

**EE-402a Series "Doing Business
with Your Technology in Asia"**

**Overview: What Asia Means for U.S.
High Tech Businesses**

September 25, 2003

Richard B. Dasher

Director, US-Asia Technology

Management Center

Stanford University



Outline for today

- ▶ **Putting Asia into the perspective of high-tech business today**
- ▶ **General points about doing business overseas, especially in Asia**
- ▶ **Survey of the sessions in this course**
- ▶ **Administrative items: getting credit, etc.**
- ▶ **Asking you for input**



When I say "Asia high-tech business" What do you think of?

- ▶ (to be added during the class)
- ▶ Computer chip production
- ▶ People-intensive applications: testing, etc.
Cost advantage
- ▶ Internet cellphones
- ▶ Broadband Internet access
- ▶ Outsourcing from the U.S.
- ▶ WiFi (in India: Reliance invested in infra.)
Leapfrogging earlier technology



Roles of Asia for U.S. high-tech businesses

▶ Markets

- Robust (young) early technology adopters
- Testbed for new technologies
- People willing to pay

▶ Source of technologies

▶ Low cost source of engineering, skilled labor

▶ Low cost source of manufacturing capacity



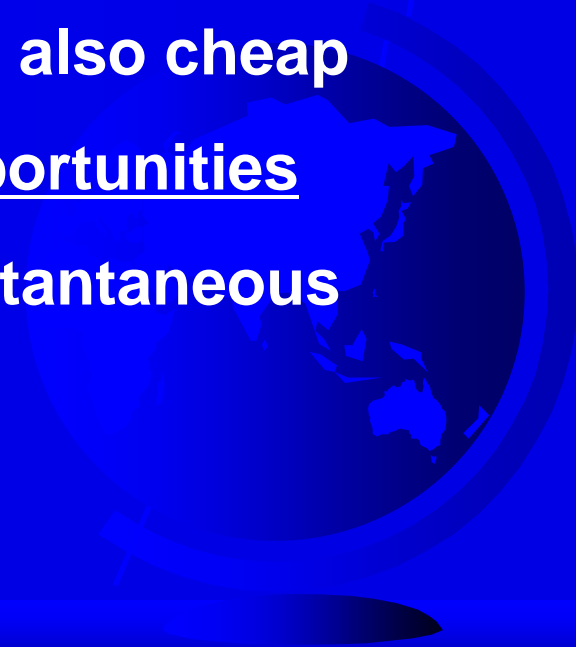
Three stages in the history of international outsourcing

1. It really started with “downstream” processes: distributors, warehousing, product forwarding
 - Customer service call centers may fit here
2. It then moved upstream to business processes
 - Payroll, financials (transaction processing), IT systems administration
3. It is now moving further upstream to strategic activities
 - Product development, some research, joint design, joining in coordinated worldwide market strategy



Outsourcing: a natural result of IT/Internet Revolutions

- ▶ IT Revolution: not only performance but cost
 - Steady reductions in cost-per-bit along with steady increases in microprocessor performance, memory density
- ▶ Internet Revolution: makes integration of multiple data streams possible, and also cheap
- ▶ Great! Opens up new business opportunities
- ▶ Oops! Opens up competition to instantaneous worldwide playing field



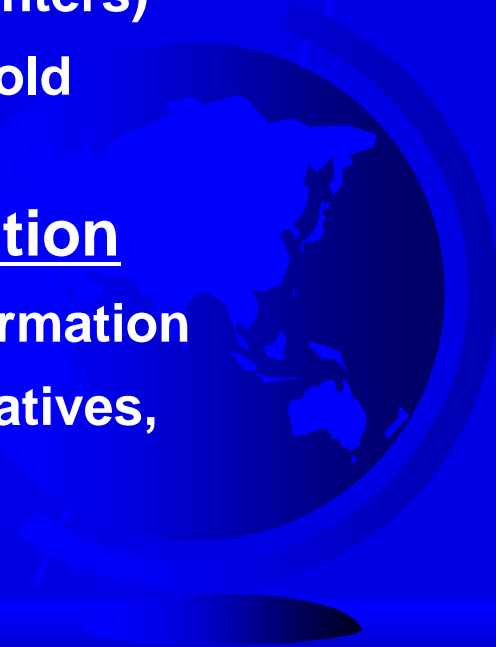
Effects of the I.T. revolution on business

- ▶ I.T. function expands from productivity to mission-critical
 - Productivity: time-to-market, efficient processes
 - Mission critical: smart appliances (I.T. is the value-added), customization of products/services
- ▶ Shift of attention from information processing to knowledge management
 - Processing: data mining, data warehousing
 - Knowledge: market analysis, competitive intelligence, decision support



Effects of the Internet Revolution on the business environment

- ▶ Breaks down barriers of time and place
 - Information is accessible to just about everyone
 - Communication is possible in real time
- ▶ Result 1: Many new business opportunities
 - New markets, industries (e.g. ISPs, data centers)
 - New business models, transformations of old businesses
- ▶ Result 2: Severe increases in competition
 - More competitors, and they have more information
 - Potential customers also have more alternatives, information

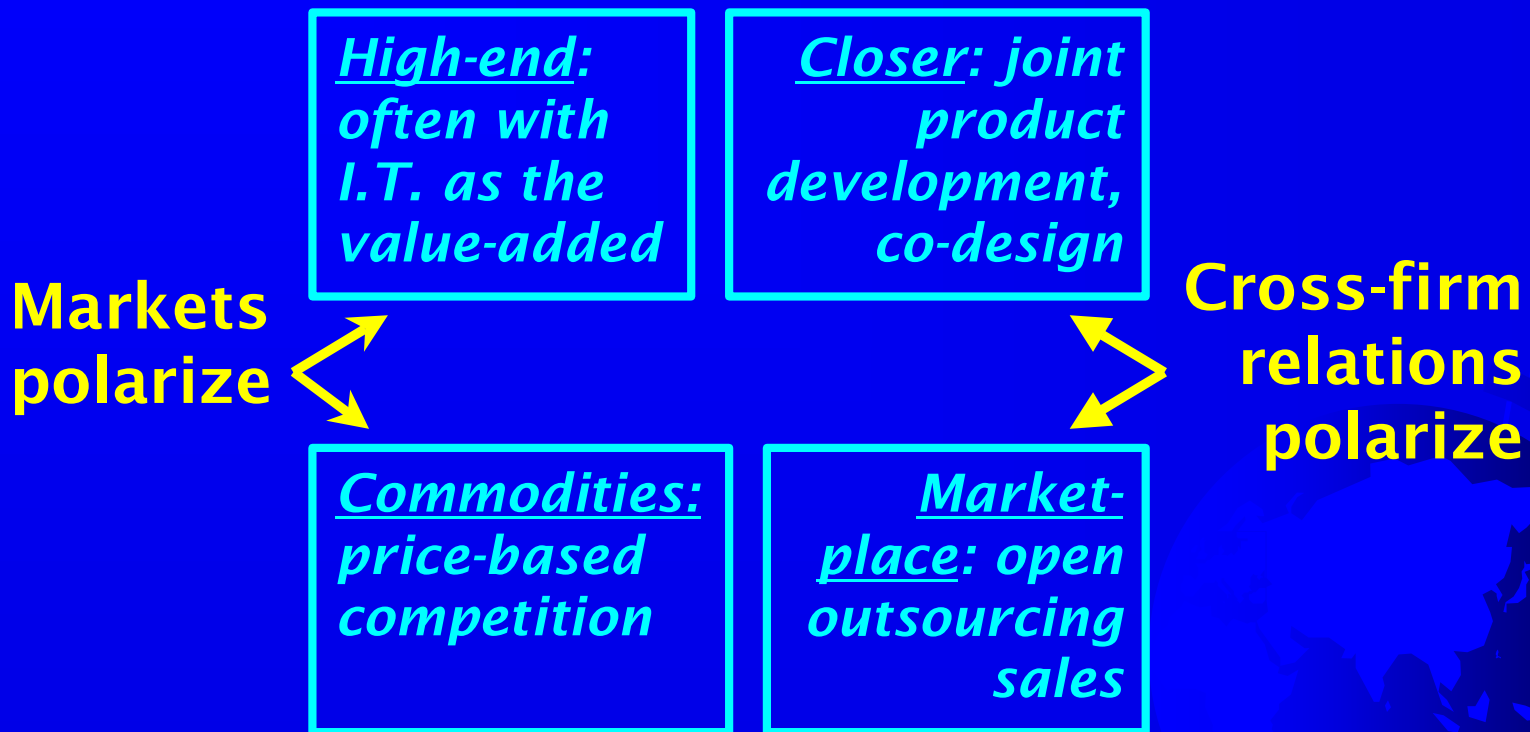


Effects of the Internet Revolution on products/services

- ▶ The Internet encourages technology standardization
 - Exchange of information with partners, customers
 - Parts, practices, even business processes (to “fit” with available software products)
- ▶ The Internet encourages product/service customization
 - Direct relationships with customers, response to their interests become possible
 - Immediate information transfer allows modifications to be quicker, less expensive

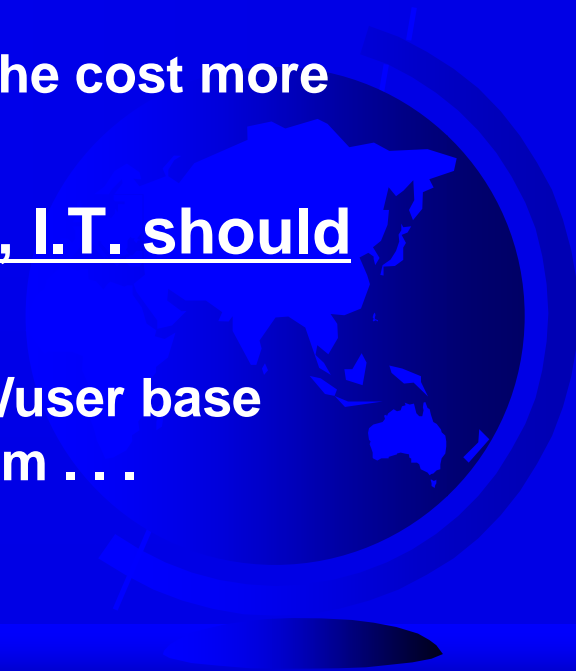


Effects of the Internet Revolution on business relationships



Current business responses to the Internet/I.T. Revolution

- ▶ Shift from product-focus to customer-focus
 - Provide whatever customers want, even if from a different “industry.” E.g.: Yahoo Broadband (Japan)
- ▶ Focus on core competitive processes; outsource others
 - To expert specialist firms who can cut the cost more than if do the processes in-house
- ▶ Controversy about how the Internet, I.T. should affect strategy, planning
 - What are the right goals? Market share/user base versus immediate profit versus long-term . . .



Outsourcing to Asia

- ▶ **Began with large firms some years ago**
- ▶ **Increasing pressures on start-up companies to obtain maximum efficiency in product development**
 - **May come from investors**
 - **Often entrepreneurs seeking competitive advantage from their international contacts, skills**



Why high-tech business in Asia now?

- ▶ Some rapidly growing markets
 - Broadband mobile wireless, etc.
- ▶ Major developments in major markets
 - Opening up of China
 - Positive stance toward getting benefits of foreign management know-how
 - Ramp up to 2008 Olympics
 - Obviously rising standards of living
 - Roll-out of IT and communications infrastructure
 - Gutsy young entrepreneurs & potential partners



Major developments in major Asian markets - (2)

▶ India

- Worldwide recognition of highly gifted engineers, skilled labor
- People-focused approach to business
- Gradual emergence from tight regulatory environment

▶ Both India and China

- Influence of a highly successful diaspora
 - Money, business/management expertise
 - Interest in taking success back home
- Incredible cost advantages for skilled work



Major developments in major Asian markets - (3)

▶ Japan

- Major world economy
 - Bigger than all other economies in Asia combined
- Economic restructuring
 - Making mergers and acquisitions more attractive
- Testbed for more advanced technologies
 - Some technologies further ahead, commercialize earlier than in U.S.

▶ Tigers (Singapore, Korea, Taiwan)

- Heavy use of IT and Internet
- Relatively stable environment for business



General points about doing business overseas



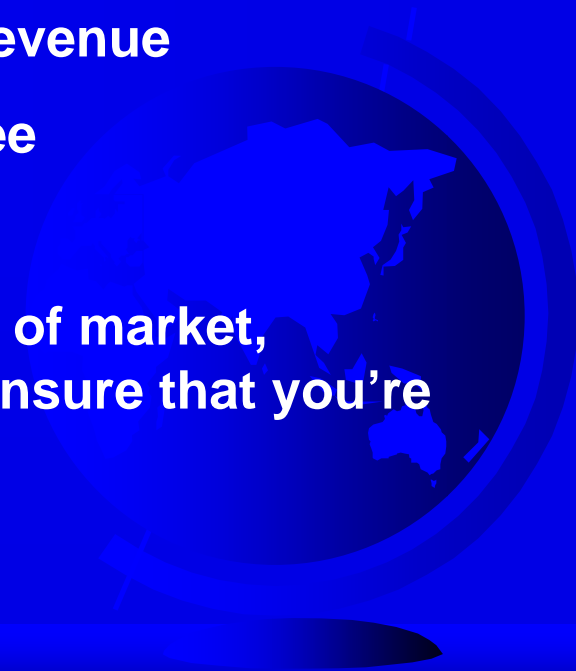
Four channels for being in an overseas market - (1)

1. Sell directly (e.g. by Internet)

- Challenges: currency conversion, customs, customer support, loss of “touch” with market trends

2. License product / technology to a distributor

- Costs less up front, guarantees some revenue
- Requires ongoing monitoring of licensee
- Licensee may become competitor
- You may not have sufficient knowledge of market, business practices, and customers to ensure that you're getting best results



Four channels for being in an overseas market - (2)

3. Set up wholly owned subsidiary

- You get all the revenue
- You make all the investment, take all risks, pay all the costs, including your time and effort (that may be needed in other markets)

4. Set up a joint venture with a local partner

- In some economies, this was the only option for foreign businesses that wanted to get business licenses
- Gain a motivated, expert partner
 - Less likely to become a competitor
- Getting the right partner is the most difficult problem



Some special challenges of international business

▶ IP rights management

- Piracy avoidance and also maximizing value
- Not just a problem with legal systems: problem of enforcement

▶ Product localization

▶ Government regulations

- U.S. export controls
- Foreign government barriers (“tariff” and “nontariff”)

▶ Managing distributed or remote teams

▶ Getting access to the money you make



Topics this series will address

- ▶ The challenges mentioned on previous slide, with special reference to the situation in Asia economies
- ▶ Selected emerging high-growth markets in Asia
 - Mobile wireless communications (10/02)
 - Biotech (10/16)
- ▶ Special presentations on the world's (potentially) largest markets
 - India (10/23)
 - China (12/04)



Administrative issues

- ▶ Everyone is welcome; registration not necessary
- ▶ For-credit Stanford students
 - Read the syllabus!
 - Attend and comment on nine out of the ten sessions
 - 30-60 words for each session
 - One session per email: within two weeks of session date
 - What new thing you learned from the session, or something that impressed you in the session
 - Not a summary, but should provide evidence that you attended or watched the videotape / streaming video (info just from a slide presented in talk is not acceptable)
 - SCPD students exactly same as other students



Administrative Issues - (2)

- ▶ No final write-up paper this quarter!

Contact points:

- ▶ Weekly course comments to course assistant
 - Nishant Verman (nishant@stanford.edu)
- ▶ Questions, problems, other comments to instructor
 - Richard Dasher (rdasher@stanford.edu, 650-725-3621)



Finally, input from you . . .

**What would you especially like
to see addressed in this series?**

