

IBM Technology & Intellectual Property

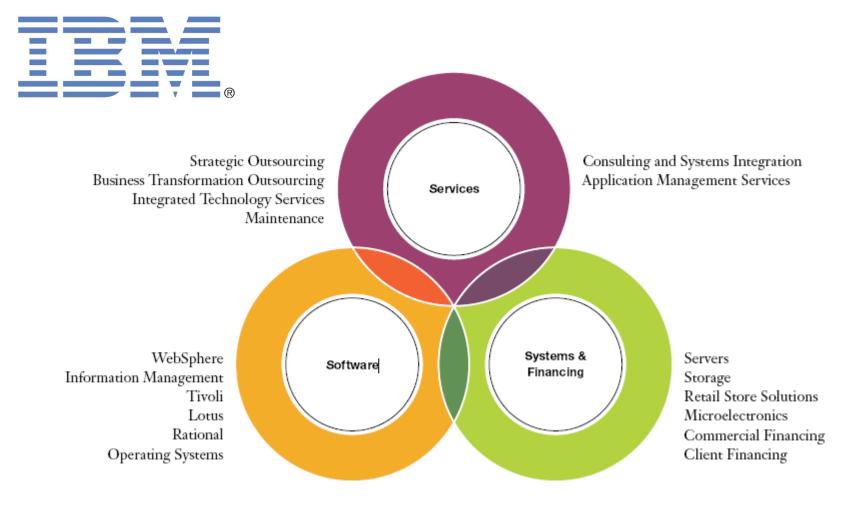
IBM Open Innovation

Tom Reeves Vice President, Intellectual Property

February, 2012

© 2012 IBM Corporation



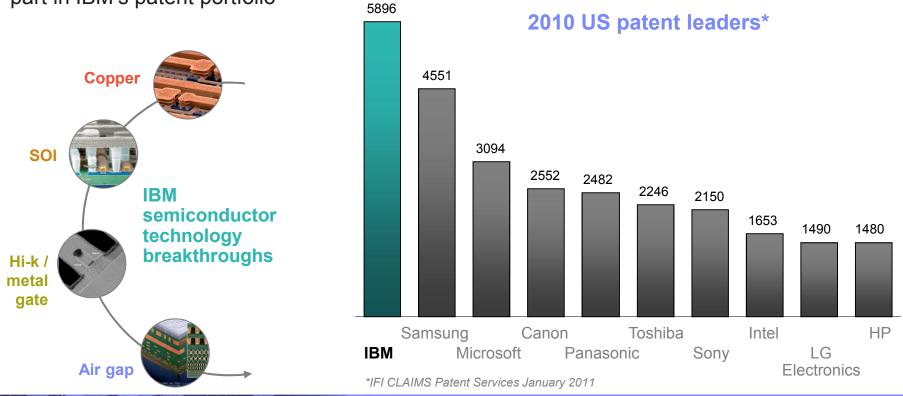


IBM's Strategy: focus on open technologies and high-value solutions, deliver integration and innovation to clients, and become the premier globally integrated enterprise.

2

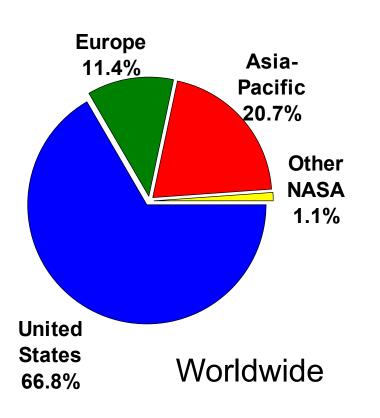
Ongoing commitment to innovation Innovation is no accident

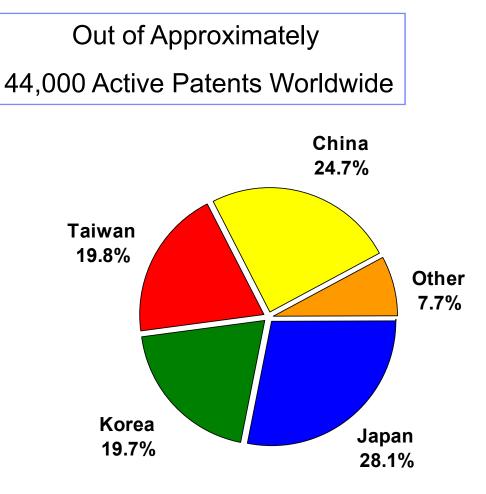
- IBM annually invests ~\$6 billion in R&D
- In 2010, IBM was once again awarded more U.S. patents than any other company (the 18th consecutive year)
- IBM Research and Microelectronic Division semiconductor technology patents play a key part in IBM's patent portfolio





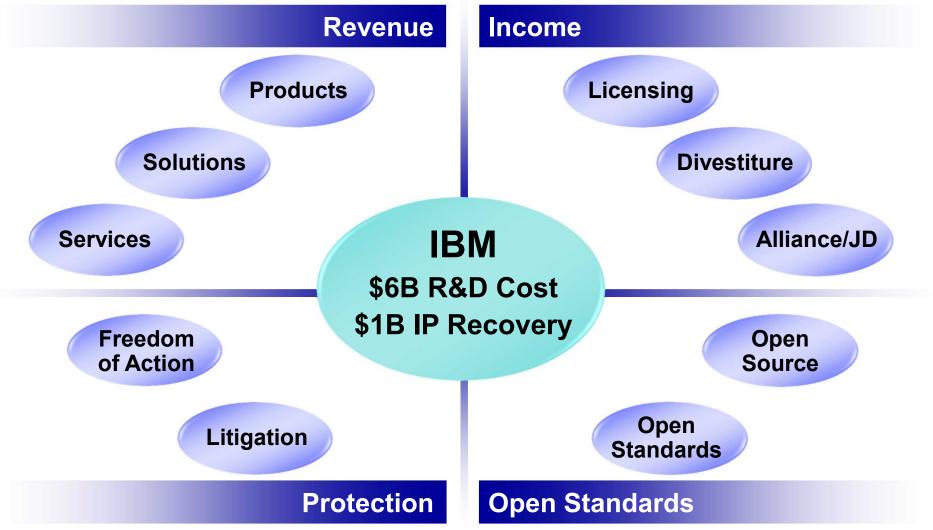
IBM Worldwide Active Patent Distribution





Asia-Pacific

IP for Business Value



IBM

IBM has led the formation of the largest S/C Process Platform





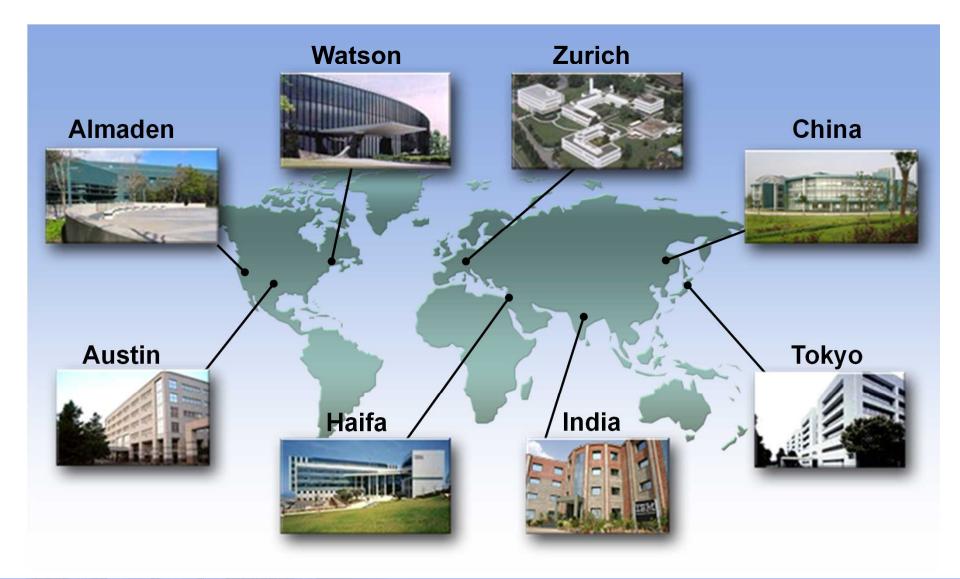
Nanoscale Exploratory Technology Laboratory

IBM and ETH Zurich, a premiere European science and engineering university, announced the formation of a partnership in the field of nanotechnology. Total investment: 90M \$ Opened in 2011



IBM

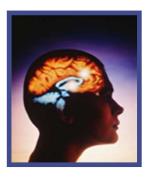
IBM Research Worldwide – over 3,000 professionals



-	-	-	Statements and statements
	-		
	-		

Diversity of Disciplines at IBM Research

Behavioral Sciences



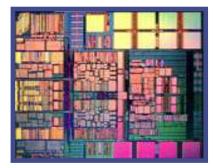
Chemistry

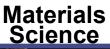


Computer Science



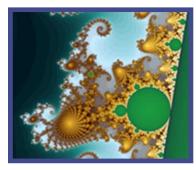
Electrical Engineering



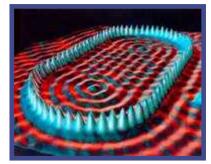




Mathematical Sciences



Physics



Service Science, Management & Engineering



IBM Research Partnership Agreements in the Middle East



Overview of Open Innovation in the Middle East

Key Drivers

11

- Build a knowledge-based economy & develop knowledge workers
 - Develop local capacity in scientific and technical fields
 - Attract top talents and promote government & industrial investment
 - Pursue commercialization opportunity arising from investments

What Can IBM offer?

- Enable governments to undertake initiatives to build an innovation-driven economy
 - Develop local human capital through joint research, training and know-how transfer
 - Assist governments and universities in building Research & Development centers
 - Generate IP jointly through IBM's innovation culture
- Joint development projects on areas strategic to the region
 - water, energy, sustainability, healthcare, oil, security, finance

Government of Arab Republic of Egypt

- Cairo center for nanotechnology R&D
- Cooperation between Egyptian and international scientific teams
- Introduce Services Science, Management and Engineering (SSME) into Egyptian National Curriculum



Arab Republic of Egypt Ministry of Communications and Information Technology

"The set-up of the nanotechnology center and the introduction of SSME by Egypt and IBM are key to the implementation of Egypt's science and technology strategy that will lead to the development of a knowledge economy."

- Dr. Hany Helal, Minister of Higher Education and State Minister of Scientific Research

King Abdullah Univ. of Science & Technology

- International, graduate-level research university
- Dedicated to inspiring a new age of scientific achievement
- Four strategic research thrusts
 - Resources, energy and environment
 - Biosciences and bioengineering
 - Materials science and engineering
 - Applied mathematics and computational Science





KAUST/IBM Center for Deep Comp. Research

- Establish in Saudi Arabia a significant team of scientists to work on the most complex, highperformance computing system in the region
- Shaheen: ranked #14 WW, #1 in Middle East/Africa in terms of super computing
 - Serve University's scientific
 researchers across dozens of
 disciplines
 - Advance new innovations in computational sciences
 - Contribute to the further
 development of a knowledge based society in Saudi Arabia





King Abdulaziz City for Science & Technology

- Nanotechnology Center of Excellence
- Address scientific, economic challenges and evolve research strategy
- Joint technology development agreement
 - Solar power
 - Water desalination
 - Recyclable materials



ودينة الولك عبدالعزيز للعلوم والتقنية

King Abdulaziz City For Science and Technology



