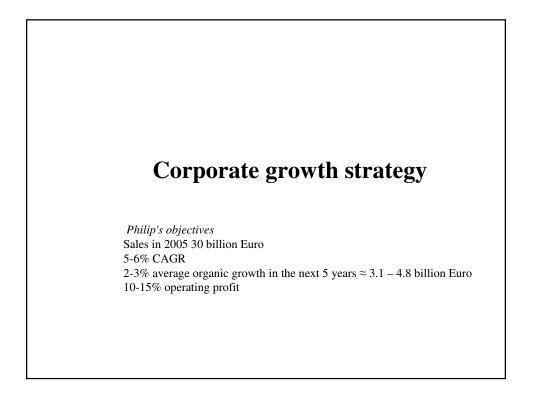
## **OPEN INNOVATION: Broadening the scope**

### Wim Vanhaverbeke

Hasselt University / TU Eindhoven

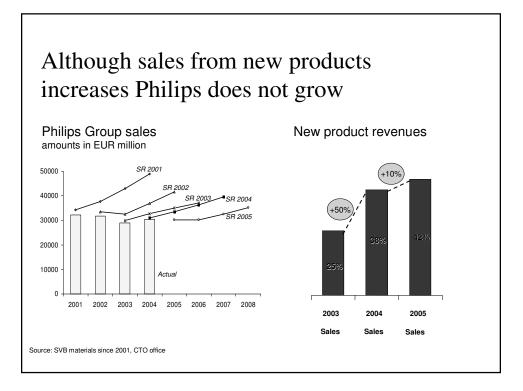
EPFL Tuesday, October 09, 2007

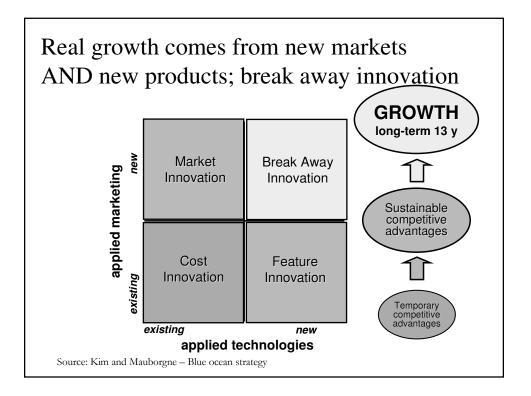


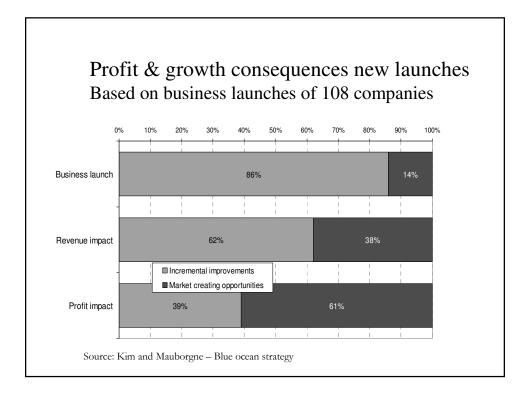
How to fight the commodity trap: Increased innovation but no growth

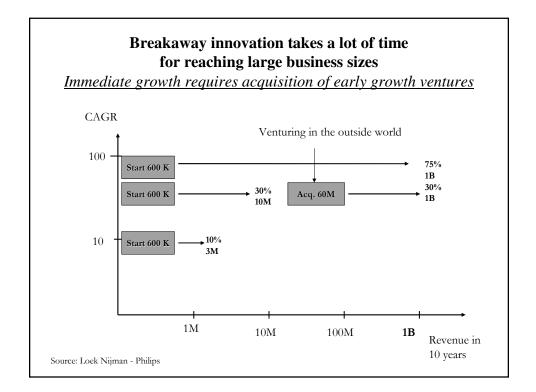
## Philips

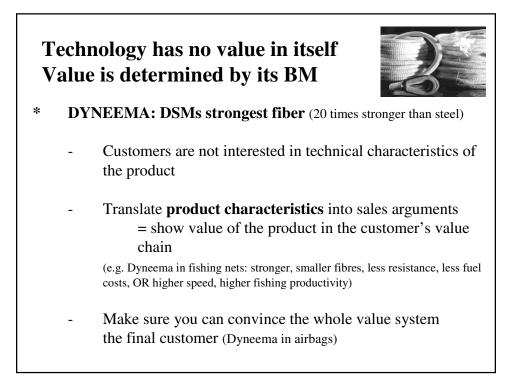
- Progress in new product creation but growth has been failing:
- New products for stagnating market do not lead to growth (= speeding up the PLC)
- Needed: *business creation* rather than product creation or
  - Create your own market space

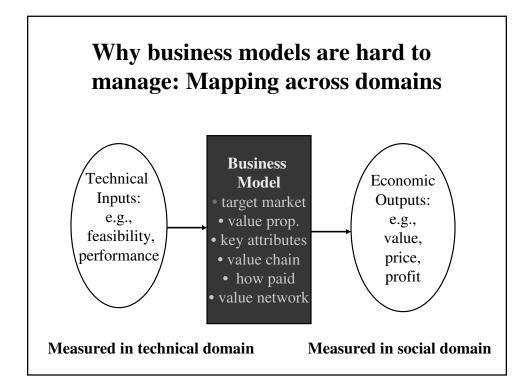


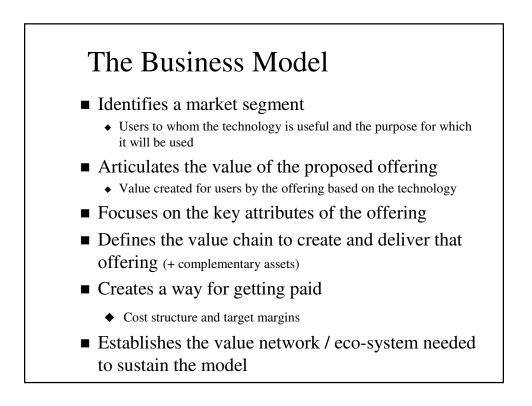


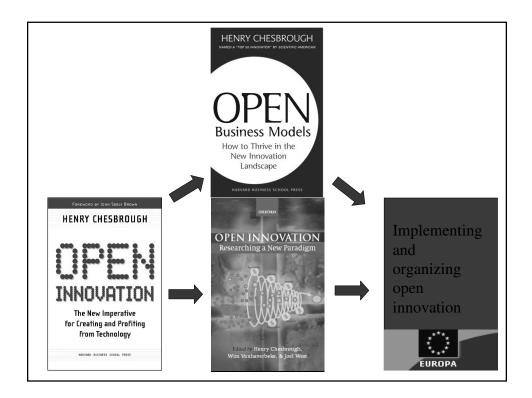


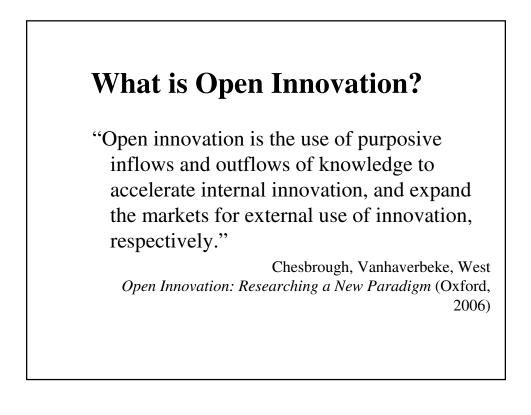


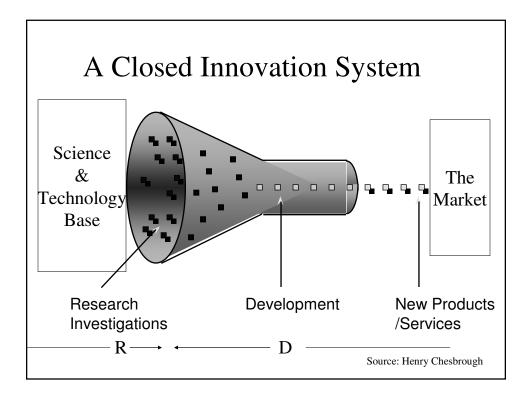


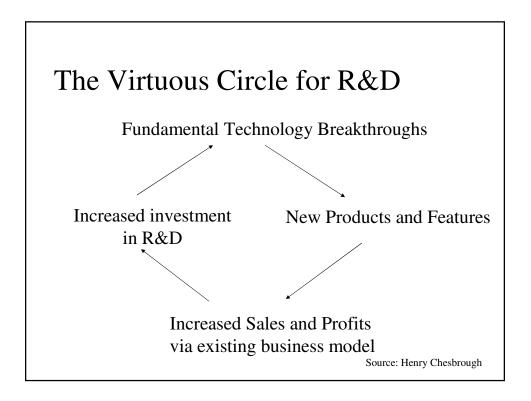








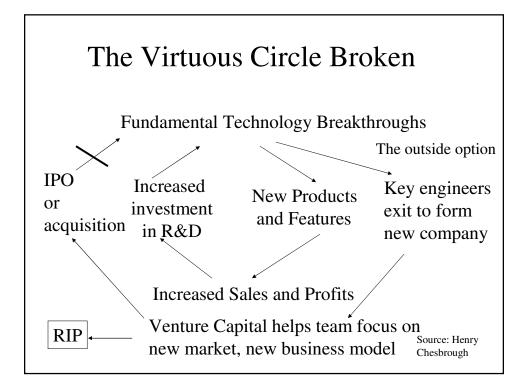


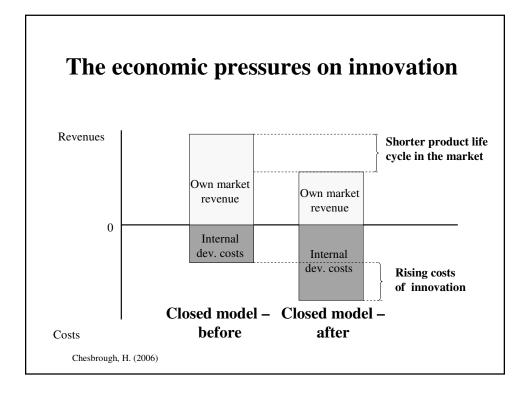


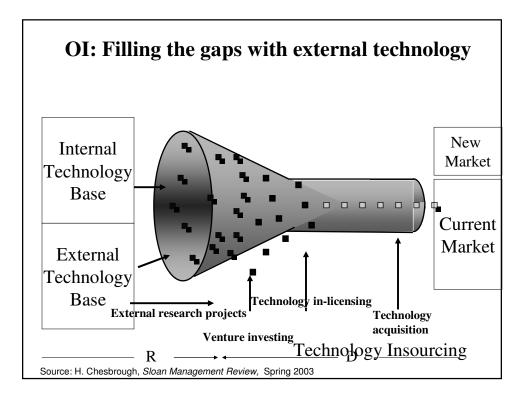
## What changed? New Division of Innovation Labor

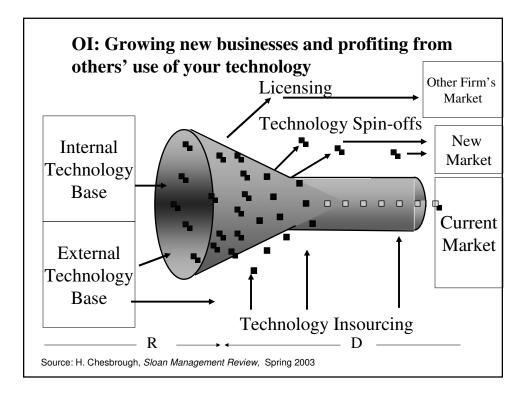
- Increasingly mobile trained workers
- More capable universities
- Knowledge distributed more widely throughout the world
- Diminished US hegemony in many leading technology fields
- Erosion of oligopoly market positions
- Deregulation (EU-liberalization)
- Enormous increase in Venture Capital

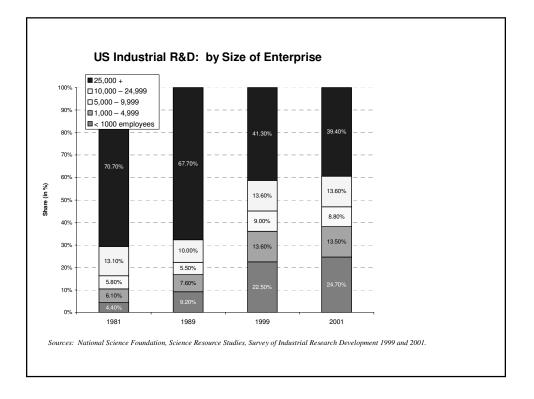
Source: Henry Chesbrough

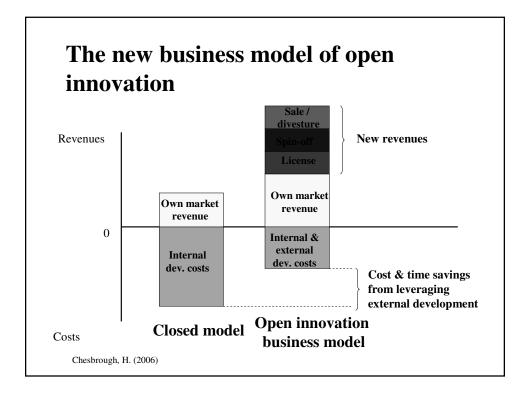


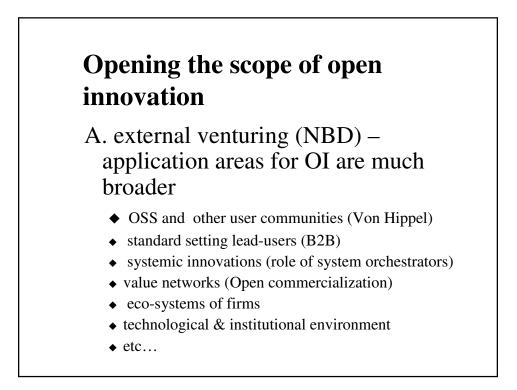












## **Opening the scope of open innovation**

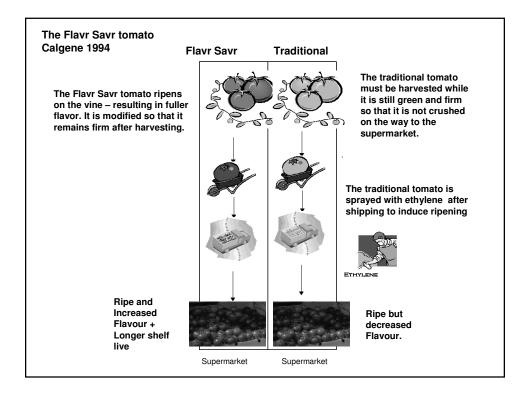
- C. Focus on large, technology user firms
  - ♦ OI is about transactions
  - $\rightarrow$  user + supplier  $\rightarrow$  the high-tech start-up story?
  - How innovative start-ups can approach effectively large user firms
    - Technology push idea every high tech company with a promising technology should have access to large companies
    - Better: Scouting, cooperation in precompetitive R&D networks, fairs, VCFs, etc...
  - What is the start-up or SME's business model? Manageable value networks?

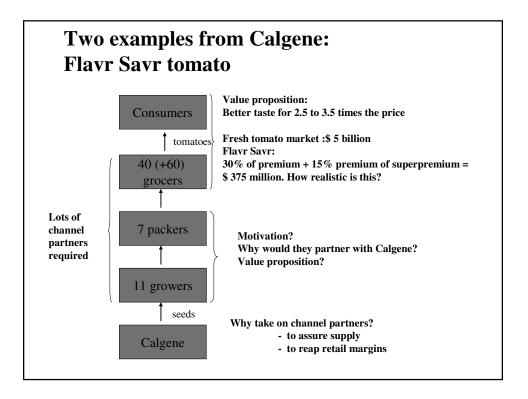


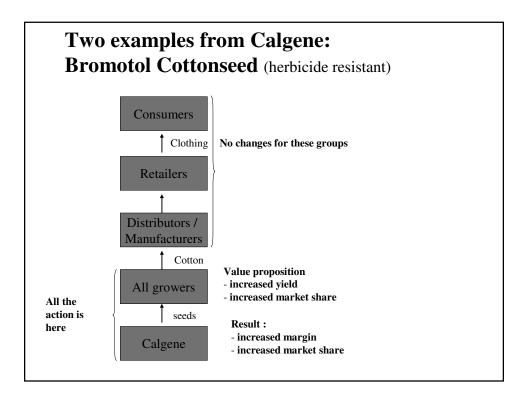
D. From firm to network perspective:

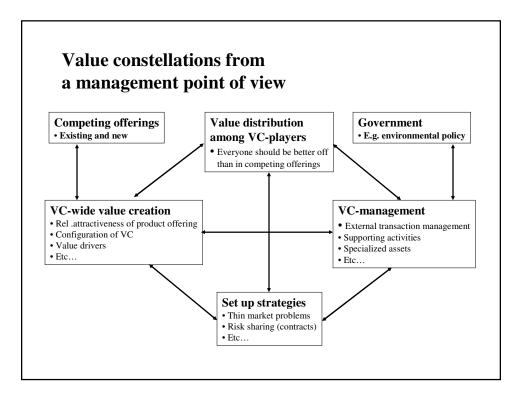
- Value added to be created by a value network: group vs. group competition (changing business architecture)
- "Revisit the unit and mode of analysis: from dyadic relations to *industry-wide* architectures"

(Jacobides et al. 2006, RP, p. xx).



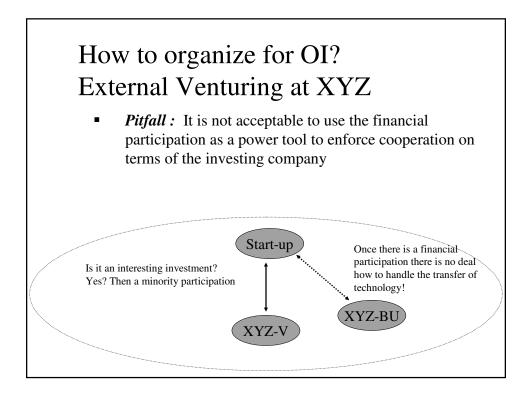


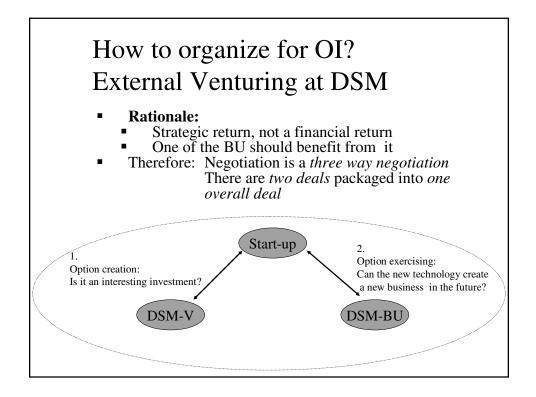


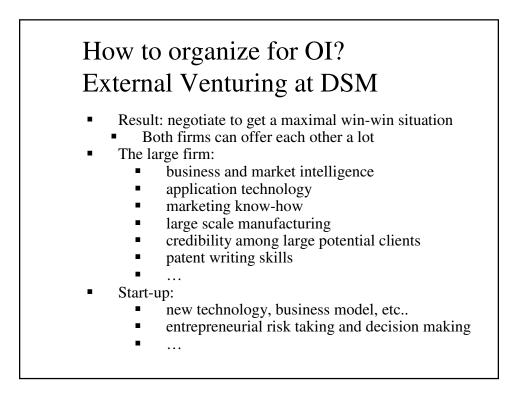


## **Opening the scope of open innovation**

- E. How to source external technology?
  - BM but not organization structure, culture, dynamics of corporate strategy, routines, internal technology transfers
    - External Venturing @ DSM
    - ♦ *How to manage OI*?



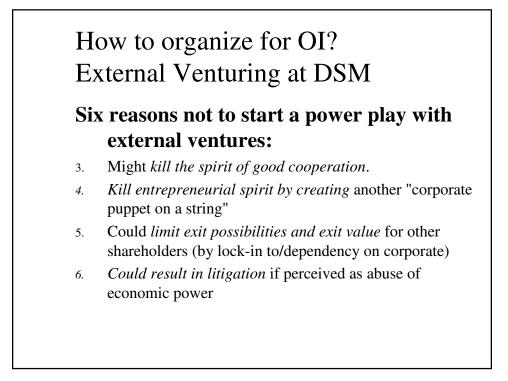


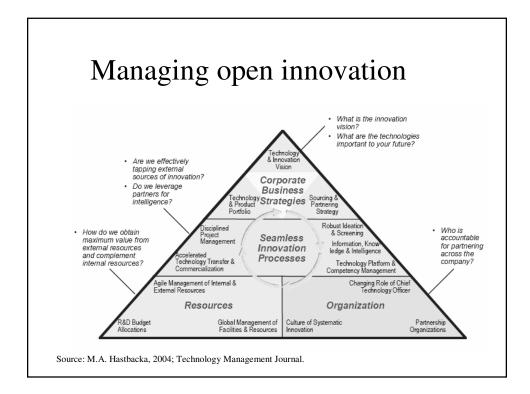


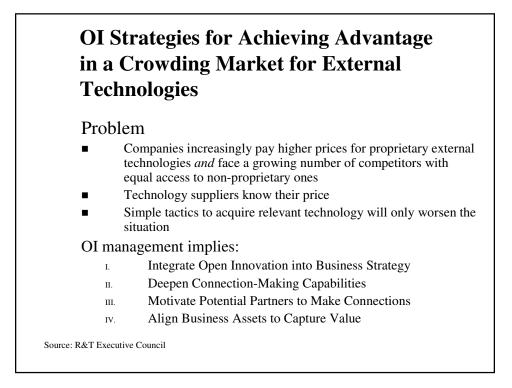
## How to organize for OI? External Venturing at DSM

# Six reasons not to start a power play with external ventures:

- *1. Bad reputation:* when the large, investing firm is looking for interesting start-ups as a recurrent practice
- 2. Pushing *too hard for a particular application* (based on the business model and proposed application of the large, investing firm)
  - Market potential of start-up technologies is still very uncertain because of the early stage technology. *Keep options open* for unintended but interesting applications.
  - limits business potential of start-up (and thereby shareholders value)





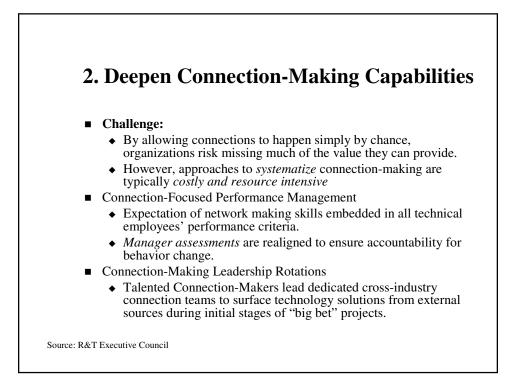


### 1. Integrate Open Innovation into Business Strategy

#### Challenge:

- To protect returns through differentiation, companies must integrate open innovation activities with strategic planning
- Integrate open innovation into business strategy to target external opportunities that uniquely fit a firm's capabilities!
- Example: R&D-Marketing Misalignment
  - Technical possibility not translatable into customer benefits
  - Product specifications do not describe degree of competitive differentiation required
  - Consequences for internal innovation:
    - Development priorities not linked to opportunities for competitive differentiation
  - Consequences for external innovation:
    - Technology sourcing strategy not targeted at most advantaged possibilities

Source: R&T Executive Council

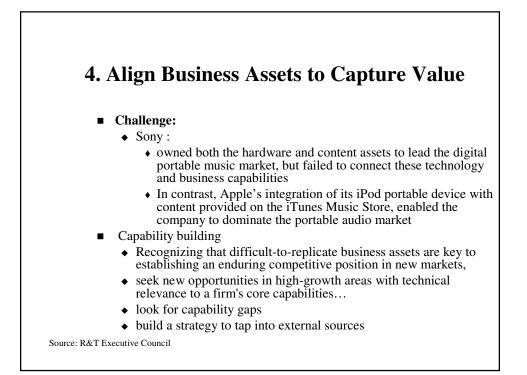


### 3. Motivate Potential Partners to Make Connections

### Challenge:

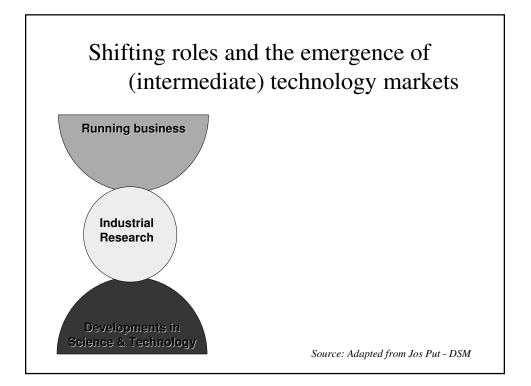
- How to become a "Partner of Choice" corporate reputation is important
- Market power is not sufficient to attract external technologies, on the contrary, size can sometimes deter potential partners
- benefits
  - Decreased Rate of Partner Refusal
  - Privileged Access to Technology of Core Partners
  - Potential Partners Motivated to Look for Connections
    - lower costs to find creative connections
- but misperceptions about large companies
  - "They Are Builders Not Buyers"
  - "They Are Too Big to Work With"
  - "They Are an Industry Outsider"

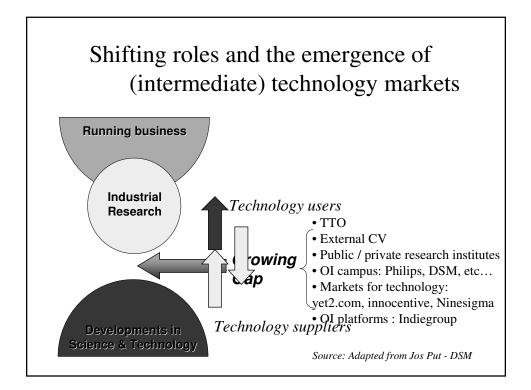
Source: R&T Executive Council

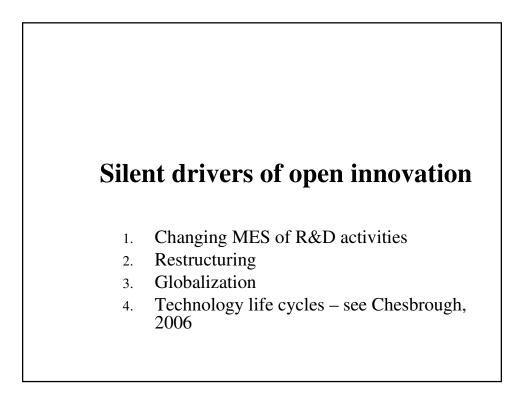


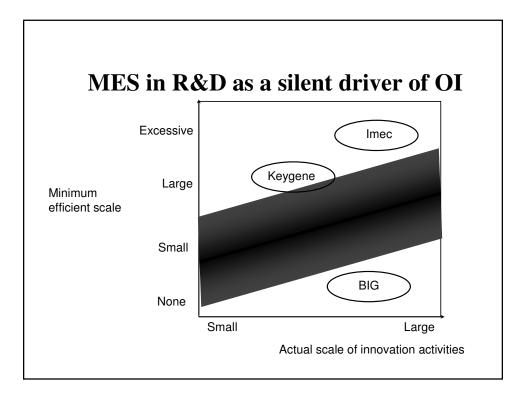
## **Opening the scope of open innovation**

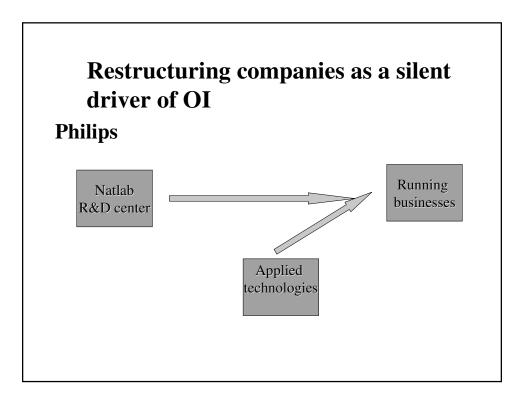
- G. Inter-organizational knowledge transactions
  - The Arrow (1971) Information paradox + transaction costs are high
  - ◆ Traditional: patent protection
  - Now : + How firms create markets for technology? (Arora; brokering firms)
    - Innocentive
    - ◆ Ninesigma, ...
    - Indiegroup

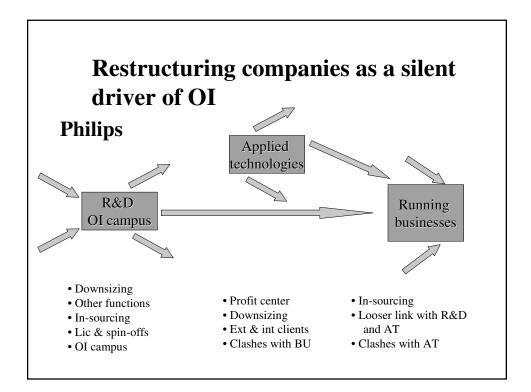


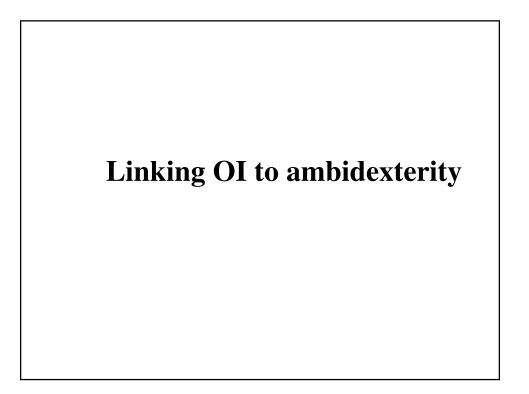


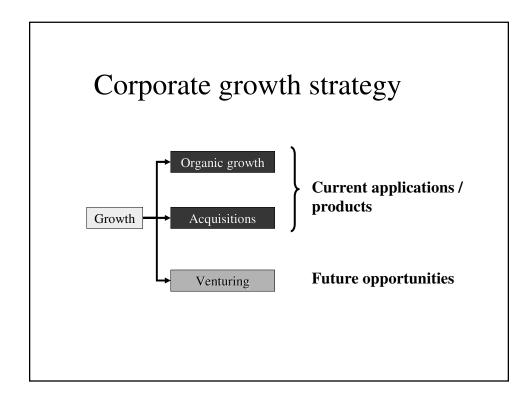






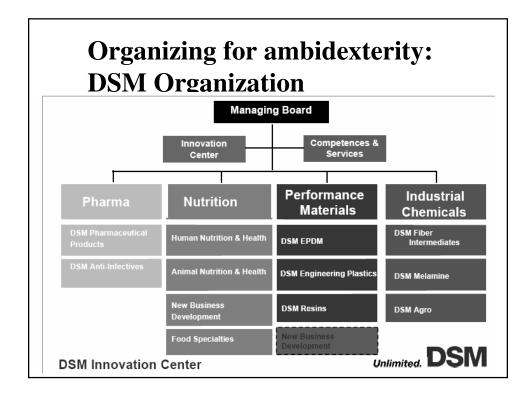


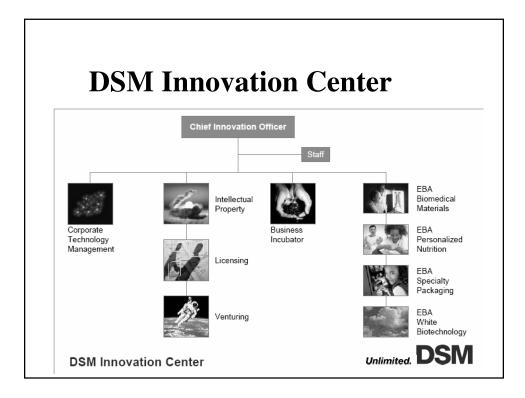


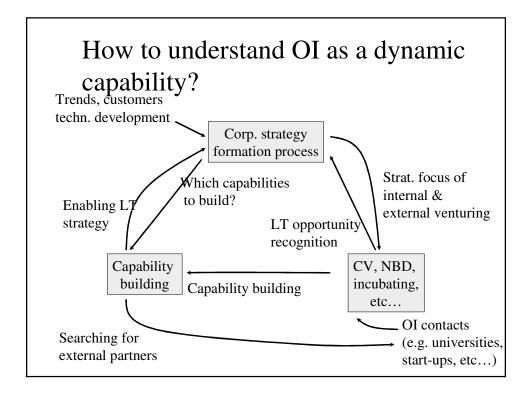


Ambidexterity: Organizational DNA of CoreCo and NewCo is different		
	CoreCo	NewCo 🛆
Staff	Operational experts	Creators, inspirers
Structure	Hierarchy	Flat
System	Accountability, fixed compensation	Learning, variable compensation
Culture	Risk averseness	Risk tolerance

CoreC	o and NewCo	are differen
	CoreCo	NewCo
BM	Refine the old BM	Forget the old BM
Assets	Everyday improvement utilization of all assets	Borrow, but only th <i>strategic</i> assets
Mistakes	Minimize all mistakes by using 6Σ & TQM	Learn, by doing mistakes early and cheap







# **Practicing Open Innovation**

- Websites
  - http://www.openinnovation.net
  - http://www.openinnovation.eu
  - http://www.openinnovatie.nl
  - On-line open innovation scan
- Seminars
  - Customized management courses about OI
  - Cases and management tool development
- European Center for OI
- Wintercourse CE and OI at High Tech Campus (8-14 November 2007)

