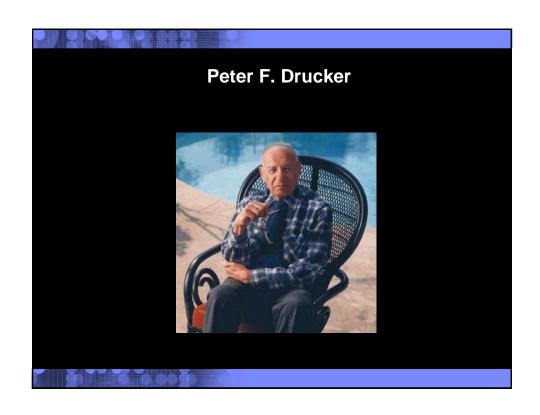
# Innovation Diffusion Theory: How To Make Innovations Profitable

Thomas S. Robertson Goizueta Business School Emory University

Danish Award Ceremony: Copenhagen 22 September 2005

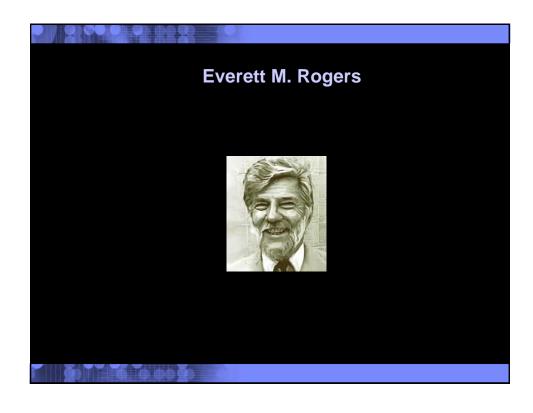




# Innovation

"Because its purpose is to create a customer, the business enterprise has two – and only these two – basic functions: marketing and innovation."

> Peter Drucker, People & Performance, Harper & Row, 1977



#### **Diffusion**

- Innovation is of little value unless it diffuses
- Curiously, diffusion theory's dominant paradigm emanated in rural sociology
- Everett M. Rogers' <u>Diffusion of Innovations</u> was published in 1962 and is one of the most cited books in the social sciences. Now in its 5<sup>th</sup> edition.

#### **Twin Strategies for Profitability**

- Relentless Innovation
- Rapid Penetration

## **Relentless Innovation**

#### Competitive Rationale:

"I think Sony's mission is to make our own products obsolete. Otherwise, somebody else will do it."

Kunitake Ando, President of Sony, Financial Times, February 10, 2003

#### Consumer Rationale:

- > Benefit escalation, e.g., PDAs
- > Benefit evolution, e.g., digital cameras

#### Relentless Innovation

## **Market Driving**

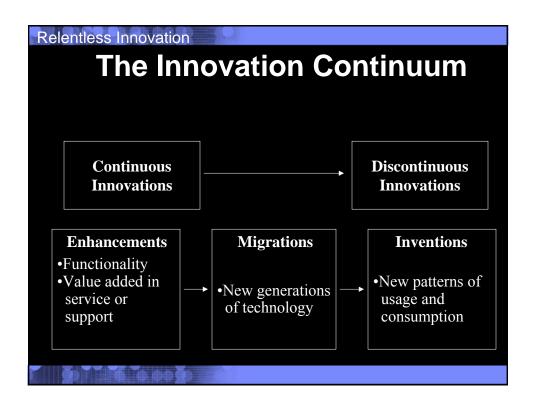
- The challenge is to anticipate customer needs
   Market Sensing
- Marketing research too often assumes that customer needs are established
- New directions must generally be inferred
  - iPod
  - Rolls Royce jet engines

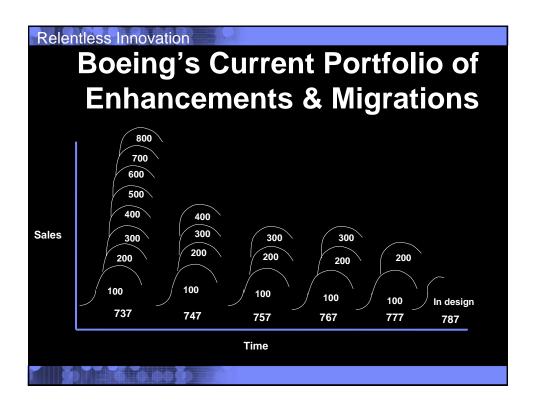
#### Relentless Innovation

# Rolls Royce Aero Engines Market Vision

- "Power by the hour"
- Real-time ground to air monitoring
- Rolls Royce assumes the responsibility. Airlines don't really want to own and maintain engines.

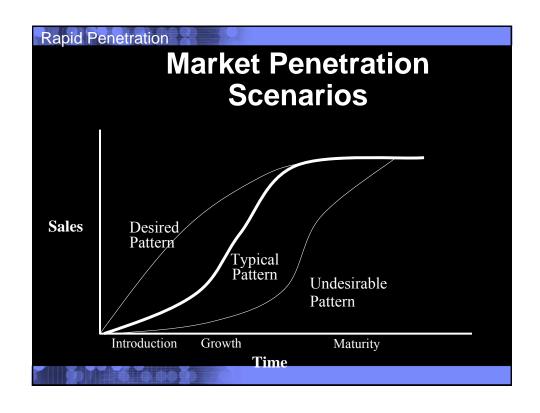
# Market Driving "My success in scoring goals is to anticipate where the ball is going – not to chase it." Pelé

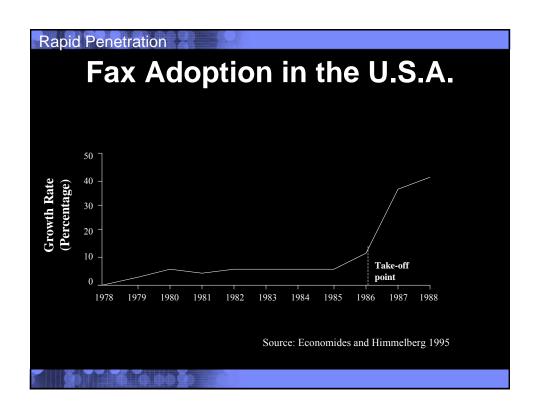


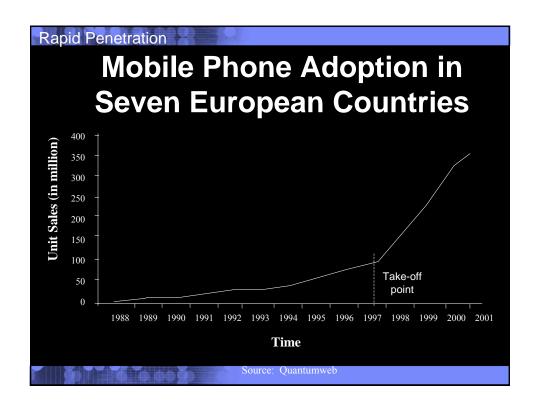


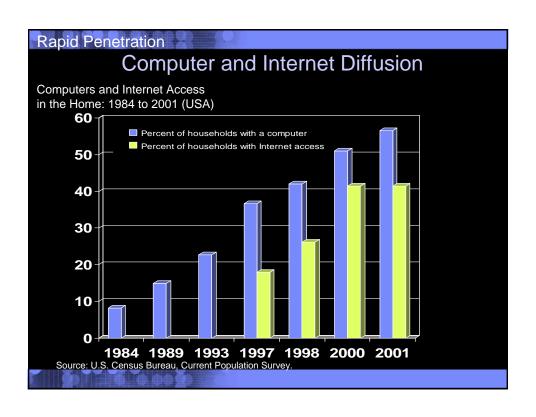
# **Rapid Market Penetration**

- Capture Brand Loyalty and Reputation Effects
- Set the Dominant Standard
- Achieve Scale and Experience Effects
- Capture Sales and Profits Before Competitors



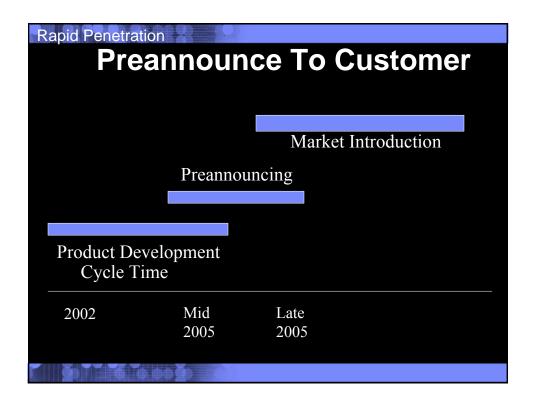


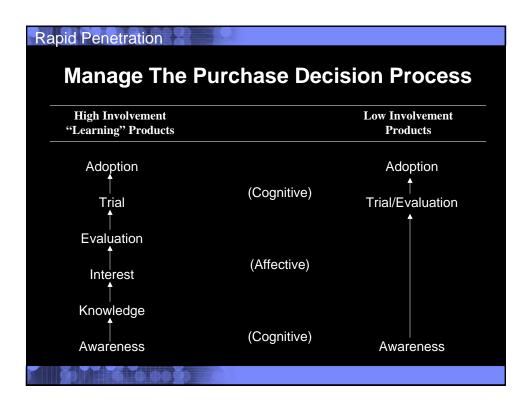




# Pursue Early Mover Advantages

- As a generalization, early movers tend to achieve higher market shares
- However:
  - This does not necessarily apply in new technologies
    - e.g. Apple Newton vs. Palm
    - e.g. Rise of Google





High vs. Low Involvement Products		
Issues	High Involvement View	Low Involvement View
Decision Process	Consumers pass through a learning hierarchy e	Awareness and trial may be the only steps necessary before purchase
	Active seekers and	
Role of the Consumer	processors of information	Passive recipients of information and limited processing
	Cognitive resistance to	
Consumer Defenses	discrepant information	Lack of cognitive resistance
	Other people are used	
Personal Influence	for information and social imitation	Lack of personal information and social imitation
Marketing Program	Educate	Inform

#### What Have We Learned?

- Anticipate the future
  - infer consumer needs
- Drive the market
  - create consumers
- Provide the applications
  - most new product failures are not due to technology problems
- Manage the innovation continuum
  - enhancements/migrations/invention
- Accelerate diffusion
  - get a fast start
- Manage the purchase decision process
  - High vs. low involvement