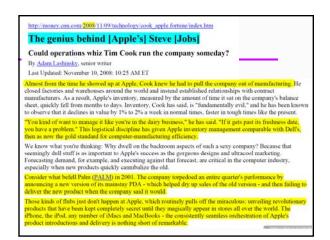
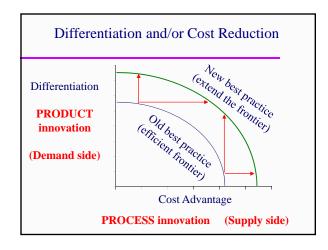
### MGMT 6621

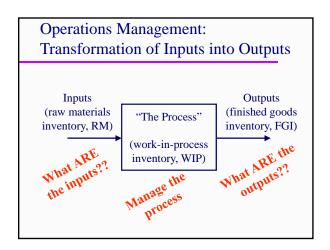
- Operations Strategy
- ◆ Professor: Glen Schmidt
- ◆Class #1: The Dynamics of Innovation
  - Discuss historical patterns of innovations.
  - Review the course syllabus and expectations.

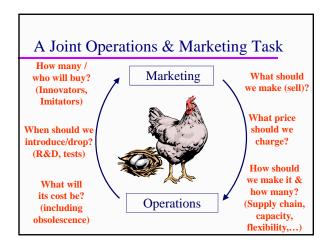


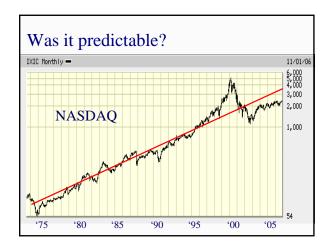












### Management Scientists:

- **♦** Describe past "weather" patterns
- ♦ Predict the "weather" of the future
- ◆ Change the weather of the future to our benefit (e.g., reverse "global warming?")

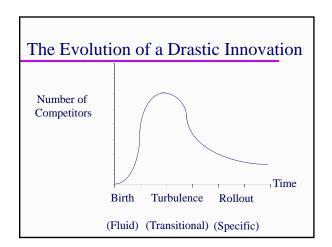
### Managing in a world of uncertainty

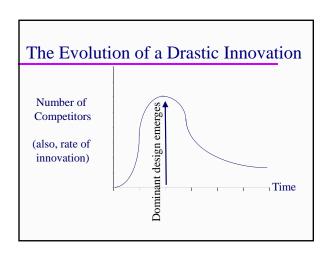
"Last night Charlie Rose interviewed Lee Raymond, Chairman & CEO of Exxon Mobile - a brilliant and practical man who calls it like he sees it. He said that, in laying strategies for the future, they used to rely on elaborately calculated predictions of the price of oil. Eventually, they faced up to the fact that they were almost always wrong about the price projected. So they said, the real question is not what to do if we know what the price will be. We should be concentrating on what we should be doing when we don't know the price."

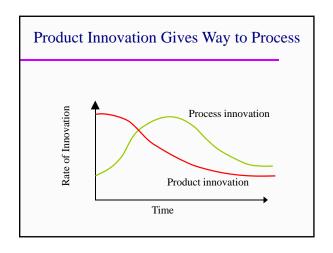
The Worden Report, Dec. 8, 2004

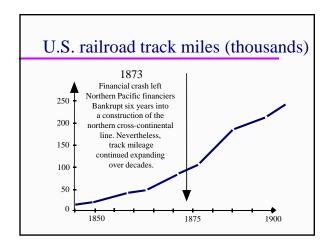
# Intel's 2001 Annual Report

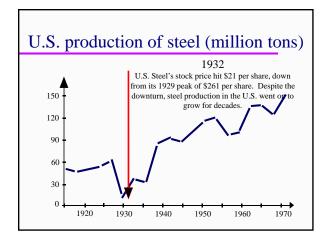
- 1. Birth...enabling technologies emerge... revolutionary... pioneers crowd into the field... extraordinary profits... mania
- 2. Turbulence... Overinvestment... overcapacity... burst the bubble... slowing economy... stock... crash... companies fold... may declare the technology dead.
- 3. Build-out ... Real value... full implementation... penetrates the economy... industries organize around it... businesses adjust to take full advantage... sustained investment... robust returns... driving engine of the economy.

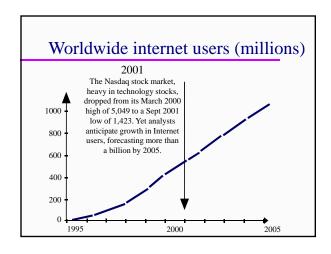


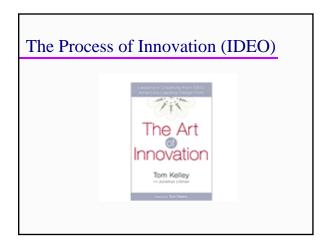




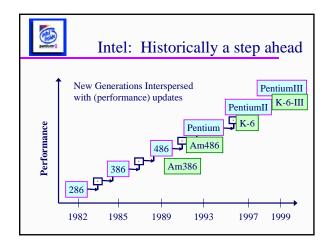












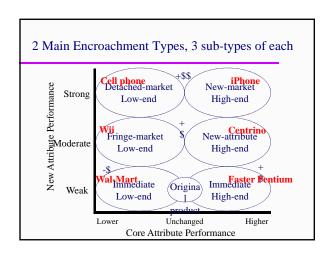
If GM had kept up with technology like the computer industry has, cars would cost \$25 & get 1000 mpg.

- A retort to Bill Gates, who reportedly made the above comment at COMDEX:
- ♦ Yes, but would you want your car to crash twice a day?
- Every time they repainted the roads, you would have to get a new car.
- Occasionally your car would die on the freeway for no reason. You would just accept this, restart, and drive on.
- Occasionally, you would have to re-install the engine. For some strange reason, you would accept this too.
- The airbag system would say "are you sure?" before going off.

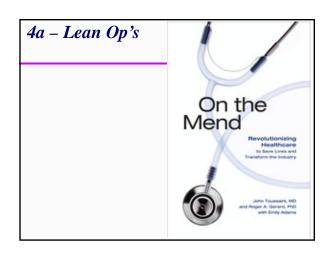
# A (serious) response to Bill Gates:









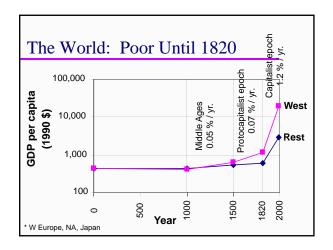


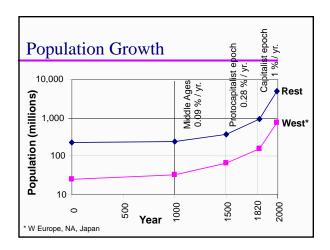




5b – Adopting Risk as a Strategy

# Grading Policy 40 points possible from 3 assignments 35 possible from final exam 25 possible from participation Quality in sufficient quantity ("mere attendance"<<100%)</li>





What was the Most Influential Innovation of the Past Millennium (1000 - 2000)?

# What was the Most Influential Innovation of the Past Millennium (1000 - 2000)?

- Peter Drucker (U.S. mgt guru): Printing press.
- ◆ Lee Kuan Yew (Sr. Minister, Singapore): Air conditioning.
- Gary Becker (U.S. economist): Competition (e.g., democracy).
- Philip Dimitrov (former Prime Minister, Bulgaria): Tolerance.
- Hans Tietmeyer (Pres., Bundesbank): Liberty, nondiscrimination.
- Sagako Ogata (U.N. commissioner): Rights of refugees.
- Pascal Salin (French economist): Individual liberties.
- Hugh Thomas (English historian): Printing press.
- Robert Thurman (U.S. historian): Peaceful coexistence, as practiced by Tibetan monasticism.

### And the Winner is:

- **◆**The factory system of production.
  - "... led to an unprecedented rise in wages and living standards. Factory-based mass production also assured that inventions such as telephones, radios, automobiles and televisions could be made at prices affordable to average buyers... 'It was a momentous transformation of society.'"

