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# Standards and service offshoring in India: Moving beyond industry and institutional specificities

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## Standards and service offshoring in India: Moving beyond industry and institutional specificities

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#### Résumé

Cet article examine le rôle joué par les normes internationales techniques dans la mondialisation des activités de service. Différentes approches d'économie considèrent que les spécificités des activités de services sont un frein à leur délocalisation, à leur industrialisation et à leur normalisation. A l'opposé de ces approches centrées sur les spécificités des activités de services, les approches d'économie politique internationale mettent en avant l'existence de configurations conflictuelles de pouvoir à l'œuvre dans l'internationalisation des activités de services et ce, au-delà des limites sectorielles et nationales.

Cet article examine le cas du secteur des centres d'appels et, plus généralement, celui de la sous-traitance des services aux entreprises (BPO) en Inde. Nos résultats suggèrent que les normes techniques sont importantes dans le secteur étudié, alors même que ces types de services sont conventionnellement identifiés comme étant peu susceptibles d'être soumis à des normes. Une perspective d'économie politique sur la normalisation des activités de service souligne comment la problématique du pouvoir investit la normalisation technique d'une dimension plus progressive à travers les thématiques du "travailleur", du "consommateur", ou de "l'environnement".

#### **Abstract**

This paper explores the role of international standards in the much-debated globalisation of the service economy. Various strands of economic analyses consider that core attributes of services affect their ability to be reliably delocalised, industrialised, and standardised. In contrast, international political economy approaches draw attention to power configurations supporting conflicting use of standards across industries and nations. The paper examines the case of the rising Indian service industry in customer centres and business process outsourcing to probe these opposing views. Our findings suggest that standards matter in types of services that conventional economic analyses identify as unlikely to be standardised, and that the standards used in the Indian BPO industry are widely accepted. Despite little conflict in actual definitions of market requirements, an international political economy perspective on service standardisation highlights the importance of potential power issues related to workers', consumers', and environmental concerns likely to be included in more progressive forms of standardisation.

Keywords: international standards; globalisation; services; customer centres and business process outsourcing

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#### Introduction

This paper explores how the internationalisation of IT-enabled services and business process outsourcing relies on a wide range of standards involving contrasting forms of intermediation. The service sector is at the core of current debates on the transformations of contemporary capitalism towards a more sustainable global order than that which the crisis of financial capitalism has left behind it. The promise of a knowledge-based economy is largely made on the assumption that, as services become intertwined in manufacturing processes on a global scale, expertise and innovation embodied in such high-skilled services will pervade the economy as a whole. As Miles and Boden (2000a: 258) point out, "the service economy is not merely an economy in which service sectors are quantitatively dominant. It is one where 'service' is becoming a guiding principle throughout the economy". It is often unclear, however, to which extent this convergence thesis fits with theoretical and empirical evidence.

For more than two decades, studies in management have debated whether globalisation pressures in the domain of services will lead to further standardisation and industrialisation, or, on the contrary, to renewed customisation. Standards are conventionally valued as market tools to enhance service reliability, ensuring that they are properly delivered to the customer according to predefined requirements (Blind, 2004; Johnson and Nilsson, 2003; Zeithaml, et al., 1990). However, studies emphasising the advantage of customisation consider that the distinct logic of service provision supposes that the only viable management and marketing strategy for firms is to maintain personal contacts with the customers (Grönroos, 1990; Normann, 1991).

From a macroeconomic perspective, institutionalist approaches have highlighted that any issue for such a dilemma must be analysed beyond marketing and management choices. Sourcing services rely on ICT infrastructure, foreign trade, movements of workers and consumers, an enabling regulatory and institutional environment, as well as some degree of standardisation. Yet, stereotyped behaviours induced by standardised management processes can reinforce a dualist and unbalanced growth regime, leading to major difficulties brought on by sweeping divergence in productivity. Moreover, the choice of service customisation should be situated within the broader picture of progressive alternatives addressing social and gender inequalities, as well as the societal impacts of those standards (Du Tertre, 1999; Gadrey and Gallouj, 1998; Petit, 2007). Many accounts tend to confine such alternatives to distinct types of services: unmistakably, relational and intangible services are seen as better candidates for progressive customisation than logistics, maintenance and information activities, all of them well placed for additional standardisation. The studies are therefore inclined to hypothesise an industry specificity in service standardisation, which assumes that standards matter more for some services than for others. Finally, while institutionalist studies shed light on the social and political embeddedness of service activities within distinct national varieties of capitalism, they fail to explore how standards can be used as transnational tools. Standardisation, is not dependent on national institutional environments, but on the extent to which such informal market tools are recognised on a worldwide basis.

International political economy approaches have provided further insights on how standardisation should be situated within power and exclusion processes on a global scale – a context deeply entrenched in the US-based growth of large private communication and information services (Comor, 1999). By identifying standards

as tools competing conventional rule-making processes, they highlight the power configuration of non-state actors setting standards according to conflicting definitions of market requirements. They uncover the range of issues concerned and the transnational scale on which coalitions build the consensus required to adopt international standards (An and Maskus, 2009; Egan, 2001a; Graz, 2006b; Mattli, 2001; Murphy and Yates, 2009). Until now this scholarship has largely focused on trade in goods and official standardisation bodies such as the International Organisation for Standardisation (ISO). There is little clear understanding of how the distinct feature of a knowledge-based economy based on intangible and interpersonal services such as education or business services may amend assumptions made from standards in goods. Moreover, the magnitude and impact of technical specifications devised outside official standardisation bodies is often neglected.

Against this background, one question remains largely unanswered: do standards matter in offshoring services across national institutional environments and independently of the nature of the industry they serve? This paper focuses on the case of the rising Indian service industry in customer centres and business process outsourcing to probe the extent to which standards in these activities deviate from conventional accounts focused on national environments and industry specificity, as well as from international political economy studies of product standards that single out conflicting market definitions. Our findings suggest that standards matter even in types of services conventionally identified as least amenable to standardisation and internationalisation, and that standards most widely used little reflect conflicting definitions of market access requirements. The paper provides insights on conceptual and empirical grounds on this strong deviation from existing accounts of service standards in institutional economics and standardisation of goods in international political economy. Section 2 presents our methodology. Section 3 provides background on the development of an export-oriented service economy in India. Section 4 examines in more detail the link between services, quality and security uncertainty and international standards; it outlines the conceptual framework by drawing upon the insights of institutional economics, regulation theory and international political economy. Section 5 presents findings on the rise and range of standards in the Indian BPO sector. The conclusion wraps up the argument.

#### **Methodology**

The significance of the case study obviously relies on the importance of India, which accounts for more than half of the global market of outsourced services despite the growing share of competing countries such as the Philippines or Morocco (NASSCOM, 2010). It also arises out of a purposeful sampling among different types of services. In qualitative methods, purposeful sampling is a privileged means to identify information-rich cases. As Patton (1990: 169) reminds us, "information-rich cases are those from which one can learn a great deal about issues of central importance to the purpose of the research, thus the term purposeful sampling". To identify what stands out in current and future standards developments across widely diverse forms of services, a relevant sample of cases is expected to have either high or low values on the main characteristics differentiating the service economy. There is, however, a lack of commonly accepted typology of the service sector in official statistics (international data sets even vary for instance between the UN system and the one used by the IMF), as well as in scholarly literature. In order to reconcile conventional distinctions based on categories such as

business/non-business services or services to households/companies with more critical approaches focused on productive configurations between labour, technologies and organisational mechanisms (Du Tertre, 1999, 2002), four key criteria may be distinguished:

Relational intensity: transactions in services, in contrast to goods, imply an effect of the recipient on the provider's behaviour; yet, depending of the sector and the organizational structure chosen to provide the service, the intensity of the relation between the recipient and the provider may vary a great deal, ranging from professional counselling to transport logistics.

Immateriality: the types of "support" targeted by the action of the service differ considerably; they can range from the very material (e.g. objects to be maintained or financial assets valorised) to largely immaterial (e.g. individuals to be counselled, coded information processed, or organizations managed).

Consumers' implication: despite an ever-increasing complexity of productive configurations involving all sorts of intermediaries and outsourcing processes, services can still be distinguished between business services, whose transactions target the business community, and consumer services, directly implying the consumer as an end-user.

Labour intensity: in a context of massive industrialisation in the service economy driven by information and communication technologies, services can involve large amounts of capital (e.g. transport), but can still mostly rely on skilled or unskilled labour (as in consulting or call centres).

Among numerous sub-sectors with varying scores from criteria to criteria, customer centres and business process outsourcing in the Indian service industry match such a purposeful sampling. The case scores high value scores on all four characteristics While this may vary along segments of the value chain in which such services are provided, it exemplifies an industry with potentially high relational intensity, immateriality, end-user-orientation (particularly for customer centres) and labour intensity – all characteristics supposedly inducing greater quality uncertainty and lack of reliability. According to the industry specificity thesis, such services are less likely to be internationalised and standardised than others such as transport systems which rely on large infrastructures with a low relational intensity, a greater materiality, a strong business-oriented implication, and capital intensity. Customer centres and business process outsourcing in India thus appear to be particularly relevant for examining the assumption that service standardisation is more likely to occur in specific industries and national environments than others.

The dataset presented in this paper dates from before the global crisis hit emerging countries in early 2008. While those data provide evidence of trends following a decade or so of continuous high growth in the industry, they cannot bring additional information to the current debate on the impact of the crisis on the future of service offshoring. The data are drawn from the following sources: first, interviews we conducted with around thirty corporate executives, officials from standardisations bodies, professional associations, union representatives, and academics during a research trip in India (Delhi, Gurgaon, Bangalore) in January-February 2008. (All the interviews were conducted by using open-ended questions). We also collected printed and Internet-published materials from the institutions to which the interviewees belong and as well as by other bodies. Moreover, we collected documents published by the specialised press both in India and those related to the IT-BPO sector on a worldwide basis by using the database Lexis-Nexis.

#### **BPO Services in India**

Indian service industry ranks first among the growing number of developing countries having shifted away from primary and manufacturing exports to services. Indian export services are often portrayed as activities situated at the bottom end of a value chain packed with a low skill workforce working in a highly automated and taylorised environment reproducing the mass production model (Batt and Moynihan, 2002). It is true that many companies still work in low end domains, such as those providing uninformed quinea pigs for clinical tests on new pharmaceutical products, basic software programming or so-called outbound call centres attempting to sell cheap products over the phone. In this view, India is what Taylor and Bain called "an extreme version of the mass production model" (Taylor and Bain, 2005: 277). Yet over the last few years, a number of companies have scaled up the value chain to provide highly complex services. It appears that export-oriented IT services in India, despite a low ITC penetration rate in the country as a whole, now belongs to the top worldwide hierarchy of IT services. Companies deliver products as diverse as data and market research, IT enabling services, back office accounting and pricing, multimodal customer centres, legal analysis or medical distant support. According to data provided by Nasscom (2010), the leading professional association of the industry in India, the country still accounted for more than half of the overall world exports of IT-BPO services in 2010, after a decade of yearly growth rate estimated at around 30% before the outbreak of the global crisis in 2007-8. Customer centres, back office tasks in IT industries and more sophisticated activities known as IT enabled services (ITeS) and business process outsourcing (BPO) involve large and small Indian companies as well as foreign-affiliate of multinational corporations. A number of Indian companies have become multinational corporations on their own, with affiliates in other Asian countries, Europe, North and South America. The three largest - Tata Consultancy Services (TCS), Infosys and Wipro – were involved in the industry from the late 1970s and early 1980s.

Studies portraying the success story of Indian service industry and its prominence in the global market of outsourced services have proliferated over the last decade. In Thomas Friedman's best-selling account of the new "flat world" of the 21st century globalisation, Indian service industry plays a crucial role, which resembles that of a dream business story: "America and India started dating, and that relationship became a huge flattener, because it demonstrated to so many different businesses that the combination of the PC, the Internet, and fiber-optic cable had created the possibility of a whole new form of collaboration and horizontal value creation: outsourcing" (Friedman, 2006: 131). This is what makes India's position among large emerging powers so distinct, in particular as compared to China's strategy based on mass manufacturing. As noted by Harris (Harris, 2005), "India's main insertion into the global economy comes from its rapid advance in information technologies and pharmaceutical. It's a high end strategy (...) particularly as India became a choice for offshoring IT jobs from the US". Yet, it should be noted that IT-related foreign investments and outsourcing of services were strongly promoted by an enabling State even before the major policy changes marked by the creation in 1989 of the Software Technology Parks of India (STPI) providing infrastructural support and tax-free status to wholly export-oriented IT firms, the multiplication of Exports Processing Zones in the context of the 1991 regulatory reforms and the introduction of Free Trade Zones in 1999 (Chakravartty, 2004; Lal, 2001). As Saraswati reminds us in examining the decades preceding the 1990s, the "ever present and continuing importance of state intervention in the structural

transformation of the Indian IT industry" should be placed in a larger historical and political perspective (Saraswati, 2008: 1151).

Even if foreign companies such as American Express, GE Capital, and Hewlett Packard played a leading role in the development of the industry in the late 1980s and early 1990s (Arora and Athereye, 2002), they relied on the excellence of parts of the Indian education system fed by a dense network of Indian institutes of Technologies (IIT) and Indian Institutes of Managements (IIM) dating back to the 1950s. While they built up technology transfers and capital contribution, they also succeeded in taking stock of advice provided by local staff. As recalled by Raman Roy, known as the father of the BPO industry in India and currently CEO of a cutting-edge Indian BPO company, the bet was "to bring the Indian perspective and be confident enough on the greater efficiency of the Indian workforce" (personal communication, India, Gurgaon, February 8, 2008). In the same time, early foreign investors in service offshoring drew heavily on the 1990s managerial culture of reengineering by decomposing and standardising all sorts of business practices (Dossani and Kenney, 2007: 775).

According to The Economist ('Information Technology in India. Gravity's pull', December 15<sup>th</sup>, 2007), rarely has an industry grown so rapidly for so long. As the United States alone accounts for about two-thirds of these revenues, which are particularly exposed to the banking, financial and insurance industry (nearly 40% in Fiscal year 2006-7, according to Nasscom (2007), this path is under heavy pressure in the context of the current global crisis. While in this regard Indian service outsourcing is poised to face - like most other industries - a global slowdown, recovering strategies will still rely on factors to be situated beyond micro economic practices such as strategic managerial choices, improved IT solutions and increased wage pressures. Moreover, many of those services remain profoundly intangible and interpersonal; they require either a highly skilled workforce or personal contacts in domains which cannot be (fully) substituted for capital (i.e. unable to be fully automated in industrialised or emergent economies). Future developments of the industry will undoubtedly target those activities most likely to be further disaggregated into repeatable and scalable tasks on a reliable basis at the global level. They will also have to address increasing demands for improving the quality of services, within well-defined conformity assessment procedures. These are precisely among the core challenges of standardising service offshoring at the global level.

### Service Offshoring and Standards : A conceptual framework

The service sector is at the core of changes reinforcing the pivotal role of knowledge, information and communication technology (ICT) as a post-industrial society increasingly substitutes the delivery of services for the production of goods. The ability to develop a global market of services is not only a matter of technology or economic logic. It also supposes an ability to define the gradual decomposition of complex work into simpler work sequences. The more fragmented the nature of the labour and consumption processes , the more requirements to codify them. The literature in marketing and management has discussed at length the so-called standardisation dilemma faced by most service firms (Whitelock and Pimblett, 1997). On the one hand, the pursuit of productivity gains would lead them to develop economies of scale, mass production and standardisation (Grönroos, 1990; Levitt, 1976; Normann, 1991; Ritzer, 1993). On the other, the distinct nature of

service production requires paying particular attention to customers, which in turn supposes that employees provide as many individually tailored service as possible. According to Blind, "because of the intangible nature of services and the information asymmetries thus caused between management and service provider, the need to introduce quality standards for each stage of the service production is especially high" (Blind, 2004: 167). Tether, Hipp and Miles (2001: 1116) emphasise how technical, organisational, and strategic features are closely entangled in assessing whether services are likely to be standardised or remain customised. Their study backs up approaches that mix the nature of the technological underpinning the service activity and the nature of the market they serve (e.g. Boden and Miles, 2000b; Djellal and Gallouj, 2002). Moreover, it provides additional ground to studies examining how standardisation and customisation logics are increasingly blurred "to combine the advantages of standardisation (the possibility of increasing productivity) with those of customisation (individual customer satisfaction)" (Sundbo, 2002: 104). While the literature emphasises the importance of standards in providing reliability, it never fails to stress that core attributes of services often aim at retaining a critical level of individuation. Notions such as 'modulisation' (Sundbo, 2002) or 'mass customisation' (Pine, 1993) catch this distinction. On the whole, however, these studies lend support to the industry specificity thesis. Despite the emphasis placed on the diversity of service activities found between and within sectors, and on the importance of the size of firms in choices made between standardisation and customisation, the relational and intangible dimension of the service delivered is expected to remain a major hindrance to any standardisation process facilitating the offshoring of services. Moreover, as the prime concern of such studies is to provide more insights on the causal factors behind service innovation, they shed little light on the broader political economy dimension in which such processes take place.

Institutionalist accounts provide further analyses of the social and political aspects of service activities. Following early studies by Baumol (1967), Petit (2007) stresses how the emerging service economy tends to reinforce unbalanced growth patterns, dualism and stagnancy. Gadrey (2003: 76ff) correlates divergent types of commodified and non-commodified services, high- and low-skilled employment, and varieties of capitalism in terms of social and gendered inequalities within distinct national environments. According to him, a very inegalitarian society (with deep class and gender inequalities) cannot have the same service economy as a more egalitarian one. The former is likely to support service rationalisation based on productivity, standardisation and economies of scale. The latter, on the contrary, would choose more reflective practices, work routines, and a use of technology supporting labour and gender equality in contrast to conventional labour substitution and unequal division of labour between services delivered by men and women. Du Tertre (1999) makes a similar assumption in analysing productive configurations between labour, technologies and a wide range of organizational mechanisms. While some types of services can be highly delocalised, industrialised, and standardised, others cannot. In other words, core attributes of services affect their environment. According to du Tertre, quality uncertainties affect both the production process and the competitive environment; they arouse suspicion ofthe nature and the use of the service provided. A neo-Taylorist standardisation of services is one possible response to the cost/quality conundrum. It favours industrial methods applied to services, stereotyped behaviour and standardised information denying the specificity of the service relationship. Pre-selection by touchtone telephones and decision trees in offshore contact centres would be examples. Yet a rapid surge of offshoring services going that way is considered to be unlikely since intangible and relational activities are embedded in deeply socialised forms of accessibility with strong territorial and cultural underpinning. Here the industry specificity of intangible and relational services works as a resilient hindrance to standardisation and internationalisation (Du Tertre, 2008). Following the vein of Gadrey, du Tertre identifies a more progressive response within the confines of entrenched national environments. The outcome would be a compromise that includes deontology as a factor, resembling those for regulated professions such as law and medicine, requiring greater involvement of service providers and beneficiaries in defining a common use of services.

International standards represent important tools in this regard. Yet, to what extent do they respond to quality uncertainty beyond distinct productive configuration (the nature of the industry) and national institutional compromises (varieties of capitalism)? In other words, what is the standardisation potential in the internationalisations of services across distinct national environments and core attributes of the business concerned? To investigate these questions further, one must pay more attention to the range of actors involved in standardisation, the societal scope of issues concerned, and the transnational scale at which coalitions are formed to set and make use of standards. Such issues have been thoroughly explored by international political economy - a field of study closely related to international relations scholarship in which the theoretical debate on globalisation emerged most decisively. In contrast to conventional approaches highlighting the role of states in prevailing world economic order, a number of scholars base their analysis on a comprehensive understanding of political, economic and social aspects of power and authority in contemporary capitalism (see for instance O'Brien and Williams, 2004; Palan and James, 2007; Rupert and Solomon, 2006). Recent studies have explored the ability of non-state actors to co-operate across borders in order to establish rules and standards of behaviour accepted as legitimate by agents not involved in their definition (Avant, et al., 2010; Grande and Pauly, 2005; Graz and Nölke, 2008; Hall and Biersteker, 2002; Krause Hansen and Salskov-Iversen, 2008; Sassen, 2006; Strange, 1996). Most of them acknowledge that the logic of action and the potential of change embodied by actors involved in this process are based on consent, implicit or explicit, instead of coercion and forceful compliance. The relationships between states and non-state actors are "sometimes conflicting but often symbiotic" (Higgott, et al., 1999: 6). As Cutler et al. argue, "those subject to the rules and decisions being made by private sector actors must accept them as legitimate, as the representations of experts and those 'in authority' (Cutler, et al., 1999: 19).

From this perspective, the authority of standards in framing the internationalisation of services entails numerous agents who play, or claim to play, a role not only as new actors, but also impacts on the nature of issues likely to be standardised and the space in which they exert their power. Regarding the range of actors, service standards reorganise the public and the private spheres through formal and informal regulatory practices that overcome the public/private distinction focused on the nature of the industry. Similarly, they put the State/market distinction into a broader framework to account for the coordination of service firms' behaviour within the national institutions of capitalism. The authority of standards setters blurs the distinction between private and public actors. Moreover, international standards are not always defined on a narrow and flat technical and managerial basis. Even when they are, neo-Taylorist forms of service standardisation span a wide range of management methodologies. In some cases, however, a politicization process takes place, which prompts the inclusion of a wider range of workers', producers' and consumers' concerns. This could concern an organised group of individuals who initiate a collective action in order respond to some well-identified problems. While du Tertre situates progressive prospects of standards set by professional deontology in the domestic arena, they can also occur on the international level and override traditional domestic regulatory frameworks. New ICT management standards incorporating diverse strands of privacy, security and

corporate responsibility can be seen as critical cases... Finally, regarding the space in which standards exert authority, coalitions built within standard-setting arenas often reach a transnational scale. Large multinational and technology-driven service firms typically join together for restricting quality management systems to minimum requirements, whereas under-represented workers' and consumers' organisations fight to bring to the negotiating table issues including broader societal concerns. Each side reflects its own, conflicting, definitions of market requirements; each tries to exercise its own forms of intermediate authority at a transnational level.

In brief, service standards reorganise the public and the private spheres through formal and informal regulatory practices that deviate from conventional accounts confined to a public/private distinction of the nature of the industry and State/market understanding of coordination issues differentiating national varieties of capitalism. They reflect a form of transnational hybrid authority that blurs the distinction between private and public actors, whose scope can spread all along from physical measures to societal values, and which reinforces the deterritorialisation of informal regulatory practices in contemporary capitalism (Graz, 2006a, b).

Previous international political economy studies on product standards have provided evidence that the growing influence of international standards is promoted by twin conflicting claims. Broader international official standards such as those of the ISO and the growing market of private consortia standards compete with each other in attempts to substitute their power for traditional public law and regulation of utilities This reflects conflicting perspectives on the definition and the role of standards. Rather than a public/private, or state/market divide, we are looking at a rift between those who favour a commodification of narrow technical standards defined within industrial consortia, and advocates of further socialization of socalled technical specifications developed by professional associations and standard-setting bodies (Brunsson, et al., 2000; Egan, 2001b; Graz, 2004; Mattli, 2001; Murphy and Yates, 2009; Tamm Hallström, 2004).

In exploring why and how standards matter in offshoring services, the remainder of this paper probes the extent to which the rise of service standards deviate from accounts focused on national institutional environments and industry specificities, as well as from international political economy studies of product standards that stress the ongoing political struggles underpinning the competing definitions of market requirements included in international standards. To this end, the next section presents our findings on the case of international standards used in the Indian BPO sector.

#### The rise and range of standards in Indian BPO sector

In India, as elsewhere, services provided by customer relations centres vary widely, whether their prime target is a mass market and the general public or higher value-added services performing distinct business-to-business tasks on a contract basis. As mass market call centres handle a large proportion of all customer-company interactions, the level of satisfaction with the services they deliver strongly influences the revenues of such companies. As KiJu et al. argue (2008: 269), "to provide a high quality of service and to achieve customer satisfaction, call centers are being managed and monitored through a number of key performance indicators (KPIs)". Compared to outbound call centres targeting a mass market, the higher grade inbound call centres responding to specialised demands from customers and

business partners make greater use of sophisticated customer relationship technologies. This phenomenon is likely to be reinforced by the recent growth of a large range of complex ITeS-BPO services. As emphasized in a business report on the international perspectives of the industry, "levels of standardization and the quality of jobs are typically much lower in mass market centers than in business-to-business centers" (Holtgrewe, et al., 2007: 7). Quality requirements in mass market centres typically hinge on standardised performance metrics such as call handling times, rates of failed call, and numbers of customers per employee per day.

What standards then are used across the Indian service offshoring industry to disaggregate repeatable and measurable tasks on a reliable basis at the global level? And more precisely, is there a distinct feature in the types of the standards most commonly used according to the nature of the industry and the specific tasks performed by the firms reporting the use of such standards?

Table 1 presents the range and core attributes of quality and security standards most widely used in Indian customer centres and ITeS-BPO companies. While some standards originate from official standardisation bodies such as the International Organisation for Standardization (ISO) and the International Electrotechnical Commission (IEC), others emanate from bodies whose constituencies are more private-oriented as well as from strictly private companies or consortia. Conventional international quality management standards such as ISO 9000 series, ISO/IEC 20000 (quality of management and delivery of IT services) and ISO/IEC 27001 and 27002 (IT security standards and catalogues of best practices) are common in the industry. Standards developed by the Software Engineering Institute (SEI) located at the Carnegie Mellon University – a private American campus – are widely used as well. The Capability Maturity Model Integration (CMMi) is the latest product of the SEI suite. A remarkable aspect of CMMi standards and other products of the same suite is that the Software Engineering Institute which defines those standards is an official research and development centre of the United States government, under the authority of the Office of the Under-Secretary of Defence for Acquisition, Technology and Logistics. While ISO management standards are official standards, relatively broad, with no detailed implementation guidance against which assessing conformity by third party certifiers, CMMi is a detailed management model of over 700 pages with quantified capability and maturity targets.

Besides ISO/IEC and SEI standards, service offshoring in India relies on tools specifically dedicated to call centres and customer relation services and on a flurry of management methodologies fiercely competing for the lucrative market of business processes certification. COPC (for customer contact centre operations), eSCM (for quality performance in outsourcing), COBIT (another framework for IT management), Six Sigma (a metrics for targeting defect ratios) or SAS 70 (an auditing standard for service reporting) are the most widely used.

Table 1: Quality and security standards in Indian service companies

Standard Name	ISO 9000s	ISO 27001/2 ISO 17799	ISO 20000	SW-CMM	РСММ	СММі	eSCM-SP	COPC 200 0	Six Sigma	СОВІТ	SAS 70
Scope	Quality Management system	Security Management system	IT service quality management	Software Capability Maturity Model. Management technique	People Capability Maturity Model. Software- focused on workforce developm- ents	Capability Maturity Model Integration. Software management technique. Replaces SW- CMM	eSourcing Capability Model for Service Providers	Performance management framework for customer service providers	Management methodology initially based on metrics targetting defects in IT manufactur- ing	Objectives for	Statement on Auditing Standards – Service Organizations
Funding	Public + Private	Public + Private	Public + Private	Private + Public	Private + Public	Private + Public	Private	Private	Private	Private	Private
Standardi- sation body	BSI> ISO	BSI> ISO	BSI> ISO	Software Engineering Institute	Software Engineering Institute	Software Engineering Institute	IT Services Qualification Center	Customer Operation Performance Center	Motorola coporate university	IT governance Institute (ITGI)	American Institute of Certified Public Accountants (AICPA)
Umbrella organisation or company	ISO	ISO	ISO	Carnegie Mellon University and US Department of Defense	Carnegie Mellon University and US Department of Defense	Carnegie Mellon University and US Department of Defense	Carnegie Mellon University	Private company	Motorola	Information Systems Audit and Control Association (ISAC)	American Institute of Certified Public Accountants
Release date	1994: ISO 9000 2000: ISO 9001:2000	2000: ISO 17799 (since 2007 ISO 27002) 2005: ISO 27001	2005	1990: Version 1 2003: Suppressed	1	2000: Version 1.0 2002: Version 1.1 2006: Version 1.2		1995	Started in early 1980s	1996: COBIT 1 2005: COBIT 4	1993
Geographic Origin	UK> Global	UK> Global	UK> Global	USA	USA	USA	USA	USA	USA	USA	USA

Source: Nasscom Strategic review 2007, interviews and compilations by the authors.

Thus, quality and security standards provide crucial tools without which the offshoring of service activities previously located in developed countries would, for the most part, have been unlikely. Standards contribute to overcoming the conventional resistance to relocation conveyed by such characteristics. As Dossani and Kenney (2007: 775) suggest, they helped "business decision makers [to] be persuaded that offshoring was an acceptable strategy or 'legitimate' [...] by proving that there were appropriate levels of security and sufficient assurances of business continuity. [...] The point was to create the perception that moving one's service operations to India was not 'unusual' or 'risky', but rather was part of a normal business model." BPO pioneers of India as well as the younger generation of quality managers in charge of operations share this view: Raman Roy was associated with the development of the COPC standard for customer centres right from their start; Sudeep Banerjee, President for Enterprise Solutions at Wipro, the third largest Indian IT-ITeS company, equates standards to calling cards: "Wipro could claim

being able to implement all sorts of quality standards at world level, even if those standards were not written by us (personal communication, Bangalore, February 12, 2008). Satya Gopal Kallluri, Vice President for Customer satisfaction and performance management at 24/7 Customer in Bangalore, explained to us that "24/7 started its operation by getting certification in COPC, ISO 9000, ISO 27001 (...) credibility was gained through certification" (personal communication, Bangalore, February 13, 2008). An operational manager for an Indian call centre responding to Orange customers in the UK furthermore explained to us that "standards are important because they allow us to promise to our customers high efficiency in terms of sales and measure customer satisfaction in different ways" (Operational Manager, personal communication, India, Gurgaon, February 6, 2008). It is not surprising, then, that the Indian IT and BPO industry is notoriously known for including the largest number of quality certifications achieved by any single country: "over 440 Indian companies had acquired quality certifications with 90 companies certifies at SEI CMM level 5 - higher than any other country in the world" (NASSCOM 2007: 99).

Table 2 presents in more detail which companies use which quality and security standards. The dataset includes all top 15 Third Party Indian BPO players (as of 2006), most top 15 IT Software & service exports companies of India (as of 2006; companies not registered in India such as Accenture or Microsoft excluded) and a sample of top and smaller call centres, customer relations companies and back office providers. The table provides evidence of the range of standards used in the desegregation process required for outsourcing the provision of distinct services. All reflect a form of neo-Taylorisation in service outsourcing. ISO 9001, 20000 and 27001/2 are used as incentives for stereotyped behaviour and information circulation denying the specificity of a given relational intensity in the service provided. Moreover, the table suggests that narrow performance standards and technical specifications of the industry will be privileged by companies at the lower end of the value chain, mostly involved in basic customer services performed by relatively basic call centres. In contrast, ITeS-BPO services located at a higher end of the value chain will use a much larger range of specifications. The findings of the table are well illustrated by the pride of Sudeep Banerjee, President of Wipro Enterprise Solutions, in claiming that his company is "ready to adopt all leading standards" (S. Banerjee, personal communication, India, Bangalore, February 12, 2008). Finally, it should be noted that contrary to what would be expected from an international political economy approach stressing conflicting definitions of market requirements along different types of standards, those listed in Table 2 hardly include any form of participatory involvement of either services providers and consumers in defining more socialised and progressive forms of quality and security market requirements.

Table 2: Quality and security standards used by top Indian service companies

Company name	Specialisation	Iso	Sei cmm	Sei Pcmm	COPC	Others
24/7 Customer	Call center/customer relations/back office	ISO 9002 BS 7799			COPC	Six Sigma
Aegis BPO Services	ITeS-BPO					Six Sigma
Allsec Tech	Call center/customer relations/back office	ISO 9001 :2000 ISO 7001 :2005 ISO 27001: 2005				SAS 70
Astron	Call center/customer relations/back office	ISO 9001 :2000				
Brigade	ITeS-BPO	ISO 9001:2000 ISO 27001:2005				Six Sigma
CMC Limited	ITeS-BPO	ISO 9001:2000	SEI CMM Level 5 CMMi level 5	PCMM level 5		Six Sigma SAS 70
Cognizant Technology Solutions	ITeS-BPO	ISO 9001 :2000 ISO 7799	SEI CMM Level 5 CMMi level 5	PCMM level 5		eSCM
Convergys	Call center/customer relations/back office	ISO17799:2000 BS 7799			COPC	
		ISO 9001 :2000				
Datamatics Technologies Limited	ITeS-BPO	ISO 27001 BS 7799	SEI CMM Level 5 CMMi level 5	PCMM level 5		Six Sigma SAS 70
EFunds Corporation	Call center/customer relations/back office		SEI CMM Level 4			Six Sigma
EXL Services Holdings	ITeS-BPO	ISO 9001:2000 ISO 27001			COPC	OHSAS 18001 Six sigma
Genpact	ITeS-BPO	ISO 9001:2000 ISO 27001 BS 15000 BS 7799	CMMi Level 5		СОРС	
GTL	Call center/customer relations/back office	ISO 9001 :2000 ISO 14001: 2004	CMMi Level 5			SAS 70 Six Sigma
HCL Technologies	ITeS-BPO	ISO 9001:2000 ISO 20000 ISO 27001 BS 15000 BS 7799	CMMi Level 5		СОРС	Six Sigma
Hinduja TMT	Call center/customer relations/back office	ISO 9001:2000 BS 7799	SEI CMM Level 4			Six Sigma
IBM Daksh	ITeS-BPO	ISO 9001:2000 ISO 20000 ISO 27001 BS 15000 BS 7799	CMMi level 5		СОРС	eSCM
FirstSource (ICICI OneSOurce)	ITeS-BPO	ISO 20000 ISO 27001 BS 7799			COPC	Six Sigma
FLex solutions	Customer relations/back office/IT	ISO 27001 ISO 17799	CMMi level 5			SAS 70 CoBIT
GATE		ISO 9001 BS 7799	CMMi Level 5			SAS 70 CoBIT Six Sigma
nfosys BPO	ITeS-BPO	ISO 9001:2000 ISO 20000 ISO 27001 BS 15000 BS 7799			СОРС	Six SIgma SAS 70 eSCM TR 19:2005
ntegreon	Call center/customer relations/back office	ISO 9001 :2000 BS 7799				Six Sigma

Table 2 (continued)

•	•					
Intelenet Global Services	ITeS-BPO	ISO 27001 BS 7799 BS 15000			СОРС	Six Sigma
MphasiS BBPO	ITeS-BPO	ISO 9001:2000 ISO 27001:2005	CMMi Level 5			Six Sigma SAS 70
Nipuna services	ITeS-BPO	ISO 27001				Six Sigma SAS 70
Patni Computer Systems Industries	Call center/customer relations/back office	ISO 9001 :2000 ISO 27001:2005	CMMi Level 5	PCMM Level 3		Six Sigma
R Systems	Call center/customer relations/back offic	ISO 9001 :2000 ISO 27001:2005	CMMi Level 5			
Satyam Computer services	ITeS- BPO	ISO 9001 ISO 17799	CMMi level 5	PCMM Level 5		eSCM Six Sigma
Sutherland Global Services	Call center/customer relations/back office	ISO 9001 :2000 ISO 27001:2005		PCMM Level 5	СОРС	Six Sigma
TCS BPO	IteS- BPO	BS 7799 ISO 9001 ISO 27001:2005 ISO 20000:2005	CMMi Level 5	PCMM Level 5		
Trac Mail	Call center/customer relations/back office	ISO 9001 :2000				Six Sigma
TransWorks Information Services	Call center/customer relations/back office	ISO 9001:2000 BS 7799			COPC	Six Sigma
Vee Insure	Call center/customer relations/back office	ISO 9001 :2000 ISO 27001:2005				
Wipro BPO	ITeS-BPO	ISO 9001:2000 ISO 27001	CMMi level 5	PCMM level 5	COPC	Six Sigma
WNS Global Services	ITeS-BPO	ISO 9001:2000 ISO 27001			COPC	Six sigma SAS 70

Sources: Nasscom Strategic review 2007; Securities and Exchange Commission; Companies' websites; Global Services, OSourcebook 2007: A Directory of Global Outsourcing Providers; interviews and compilations by the authors.

Fragile initiatives confronting the ascendancy of neo-Taylorist standards have, however, begun at the local level. For instance, ASK-Verité, an Indian not-for-profit organisation, has recently launched a multi-stakeholders dialogue for promoting CSR standards in the IT Electronics Sector (Personal communication). Yet, as PD Jose, Professor at the Indian Institute of Management, Bangalore, notes, "BPO companies are not doing much on the CSR side. Large companies such as Infosys do CSR indeed, but they are not BPO companies as such, only have BPO operations within them" (personal communication, Bangalore, February 12, 2008). While health and safety, energy, environment, security are central issues in this regard, importance will increasingly be given to problems such as what PD Jose calls 'deskilling' – a process in which the relatively high salaries of the BPO sector work as a disincentive for future training of young graduates. Moreover, a small, but emerging labour movement is trying to organise the BPO and IT workforce at the bottom end. Collective agreements negotiated by Unites Professional, an Indian labour union affiliated to the international umbrella organisation Uni Global, may eventually counterbalance the virtually unchecked authority of neo-Taylorist standards in the industry. As Karthik Shekar, General Secretary of Unites Professional, argues, "managers bring in fancy jargon like CMMi and the like, the middle management, with western culture education, but deeply Indian, ends up

totally confused. Call it pcmm-3, but it's just a matter of how people work and the reality on the ground is completely different. [...] There is never the proper time for a real quality check and a lack of trained middle manager to implement it" (K. Shekar, personal communication, India, Bangalore, February 13, 2008). Furthermore, neo-Taylorist standardisation of security requirements has begun to prompt a fierce debate following recent moves by Nasscom, the Indian association of IT professionals, to upgrade security standards in the industry with important consequences on privacy and freedom of movement for the 2 million or so young graduates who make up the bulk of the Indian IT and BPO workforce. Finally, several Indian business executives and standardisation officials are determined to overcome the dominance of US-imported Taylorised standards initially conceived for IT manufacturing and basic service outsourcing within the US. The absence of industry-wide standards specifically dedicated to the BPO sector is identified as a typical case in this regard. The situation inherited from the US first-mover statute in outsourcing services is expected to generate difficulties for further consolidation of the sector in India. As Rama Mohan, Head of Business Transformation Group at Infosys BPO, explains, " (...) for the whole BPO industry (...) all standards adopted are global standards, with no Indian origins (...) there is a need for the Indian model to become a new global model, in which the Indian perspective could be brought" (personal communication, Bangalore, February 11, 2008). Rakesh Verma, additional Director General of the Bureau of Indian Standards, shares this view by emphasising that they "are bothered that standards are imposed; BPO industries in India should become standards makers and make the standards themselves instead of taking them" (personal communication, New Delhi, February 6, 2008). Similarly, Raman Roy believes that "India has to take the lead. Carnegie Mellon University set business processes standards for IT, Nasscom should do the same for BPO, with, for instance, Nasscom standards level xyz. That kind of standardization is now critical for our growth rate targets" (personal communication, India, Gurgaon, February 8, 2008). Though fragile, such views and early initiatives on CSR standards provide scattered evidence of a growing dissatisfaction with neotaylorised standards and a shared support for standards better involving service providers and consumers alike in defining quality and security requirements with some sort of state or regulatory backing.

#### Conclusion

This paper has examined the rising Indian service industry in customer centres and business process outsourcing as a case study on the role played by the development of international standards in the much-debated globalisation of the service economy. Our findings suggest that standards matter even in intangible and relational service outsourcing identified as most unlikely to be standardised. While this finding deviates from studies assuming an industry specificity expected to either support or hinder service standardisation, the nature of the activities still matters in defining the range of standards used, notably according to the position in the value chain of the tasks performed. Even so, it often remains difficult to differentiate between solutions advertised by customer-relations and BPO companies and the bulk of actual services they deliver. The high-end solutions standardised by sophisticated management techniques reflect the core attributes of intangibility and relational intensity seen as a major hindrance to standardisation by institutional accounts referred to in this paper. Yet services delivered by those same companies are often much more basic, such as data mining, screening, digitising, and processing. Those tasks involve more materiality and less relational intensity; they do not embody the core attributes identified by institutional economists to

explain why some services are more likely than others to be standardised, industrialised, outsourced and offshored. Further differentiation of services under review would be needed to better correlate the rise of standards and core attributes of services concerned.

Our findings suggest that standards used in the Indian BPO industry are rarely disputed. Almost all of them rely on neo-taylorised management techniques. This finding differs from studies in international political economy that emphasise power configurations opposing divergent definitions of market requirements set by standards. It is possible that neo-Taylorised standards span such a wide range that they do reflect divergent definitions of market requirements. The approach remains relevant, however, to highlight the social impact of standards and their potentially contested power as clearly demonstrated by early initiatives opposing neo-Taylorised standards. Simultaneously, these favour progressive forms of standardisation more likely to include workers', consumers', and environmental concerns into account. An international political economy perspective on service standardisation thus provides a valuable tool for going beyond marketing and management choices to analyse conflicting definitions of market requirements in the internationalisation of services.

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