

# Regional Collaboration on IT Enabled Services Smart Strategies for Jobs & Growth in South Asia

## **OVERVIEW**

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# **Foreword**

The new millennium catalyzed a shift in the focus of South Asian economies to the service sector. The South Asian countries share many common characteristics – a young population, familiarity with the English language, and an emphasis on quantitative skills at the school level. These characteristics make the talent pool in these countries ideal for the ITES-BPO industry. India, a neighbor to all six countries studied in this report, is at the epicenter of the ITES-BPO revolution, and has transformed India's economy in a relatively short time. South Asian countries seek to follow suit.

This report on "Regional Collaboration on IT Enabled Services – Smart Strategies for Jobs & Growth in South Asia" was initiated by the South Asia Regional Programs & South Asia Poverty Reduction, Economic Policy, Finance and Private Sector Development Unit. It responds to a need expressed by our client countries for World Bank support to build their capability in the IT enabled services sector. The current study was commissioned with a view to facilitate their efforts through regional collaboration.

ITES-BPO is inherently a 'knowledge' based industry and thus the countries can accelerate the growth of the industry in the region by sharing ideas and experience. This study suggests collaborative initiatives that could drive the growth of the industry through a two pronged approach: (i) increase business through joint promotional activities, sub-contracting of work, building common standards and

world class business practices; and (ii) develop supply side resources such as skills, support infrastructure and enabling policies.

This study makes practical recommendations for collaborative growth between the countries in South Asia, who aspire to become the 'Region of Choice' for global outsourcing. The Bank Group shares this vision for transformation, and stands ready to work with the various stakeholders in our client countries to bring this exciting agenda to fruition.

# Sadiq Ahmed

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# Overview

# Introduction

The offshore business-process outsourcing sector of the information technology-enabled services industry, known as the ITES-BPO industry, has witnessed significant growth over recent years, spurring development in several emerging countries across Asia, Latin America, and Eastern Europe. With an estimated global offshore market size of US\$28 billion in 2007, the industry in these regions has penetrated only 6.6 percent of the total outsourcing potential, estimated at US\$423 billion (NASSCOM 2008). This presents a large opportunity for both existing and emerging ITES-BPO locations to increase their share of off-shoring within the global market.

The growth in off-shoring was begun primarily by organizations looking to leverage cost arbitrage, which these emerging markets were able to provide for services required by more developed economies. However, over time, factors such as access to talent, achieving operational excellence, and increasing productivity and market penetration have led organizations to increase their investment in and focus on off-shoring.

For governments in emerging economies, especially those targeting the development of services industries, the ITES-BPO industry has emerged as a key area of focus. This focus has been driven by several socioeconomic benefits the industry offers, including the following:

- **Enhanced job creation:** The ITES-BPO industry is highly people intensive. Scale is achieved by deploying larger numbers of people - unlike traditional industries where growth and development do not necessarily imply an increase in the number of jobs.
- **Export revenues:** Earnings from services provided to developed markets have become the mainstay for the majority of the ITES-BPO industry in emerging locations. This link with developed markets provides several related benefits as well, including higher wages and upgrading of skills.
- Investment in information and communications technology (ICT) infrastructure: Positive spillover effects improvements in ICT infrastructure and business services, which in turn lead to higher efficiencies within the domestic economy.
- Increased participation of women in the workforce: Unlike traditional manufacturing industries, the ITES-BPO industry encourages greater female participation in the workforce. It is estimated that women make up 60 percent of the employee pool, on average, in ITES-BPO organizations.
- Creation of cluster industries: Another significant benefit that has arisen from the growth of the ITES-BPO industry is the creation of ancillary service sectors such as transportation, training, catering, and so forth. In fact, it is estimated that for every direct job created in the ITES-BPO sector, four additional jobs are created in the economy (see Box 1).

# Box I CHAIN REACTIONS: INDIA, IT'S IMPACT ON ECONOMY, CONSUMPTION, AND GDP

According to February 2007 article in *CLSA Quarterly*, the Indian information technology (IT) industry (including ITES-BPO) was expected to have a multi-tiered effect on the Indian economy between 2007 and 2010. The authors based their findings on the expected spending patterns of industry professionals and anticipated that the impact would be on multiple industry segments as follows:

- Two-thirds of five-star hotel room additions and one-third of budget hotel expansion over FY07-FY10 were expected to be driven by growth in the IT industry.
- Twenty percent of incremental domestic travel was expected to be undertaken by industry professionals for personal (non work related) trips during the FY07-FY10 period.
- Industry professionals were expected to own one-fifth of all online trading accounts and will account for 12 percent of all credit card owners.
- Industry professionals were expected to receive 17 percent of new home loans during the FY07–FY10 period.
- Industry professionals were expected to account for 13 percent of car sales, 16 percent of A+B-segment car sales, and one-third of demand for multiplexes during the period.

Source: Vajpayee and Govil 2007.

Given the potential of the ITES-BPO industry to generate mass employment and drive the economic growth of developing nations, as well as, the strong demand for Bank assistance in this sector from client countries, the World Bank commissioned a study to examine the opportunities that exist for South Asian countries to develop the industry, both individually and collaboratively as a region. This overview highlights some of the study's key findings and recommendations.

# Study Approach

The study covered six countries in the South Asia Region — Bangladesh, Bhutan, Maldives, Nepal, Pakistan, and Sri Lanka- to assess the potential for regional collaboration and to identify areas of potential collaboration. The following approach was followed:

- A broad understanding of each country's current ITES-BPO industry landscape was developed. A detailed assessment of each country was then undertaken based on the four critical drivers talent, infrastructure, business environment, and clusters that are the key factors for attracting investment into the industry. To assess each driver, both quantitative data and elements of the prevailing policy environment were reviewed. The key strengths and areas needing development identified for the four drivers in each country.
- The key strengths and areas for development were used to identify those potential ITES-BPO segments that each country can consider developing in the near term and over the long term. A broad roadmap was developed for each country. Although the study's focus is on regional collaboration, the resulting policy recommendations must be addressed by individual national governments. Therefore, the findings highlight key initiatives that must be made in each country.
- The potential for regional collaboration was studied through interviews and discussions with various stakeholders. The study makes a strong case for regional collaboration among the South Asian countries and discusses in detail how each of the countries

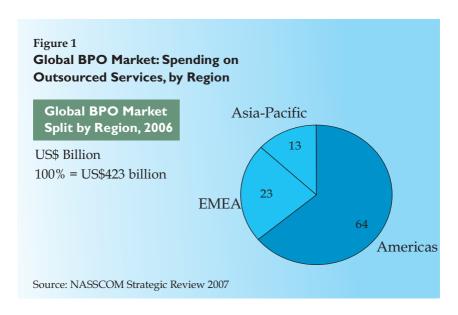
studied would benefit from such collaboration. Potential collaboration initiatives and the role that could be played by key stakeholders to ensure the success of proposed initiatives are discussed at length.

A broad regional roadmap was developed, highlighting key initiatives, key stakeholders, and proposed timelines. However, the study report does not include detailed assessment parameters and milestones. Since regional collaboration within the ITES-BPO industry is a relatively new concept, it is important to first understand the feasibility of the concept before developing a more robust and complete implementation roadmap. The report does highlight potential constraints and challenges of regional collaboration among the countries.

# **Global ITES-BPO Industry Overview**

The potential global market size was estimated \$423 billion for spending on ITES-BPO services in 2006 (NASSCOM 2007), and is expected to grow by 10 percent a year to US\$700–800 billion by 2012 (NASSCOM 2008).

The Americas accounted for nearly two-thirds of global spending on ITES-BPO services in 2006 (see Figure 1). North America alone constituted the largest market, accounting for more than 60 percent of the total ITES-BPO industry worldwide and growing at nearly 10 percent in 2006. Europe, the Middle East, and Africa (EMEA) accounted for about 23 percent of the market, with Western Europe accounting for more than 95 percent of that regional market. Regional growth EMEA was estimated at about 9 percent in 2006.



Asia-Pacific, in contrast, is a relatively nascent market for ITES-BPO, with an estimated market share of about 13 percent in 2006. However, the Asia-Pacific region was the fastest growing market, with regional growth estimated at more than 20 percent that year.

Figure 2 shows percentage market share by country, based on actual BPO spending. Within the estimated global outsourcing opportunity of US\$423 billion in 2006, the actual global BPO spending stood at about US\$28 billion in 2007. Global delivery from multiple locations across regions is a relatively recent trend that is gaining prominence. Worldwide, most developing countries are strongly focused on encouraging the growth of the ITES-BPO industry, and this includes countries in the South Asia region. With 37 percent of the overall offshore BPO market, India has emerged as the leading destination in terms of both breadth and depth.



Other countries in the region, such as Sri Lanka and Pakistan, have also attracted ITES-BPO investment. Bhutan, Nepal, and Bangladesh have recently initiated efforts to attract ITES-BPO investment and to spur ITES-BPO growth in their respective countries.

# **Opportunity for South Asia**

Given the large size of the educated populations of the South Asian countries in this study (Bangladesh, Bhutan, Maldives, Nepal, Pakistan, and Sri Lanka), the ITES-BPO industry represents a very attractive prospect for investment and growth. This is especially true given that India—a neighbor to all these countries—is a dominant player in the industry. As indicated earlier, India has about 37 percent of the market share in global off-shoring, which translated into revenues of US\$9.5 billion in 2007 (NASSCOM 2008).

Industry studies project that by 2012, India's revenues from ITES-BPO could be in the range of US\$280-300 billion (NASSCOM 2008). While the current economic and financial industry downturn is likely to temper these estimates, Indian ITES-BPO players are continuing to gain business from smaller U.S. firms. Also, although individual projects might be smaller (in revenue terms) than before, newer segments such as human resources (HR) outsourcing and legal process outsourcing are predicted to grow during the downturn.

However, even at its current industry size, India faces a talent shortage accompanied by wage inflation, so that Indian companies are moving to Tier III and Tier IV cities in order to minimize the cost of talent. While Pakistan and Sri Lanka have a somewhat developed ITES-BPO industry, the sector is still nascent in other South Asian countries. It is thus imperative for South Asian countries, including India, to look at collaborative growth in the ITES-BPO industry. From the perspective of Indian ITES-BPO companies, collaboration would give them access to a larger and, in some cases, better qualified talent pool. Moreover, collaboration would open new markets for Indian companies that specialize in infrastructure development. From the perspective of other countries in the region, collaboration would allow them to develop new business opportunities and to develop the supply side in terms of talent and infrastructure. Figure 3 highlights how collaboration can enable both business and supply-side growth.

Figure 3 **Benefits of Collaboration** 

Business Growth	Supply Side Growth		
<ul> <li>Joint business promotion</li> <li>Subcontracting of work from one country to another</li> <li>Tapping domestic ITES-BPO markets of</li> </ul>	Development of human capital through development of regional standards for     Curricula     Training     Assessment      Development of infrastructure such as telecom and real estate      Sharing of infrastructure      Development of policy infrastructure that facilitates free movement of ITES-BPO personnel in the region		

# The Current State of ITES-BPO in Individual Countries

To develop specific initiatives for ITES-BPO growth that should be undertaken at a regional level, it is necessary to understand --

- the current state of the industry in the six countries, and
- specific strengths and areas of development with respect to the four drivers of investment: talent, infrastructure, business environment, and clusters (supporting industries) in each country.

An overview of this assessment, with the salient findings for each country, is given in Box 2.

# **Bangladesh**

- The government has begun focusing on growing the ITES-BPO industry. In April 2008, it started giving out call center licenses at a nominal cost.
- Bangladesh has two key strengths: large-scale availability of young talent and a distinct cost advantage.
- Given the large pool of commerce graduates, Bangladesh should consider services within the finance and accounting vertical and can expand to offer analytics and HR-related services in the long term.
- Looking ahead, Bangladesh will need to address key concerns in terms of employability of talent, infrastructure, and existing political environment.

# **Bhutan**

- The ITES-BPO industry in Bhutan currently consists of only three players, employing an estimated 225 people. Key strengths include availability of English-speaking talent and a stable political environment.
- Given the constraints on the size of its talent pool, Bhutan should focus on specific niche segments within the ITES-BPO industry and target the medical transcription, health care billing, and coding segments in the near term. In the long term, Bhutan can develop segments such as graphic design and technical helpdesk services.
- Bhutan will need to focus on increased investment promotion as well as the development of talent and necessary infrastructure.
- The availability of reliable clean energy and the inherent safety of this land locked Himalayan nation, makes Bhutan an excellent business continuity (BCC) site for offshore server services.

# **Maldives**

- The ITES-BPO industry is currently at a formative stage of development in Maldives. The country has not yet identified ITES-BPO as a priority sector for the economy.
- Key strengths include young, English-speaking talent and a welldeveloped telecom infrastructure.
- Given the limited size of the talent pool, the country should look at developing specific niche industry segments, rather than aim for a cross-sectoral or the large volume end of the market. In addition to tourism, the government plans to develop industries such as fisheries, logistics, and ports; over the long term, ITES-BPO industry developments can largely exploit the growth in these industries.
- In addition to determining the potential niche areas for ITES-BPO as an economic segment, Maldives will need to build technology parks & a skills development program among other initiatives to make an entry in this completely new sector for the country.

# Nepal

- The ITES-BPO industry is currently at a nascent stage of development in Nepal. Currently, there are only two ITES-BPO companies in Nepal employing an estimated workforce of about 200 people. Nepal offers a sizeable pool of English-speaking talent with a significant cost advantage.
- With respect to areas of opportunity, Nepal should focus on developing niches for both voice and non voice segments in existing areas such as animation and geographical information systems (GIS).
- To emerge as an ITES-BPO destination, Nepal needs to focus on talent and infrastructure development and also build an investment promotion strategy.

### **Pakistan**

- The ITES-BPO industry in Pakistan is estimated to be the second largest within the South Asia region (after India) in terms of employment. Pakistan's software and ITES sector is estimated at US\$1.6 billion (and the industry employs more than 24,000 people locally out of an estimated total work force of 110,000 in the sector.
- Key strengths include a large English-speaking population and a relatively well-developed infrastructure.
- With respect to opportunity areas, Pakistan should focus on developing over time a larger scale industry in both voice and non-voice segments. Within the knowledge process outsourcing (KPO) segment, the industry is currently focused primarily on financial services. In the long term, the industry should strive to diversify into finance-related areas such as investment research and analytics and also target emerging segments such as legal process outsourcing and patent-related analytics.
- Implementation of an ITES-BPO policy, supported by investment promotion and talent development efforts, are critical for further industry development.

# Sri Lanka

- The ITES-BPO industry is relatively mature in Sri Lanka. The ITES-BPO industry has been identified as a priority sector in the Sri Lankan economy. Sri Lanka's ITES-BPO industry revenue is estimated at US\$125 million, employing more than 6,000 people in 2007 (ICTA et al. 2007). Current estimates suggest that the IT-ITES industry has grown rapidly to about \$250 million in revenues and employs over 8000 directly in the sector.
- Key strengths include the availability of cost-effective, skilled manpower and active involvement of industry bodies.
- With respect to opportunity areas, Sri Lanka should focus on developing niches within non-voice segments. Given the inherent strengths of the talent in mathematics and finance, Sri Lanka should focus on segments such as finance and accounting, research and analytics, and customer support in the near term. In the long term, the country should look to further expand its operations into legal process outsourcing and HR-related services.
- Looking ahead, Sri Lanka should focus on increased investment promotion as well as the development of talent and necessary infrastructure.

# Collaborative Growth of ITES-BPO in South Asia

As noted in the summary country assessments, most of the South Asian countries studied have begun initiatives to ensure that suitable talent and infrastructure are being developed for the ITES-BPO industry.

However, at present these countries are competing among themselves and with India for investment in the ITES-BPO industry. No concerted efforts to collaborate and develop the region as a single market for offshoring and outsourcing have yet been undertaken. From an outsourcing and off-shoring perspective, the region is still a collection of individual countries rather than a common unit. Collaboration among countries on some form of standardization—in terms of service delivery, quality levels, or the capability levels of talent from different countries — would benefit the entire region. This could be achieved through formal information exchange, motivated by the goal of economic growth and the reality of geographic proximity.

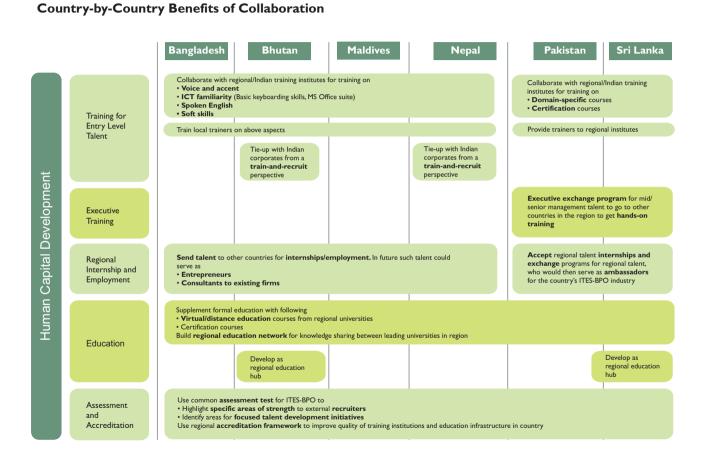
Collaboration would allow countries to leverage their individual strengths such as a large talent pool in the employable age group, knowledge of English, expertise in finance, and their overlaps in identified potential areas of opportunity. The potential revenues for local industries and employment generation for the countries could be much greater if they worked together in this way. Besides the region itself presents a significant market & an opportunity yet left untapped.

When one considers the further development of the ITES-BPO industry in this manner, a number of potential areas for collaboration emerge. While business-to-business relationships have already been explored in the telecommunication infrastructure space, and some degree of

subcontracting of work from Indian ITES companies does occur, there are no formal mechanisms to identify potential collaboration areas and facilitate knowledge sharing. Nonetheless, corporations use informal channels to explore collaborative possibilities to do complementary work.

Figure 4 offers an overview of potential collaborative opportunities for each of the countries in the study. Given the differing states of maturity of the domestic of the ITES-BPO industry in these countries, collaboration would benefit each country in different ways, and thus the opportunities for each country vary.

Figure 4



The process of collaboration however, requires integrated efforts from three main stakeholders: country governments, corporations, and institutional bodies. Each stakeholder has a specific role to play in the various collaborative initiatives to be undertaken at the regional level. These initiatives have been broadly classified under the following areas:

- Talent development in areas such as education, training, assessment, and accreditation
- Investment promotion marketing the entire region as a single unit as well as attracting investments, joint ventures, and subcontracting of work
- Infrastructure initiatives building support infrastructure for the ITES-BPO industry in terms of telecom, real estate, air connectivity, etc., and
- Regional policy development initiatives in terms of macrolevel initiatives that may be taken up by the government.

To implement these initiatives in a streamlined manner, stakeholders will need to work toward the common goal of ITES-BPO growth for the entire South Asia region. It is thus recommended that a regional body be formed that has a specific focus on developing the South Asia region as an ITES-BPO hub. This body would encourage collaboration among the countries and play a key role in the coordination of all efforts from the other stakeholders. In the initial years, the regional body would primarily rely on country-level associations to carry out much of its work and would act in an advisory capacity. This would facilitate the immediate implementation of some quick wins and would not require much investment in the creation of the body itself. The nature and role of the body could evolve over time. This is illustrated in Figure 5.

Figure 5 **Evolution of the Role of the Regional Body** 

#### **Short Term**

#### **Role and Activities**

- Play the role of:
  - Think tank
  - · Advisor on projects executed by country-level association
  - · Mentor for country-level association
  - · Communication platform for various stakeholders

#### **S**tructure

- Flexible
- Flat representation from multiple bodies
- Virtual -representation from multiple bodies communication primarily through existing forums and through technology such as tele//video conferencing and e-mail

#### **Long Term**

#### **Role and Activities**

- · Project management of various regional initiatives
- · Continued advisory role
- · Seeking of funding options and vetting of project proposals at a regional level
- · Setting up of common infrastructure to be used by all countries

#### **S**tructure

- · More formal structure with a steering committee in an advisory role and an administrative team with full-time CEO. Based in one of the South Asian countries.
- · Specific cells overlooking various functions, including planning, funding, and project management

Figure 6

Role of Stakeholders in Regional Collaboration

#### Government Institutions Corporates Create Conducive investment policy · Identify skill gaps in individual countries Communicate talent requirements in Training for regime for regional training vendors terms of skills and volume to · Identify partners for trainings Entry Level government through country-level · Align secondary school curricula to • Fund country-level education and Talent associations needs of the ITES-BPO industry assessment initiatives Human Capital Development Create attractive investment regime for Identify world-class organizations in the Communicate mid/senior management Executive international training/education South Asian countries that can provide talent requirements in terms of skills Training institutions to open local branches on-the-job training and volume to government through country-level associations • Ease visa and migration laws Identify global and regional Encourage employment of candidates Internship and from region since it builds the employer employers willing to employ regional • Ease repatriation of salaries into **Employment** brand candidates regional countries · Provide government infrastructure for · Project manage implementation of the Provide feedback on quality of talent qualifying on the test running test Common · Identify organizations willing to employ · Provide student subsidies for the test · Replace internal testing procedures Assessment on the basis of test with the test Test • Link employment schemes to test · Subsidize government spending on · Align education t o test results test on per-candidate basis · Assess quality of the government-run Project manage accreditation process Provide feedback on quality of talent educational infrastructure using emerging from accredited institutions · Fund creation of accreditation Accreditation accreditation framework mechanism

#### Make government infrastructure available for running promotional seminars and info-share events

- Drive marketing and promotional campaigns
  - Conduct conferences for ITES-BPO
  - · Identify regional business development agents
  - · Fund promotional activities
  - Facilitate contact and dialogue between organizations in similar spheres of work
  - Replicate successful models of socially oriented ITES-BPO
  - · Act as the bridge between potential investors and the governments
  - · Facilitate contact and dialogue between organizations in similar spheres of work
  - Identify opportunities for regional MNCs to outsource specific processes based on individual country competencies
  - Fund study on how industry-specific visas are implemented in other regions in the world
  - Act as a bridge between industry and the government to convey the needs of ITES-BPO organizations and investors to the government
  - Identify potential areas for bundling of infrastructure so that better rates may be negotiated by the region as a whole from external suppliers

Consult governments and other responsible bodies regarding amendments and additions that can be made to existing agreements

- professionals from the region

#### Create favorable policy regime that allows free flow of funds

- · Attract venture capitalists and other global investors
- Provide fiscal and non fiscal incentives to regional infrastructure development

#### Subcontracting

Visa and

Financial

Incentives

Infrastructure

Development

and Sharing

Leveraging

Agreements

Existing

Migration Laws

Joint Ventures

Investment

and

Marketing

Activities

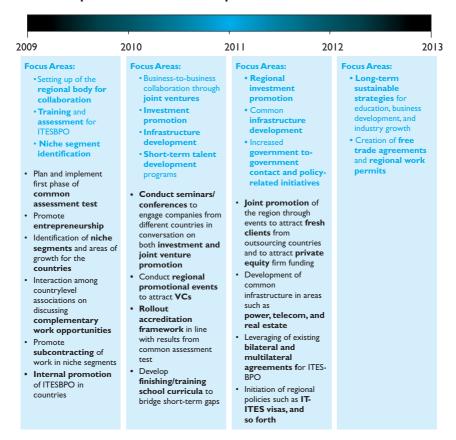
- Introduce IT visa that allows free movement of IT and ITES-BPO professionals within the region
- Fiscal incentives in the form of tax holidays, exemptions from duties for import of hardware-equipment
- Easy regulations for investment clearance, funds remittance and land allocation
- Ease of regulatory framework for telecom, power, and real estate development
- · Regulatory guarantees and safeguards to protect interests of parties sharing infrastructure, in case of default
- IP Protection Patent protectiona t regional level
  - Update and further detail existing agreements to include the ITES-BPO industry

- Leading corporates in a particular sector should nominate representatives to act as regional ambassadors
- Seek partners in other countries in the region for complementary work
- Seek opportunities for direct investments in regional companies
- Set-up greenfield projects and captive
- · Identify opportunities to subcontract work to regional companies

# Policy-Led Initiatives

An overview of the specific roles of the stakeholders—governments, institutions, and corporations—is shown in Figure 6. The approach to regional collaboration is primarily driven by business growth, which in turn is expected to drive closer relations among governments. However, to be seen as a "region of choice" for ITES-BPO, the region needs to have a certain level of standardization in the quality of service delivered, talent capability, and overall client experience. Figure 7 depicts a phased implementation of various initiatives that would help achieve this goal.

Figure 7 Roadmap for ITES-BPO Development in South Asia



In conclusion, while ITES-BPO has immense potential for generating employment and earning valuable foreign exchange for the country, growth could be slowed if political instability associated with the region and complementary niche areas are not collectively identified & developed as early as possible. It is, therefore, even more critical that countries work together and share expertise in the sector for mutually beneficial and potentially lucrative common goals. Thereafter building global awareness of South Asia's new capabilities will ensure each participating country realizes its full potential in the sector and positions itself as being a integral part of the "outsourcing hub of the world."

# **A Cautionary Note**

The timing of this report coincides with the global financial downturn, which has affected each country in different ways. The extent of the impact of the crisis is uncertain. We have tried to present a true current picture and future potential of the industry in the six countries. However, the global downturn may affect these projections.

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# Acronyms and Abbreviations

ACCO Association of Call Center Operators

ADB Asian Development Bank

ADSL. asymmetric digital subscriber line

ASOCIO Asian-Oceanian Computing Industry Organization

BASIS Bangladesh Association of Software and Information Services

BCC Bangladesh Computer Council BCS Bangladesh Computer Samity

**BFSI** banking, financial services, and insurance

**BIMSTEC** Bay of Bengal Initiative for Multi-Sectoral Technical and

**Economic Cooperation** 

**BPO** Business process outsourcing **CAGR** compound annual growth rate CAN Computer Association of Nepal

Cedefop European Centre for the Development of Vocational Training

CIA Central Intelligence Agency

CIMA Chartered Institute of Management Accountants

CMM certification capability model maturity certification

DSL digital subscriber line

DTAA Double Taxation Avoidance Agreement

DXX digital cross connect

**EMEA** Europe, Middle East, and Africa

EU European Union

F&A finance and accounting

**FAO** finance and accounting outsourcing

FTA free trade agreement **GCC** Gulf Cooperation Council **GDP** gross domestic product

GDP at PPP gross domestic product at purchasing power parity

**GDS** graphic design systems

GIS geographical information systems

HLC-IT High-Level Commission for Information Technology

HR human resources

ICT information and communications technology

**ICTA** Information and Communication Technology Agency

**IMF** International Monetary Fund

ΙP Internet Protocol

**ISDN** integrated services digital network ISO International Organization for Standardization

ISP Internet service provider

ISPAB Internet Service Provider Association of Bangladesh

IT information technology

ITES information technology-enabled services

ITPF IT Professional Forum

ITU International Telecommunications Union

KPO knowledge process outsourcing

Mbps megabytes per second MNC multinational company

MoU memorandum of understanding

NAC NASSCOM Assessment of Competence NAFTA North American Free Trade Agreement

NASSCOM National Association of Software and Services Companies

NCIT National Center for Information Technology NIIT National Institute of Information Tehcnology

PASHA Pakistan Software Houses Association

PPP public-private partnership
PSEB Pakistan Software Export Board
PSTN public switched telephone network

PTA Pakistan Telecom Authority

PTCL Pakistan Telecommunication Company Limited

R&D research and development

SAARC South Asian Association for Regional Cooperation

SADB South Asian Development Bank
SAEU South Asian Economic Union
SAFTA South Asian Free Trade Agreement

SAR South Asian region
SAU South Asian University

SEA-ME-WE South East Asia-Middle East-Western Europe cable

SEZ special economic zone

SII Securities Investment Institute
SLA service-level agreement

SLASI Sri Lanka Association for the Software Industry

STP software technology park

UNDP United Nations Development Programme

VC venture capitalist

VET vocational education and training

VoIP Voice over IP

VSAT very small aperture terminal

# **Definitions**

**BPO** Business process outsourcing includes processes that may be It enabled

and do not require onshore presence (that is, may be performed offshore).

Captive units include both MNC-owned units that undertake work for Captives

the parents' global operations and the company-owned units of domestic

companies.

Drivers refer to the elements that Hewitt research has identified as key Drivers

requirements for a location targeting ITES-BPO services.

Factors Factors refer to the individual parameters that make up a driver.

Grade A Grade A specifications refer to internationally acceptable real estate

standards with respect to floor space, construction, and so forth.

Incumbents Incumbents refer to IT and ITES-BPO organizations that are already

operating and prevalent in a particular location.

**ITES** Information technology-enabled services encompass outsourcing of

> processes that are supported through the use of information technology. ITES may cover different functions, including finance, human resources, and administration. ITES may be useful in different industries, such as

health care, telecommunications, and manufacturing.

Labor arbitrage Labor arbitrage refers to the savings realized by offshoring owing to the

difference in labor costs between the source and destination locations.

Offshoring Offshoring involves outsourcing (see next) specific IT and IT enabled

services and processes to other locations and regions.

Outsourcing Outsourcing refers to the engagement of external firms and organizations

to execute particular processes and services.

SAR countries This refers to the South Asian countries considered for this study:

Bangladesh, Bhutan, Maldives, Nepal, Pakistan, and Sri Lanka.

Secondary Secondary enrollment refers to the ratio of total enrollment in secondary enrollment

educational institutions, regardless of students' ages, to the total population of the age group that officially corresponds to the secondary

education level (World Development Indicators definition).

SEZ. SEZ refers to a special economic zone. BPO units in SEZs may be eligible

for certain incentives from the government and the SEZ establishing

authority.

STP STP or software technology park is specifically set up for the promotion of

the software industry.

Tertiary Tertiary enrollment refers to the ratio of total enrollment in tertiary enrollment educational institutions, regardless of students' ages, to the total

> population of the age group that officially corresponds to the tertiary education level. Tertiary education, whether or not it leads to an advanced qualification, requires as a minimum condition of admission the successful completion of secondary level education (World Development

Indicators definition).

Third party Third-party units are BPO service vendors that are mostly independently

> owned units (that is, no single client has a controlling stake in the vendor entity). Third-party vendors also include a small section of MNC-owned independent third-party vendors that have a significant part of their

global operations in a particular country.

