phone to SMARTPHONE

Fundamental Advancements in SILICON TECHNOLOGY

Task-Based COMPUTING


Lifestyle COMPUTING


Integrated COMPUTING



## Dublin: <br> CityWatch CitySensing

## GITM HITIWN

Moving Healthcare Out of the HOSPITAL

## Providing Real-Time HEALTH INFORMATION




## Big Data <br> CHALLENGE

Human Genome Sequencing


ONE THIRD of AII WOMEN and ONE HALF of ALL MEN
will be diagnosed with
CANCER

## Creating a Searchable DNA MAP

KNIGHT
CANCER INSTITUTE
Oregon Health \& Science University

Look Inside:

## Eric Dishman

Intel Fellow, GM of Health \& Life Sciences

Look Inside:
"Don't be encumbered by history, go off and do something wonderful."

Robert Noyce

