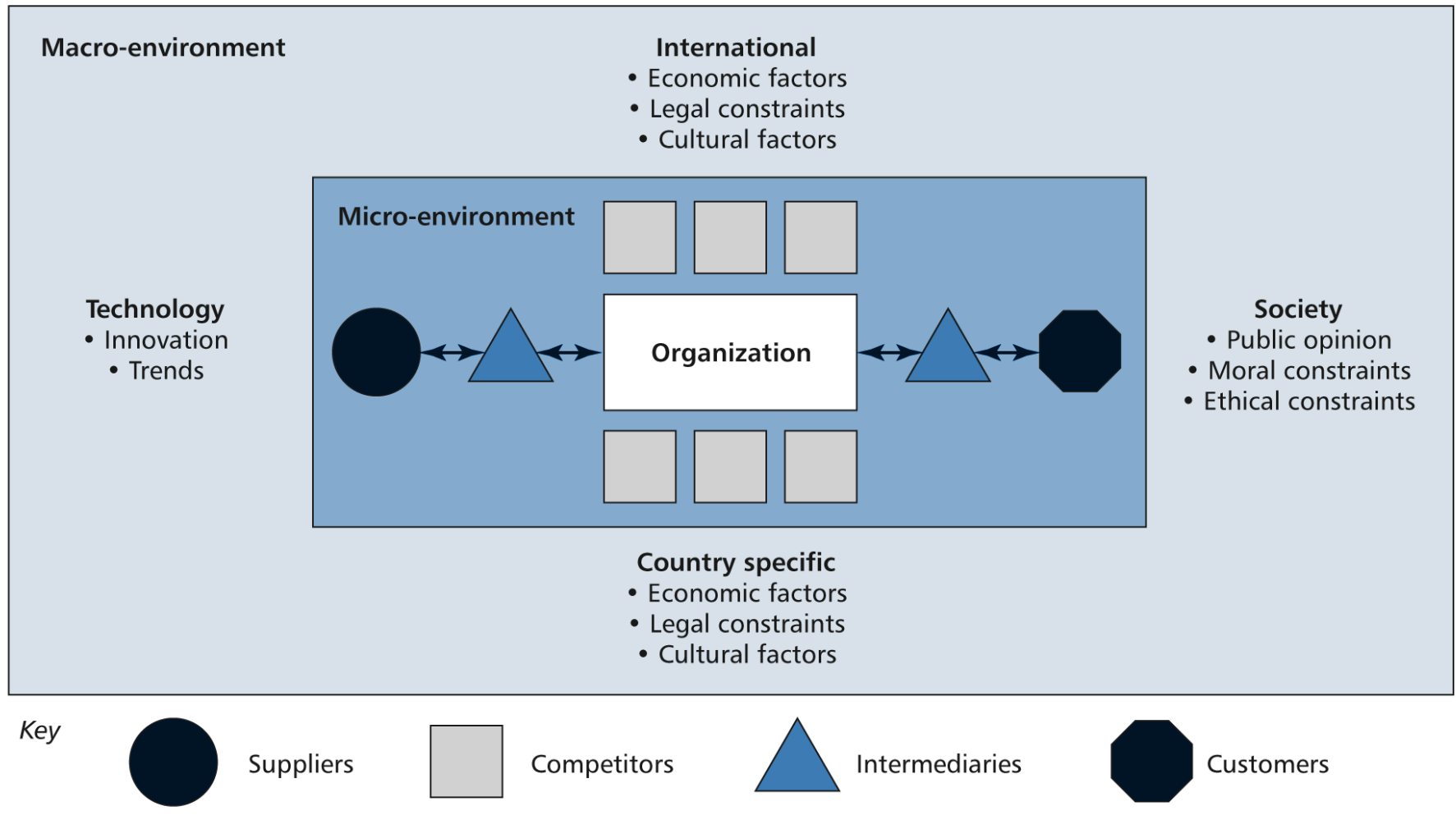




# Chapter 3. Fundamentals of E-Commerce

# The e-business environment



# Micro environment

- **Customers** – which services are they offering via their web site that your organization could support them in?
- **Competitors** – need to be benchmarked in order to review the online services they are offering – do they have a competitive advantage?
- **Intermediaries** – are new or existing intermediaries offering products or services from your competitors while you are not represented?
- **Suppliers** – are suppliers offering different methods of procurement to competitors that give them a competitive advantage?

# Customers

## **1 Community**

Get to know other people, Participate in an online chat, Join a group.

## **2 Entertainment**

Find information to entertain myself.

## **3 Product trial**

Try on the latest fashions, Experience a product, Try out a product.

## **4 Information**

Do research, Get information I need, Search for information I need.

## **5 Transaction**

Make a purchase, Buy things, Purchase a product I've heard about.

## **6 Game**

Play online games, Entertain myself with Internet games, Play online games with individuals from other countries.

## **7 Survey**

Take a survey on a topic I care about, Fill out an online survey, Give my opinion on a survey.

## **8. Downloads**

Download music, , Listen to music, Watch online videos.

## **9 Interaction**

Connect with my friends, Communicate with others, Instant message others I know.

## **10 Search**

Get answers to specific questions, Find information I can trust.

## **11 Exploration**

Find interesting web pages, Explore new sites, Surf for fun.

## **12 News**

Read about current events and news, Read entertainment news

Web advertisers and site owners can use this framework to review the suitability of facilities to meet these needs.



# Macro environment

## 1. Social

-Public opinion , moral constraint, ethical constraints

## 2. County specific

- Economic factors
- Legal constraints
- Cultural factors

## 3. Technological

- innovation
- trends

## 4. International

- Economic factors
- Legal constraints
- Cultural factors

# Macro-environment

- SLEPT Factors
  - Social
  - Legal
  - Economic
  - Political
  - Technological

# SLEPT Framework

- *Social factors* – these include the influence of consumer perceptions in determining usage of the Internet for different activities.
- *Legal and ethical factors* – determine the method by which products can be promoted and sold online. Governments, on behalf of society, seek to safeguard individuals' rights to privacy.
- *Economic factors* – variations in the economic performance in different countries and regions affect spending patterns and international trade.
- *Political* – national governments and transnational organizations have an important role in determining the future adoption and control of the Internet and the rules by which it is governed.
- *Technological factors* – changes in technology offer new opportunities to the way products can be marketed.



# Social

- Demand analysis (part of micro-environment)
  - Have access to the channel.
  - Are influenced by using the channel.
  - Purchase using the channel.

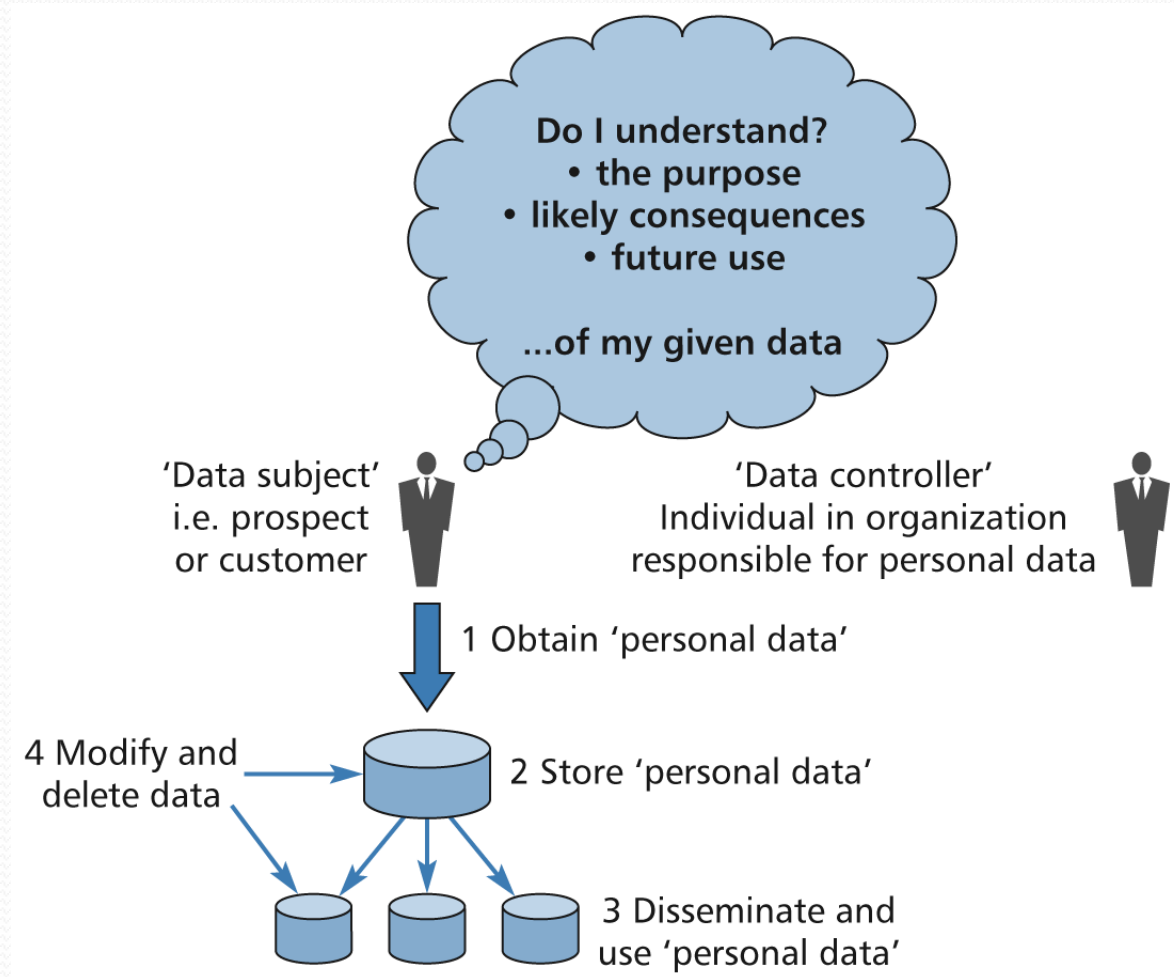
# Legal

1. *Marketing your e-commerce business*
2. *Forming an electronic contract*
3. *Making and accepting payment*
4. *Authenticating contracts concluded over the Internet*
5. *E-mail risks*
6. *Protecting intellectual property*
7. *Advertising on the Internet*
8. *Data protection*

# Ethical issues and data protection

- Ethical issues concerned with personal information ownership have been usefully summarized by Mason (1986) into four areas:
  1. Privacy – what information is held about the individual?  
contact information, profile , behavioral information (on a single site, on multiple sites)
  1. Accuracy – is it correct?
  2. Property – who owns it and how can ownership be transferred?
  3. Accessibility – who is allowed to access this information, and under which conditions?

# Information flows for data protection



**Figure .**Information flows that need to be understood for compliance with data protection legislation

# The eight principles for data protection

- Fairly and lawfully processed;
- processed for limited purposes;
- adequate, relevant and not excessive;
- accurate;
- not kept longer than necessary;
- processed in accordance with the data subject's rights;
- secure;
- not transferred to countries without adequate protection.

# Economic / Political

- Ensuring companies competitive
    - Funding for education and technology  
e.g. <http://www.dst.gov.in/>
    - Promoting new technology
  - Achieving government efficiencies
    - E-government  
<http://incometaxindia.gov.in/OnlineEfilingWebsite.asp>
- <http://www.epfindia.com/>


# Economic / Political

- Ensuring companies competitive
    - Funding for education and technology  
e.g. <http://www.dst.gov.in/>
    - Promoting new technology
  - Achieving government efficiencies
    - E-government  
<http://incometaxindia.gov.in/OnlineEfilingWebsite.asp>
- <http://www.epfindia.com/>

www.epfindia.com

Most Visited Getting Started Customize Links Free Hotmail Windows Marketplace Windows Media Windows

हिन्दी | Home | Site Map | Search



# Employees' Provident Fund Organisation

(A Statutory Body under Ministry of Labour & Employment, Government of India)

Home Recruitment Tenders Auctions International Workers Contact us FAQ Dashboard EPFAT

Meet CPFC  
EPFO Directory  
About us  
Downloads  
Legal / Rule Provisions  
Operational Statistics  
RTI Act 2005  
Citizen's Charter  
NATRSS & ZTIs  
Related sites  
Regional sites  
For EPF Office Use

**FOR EMPLOYEES**


- Member Portal (Download your E-Passbook)
- Know Your claim status
- Know Your EPF Balance
- EPFIGMS (Register your Grievance)
- Establishment search (Also View Remittances & Member Name) [Help - How to Use]
- Locate an EPFO Office
- Know Which Claim Form to Submit
- new** Online Transfer Claim Portal (OTCP)

[more...](#)

**FOR EMPLOYERS**

- Online ECR/Challan Submission
- E-Return Tool [Ver 5.0 - with Annexure-II Facility]
- SBI Branches for EPF Remittances.
- Locate an EPFO office
- EPFIGMS (Register your Grievance)

**Photogallery** [view full gallery]



**Latest News**

Revised Transfer Claim Form launched by Hon'ble Minister of Labour & Employment, Govt of India...[Read News](#)

Attention EPF Members - [Video Clip](#)

www.epfindia.com/Fromhouse/OTCP.html

<http://www.epfindia.com/>



# The E-commerce marketplace

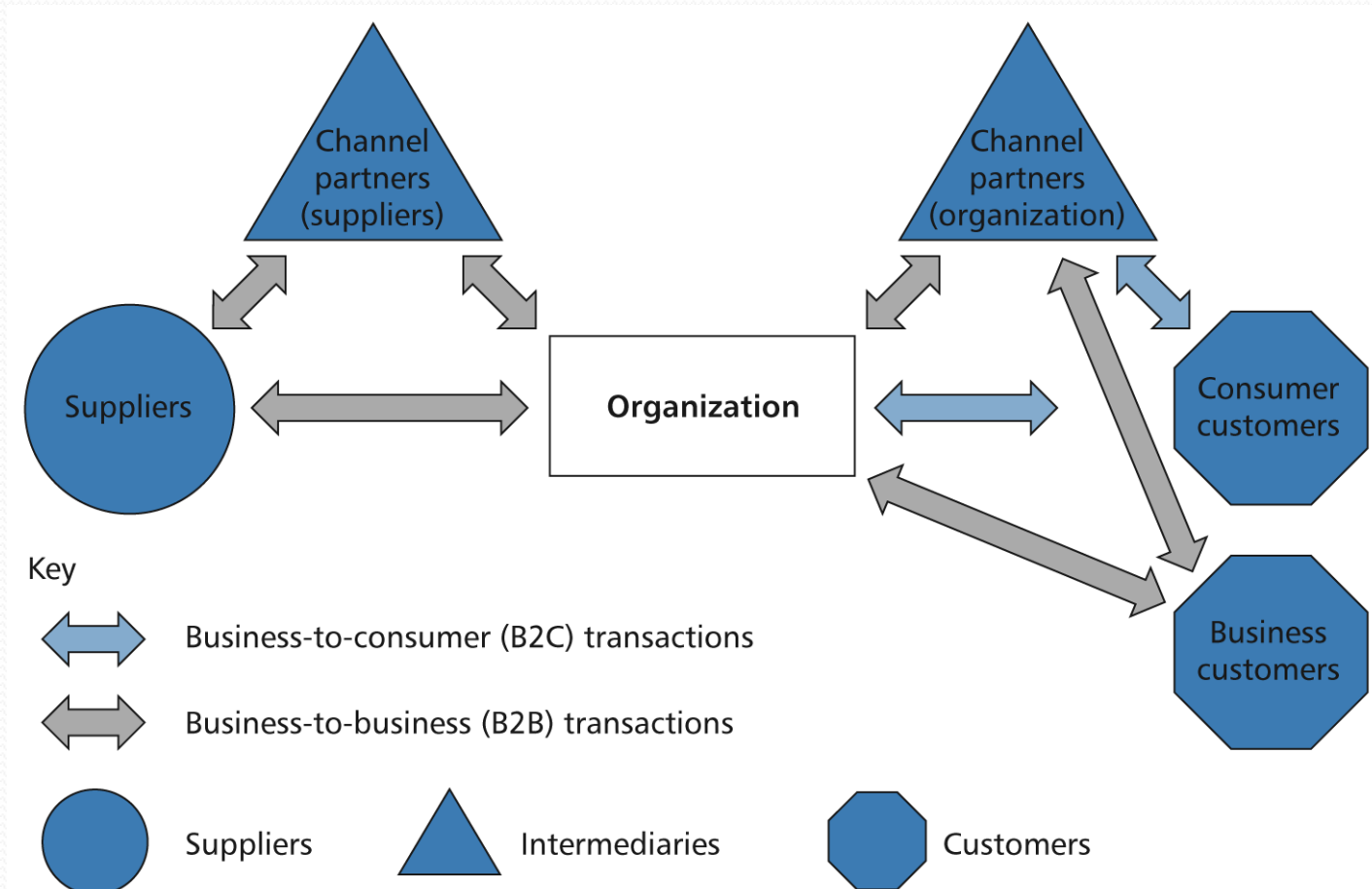



Fig. B2B and B2C interactions between an organization, its suppliers and its customers

# Difference between B2C and B2B

| Characteristic                     | B2C   | B2B   |
|------------------------------------|---|---|
| Proportion of adopters with access | Low to medium   | High to very high   |
| Complexity of buying decisions     | Relatively simple – individual and influencers                            | More complex – buying process involves users, specifiers, buyers, etc.            |
| Channel                            | Relatively simple – direct or from retailer                               | More complex, direct or via wholesaler, agent or distributor                      |
| Purchasing characteristics         | Low value, high volume or high value, low volume. May be high involvement | Similar volume/value. May be high involvement. Repeat orders (rebuys) more common |
| Product characteristic             | Often standardized items  | Standardized items or customised  |

- 
- Intermediary
  - A business whose main source of revenue derives from capturing consumer information and developing detail profiles of individual customers for use by third party

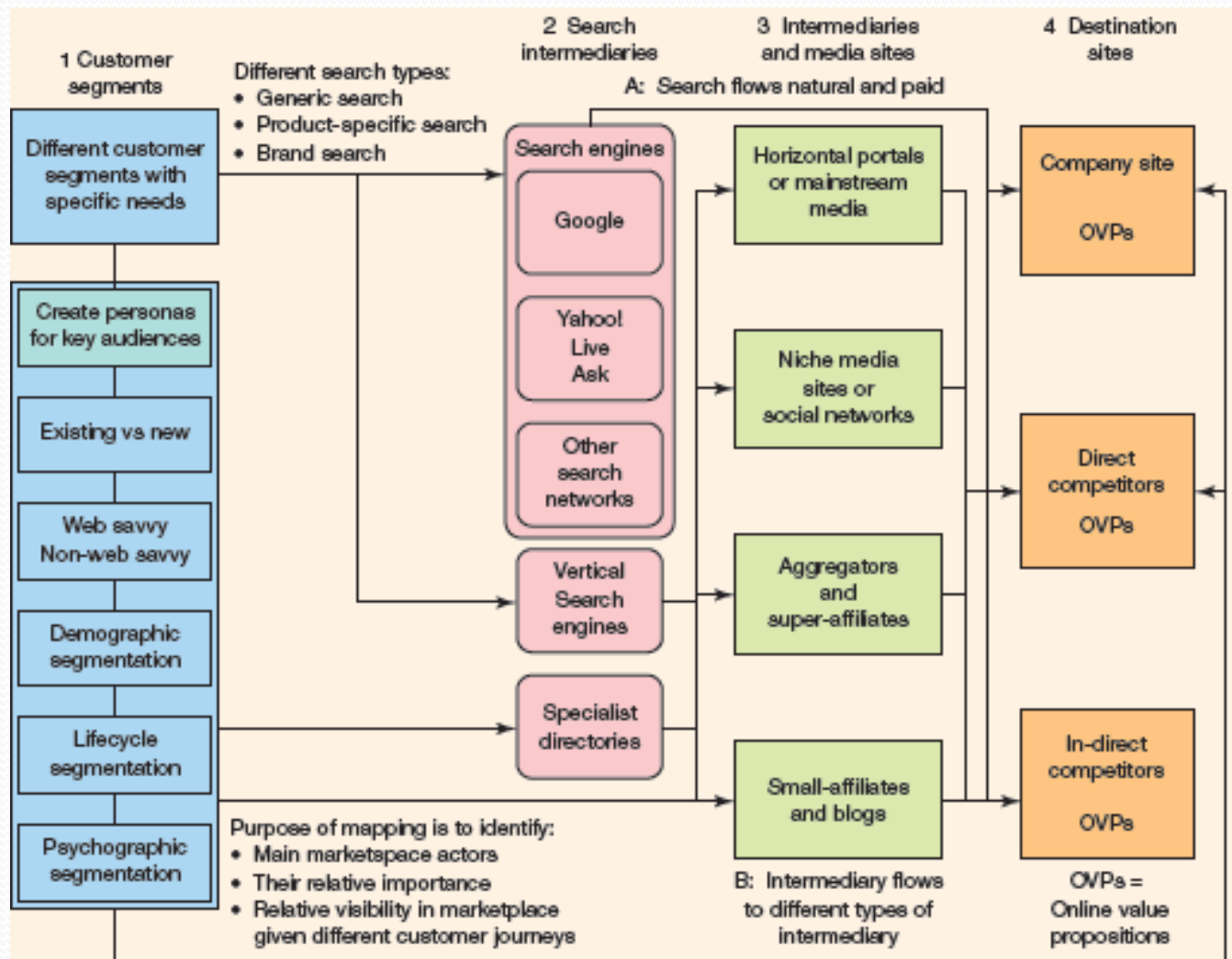


Figure 2.3

An online marketplace map



## **1 Customer segments.**

Buyer behavior and the type of content and experiences they will be looking for from intermediaries and your web site.

## **2 Search intermediaries**

- China (Baidu), Russia (Yandex) and South Korea (Naver)

[网页](#) [新闻](#) [贴吧](#) [知道](#) [音乐](#) [图片](#) [视频](#) [地图](#) [文库](#) [更多»](#)

百度为您找到相关结果约7,470,000个

搜索工具

您可以仅查看：[英文结果](#)[computer](#) [百度翻译](#)

computer 英 [kəm'pjʊ:tə(r)] 美 [kəm'pjutə]

n. 计算机, 电脑 (电子);

[全部释义>>](#)[例句] We could play **computer** games.我们可以玩**电脑**游戏。[更多例句>>](#)复数：[computers](#)[fanyi.baidu.com](#)[Computer](#) [百度百科](#)

计算机 ([computer](#)) 俗称电脑, 是一种用于高速计算的电子计算机器, 可以进行数值计算, 又可以进行逻辑计算, 还具有存储记忆功能。是能够按照程序运行, 自动、高速处理海量数据的现代化智能电子设备。由硬件系统和软件系统所组成, 没有安装任何软件的计算机称为裸机。可分为超级计算机、工业控制计算机、...

[发展历史](#) [机器组成](#) [主要特点](#) [主要分类](#) [应用领域](#) [更多>>](#)[baike.baidu.com/](#)[Computer](#) - Wikipedia, the free encyclopedia

usually "compiled" into machine language (or sometimes into assembly language and then into machine language) using another **comput**

## 英语翻译

[百度翻译](#)简单可依赖  
的翻译专家[有道词典](#)网易出品的  
互联网词典[金山词霸](#)历史悠久的  
翻译软件

## 英语学习助手

[拓词](#)被赞为会上  
瘾的背单词[新东方在线](#)国内领先网  
络教育平台[百词斩](#)有爱英语  
单词大杀器

## 其他人还搜

[最长的英文](#)[单词](#)

指字母最多

[中式英语](#)中国人自创  
出来的新词[经典英文歌](#)[曲](#)

欣赏音乐同

### 3 Intermediaries and media sites

- a. **Mainstream news media sites or portals. Include traditional, e.g. Times of India e.g. Google news, an aggregator.**
- b. **vertical media sites, e.g. Stackoverflow , SpiceNetworks**
- c. **Price comparison sites (also known as aggregators), e.g. carwale.com, smartprix.com**
- d. **Superaffiliates.**

Affiliates gain revenue from a merchant they refer traffic to using a commission-based arrangement based on the proportion of sale or a fixed amount.

- e. **bloggers.** These are often individuals, but they may be important

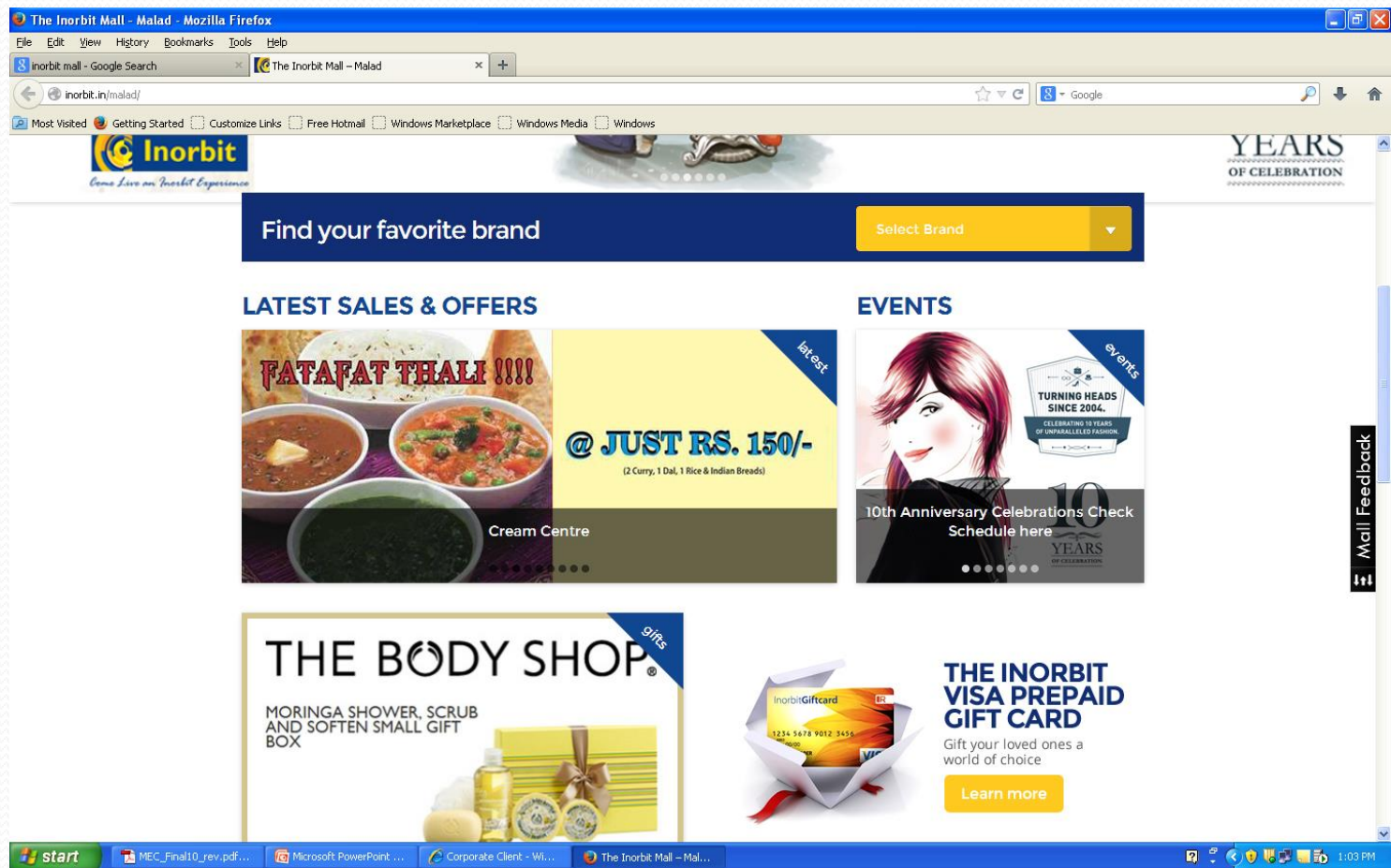
## 4 Destination sites

- These are the sites that the marketer is trying to generate visitors to, whether these are transactional sites, like retailers, financial services or travel companies or manufacturers or brands. E.g. [vipbags.com](http://vipbags.com)



# Different types of online intermediary

- Directories (e.g. yahoo)
- Search engines (e.g. Google)
- Malls (e.g. <http://inorbit.in>)
- Virtual reseller (e.g. flipkart)
- Financial intermediaries (e.g. hdfc)
- Forum (e.g. twitter )
- Evaluator or comparator (e.g. [carewale.com](http://carewale.com))



# Marketplace and channel structures

Disintermediation

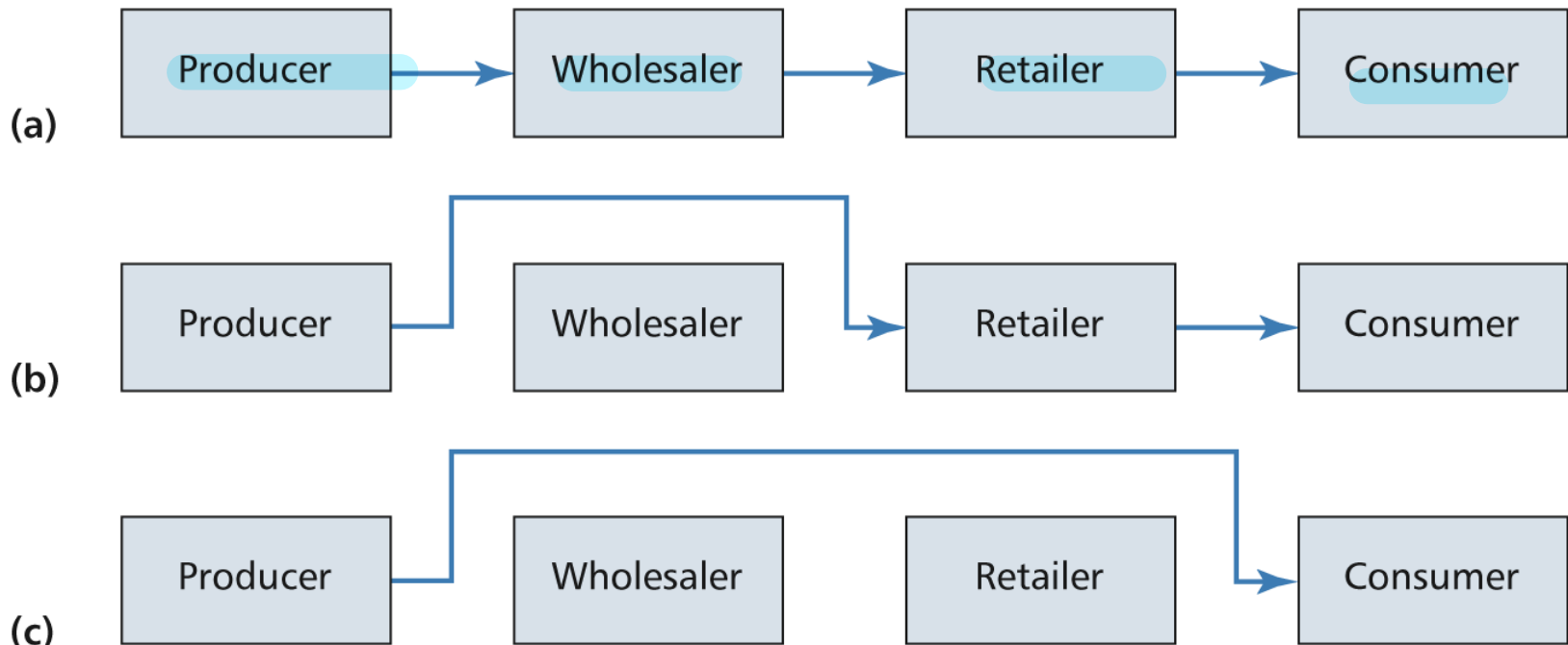
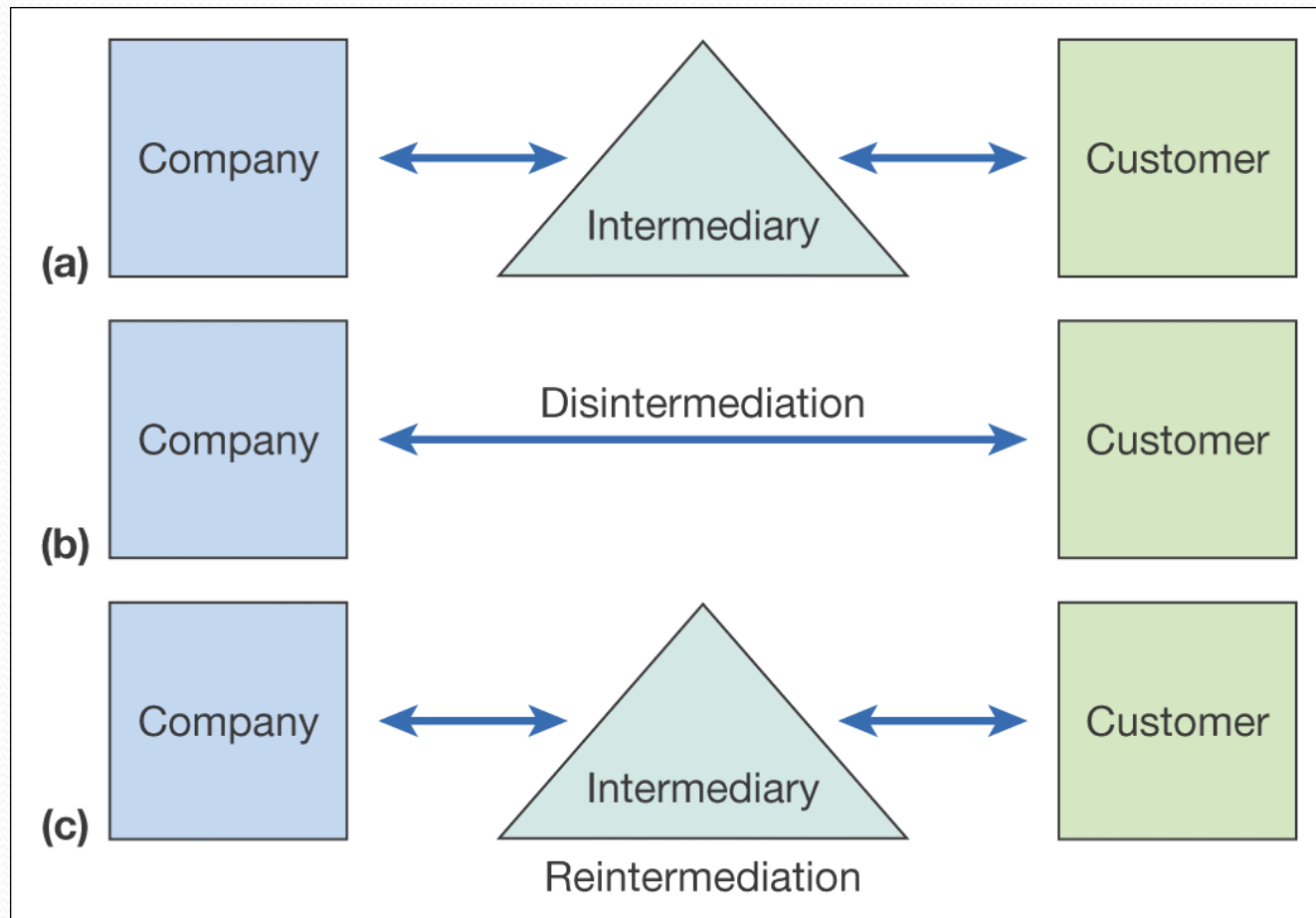


Fig. Disintermediation of a consumer distribution channel showing (a) the original situation, (b) disintermediation omitting the wholesaler, and (c) disintermediation omitting both wholesaler and retailer

# Countermediation


- Creation of a new intermediary by an established company

# Reintermediation



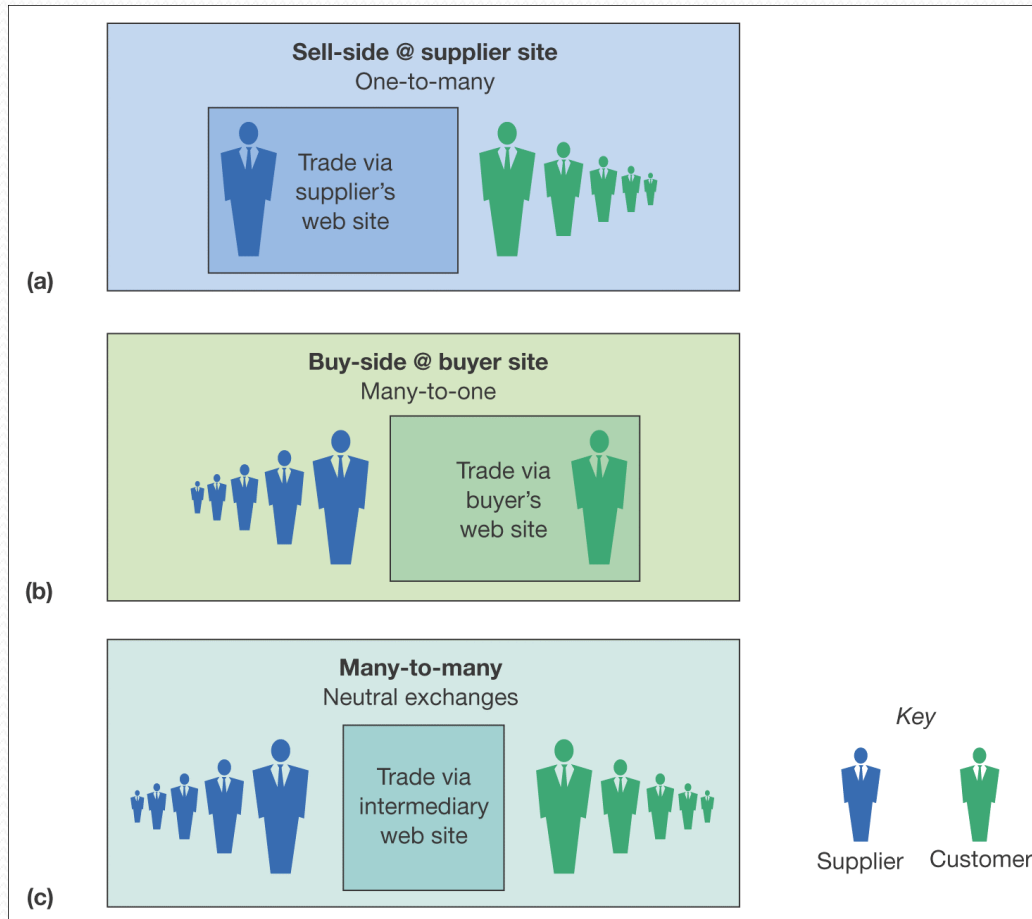
# Types of portals

| Type of portal                             | Characteristics   | Example  |
|--|---|--|
| Access portal                              | Associated with ISP   | Mtnl.net.in  |
| Horizontal or functional portal            | Range of services: search engines, directories, news recruitment, personal information management, shopping, etc. | Yahoo! ( <a href="http://www.yahoo.com">www.yahoo.com</a> )<br>Excite ( <a href="http://www.excite.com">www.excite.com</a> )<br>Lycos ( <a href="http://www.lycos.com">www.lycos.com</a> )   |
| Vertical                                   | May cover a single function<br>e.g.:<br>– news<br>– and industry sector   | Timesofindia.com   |
| Geographical (region, country, local area) | May be:<br>– horizontal<br>– vertical   | googlemaps   |
| Marketplace                                | May be:<br>– horizontal<br>– vertical<br>– geographical   | CommerceOne<br>( <a href="http://www.commerceone.net">www.commerceone.net</a> )<br>PlasticsNet<br>( <a href="http://www.plastics.net">www.plastics.net</a> )   |
| Media type                                 | Voice portal<br><br>Wireless portal<br><br>Streaming media portal   | Verizon VoiceGear<br>( <a href="http://www.voicegear.net">www.voicegear.net</a> )<br>Vodafone Vizzavi<br>( <a href="http://www.vizzavi.com">www.vizzavi.com</a> )<br>Silicon<br>( <a href="http://www.silicon.com">www.silicon.com</a> ) |



| Purchase place    | Description and example   |
|-------------------|---|
| Seller controlled | Vendors own site e.g. <a href="http://www.dell.com">www.dell.com</a>  |
| Seller oriented   | Intermediaries controlled by third parties to the seller such as distributors and agents                              |
| Neutral           | Intermediary not controlled by buyers industry<br>Product specific search engine<br>Comparison sites<br>Auction sites |
| Buyer oriented    | Intermediary controlled by buyers<br>Purchasing agents and aggregators  |
| Buyer controlled  | Web-site procurement posting on company's own site  |

# Location and scale of trading on e-commerce sites





# Types of intermediaries

- Infor-mediaries— intermediaries that capture, profile, and sell customer information
- Metamediaries— intermediaries that assist with selection and discussion of about different product and services; they connects customers with the providers

# Multi-channel Marketplace Model

- Consumers use a combination of channels for their purchases.
- M-Channel Defines how different marketing channels should integrate and support each other

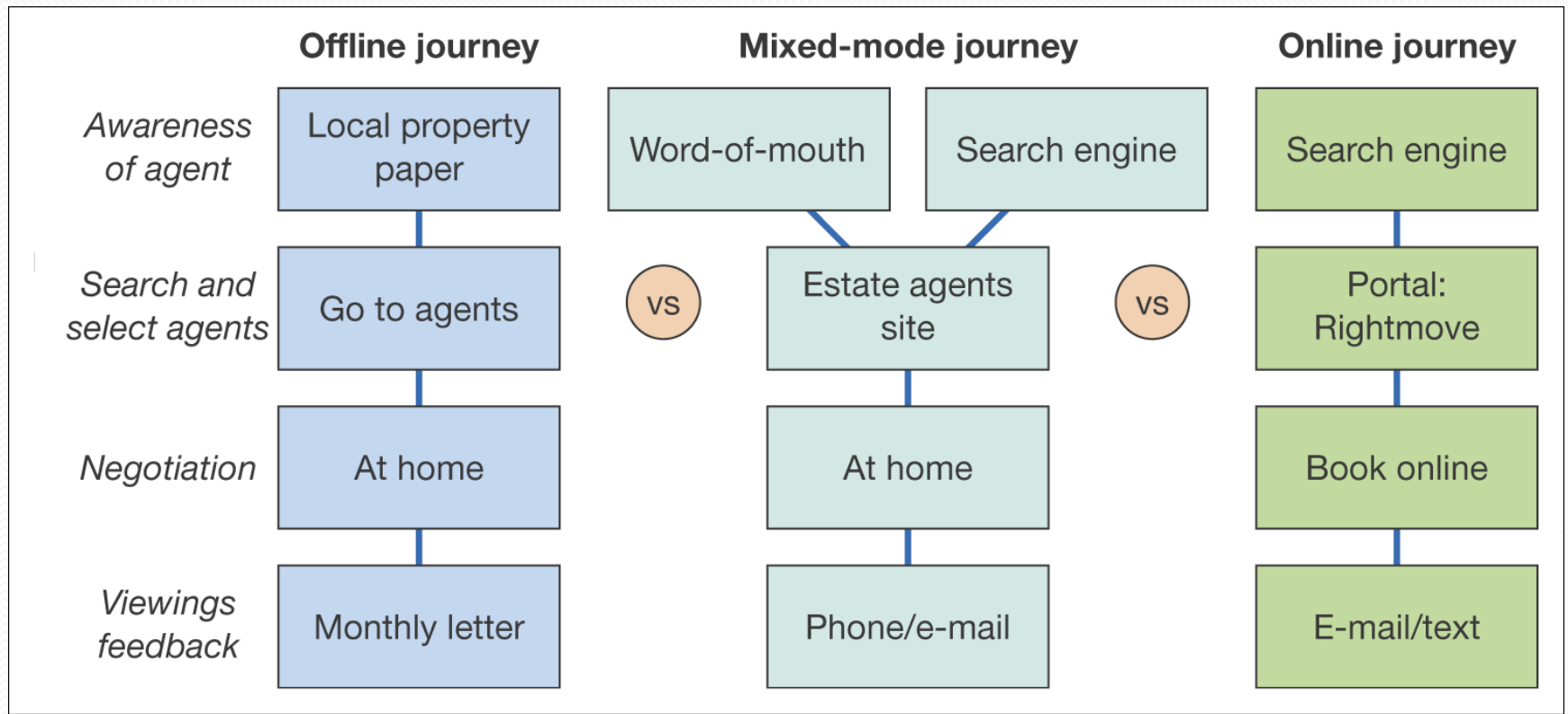


Figure Example channel chain map for consumers selecting an estate agent to sell their property


# Business model

Timmers (1999) defines a 'business model' as:

*An architecture for product, service and information flows, including a description of the various business actors and their roles; and a description of the potential benefits for the various business actors; and a description of the sources of revenue.*

## Key elements

1. *Value proposition-products & services to offer*
  - Which products and or services will the company offer?  
**value proposition** is a promise of **value** to be delivered and acknowledged and a belief from the customer that **value** will be delivered and experienced.
2. *Market or audience*
  - Which audience will the company serve and target with its communications?
3. *Revenue models and cost base*
  - What are the specific revenue models that will generate
  - different income streams? What are the main costs of the business forming its budget?
4. *Competitive environment*
  - Who are the direct and indirect competitors for the service? and which range of business models do they possess?
5. *Value chain and marketing positioning*
  - How is the company and its services positioned
  - in the value chain between customers and suppliers and in comparison with direct and
  - indirect competitors?
6. *Representation in the physical & virtual world*
  - high-street presence, online only, intermediary, mixture?
  - How will the company influence its audience through the buying process through multichannel marketing?
7. *Organizational structure*
  - How will the organization be internally structured to create, deliver and promote its service?
8. *Management*
  - What experience in similar markets and companies do the managers have?
  - What is their profile which can be helpful to attract publicity?

- 
- Timmers identified 11 different types of business models.
  - E-shop
  - E-Procurement
  - E-Malls
  - E-auctions
  - Virtual communities
  - Collaboration platform
  - Third party marketplace
  - Value chain integrator
  - Value chain service provider
  - Information brokerage
  - Trust and other services



## Alternative Perspectives on Business Model

1. Marketplace position perspective
2. Revenue model perspective
3. Commercial arrangement perspective

| 1. Marketplace position  | 2. Revenue model   | 3. Commercial model   |
|--|--|---|
| <div> <div>Manufacturer or primary service provider</div> <div>B</div> </div>      | <div> <div>Direct product sales of product or service</div> <div>B</div> </div>                            | <div> <div>Fixed-price sale</div> <div>B</div> <div>Y</div> <div>A</div> </div> |
| <div> <div>Reseller/retailer (intermediary)</div> <div>Y</div> <div>A</div> </div> | <div> <div>Subscription or rental of service</div> <div>B</div> </div>                                     | <div> <div>Brokered or negotiated deal</div> <div>Y</div> </div>                |
| <div> <div>Marketplace/exchange (intermediary)</div> <div>Y</div> </div>           | <div> <div>Commission-based sales (affiliate, auction, marketplace)</div> <div>Y</div> <div>A</div> </div> | <div> <div>Auction or spot</div> <div>Y</div> </div>                            |
| <div> <div>Media owner or publisher (intermediary)</div> <div>Y</div> </div>       | <div> <div>Advertising (banner ads, sponsorship)</div> <div>Y</div> </div>                                 | <div> <div>Product or service bundling</div> </div>                             |
| <div> <div>Supply chain provider or integrator</div> </div>                        | <div> <div>Sales of syndicated content or services (for media owner)</div> </div>                          | <div> <div>Loyalty-based pricing or promotions</div> </div>                     |
| <div> <div>Not-for-profit organization</div> </div>                                |  |   |

*Key*  
**Y** = Yahoo!  
**A** = Amazon  
**B** = Book publisher

Figure Alternative perspectives on business models



# Revenue model

- It describes how a business generate revenue
- What are traditional ways?
- The New Ways

# Revenue Model- Publisher Example

- Advertising CPM (cost per thousand/mille)
- Advertising CPC (cost per click)
- Sponsorship of section, content, or widget
- Affiliate Revenue (CPA or CPC)
- Transaction Fee
- Subscription access to content or services
- Pay-per-view Access to document
- Subscription Data Access for e-mail Marketing

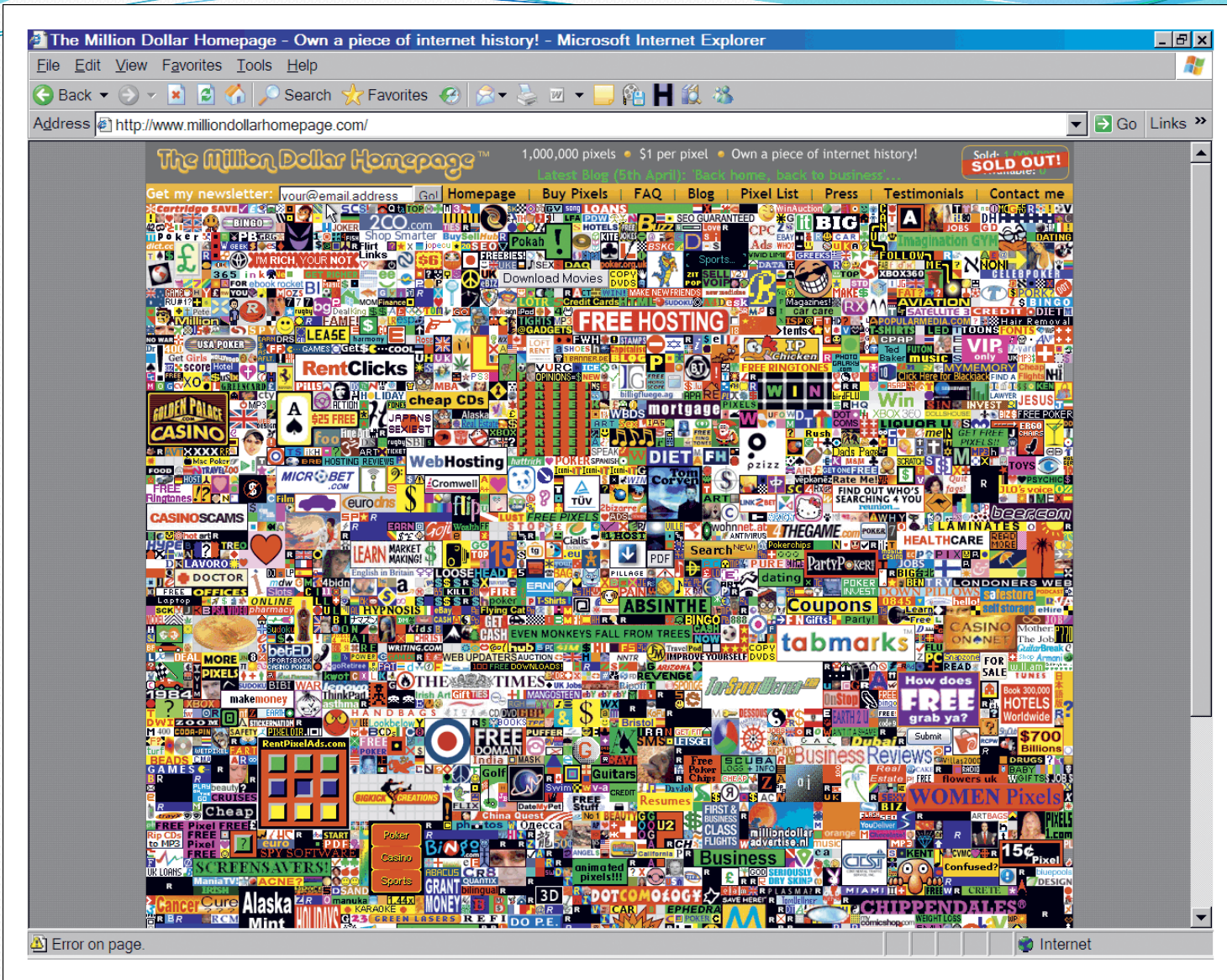


Figure Alex Tew's Million Dollar Home Page (www.milliondollarhomepage.com)

# Revenue model- auction

Roles for auction (Klein 1997)

- Price discovery
- Efficient Allocation mechanism
- Distribution mechanism—attracting audience
- Coordination mechanism



## Types of auction

- English—forward or upward, initiated by seller  
this is more of conventional auctions we commonly seen in physical world and on virtual market
- Dutch—Reverse, downward, initiated by buyer  
This is more commonly seen in large manufacture procurement

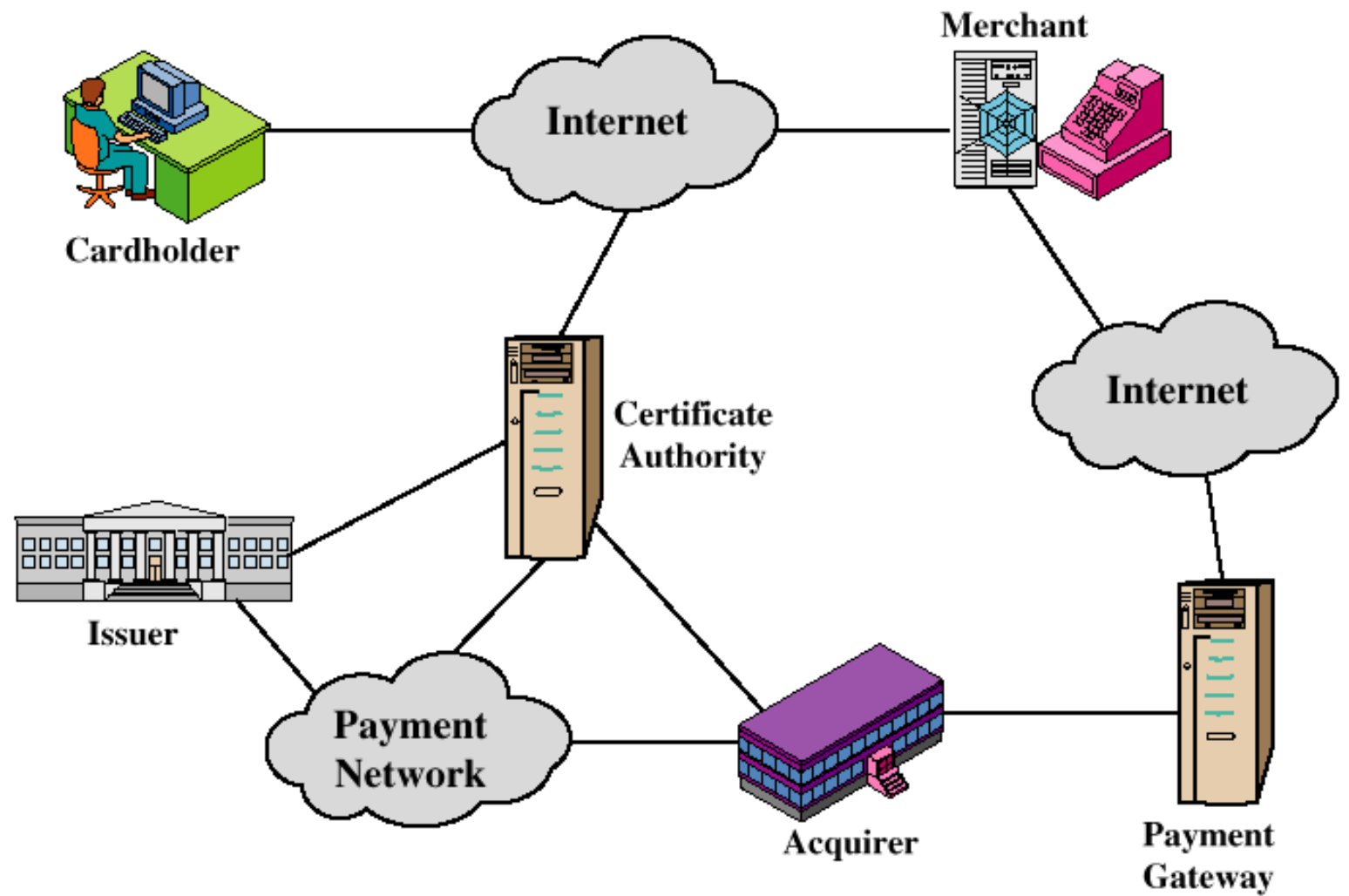
# guidelines for developing e-commerce strategy

- Explore new business and revenue models.
- Perform continuous scanning of the marketplace and respond rapidly.
- Set up partner networks to use the expertise and reputation of specialists.
- Remember that the real world is still important for product promotion and fulfilment.
- Carefully examine the payback and return on investment of new approaches.

- 
- Secure Electronic Transaction



# Participants in the SET System





## SET Transactions

