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Use and Effect of Internet in Saudi Arabia

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Outline

- Introduction
- Internet infrastructure in Saudi Arabia
- Research methodology
- Results of our study
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- Conclusion



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Introduction

- After the introduction of Internet (for public access) in Saudi Arabia (in April 1997), there was a need to conduct a study of its use & effects.
- Similar studies exists for other countries in the Arab world, but this study is first of its kind in Saudi Arabia.
- Objectives of this research is to study and monitor the use of Internet in the country.



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Introduction (contd.)

- The project explores the use of Internet along three major topics:
 - Social use of Internet in society.
 - Implications of Internet technology for education.
 - Business uses of the Internet.
- Other topics also investigated through this study are:
 - Availability & growth of Arabic content on the Internet.
 - Prospects of distance learning in Saudi Arabia.



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Introduction (contd.)

- This study is conducted by obtaining responses from a carefully and scientifically designed web-based online questionnaire, and its analysis. (<u>http://kacst.ccse.kfupm.edu.sa</u>)
- This presentation includes study from data collected and analyzed for a period of one year. (Data collection is to continue for another year.)





Internet infrastructure

- Currently, there are 30 licensed ISP (Internet Service Providers) and 18 educational/other organizations.
- All ISPs are tied to a central node at Internet Services Unit (ISU) that controls access to the Internet.
- Average bandwidth allotted per ISP is 6 Mbps and to educational institutions and others are 2 to 4 Mbps.
- The ISPs use average bandwidth of 3.4 Mbps and other institutions use 90% of their bandwidth.



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Internet Infrastructure (contd.)

- According to a recent estimates reported by King Abdulaziz City for Science and Technology (KACST), there were 275,000 Internet subscribers in the Kingdom of Saudi Arabia as of June 10, 2001.
- According to another study, only 2.6% of population has Internet access.



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Research Methodology

- Survey process:
 - Surveys typically collect three types of information, which are not mutually exclusive: description, behavior, and preference.
- Sampling frame:
 - For our purposes the sampling frame is the population which is divided into three (although overlapping) categories: ordinary users, users directly related to education, and business users.
- Information gathering methodology:
 - Web survey methodology was used due to the nature of the study as the targeted respondents are the Internet users.



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Results of our study

The results obtained are related to: (ORDER)

- Internet users in Saudi Arabia.
- Views about Internet & barriers in using it.
- Social and psychological impact of Internet on the population with privacy and security concerns.
- Views of Saudi Internet users concerning the availability of Arabic language content and search facilities.
- The use of Internet and its prospects for distance learning and business uses.



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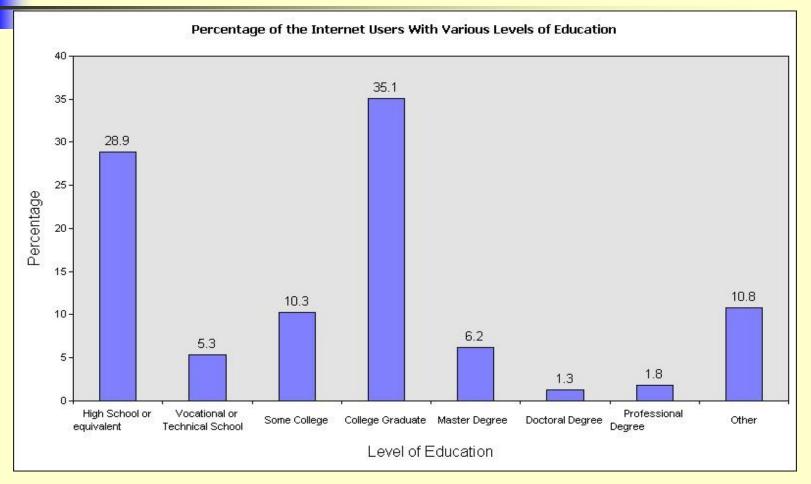
Internet Users

- Almost 80% of the respondents were in the age group of 16 to 35 years.
- Men are more likely to have access to Internet than the women. Almost 80% of the respondents were men.
- Internet users in the Kingdom are concentrated in urban areas. Almost 80% of the respondents live in major cities of the country while little over 4% live in rural areas.
- Majority of the Internet users are college (35%) and high school (29%) graduates. This is due to the fact that the in general majority of the population falls within these two educational levels.



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Internet Users (contd.)





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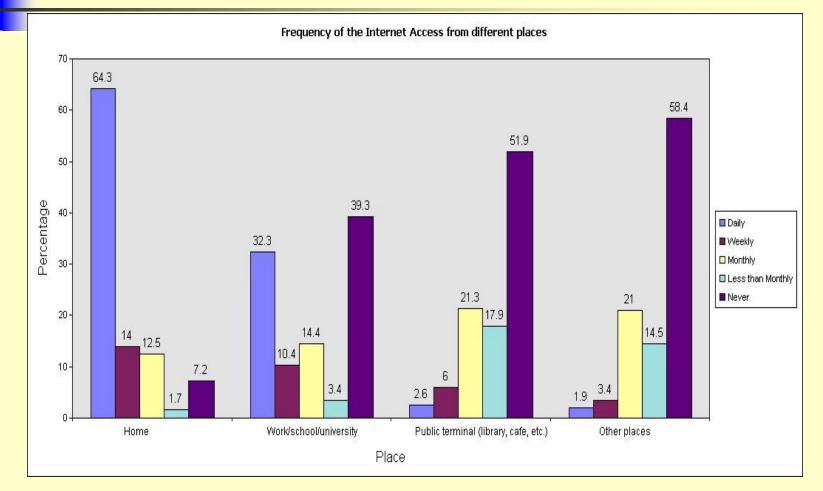
Internet Connection/Access

- When we compare the place from where the Internet is accessed for the daily uses, 64.3% of the respondents' access it from home while 32.3% from their work or educational place.
- Very few *daily* users (2.9%) prefer public Internet facilities like libraries and cafes.
- A large number of occasional users prefer public facilities. For example 21.3% of *monthly* users access it from public places. (CHECK & MEET With Salman)



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Internet Connection (contd.)





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Internet Experience

- Almost two-third respondents have been using the Internet for *less* than 6 years.
- This is approximately the time when the Internet facilities were introduced in the country.

43.5 (37.1+6.4) have been using for over 3 years....

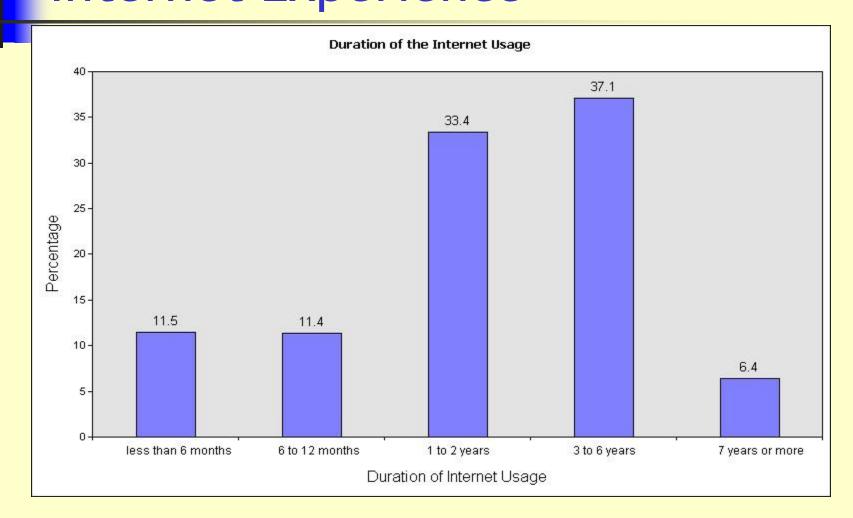


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Internet Experience





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Internet Usage

- Usage of Internet can be characterized in terms of work or for fun.
- The usage of Internet for work is evenly distributed between different time segments per week.
- However, almost 40% of users use the Internet for only 1 to 5 hours per week for fun and entertainment.

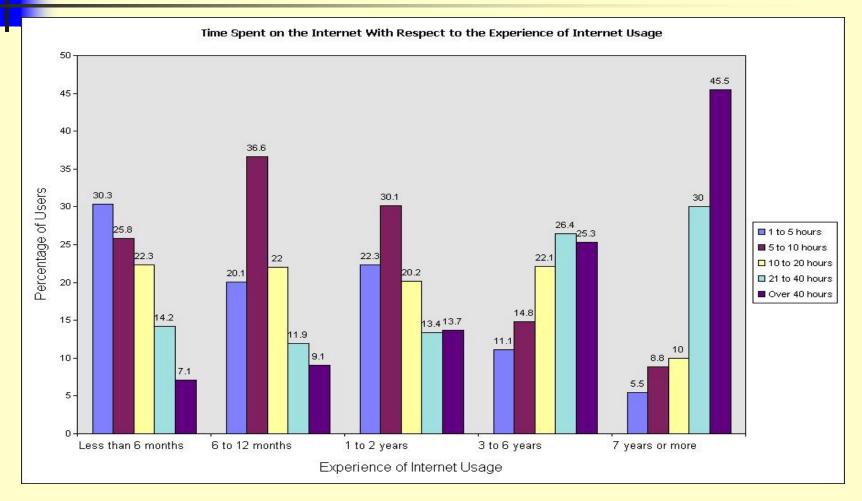


Internet Usage

- More experienced users spend more time for on-line activity.
- This conclusion is drawn by examining the relationship of experience on the usage of Internet for work & for fun.
- This trend with somewhat a smaller scale is also visible for fun related on-line activities (Rephrase..)
- Majority of people use Internet for fun between 1 to 10 hours per week.

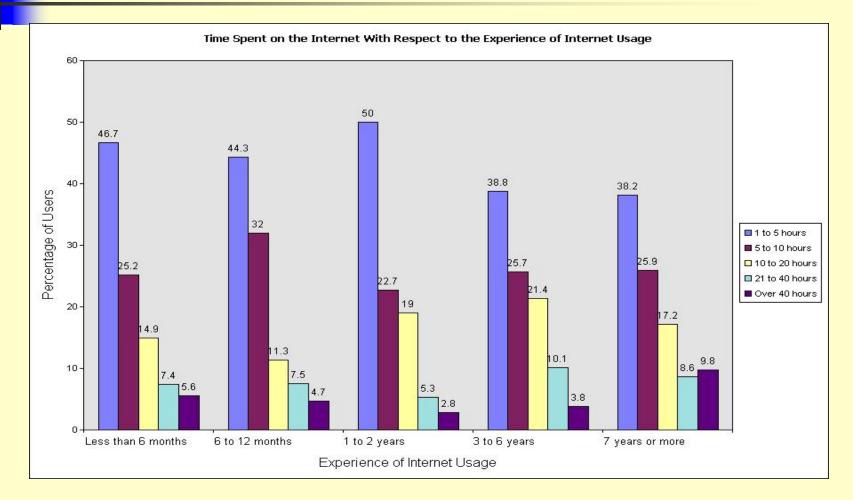


Internet Usage (for work)





Internet Usage (for fun)





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Internet Activities

- In terms of on-line search, majority of the users prefer to search for computer software and hardware information (one).
- On-line chat is the third most sought-after use of the Internet followed by making on-line telephone call and listening to radio broadcast (second).
- In case of multimedia on-line services, streaming audio (47%) and Internet phone (45.4%) are most popular services, followed by Usenet, listserv and discussion forums (41%).



Internet Activities (contd.)

- For on-line information services, accessing news sites is the single most sought after regular activity. Almost 43% of the respondents daily read the news on the web.
- Other Internet related activities such as number of e-mail accounts, search engines used etc.
 - It was found that over three-fourths of the respondents have more than one e-mail account.
 - Web-based access is the most favorite form of e-mail access (41%).
 - Almost two third respondents prefer yahoo as a search engine (65%).



Social & Psychological Impact

- The rapid evolution of any technology naturally raises questions about both its potential benefits and possible negative consequences. This is especially true of the Internet.
- Related issues include:
 - questions about children and access to on-line material,
 - potential on-line threats to personal privacy,
 - the "digital divide",
 - and the effects of the Internet on family involvement and social organizations,
 - gender differences in use and access,
 - security, and the effects of on-line sales on traditional retailing. (REPHRASE)



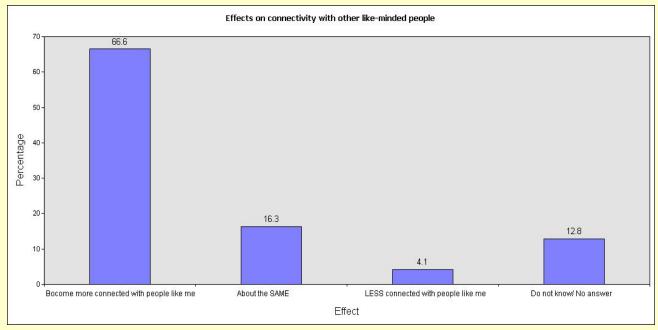
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Effect on connectivity

- It was found that generally Internet is helping people to be more connected to like-minded people. Almost 67% of the respondents agree with this argument.
- Only 4% of the respondents feel otherwise.





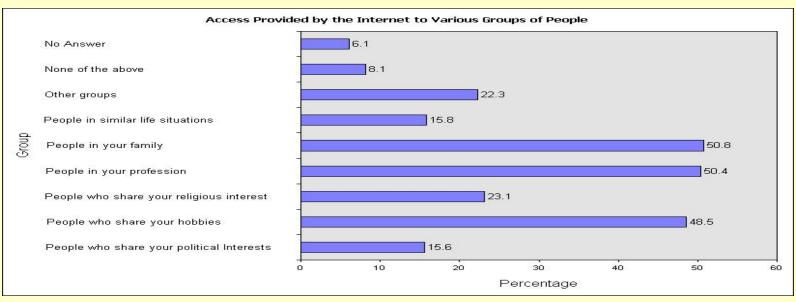
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Access provided to various groups

- A large number of respondents consider that Internet has helped them to be connected to
 - their (1) family members, (2) people with identical professions, and (3) hobbies.



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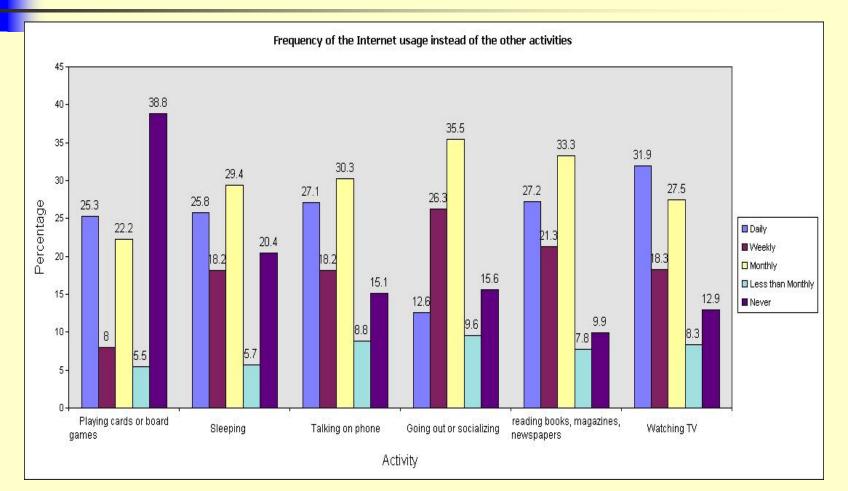
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Internet instead of other activities

- Other social and personal patterns of behavior have been affected. Users sacrifice other activities for the sake of Internet use.
- The most adversely affected daily activities are
 - watching TV (almost 32%) feel they prefer Internet.
 - reading books
 - talking on phone
- Surprisingly a large number of respondents feel that they do not sacrifice playing cards (38.8%)!



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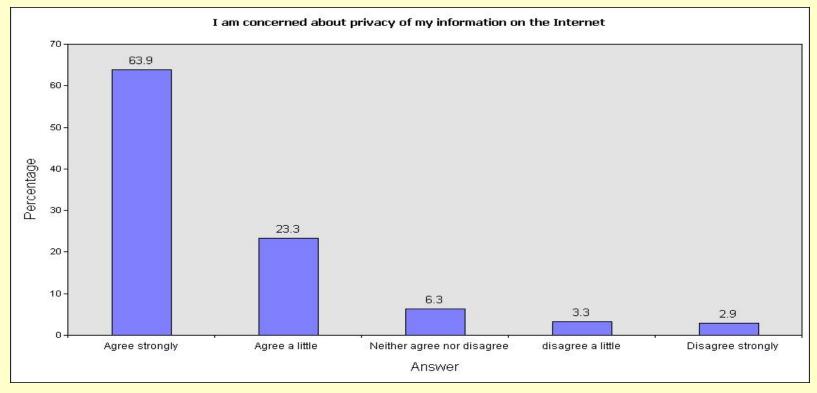
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Concern of privacy of information

- Majority strongly agree about privacy of their information.
- 2/3 want to hide their identity while visiting web sites.





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Arabic language content/search

- Majority of the respondents (45%) prefer Arabic language for Internet and use Arabic e-mail.
- A sizeable number (40%) of native Arabic speakers prefer English because majority of them find what they seek.
- The lack of Arabic content and few Arabic language sites are major factors for users not to use Arabic language sites.
- On the Arabic language sites, it was found that Arabic e-mail access was the most preferred activity (51%) followed by access to the religious information (44%) and discussion forums (37%).
- A sizable number of respondents also use Arabic sites for chatting with family or friends (36%) and access to Arabic language portals (29%).

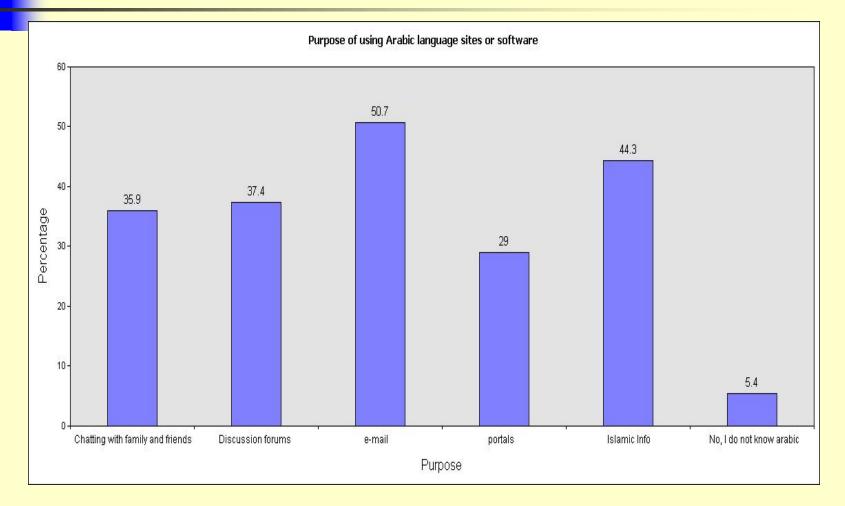


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Arabic language sites used for...





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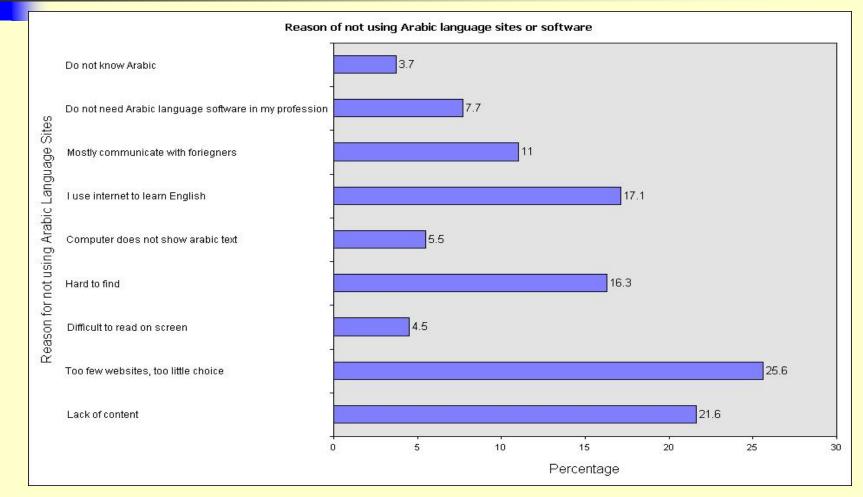
Reasons for not using Arabic sites

- The scarcity of Arabic websites (26%) and lack of content (21%) are the 2 major factors for not using Arabic sites.
- Another factor is the difficulty to find Arabic sites.
- A large number of users are using Internet to improve their English therefore they prefer English sites in place of Arabic (17%).
- To a lesser extent, hardware/software limitations to display Arabic (6%) and in human readable form (5%) are also factors.



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Reasons for not using Arabic sites



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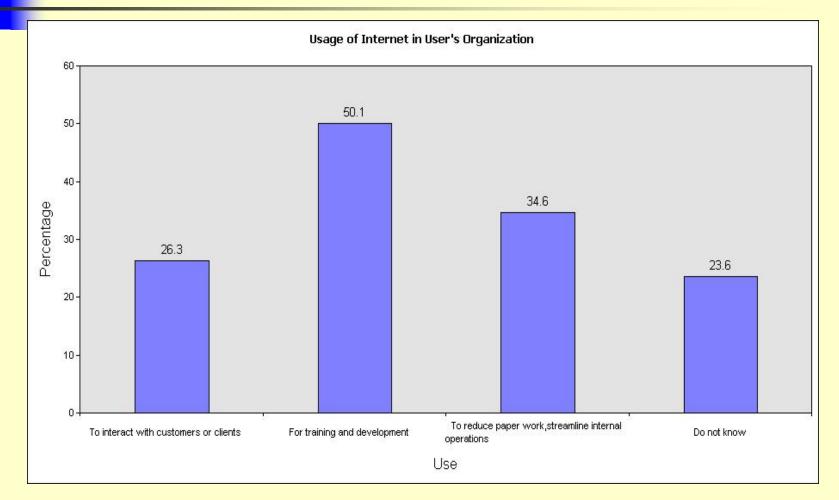
Usage of Internet in Organizations

- Almost half of the respondents say that their organization is using Internet for training & development.
- A sizeable portion (37%) claim that it is being used to for automation in the organization, reduces paper work and helps in streamlining operations.
- A quarter of the respondents say that Internet is used for communicating with the clients.
- These results indicate a promising future for use of Internet technologies in local businesses.



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Usage of Internet in Organizations





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Reasons for not shopping on-line

- Most of respondents agree that eCommerce will make life easier.
- If purchase is done via the Internet, determining factor for that would be lowest price (check the graph and resolve the contradiction with next slide).
- A large segment of the respondents are not doing Internet shopping (40%). This is due to the lack of eCommerce infrastructure in the country. (eReadiness)
- Only 30% of the respondents feel that security of their sensitive information is most important while shopping on the net. This may be attributed to the lack of knowledge among the Internet users of possible potential threats that may originate due to compromise of sensitive information (Rephrase).



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Internet shopping features

- For net shoppers in Saudi Arabia, many features are important while doing shopping. These features are (in order of importance):
 - lowest price
 - easy order placement and payment procedures
 - security of information
 - variety of choice
 - quality of information
 - customer service and after-sale support etc
- Surprisingly Internet vendor reliability is not considered as a very important aspect (17%).



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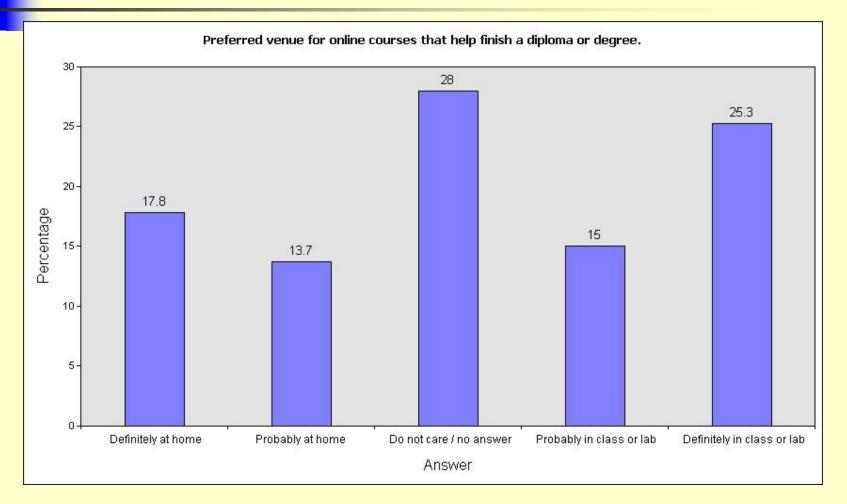
Internet & Education

- Majority of the respondents prefer not to take courses on the Internet (%age).
- The major reason being that on-line courses are not considered equivalent to regular courses in the country.
- The other reason is the non-interaction with other students and faculty.
- As for the venue: almost 40% of the respondents either definitely or probably prefer taking the course in a class.
- Around 32% of the respondents prefer otherwise i.e., definitely or probably the venue to be home.



ed venue of attending a

class





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Reasons to take online courses

- Of those who prefer on-line education, the most compelling reason was that the users like computers. Almost 41% of the respondents have this opinion.
- The other reasons (in order of importance) are:
 - learning from own home/own place
 - fun or experience
 - promotion
 - non-availability of course in school
 - and to get higher degree



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Interests of users

- Of those who would like on-line education, users are interested to:
 - upgrade their skills (40%),
 - special training courses for jobs (31%) and
 - to obtain a University degree (23%).
- On the other hand they are not at all interested for high school (43%), home schooling whether schools are available (35%) or not (33%).



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Conclusion

- In this talk, we presented some initial findings of a study on the 'Use and Effect of Internet in Saudi Arabia'. This study covers three major areas where Internet is influencing the Saudi society. These areas are
 - social,
 - education and
 - business.
- Other areas included Arabic content & prospects of distance learning.



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