UNIT 2

MARKET FOR INFORMATION GOODS

INFORMATION ECONOMY

Information

 Anything that can be digitized, i.e. encoded as a stream of bits is information

Information good

- Anything that is digitized, and also consumers are willing to pay for it
- Eg. Music, online books, DVD movies
- Information has value to different consumers
 - Entertainment value
 - Business value

FOUNDATIONS OF THE INFORMATION ECONOMY

- 1. Communication
- Technology
- 3. Information

- Communication requires technology to transmit information.
- As that technology progresses, the volume of information communicated can rise
- New technologies arise at a faster rate when information can be communicated to more people at a cheaper price and more quickly.

The Cost of Producing Information

- Information is costly to produce but cheap to reproduce.
 High fixed costs but low marginal costs.
 - The cost of producing the first copy may be substantial, but that of producing additional copies is negligible
- Price information according to its value, not its cost

Managing Intellectual Property

- Intellectual property
 - Any information entity that is a creation of mind and has a monetary value
- Cost is incurred in producing the first copy of that information and hence a suitable price is set to sell it
- Creators of information look to overcome cost incurred
- Threat
 - Cheap reproduction and sales by other parties
- E.g.. EA Sports FIFA games, the cracked versions

- Can be protected through Copyrights, Patent, and Trademark Acts
- When managing Intellectual property, your goal should be
 - To choose the terms and conditions that maximize the value of your intellectual property,
- Not the terms and conditions that maximize the protection

Information as an economic good

 Information properties that would seem to cause difficulties for market transactions.

1) Experience good.

 You must experience an information good before you know what it is.eg. Headline of a news, movie trailer

2) Returns to scale.

 Information typically has a high fixed cost of production but a low marginal cost of reproduction.

3) Public goods

- Information goods are typically non-rival
- Non Exclusive in nature

The Economics of Attention

- Wealth of information creates a poverty of attention Information overload, something disliked by the common people
- Selling attention: Decisions Based on
- Which form of media contains a large pool of audience already
- Customized feeding of information grabs attention
- By gathering better information about what particular customers want, the information provider can design products that are more highly customized and hence more valuabl

Technology

- Infrastructure is to information as a bottle is to wine
- Content providers cannot operate without infrastructure suppliers
- The infrastructure that makes it possible to store, search, retrieve, copy, filter, manipulate, view, transmit, and receive information
- Improved information infrastructure has vastly increased our ability to store, retrieve, sort, filter, and distribute information, thereby greatly enhancing the value of the underlying information itself.

Systems Competition

- Systems show up everywhere in information technology:
 - operating systems
 - applications software,
 - CPUs
 - memory chips
 - disk drives
 - controller cards,
 - video cassette recorders
 - videotapes

Systems Competition

one firm cannot hope to offer all the pieces

 Different components are made by different manufacturers using very different production

 In the information economy, companies selling complementary components, are equally important

Systems Competition

- Firms must focus not only on their competitors but also on their collaborators
- Forming alliances, cultivating partners, and ensuring compatibility

- Microsoft Intel Partnership
 - Microsoft focused almost exclusively on software,
 while Intel focused almost exclusively on hardware.

 They each made numerous strategic alliances and acquisitions that built on their strengths

Lock-In and Switching Costs

- Switching Cost
 - Cost incurred by the consumer while switching from one system to another or from one brand to another for a same purpose
- E.g. from typewriter to computer in an office From NTC ADSL to World Link's Fiber Optics
 - Initially high, but lower in regular operation
- From Windows OS to Linux based OS
 - Initially low, but high in regular operation

 Higher switching cost towards our product and lower switching cost towards competitor's product is unfavorable

» and vice versa

Lock-In

- Tendency to stick to a certain technology or a certain provider of goods/service despite existence of other alternatives
 - E.g. we are locked in to MS-Windows O.S. for desktop computing
 - MS-Office for working with documents
 - Google for search engine
 - YouTube for video browsing online
 - Cassettes and CDs during late 1990s /early 2000s in Nepal

- Reason for lock-in
 - The product still offers better value and familiarity than substitutes

Positive Feedback

- As the Installed base of users grows,
 - More and more users find adoption worthwhile.
 - Eventually, the product achieves critical mass and takes over the market.
 - Eg. Before 1982 use of fax in office were limited but its demand increased from 1985 due to positive feedback

- Prime Example
 - Use and Growth of Internet

Network Externalities

- When the value of a product to one user depends on how many other users there are, economists say that this product exhibits network externalities
- When a network effect is present, the value of a product or service is dependent on the number of others using it
- Challenge
 - To obtain a mass market in the beginning

- Eg. Telephone
 - Value to a user exists if other users of telephone exists
- E.g. Social Network Sites

Standards

- Bringing in a completely new and incompatible technology / product with its own unique specifications
- Involves patent associated with new technology being offered

- Intended to give competition to existing products and even create a completely new market
- E.g. Introduction of CDs

Policy

- Laws imposed by government to promote fair market competition
- Generally policies restricts merger and acquisitions that hamper or restrict competition in the market

 Competition among sellers gives consumers lower prices, higher-quality products and services, more choice, and greater innovation.