THE EFFECTIVENESS OF ONLINE HR SYSTEM IN THE RECRUITMENT & SELECTION OF GOVERNMENT STAFF IN KOTA KINABALU

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IJAZAH: Sarjana Pengurusan Modal Manusia (MHCM)

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DECLARATION

The materials in this dissertation are original except for quotations, excerpts, summaries and references which have been duly acknowledge.

Mohd. Hafez Azhar B. Ag. Ismail
PE20068177
3rd July 2007
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May Allah bless all of us, Insya-Allah.

Wassalam.
ABSTRACT

The theory and research on the effectiveness of Online HR System especially in recruitment and selection tends to be dominated by the empirical research, which every work done have give a different result. Hopefully, this writing will be able to give the clear picture to the technology human resource planning and development researcher about the advantages of using the technology in organizations. This research has related the ‘HR System’ criteria which are the ‘Online-Job Application’ and the ‘Online-Job Advertisement’ with its effectiveness towards its users. The utilization of the system would probably increase the chances of selecting for the potential job candidates for the government sector and might also satisfied the HR System implementation itself. The focus would be on Suruhanjaya Perkhidmatan Awam Negeri Sabah (SPANS) which conducts all the process of recruiting and selecting for the new Government staffs in Kota Kinabalu. Through this study design, we will see the results of the hypotheses testing which involved the relationship between those two variables; Independent Variables’ and ‘Dependent Variable’. The results might be the positive or the negative relationship or at least has a significant effect. It will be based on the respondent’s feedbacks (from the SPANS staffs and manager, Jabatan Kesihatan, Jabatan Penerangan, Jabatan Pendaftaran and Jabatan Pengangkutan Jalan) which are collected through the survey questionnaires.
ABSTRAK

KEBERKESANAN SISTEM SUMBER MANUSIA (HR SYSTEM) SECARA ONLINE DALAM PROSES MEREKRUT DAN MEMILIH KAKITANGAN KERAJAAN YANG BARU DI KOTA KINABALU

# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Declaration</td>
<td>i</td>
</tr>
<tr>
<td>Acknowledgement</td>
<td>ii</td>
</tr>
<tr>
<td>Abstract</td>
<td>iii</td>
</tr>
<tr>
<td>Abstrak</td>
<td>iv</td>
</tr>
<tr>
<td>List of Figures</td>
<td>v</td>
</tr>
<tr>
<td>List of Tables</td>
<td>vi</td>
</tr>
</tbody>
</table>

## CHAPTER 1: INTRODUCTION

1.1 Overview

1.2 Problem Statement

1.3 Objectives of Study

1.4 Significant of Study

1.5 Key Variables

1.5.1 Online-Job Application Form

1.5.2 Online-Job Advertisement

1.5.3 Online HR System

1.5.4 Potential Job Candidates

1.6 Organization of Thesis

## CHAPTER 2: LITERATURE REVIEW

2.1 Introduction

2.2 Definition of Key Concepts

2.2.1 Online-Job Application Form

2.2.2 Online-Job Advertisement

2.2.3 Online HR System

2.2.4 Potential Job Candidates

2.3 Research Theory

2.3.1 Demand for ICT among the Sectors in Malaysia

2.3.2 Information Technology (IT) in Southeast Asian Human Capital Growth

2.3.3 Job Search through an Internet
### CHAPTER 3: RESEARCH METHODOLOGY AND FRAMEWORK

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Introduction</td>
<td>19</td>
</tr>
<tr>
<td>3.2</td>
<td>Research Framework and Research Theoretical Framework</td>
<td>19</td>
</tr>
<tr>
<td>3.2.1</td>
<td>Dependent Variables</td>
<td>20</td>
</tr>
<tr>
<td>3.2.2</td>
<td>Independent Variables</td>
<td>20</td>
</tr>
<tr>
<td>3.3</td>
<td>Research Hypotheses</td>
<td>21</td>
</tr>
<tr>
<td>3.4</td>
<td>Research Design</td>
<td>21</td>
</tr>
<tr>
<td>3.5</td>
<td>Sampling Design</td>
<td>22</td>
</tr>
<tr>
<td>3.5.1</td>
<td>Sampling Technique</td>
<td>23</td>
</tr>
<tr>
<td>3.6</td>
<td>Instruments Design</td>
<td>24</td>
</tr>
<tr>
<td>3.6.1</td>
<td>Questionnaire Structures and Design</td>
<td>24</td>
</tr>
<tr>
<td>3.6.2</td>
<td>Measurement Scales</td>
<td>25</td>
</tr>
<tr>
<td>3.7</td>
<td>Data Collection Methods</td>
<td>25</td>
</tr>
<tr>
<td>3.7.1</td>
<td>Survey Questionnaire</td>
<td>25</td>
</tr>
<tr>
<td>3.8</td>
<td>Data Analysis Methods</td>
<td>25</td>
</tr>
<tr>
<td>3.8.1</td>
<td>Feel for Data</td>
<td>25</td>
</tr>
<tr>
<td>3.8.2</td>
<td>Testing the Goodness of Data</td>
<td>26</td>
</tr>
<tr>
<td>3.8.3</td>
<td>Hypotheses Testing</td>
<td>26</td>
</tr>
<tr>
<td>3.9</td>
<td>Summary</td>
<td>26</td>
</tr>
</tbody>
</table>

### CHAPTER 4: ANALYSIS OF RESULTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Introduction</td>
<td>27</td>
</tr>
<tr>
<td>4.2</td>
<td>Profile of Respondents</td>
<td>27</td>
</tr>
<tr>
<td>4.3</td>
<td>Reliability Test Analysis</td>
<td>28</td>
</tr>
<tr>
<td>4.4</td>
<td>Descriptive Analysis of Variables</td>
<td>29</td>
</tr>
<tr>
<td>4.5</td>
<td>Hypothesis Testing</td>
<td>30</td>
</tr>
<tr>
<td>4.5.1</td>
<td>Hypothesis testing on Independent Variables and Online HR System Satisfaction</td>
<td>30</td>
</tr>
<tr>
<td>4.5.2</td>
<td>Hypothesis testing on Independent Variables and the Potential Job Candidates</td>
<td>32</td>
</tr>
<tr>
<td>4.6</td>
<td>Summary of Findings</td>
<td>33</td>
</tr>
</tbody>
</table>
# CHAPTER 5: DISCUSSION AND CONCLUSION

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1 Introduction</td>
<td>35</td>
</tr>
<tr>
<td>5.2 Recapitulation</td>
<td>35</td>
</tr>
<tr>
<td>5.3 Discussion and Implication</td>
<td>36</td>
</tr>
<tr>
<td>5.4 Recommendation</td>
<td>37</td>
</tr>
<tr>
<td>5.5 Limitations of Study</td>
<td>38</td>
</tr>
<tr>
<td>5.6 Suggestion for Future Research</td>
<td>38</td>
</tr>
<tr>
<td>5.7 Conclusion</td>
<td>39</td>
</tr>
</tbody>
</table>

Appendices A: 47
Appendices B: 51
LIST OF FIGURES

Figure 2.1 Tertiary Education Enrolment in ASEAN, 1980 and 1996. 10
Figure 2.2 Linkages between Strategy, Outcomes and Organization Results. 12
Figure 2.3 Job Advertisement Medium used by most Organizations for Recruiting Managers. 16
Figure 3.3 Research Theoretical Framework. 19
Figure 3.2 Questionnaire Structure and Details. 24
Figure 3.3 Likert 5 Points Rating Scale. 25
LIST OF TABLES

Table 2.1 ICT Expenditure by Sector 1995 and 2000 (Selected Sectors only) 11
Table 2.2 IT and Telecommunication Indicators of Selected Economies. 13
Table 2.3 Internet Users in Asia (2000-2002) 15
Table 3.1 Proportionate and Disproportionate Stratified Random Sampling. 23
Table 4.1 The Distribution of Respondents According to the Different Organizations 27
Table 4.2 The Proportion of the Respondents According to the Organizations 28
Table 4.3 Cronbach's Alpha for Variables 28
Table 4.4 Descriptive Statistics of the Variables 29
Table 4.5 Multiple Regression Analysis results on Independent Variables (for HR System Satisfaction) 31
Table 4.6 Multiple Regression Analysis results on Independent Variables (for Potential Job Candidates) 32
Table 4.7 Summary of Findings 34
CHAPTER 1

INTRODUCTION

1.1 Overview

Utilization of Information System (IS) Network in an organization was an effort to move towards globalization. It is a computer-based system also known as the Information Technology (IT). The purpose is to make the job in the office faster, easier and more efficient. However, the effort is not a total movement or changes made by the organization. This study focuses on utilizing the online system in the recruitment and selection of Government staffs by the Suruhanjaya Perkhidmatan Awam Negeri Sabah (SPANS), which involved the Jabatan Penerangan, Jabatan Kesihatan, Jabatan Pendaftaran and Jabatan Pengangkutan Jalan in Kota Kinabalu.

Currently, Malaysia government has put a lot of emphasis on Human Resource Management, especially in Human Capital Planning and Development. The implementation of Human Resource Information System (HRIS) is one of the organizational movements towards the globalization. Traditionally, the HR function has focused on delivering almost perfect quality HR systems and services to the organization (Wright & Dyer, 2000). Datuk Seri Abdullah Ahmad Badawi, the Malaysia Prime Minister believes that an excellent education may be able to produce an intellectual and strong mental generation. It may have a relationship with the capability of the Online HR System to acquire valuable information about potential candidates to fill in the vacancy in government sector.

Computer system competency in HR may be able to enhance the quality of excellence in recruiting and selecting potential staffs. It also assists the manager in management decision making and human resource planning. Online-based system in
recruitment and selection process in government sector enables efficient data storage and data retrieval. This activity is handled by the Suruhanjaya Perkhidmatan Awam Negeri Sabah (SPANS) for recruiting and selecting the government staff. The Online-application can be done through its official website, http://www.sabah.gov.my/psc/ (SPANS).

1.2 Problem Statement

This study addressed two research questions. First, it examined whether there are any differences in selecting potential candidates between using manual system and using the online system. The study attempts to determine whether using the online system in selecting candidates had a significant impact on its results in hiring for a suitable and potential job candidates. Specifically, when compared to selection through the manual process, "do the results in using the online system attain significantly an effective process?"

The second research question is, "do the Online-Job Application Form and the Online-Job Advertisement are significant to the Dependent Variables?" Assessing the effectiveness of online HR system requires the results of the respondent which acquired from the study sample; the SPANS staffs and also from the other staff from the other selected government organizations such as the Jabatan Penerangan, Jabatan Kesihatan, Jabatan Pendaftaran and Jabatan Pengangkutan Jalan negeri Sabah. The effectiveness has direct relation with the results because the graph reflexes the efficacy of using the online HR system in recruitment and selection process. In relation to that outcome, identifiable factors which are collected from the research sample will be used to support the generated hypotheses.
1.3 **Objective of the study**

This is an attempt to find the relationship between the Online HR system dimensions and the interest of the dependent variables within the recruitment and selection process towards the employment of government sector in Kota Kinabalu. By assisting and facilitating another related study on this field, it may contribute for a greater improvement on this study. Thus, the objectives of the study are stated as follow:

1.3.1 To identify the relationship between the independent variables (Online-Job Application Form and Online-Job Advertisement) and the dependent variables (Online HR System Satisfaction and Potential Job Candidates).

1.3.2 To determine how useful is the Online HR System in government sector in executing the administrative tasks.

1.4 **Significant of the study**

Research shows that in year 2000, Malaysia has reached 1.5 millions of internet user, and in 2002, it increased to 5.7 millions users. The increase in the use of computer certainly proves that we are now dealing with information technology (IT).

Data from these researches provided us with finding that this technology approach improves acquisition. The finding of this research can give a perspective towards the HR function process of recruiting and selecting to raise more concerns on our core management decision-making as an HR practitioner.

The major significant of the research is that; the study is conducted in the context of Malaysia Government System. Furthermore, the involvement of five Government Organizations within Kota Kinabalu area to respond to the research was seeks to prove
that the online computer-based information system design can improve the effectiveness in recruiting and selecting staff in government sector.

1.5 Key Variables
Those listed variables are the aspects that are involved directly in this study, and these are:

1.5.1 Online-Job Application Form
An application form that is available online and it can be accessed from anywhere. It is also known as an Electronic-Job-Application (E-Application). This e-form will be submitted directly at the same time to the recruiter once the applicant has completed the form.

1.5.2 Online-Job Advertisement
It is an electronic medium for advertising the firm's or the company's available vacancies on the internet. It usually appears at the main page of the organization's website or any public or general electronic-job boards. All of the job information such as the job qualification, responsibilities, offered salary and the company address are available.

1.5.3 Online HR System
It is an Online Computer-based Information System Management which is designed to manage the information through the Web-based Organizer. This information system design would speed-up the transaction process of information between the connected users at one time. This system was used to make the HR operations become more
effective and efficient. For instance, it’s allowed the user to send the information by an electronic mail, windows online messaging service and any other online applications.

1.5.4 Potential Job Candidates
It refers to the applicants who are being considered for a job. Additionally, the potential one would refer to those who possessed at least the minimum requirement of the vacancies offered. This type of applicants probably came from a good educational background, skillful and knowledgeable, and also having terrific employment experiences.

1.6 Organization of Thesis
There are five chapters in this research study which are as follows:

Chapter 1: It is an introduction which contains the overview of the study, the research problem, the objectives and the significant of study, and the brief of the key variables.

Chapter 2: The literature reviews are the chapter which includes the key concepts of this study, some theories to support the idea of this study and also the review of the related previous study.

Chapter 3: Research methodology and framework will explains us on how this study was conducted which includes the research theoretical framework, the hypotheses, research design, and the methods used to collect and to analyze the acquired data.

Chapter 4: In this chapter, there will the analysis of the study and the results which also provide some findings.

Chapter 5: Discussion and conclusion is the final part of this research study which includes the study recapitulation and also the suggestion for the future research.
CHAPTER 2

LITERATURE REVIEW

2.1 Introduction
This chapter will be discussing the theories, models, hypotheses and findings according to previous related research which focused specifically on the effectiveness of HR system in recruiting and selecting staff in an organization. All models, concepts and theories will be integrated into the public sector recruiting and selecting process.

2.2 Definition of Key Concepts

2.2.1) Online-Job Application Form
An application form that is available online and it can be accessed from anywhere. It is also known as an Electronic-Job-Application (E-Application). For example, the web has dramatically changed the way job seekers find positions. As of July 2002, over 52 million Americans have conducted online searches for information about jobs, with more than 4 million Americans doing so on a typical day, representing a 60 percent increase from 2000 (Boyce and Rainie, 2002). Recent demographics for web job searchers suggest that there is an equal mix of males and females and 61 percent are age 18-29 (Boyce and Rainie, 2002). Furthermore, 57 percent of whites, 43 percent of African-Americans, and 47 percent of Hispanics have web access (Rainie and Packel, 2001), and within minority groups, nearly 60 percent have conducted online job searching (Boyce and Rainie, 2002).

These statistics show that the web is a tool that is capable of reaching various segments of the job searching market. Although these numbers are encouraging, using the web as a recruitment tool can still lead to disparate impact and these demographic
trends should be kept in mind when using online recruitment (Stanton, 1999). The interface is 'user-friendly'.

2.2.2) Online-Job Advertisement

It is an electronic advertisement board (e-advertisement) which advertises the vacancies offered by the firms or company. This kind of advertisement may publish on the main company website, job search agency website or any web page that provides a job advertisement to everyone.

Recognizing the increasing and more diverse traffic on the web, companies are beginning to advertise and post position openings online. In fact, Leonard (2000) reported that 75 percent of Fortune 500 companies are posting jobs to their corporate sites, and less than a year later, Capelli (2001) reported that 90 percent of large US companies are using the web for recruiting. In addition, more than 75 percent of human resource professionals are now using web job boards to supplement traditional recruiting methods (HR Focus, 2000). It is evident that web-based recruiting and job search is now a major trend, reflecting the growing use of the web for commercial purposes (Lawrence and Giles, 1999; Spink and Jansen, 2004; Spink et al., 2002). Other articles have examined the role and importance of job boards such as Monster.com, CareerMosaic, and HotJobs (Donovan, 2000; Gordon, 2002; Gutmacher, 2000). With the focus on job boards and corporate rs, it is somewhat surprising how little research attention has been paid to the job seekers themselves. With one recent exception (Feldman and Klass, 2002), we could locate no other published research exploring how job seekers locate job-related information and positions on the web and how successful they are in finding relevant information.
2.2.3) Online HR System

It is an Online Computer-based Information System Management which is designed to manage the information through the Web-based Organizer. This information system design would speed-up the transaction process of information between the connected users at one time. This system was used to make the HR operations become more effective and efficient.

The Online-based Information System has been viewed as basic medium that capable to speed-up mostly of daily personnel information transactions. The HR’s link with IS and IT is becoming one of collaboration on solutions rather than one in which IS supports HR with programming services. Online is enabling many HRDs to move beyond personnel’s administrative legacy to take on a much more strategic role in the company. In many organizations, HR and IS are collaborating on enterprise-wide systems that are designed to provide management with critical information about workforce issues (Santosus, 1995). “A comprehensive base of accurate, up-to-date HR information that is readily accessible to decision makers throughout the organization is absolutely essential to HR’s ability to perform its key roles” (Minneman, 1996).

2.2.4) Potential Job Candidates

It refers to the applicants who are being considered for a job. Additionally, the potential one would refer to those who possessed at least the minimum requirement of the vacancies offered.

Applicants through the Internet are mostly young, computer literate, educated and showing some interest in the recruiting company, especially if they apply through the corporate Web site (Baillie, 1996; Frost, 1997), not to mention “accepting of change and,
therefore, more likely to help the business grow and change” (Thaler-Carter, 1998, p. 64). Recently the number of older, non-IT staff using the Internet to find jobs has increased, with around half of them earning more than £30,000 while 60 per cent are qualified to at least degree level (Welch, 1999). Practices like posting a job opening as an e-mail to the discussion groups or electronic forums of special interest groups enhance the targeting potential of the medium (Baillie, 1996), while the existence of niche sites like christianjobs.com, bilingual-jobs.com, casinocareers.com (for casino workers), nsbe.org (for black engineers), MBAfreeagents.com, or asia-net.com (for Asian-language speakers) provides for unprecedented fragmentation of the OR labour-market-targets (Greengard, 1998; Thaler-Carter, 1998).

2.3. Research Theory

2.3.1) Demand for ICT among the Sectors in Malaysia

The graduates have used the Internet during their degree courses and it is second nature to use it for searching job opportunities and making job applications. Currently, Malaysia is moving towards the world-class education as there are more private colleges and universities established. The first virtual university that was established in this country is University Tun Abdul Razak (UNITAR) in early 1990s, then followed by the Open University and Multimedia University. These universities have implemented the e-learning mode to deliver the academic resources, for the learning activities and also for the administrative purpose. An IT training will be given to the newly registered students during the introduction week. Their learning methods such as the Online-Tutorial classes (OLT), and student VOISS (Virtual Online Instructional Support System) which contains the web-based announcement, bulletin, assignments distribution, e-mail and online-course
registration might develop the students to be more familiar with the IT. In the next few years, the public universities are expected to produce over 20,000 ICT-based graduates per year. The graph for the tertiary education enrolment in ASEAN country in 1980 and 1996 is shown in figure 2.1. During this period, Malaysia has recorded 13% enrolments while the Singapore is 39% and the Philippines 25%.

Figure 2.1: Tertiary Education Enrolment in ASEAN, 1980 and 1996

![Bar chart showing tertiary education enrolment in ASEAN countries from 1980 to 1996.](image)

Source: Computed from World Bank (1999)

At the workplace, computer-based administrative task has been already applied in many sectors since 2000. Table 2.1 illustrates the ICT expenditures by the selected sectors in Malaysia in 1995 and 2000. Within the 5-years period, the manufacturing industry has recorded 19.0% average annual growth and followed by the education and research, 15.6%. However, the telecommunications industry has just started in 2000 with RM2323 million of investments towards the ICT. This clearly shows that the uses of computer among the workforces in this country has rapidly grows every year.
Table 2.1: ICT Expenditure by Sector 1995 and 2000 (Selected Sectors only) (RM million)

<table>
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<tr>
<th>Sector</th>
<th>1995</th>
<th>2000</th>
<th>Average annual growth rate (%)</th>
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<tr>
<td>Banking &amp; Finance</td>
<td>1,026</td>
<td>3,723</td>
<td>-4.2</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>494</td>
<td>4,641</td>
<td>19.0</td>
</tr>
<tr>
<td>Government</td>
<td>380</td>
<td>2,082</td>
<td>6.9</td>
</tr>
<tr>
<td>Telecommunication</td>
<td>-</td>
<td>2,323</td>
<td>-</td>
</tr>
<tr>
<td>Professional ICT &amp; other services</td>
<td>125</td>
<td>236</td>
<td>13.5</td>
</tr>
<tr>
<td>Education &amp; Research</td>
<td>114</td>
<td>1,008</td>
<td>15.6</td>
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<tr>
<td>Transportation</td>
<td>114</td>
<td>1,147</td>
<td>9.1</td>
</tr>
</tbody>
</table>

Source: Computer Industry Association of Malaysia (PIKOM)

With this excellent growth in the education and research sector, Malaysia will be expected to produce over 90% of its graduates with computer-literate by the year 2010. According to the scenario, computer-literate workers will reach 200,000 at minimum during 2010 where by 108,200 ICT workers already available in 2000. Accordingly, the implementation of ICT into an organization requires the employee's efficiency in handling these technologies to complete their tasks effectively. It is the part of human capital which requires by the organization. The employee's performance in organization may affect the organizational strategy which has the link with the outcomes and the results. Figure 2.2 illustrates the linkages between strategy, outcomes and the organization results.
As the conclusions, the employee's competency and talent towards the organizational strategy has to be concerned as the contributor to the organizational achievement.

2.3.2) Information Technology (IT) in Southeast Asian Human Capital Growth

In Southeast Asia, the development of Human Resource Management was is at par with the developed countries like Japan, South Korea, China, Hong Kong, US and Germany. Both countries provide equal access of IT towards their society. Malaysia itself has the E-Government which is the Web-Based Government Transaction Portal. It allows the Malaysian to interact with the government through the IT technology mainly for inquiry, applications or resources and information purposes. In addition, Singapore has launched
the Infocomm 21 Plan, which attempt to position the economy as an information base with the hope of attracting strong participation by ICT companies, and as well as Malaysia, the Multimedia Super Corridor (MSC). However, the evolution of IT human capital in Southeast Asia has evolved equally.

Table 2.2 shows the expanding of Personal Computer (PC) for wider information through the internet which connected by the telephone-line among the ASEAN countries has also been indicated. Singapore has been at the same level with the Northeast Asia and the Western hemisphere countries. However, Malaysia is second; and leads the other ASEAN countries but it is very far behind Singapore. Singapore and Malaysia have ventured aggressively to build their IT infrastructure (Wong 2001; Rasiah 1999). Malaysia has also waived though immigration controls on skilled labor and professionals for firms locating in MSC.

Table 2.2: IT and Telecommunication Indicators of Selected Economies

<table>
<thead>
<tr>
<th></th>
<th>Telephones per 1,000 persons (1997)</th>
<th>PCs per 1,000 persons (1997)</th>
<th>Internet hosts per 10,000 persons (July 1998)</th>
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<td><strong>ASEAN</strong></td>
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(-) No data available

Sources: World Bank Institute (1999)
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