17 ICT, POWER, AND DEVELOPMENTAL DISCOURSE: A CRITICAL ANALYSIS

Mark Thompson
Judge Institute of Management
University of Cambridge
Cambridge
United Kingdom

Abstract

This paper uses critical discourse analysis to demonstrate how information and communications technology (ICT) has become deeply involved in the conception and practice of socio-economic development within so-called less-developed countries (LDCs). A recent speech on ICT by the president of the World Bank Group is examined, showing the role of the discourse surrounding such technologies in replicating and extending a markedly North American worldview into the developmental sphere. The ability of critical discourse analysis to expose the involvement of ICT in normalizing a dominant set of political and economic assumptions confirms its usefulness as a tool with which to approach the critical study of information systems.

1 INTRODUCTION: DEVELOPMENT AND ICT AS CONTESTED DOMAINS

This paper has two aims: to draw attention to the dual role of information and communications technology (ICT) as both the medium and the subject of discursive power relations, and to demonstrate the usefulness to information systems (IS) researchers of an adapted form of critical discourse analysis in identifying and exposing this relationship in their own fields of study. In seeking to achieve these aims, a highly problematic discursive domain has been

chosen for discussion: the field of *development*, which, with its almost unique ability to define others, identify their problems, and to legitimize professional intervention in their daily lives, has proved a particularly rewarding subject in the 1990s for critical analysis. The paper is organized simply. The introduction provides a brief summary of why development should, perhaps, be surrounded by quotation marks, together with a short account of the increasing role played by ICT in mediating developmental discourse. The main section then explains critical discourse analysis, shows how it has been adapted here to provide an arguably powerful framework for a critical paper, and then demonstrates this method, through detailed analysis of parts of a recent speech on the subject of ICT by a key proponent of development: the president of the World Bank. Finally, the conclusion provides some reflections on the likely usefulness of such an approach for those seeking to problematize the discursive role of ICT within other domains.

1.2 The Discourse of Development

Following Foucault, who defined discourse as "the interplay of the rules that make possible the appearance of objects during a given period of time" (1972, p. 33), various recent critical writers on development have used the theoretical relationship between power and knowledge addressed by discourse analysis to attain "a radical reading of subjectivity in the sense that through discourses individuals become subjects" (Mohan 1997; see also Said 1978). In questioning the legitimacy of the developmental professional *gaze* (Sachs 1992) to define and thus subjectify recipients of aid, critics of development have highlighted instead the importance of situated, local knowledge as opposed to the representational knowledge of professionals (Chambers et al. 1989; Hobart 1993; Long and Long 1992; Pottier 1993), but stressed that, all too often, it is the latter which, as legitimate discourse, comes to shape developmental interventions (Gardner and Lewis 1996).

Perhaps the most influential contribution to the post-structuralist critique of development has been that of Escobar (1995), whose Foucauldian Encountering Development is an often angry description of the way in which the problematization of poverty and development have coevolved within development discourse. In a clear demonstration of the way in which discourse creates and sustains relations of power, Escobar describes the "discovery" of poverty by the West in the post-war period; the transformation of the poor into the assisted; the associative linking of philanthropy with morality, and poverty with degeneracy; the invention of development as a response to this object; the explicit (latterly implicit) assumption of linear evolution along a Western

trajectory; the theorization of technology as a sort of moral force, and the growth, professionalization and institutionalization of expertise about the Third World. In Escobar's view:

Development was...the result of the establishment of a set of relations among these elements, institutions, and practices and of the systematization of these relations to form a whole (1995, p. 40).

As a result.

The forms of power that have appeared act not so much by repression but by normalization...the construction of the poor and undeveloped as universal, preconstituted subjects, based on the privilege of the representers (1995, p. 53).

As a set of relations which objectifies and structures marginality and thus arguably reproduces networks of power, development is thus a particularly fitting subject for discourse analysis (Dahl and Hjort 1984).

1.2 ICT as Mediator and Subject of Developmental Discourse

There is, moreover, a compelling case for examining the growing part played by ICT in shaping how the discourse of development achieves such a structuring of marginality. This increasingly important involvement occurs on two levels. The first level involves the role of ICT as mediator of developmental discourse; this forms the subject of the remainder of this introductory section. Having gained an awareness of ICT's role as mediator, it is hoped that the reader will then be in a position to appreciate the implications of ICT's second level of involvement in development, which forms the focus of the critical discourse analysis in this paper: as a form of developmental discourse itself.

ICT works to mediate developmental discourse at both macro- and micro-levels. At the macro-level, ICT is structurally integrating communities into wider, uneven networks of power. Although usually remaining on the periphery of flows of knowledge and wealth, less-developed countries (LDCs) are none-theless integrated involuntarily within global networks of capital, production, trade, and communication, increasingly mediated by ICT (Castells 1997, 1998). This recognition has resulted in the inclusion of such technologies as important elements of developmental strategies and interventions (e.g. Gillespie and

Cornford 1997; UNCTAD 1997; UNESCO 1996), and unprecedented levels of investment in ICT by major developmental donors, often at the expense of alternative forms of initiative (Jensen [2001] provides a useful summary of some recent investment figures). The discourse surrounding the appropriate use of ICT in LDCs is thus becoming part of developmental discourse itself, as macrolevel developmental policy options are becoming increasingly linked to the shape of technological evolution (Perez 1988).

At the micro-level, the power relations surrounding the development and use of ICT in developmental contexts are more ubiquitous. In the words of Bloomfield and Coombs (1992):

information system embodies a particular *view* or *model* of the world...thus in contrast to the earlier views of computers and power, we must shift our focus...to consider the *meaning* of information systems, the visibilities...whose creation and mobilization they make possible within organizations...and thus their role in classifying, ordering, and constructing reality (1992, p. 467, emphasis in original).

Rather than being inherently top-down in nature, the operation of power within ICTs in the above sense lies in their mediation of the contested domain of what becomes visible and real. Within the developmental environment, this entails an especial danger, since

The computer evolved overwhelmingly in the West in a manner compatible with Western mentality, cultural and political values. When IT is injected into cultures such as those of North Africa, it comes loaded with an embedded virtual value system (Danowitz et al. 1995, p. 28).

Although in any emergent worldview, "technology is the machine's relationship with its users" (Grint and Woolgar 1997, p. 92), and thus there can be nothing essentialist about the nature of this relationship (see, for example, the variety of examples of such relationships established within LDC contexts in Avgerou and Walsham 2000), there is nonetheless a danger that in its role in mediating what, and how, aspects of development become visible, the *frozen discourse* of ICT may assist in replicating a wider discourse of marginalization unless there is real sensitivity to the ICT-user relationship within LDC contexts (Avgerou 2000; Bhatnagar 2000; Smithson and Land 1986). Perhaps the most controversial current example of the ability of ICT to mediate developmental discourse is the World Bank's Global Development Gateway (www.

developmentgateway.org) launched in 2001. As a high-budget (\$7 million), high-profile project with further substantial funds already earmarked (Aslam 2001), the Gateway Foundation appears to be independent (as exemplified by its independent website address), yet is in fact funded and controlled by the Bank itself. The Gateway has been extensively criticized (Wilks 2001) for its attempts to normalize the entire developmental field according to the discursive categories of the Bank, its donors, and contractors.

The result has been a policy of non-cooperation with the Gateway by a growing number of developmental stakeholders. As an example, the South African Non-governmental Organization Network, Congress of South African Trade Unions, and South African Non-Governmental Coalition issued a statement in 2001 that they "firmly and unequivocally" declined to participate, claiming:

While the Development Gateway purports to promote local community organizations and their information *initiatives*, its true intention is to control the development information discourse to promote its own particular perspectives" (Aslam 2001).

Such critics argue that the World Bank's attempt to harness ICT to present one, neutralized, reality of development is crowding out, unfairly competing with, and thus defunding the alternative realities of others, who reject their objectified, or alternative status vis-à-vis the mainstream (Said 1978); in any event, the Gateway is a powerful example of the increasingly perceived importance of ICT in mediating developmental power relations. In seeking to demonstrate how the discourse leading to such initiatives is legitimized and replicated in practice, the approach chosen has thus been a critical analysis of sections of a recent speech on ICT and development given by the Bank's president.

2 CRITICAL DISCOURSE ANALYSIS OF A SPEECH ON ICT BY THE PRESIDENT OF THE WORLD BANK

In the previous section, it was explained how ICT acts at both macro- and micro-levels to mediate relations of power in developmental discourse. As befits a critical standpoint, therefore, the structural motivations of the author regarding the proposed discourse analysis have first been explained to the reader. It is hoped as a result that the examples below of the replication of such discourse in practice at the micro-level, where ICT becomes a strand of developmental discourse itself, will emerge clearly to the reader.

2.1 Methodology

The methodology adapted for the purposes of this paper is Fairclough's critical discourse analysis, or CDA (Fairclough 1995a, 1995b, 1999), which locates social structures within a dialectical relationship with social activities. Politically, therefore (addressing the *critical* part of the method), "connections between the use of language and the exercise of power are often not clear to people, yet appear on closer examination to be vitally important to the workings of power" (Fairclough 1995b, p. 54), while methodologically (addressing the discourse analysis part of the method), "texts constitute a major source of evidence for grounding claims about social structures, relations, and processes" (Fairclough 1995a, p. 209). In fusing power with semiotic activity (a wider category than straight linguistics), CDA views texts as examples of wider discourses, thus blending the approaches to discourse of social theorists such as Foucault (1972) with linguists such as van Dijk (1985). In doing so, CDA differs from purely linguistic approaches to discourse analysis which might, for example, focus in the first instance on constructions such as phonology, morphology, syntax, semantics, and pragmatics (van Dijk 1988).

As might be expected of a critical approach to discourse, CDA seeks to link texts at a micro-level (the *textual level*) with macro-level power structures (*sociocultural practice*) which, in drawing upon discourse, such texts reproduce. In CDA, *discursive practice* is thus the mediator between the macro- and micro-levels, as shown in Figure 1.

The activities in bold on the right of the model represent the framework of analysis, in which a piece of text is described, and then the discursive practices upon which it draws are identified, and linked to the underlying power relations which may be reproduced by the interaction. In selecting pieces of text, CDA draws on Bakhtin's concept of *utterance* (Bakhtin 1981 in Holland et al. 1998, p. 173), a temporarily performed and unique configuration of context, subject positions, and meaning between interacting, *dialogical* people—although, as Goffman (1981, p. 38) has pointed out, audiences for political speeches are usually preratified and thus more favorable reactions may be expected by the speaker (this may explain the use of confidence as a speech genre, as will be seen below).

In selecting sections of a speech for analysis, the analyst therefore looks for identifiable configurations of discursive practice (references 1 through 16 in the text) consisting of discrete, unique utterances, or combinations of idioms, references, inferences or phrases within a particular order of discourse, such as development. In identifying these configurations, Fairclough (1995a) further distinguishes between generic "speech genres," or linguistic devices, that apply horizontally across various orders of discourse (which any researcher, for example, might be likely to find when performing CDA in other domains), and,

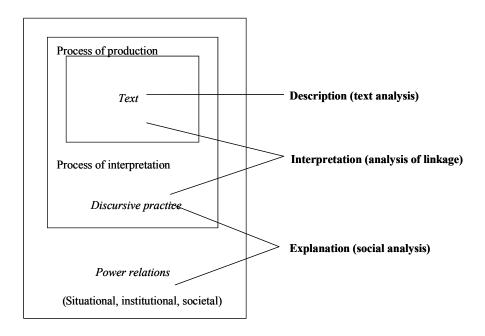


Figure 1. Dimensions of Discourse Analysis (Adapted from Titscher et al. 2000)

Speech Genre (SG)	Discursive Type (DT)
1 Confidence ^a	1 Technocracy
2 Factual information	2 Legitimacy
3 Humor	3 Neutrality
4 Persuasion	4 Corporatism
	5 Tech(nological) optimism
	6 Pragmatism
^a Please note that this term is the between people.	used in the sense of "something confided

Figure 2 Speech Genres and Discursive Types Identified in this Analysis

by contrast, "discursive types," or themes, formations which are vertically identifiable as part a particular order of discourse and which are likely to remain specific to a particular domain of study. By way of illustration, although all of the categories listed in Figure 2 derive directly from the text, all of the speech genres are common components of everyday conversation, whilst the discursive types listed are likely to be familiar to most interpretive IS researchers. As will

be seen in the analysis, it is the mixing of (often contradictory) speech genres and discursive types that provides units of discursive practice, and hence discourse, with its unique power.

In the analysis which follows, genres and discursive types were identified from the text using a semi-grounded approach, where data was separated into first- and second-order concepts (Orlikowski 1993; Van Maanen and Barley). Thus recurrent devices and themes were first identified, then reduced upon repeated readings to the higher-level concepts shown in Figure 2. It should be acknowledged that, in common with all semi-grounded approaches involving the identification and distillation of recurrent themes, this exercise inevitably involves subjective judgements on the part of the researcher performing this activity and, as a result, there can be no definitive analysis of a piece of discourse.

However, the inevitably subjective nature of such judgements is offset to some degree by the tabular format in which the analysis of the text has been presented, which represents a departure from previous applications of CDA. In addition to reasons of clarity, the intention of this format is to place both author and reader in exactly the same position to interpret the text, thus actively supporting the development of independent judgements concerning the analysis (although it should be admitted that the author actually attended the speech). Thus a direct link can be traced from the source material (text column), through the initial identification of units of discursive analysis (ref column) and description of these (description column), to the derivation of speech genres and discursive types (interpretation column), through to the macro-level power relations which, it is proposed, are replicated or altered as a result (the explanation column). This format thus has the almost unique advantage within interpretive social enquiry of presenting the reader of a paper with a complete set of all of the analytical materials that were originally at the disposal of the author.

2.2 Analysis

The source text for the critical discourse analysis below, of which approximately 50 percent has been selected, was given by James D. Wolfensohn, President of the World Bank Group, to an audience of both academics and nonacademics at Cambridge University on June 24, 2000. It is entitled "New Possibilities in Information Technology and Knowledge for Development in a Global Economy" and is available on the Web (http://www.worldbank.org/html/extdr/extme/jdwsp062400.htm). Readers are encouraged, if possible, to view the text in its entirety, in order to place the selections below within their proper context. The analysis of selected units of discursive practice is divided into four sections

reflecting the structure of the speech, which I have termed Introduction, Role of ICT, Initiatives, and Initiatives and Conclusion. Each section of analysis is supported by a corresponding section of commentary.

It is suggested that the reader approach the analysis of the speech section by section, first reading the text column in the table, then the short narrative commentary which follows over the page, followed by a return to the analysis columns of the table, before proceeding to the next part of the text.

2.2.1 Introduction

In their analysis of a political speech by a Spanish Secretary of the Interior legitimating the expulsion of African illegal migrants, Rojo and van Dijk argue:

The crucial element in most forms of social and political legitimation is that a powerful group or institution...seeks *normative* approval for its policies or actions....In such legitimating discourse, institutional actions and policies are typically described as beneficial for the group or society as a whole (1997, p. 528).

Whether or not this is intended by the speaker (this knowledge is, of course, not available to either author or reader), the introductory part of the speech establishes, or replicates, the legitimacy of the position of the World Bank as an (implied) leader within development, a position which will be required as a platform for the legitimation of a particular view of ICT later on. Recalling Escobar's comments earlier regarding the co-emergence in discourse of poverty and development, we can see the rapid establishment of a set of normative relations between these two key elements of developmental discourse. Hence the link column of the analysis shows the emergence of legitimacy (the appeal in Ref 4 to a higher order need for intervention), and technocracy (the assertion of expertise in Ref 1). These two discursive types can be seen as core components of the wider order of discourse underpinning, or replicating, the Bank's position in development. Rojo and van Dijk continue:

If successful, legitimation not only implies the endorsement of specific actions, but usually also extends to the dominant group or institutions themselves, as well as to their position and leadership. This means that legitimation has both a top-down and bottom-up direction (1997, p. 528).

2.2.1 Introduction

Ref	Text	Description (Text	Interpretation	Explanation (Social
IXCI	Text	Analysis)	(Discursive Practice)	Practice)
1	So let me suggest to you that you include both of our thinking in your	Establishment of	Technocracy (DT1)	Replication of Bank's
	observations on information technology because had Esther [™] not have	Bank's techocratic	Persuasion (SG4)	dominant status as
	been here I would have stolen a speech I heard her make two weeks	expertise credentials		development expert
	ago as my own. But Esther will give it to you and she indeed is one	for what is to follow		
	of the great experts on the subject in the world and I am glad that			
	she is here and you should be also.			
2	My vantage point on information technology is one from the	Unabashed	Establishment as	Open acknowledge-
	World BankAnd so I am grateful to Keynes for his guidance and	membership of		ment (and thus repli-
	his participation in those negotiations because it has created a job that	privileged group	and humorous:	cation of) legitimacy
	I am now involved in and so I want to thank you and my children		Confidence (SG1)	of Bank's position as
	want to thank you because of the very large salary I receive.		Humor (SG3)	highly paid
3	We at the bank as you know, and let me talk from that vantage point,	Aerial view of	Establishment of	Reassertion of
	are concerned with the issues of poverty in the worldJust to give	world-as-object	"poverty in the world"	developmental gaze;
	you the parameters—as a background of the challenge for informa-	Statistical possession		construction and
	tion technology—the world that I deal with is a world of 4.8	and command	intervention by qualified	normalization of poor
	billion people out of a globe of 6 billion people, and to give you		organization: Factual	as subjects (cf.
	some quick numbers 3 billion people live under 2 dollars a day		information (SG2)	Escobar in
	and a billion two hundred million live under 1 dollar a day.		Legitimacy (DT2)	introduction)
4	The other characteristic is that within countries the issue of equity or	Appeal to higher	Establishment of	Establishes a direct
	equitable distribution of resources is getting worse. The relationship	authority to	inevitable, pragmatic	link between the
	between the richest percentiles and the poorest percentiles are	legitimize Bank's		Bank and the prob-
	diverging such that the rich are getting richer and the poor are getting	mandate	of involvement:	lem, cutting out
	poorer, and that dynamic is what we are seeking to address, not as a		Factual information	detractors, and repli-
	question of charity or of social conscience but of world peace		(SG2)	cating legitimacy of
	And if you think in terms of peace, if you think in terms of equity, if			the construction,
	you think in terms of social justice or if you think in terms of self-		Persuasion (SG4)	normalization, and
	interest, this singular world is one where we are very dependent on		Pragmatism (DT6)	integration of the
	what happens in the developing world.			poor within the
				Bank's develop-
				mental framework

[†]Esther refers to a technology expert from the Bank who gave a presentation following that of Mr. Wolfensohn.

From the above perspective, it appears that in the introductory section of the speech, the speaker has, consciously or unconsciously, legitimated and replicated certain macro-level power relations in practice. As the macro (explanation) column of the analysis shows, the Bank has first reestablished its status as expert (Ref 1); and has then reaffirmed its legitimacy to be paid highly for this (Ref 2). Interestingly, however, Ref 2 is probably the point at which the speaker is most exposed, since he is unabashedly asserting claim to be paid highly in comparison to the development's subjects—some of whom, we later learn, exist on "under 1 dollar a day." Critical discourse analysis offers an explanation for the way in which this uncomfortable power relation is normalized in practice: the reassertion of an unpalatable (and fundamental) aspect of development is mixed with the speech genres of confidence, in which he appears to be confiding in, and thus inviting a personal, co-conspiratorial link with, his audience; and humor, in which the assertion is made in deliberately unacceptable terms, thus undermining serious objection.

By the beginning of Ref 3, the Bank appears precariously poised as a group of highly-paid experts with no object for their expertise, so the poor are quickly introduced (Ref 3) and normalized within the Bank's development paradigm, in which we first hear that ICTs are to play a major part. The two fundamental components of development discourse, the discursive types of technocracy and legitimacy, have now been established, but there remains one further important task: to place this newly established discourse (and hence newly replicated power structure) beyond the realm of questioning. In Ref 4, therefore, we hear not only that the problem is growing worse but that the Bank's intervention has a higher authority than "charity" or "social conscience" (whose underpinnings are, of course, ideological and thus open to question) but "world peace" itself. By the end of this section, the Bank is thus established as almost synonymous with development, and fundamental to the future of our world.

2.2.2 Role of ICT

Having reconstituted in the first section of his speech, the core elements of the discursive order upon which the hegemony of the World Bank rests, the speaker then builds, consciously or unconsciously, on this normative platform to outline, at a conceptual level, the Bank's underlying approach to ICT. However, before he is able to introduce this new, potentially disruptive, element into this newly established set of relations, it has to be neutralized and allocated its place within this set as an instrument of, rather than a threat to, Bank policy. Rather than attempt this directly (which would consciously highlight the potential contradiction in the minds of the audience), another, non-ICT-related, threat, Sen's *Development as Freedom*, is introduced and discussed in detail

2.2.2 Role of ICT

Ref	Text	Description	Interpretation	Explanation
5	Now why do I say that in the context of talking about	ICT as instrument of	Unproblematic	Replication of Bank's
	information technology? Because I believe that one of the	development and	treatment of role of	subjugation of tech-
	great potentials that we have in terms of addressing the	peace	ICT in development:	nology as instrument
	issue of development is the issue of the usage of digital		(DT5) Tech optimism	of technocratic
	technology and communications. Beyond the fundamental	Demonstration of	Factual information	developmentalism (as
	analysis of the problem, there have been many commentators	awareness of	(SG2)	opposed to its poten-
	and many distinguished economists in this community, the most	literature		tial in cultivating
	notable of them in recent history being Amartya Sen. Not just		Translation of Sen's	counter-networks)
	due to the lectures that he gave actually at the World Bank	Alignment of Bank's	different, concept into	
	based on his book <i>Development as Freedom</i> , but because also	traditional, structural,	structural categories of	Appropriation and
	from his previous writings and thought it is made very clear	top-down agenda	the Bank, thus	neutralization of
	that development is not just an issue of macro economics or	with Sen's freedom	neutralizing it:	Sen's newly pub-
	growth but it is an issue which engages all aspects of societal		Persuasion (SG4)	lished, potential
	development. You need to look at, in his terms, freedom,		Technocracy (DT1)	threat (with which
	and, in my terms, the structural issues and the quality of the		Legitimacy (DT2)	many of the audience
	legal system, the justice system, governments, the strength of		Neutrality (DT1)	would have been
	governments, the economics, financial supervisory systems,			expected to have been
	fighting corruption, longer term plans in terms of education, of			familiar), thus
	health, of rural strategy, urban strategy, environmental strategy,			replicating status quo
	and cultural strategy. All these things come together into a mix			
	of issues which alongside growth and macroeconomic policy			
	determine whether development will take place in an effective			
	and equitable way.			

Ref	Text	Description	Interpretation	Explanation
6	So why then talk about information technology. Does it	ICT do not disturb	Neutralization of	Emphatic alignment
	replace all this? Is it a short cut? Is it something that	the Bank's approach	potential threat of ICT	of technology with
	transforms the analysis? No, it does not. But what it does do	to development;	to Bank's position:	dominant corporate
	is to give you a tremendous opportunity of leveraging the	indeed, they merely	Persuasion (SG4)	terminology
	notion of the transfer of knowledge, of empowering people	leverage it	Neutrality (DT3)	
	and allowing you to achieve your objectives in terms of this		Tech Optimism	Reiteration of the role
	development paradigm in ways that were previously not	Expertcharts	(DT5)	of ICT as the neutral
	possible.	special knowledge		tool of the Bank
		available over this	Co-opting of corporate	
	And there the issue again breaks down into two elements: the	new system:	terminology:	Coevolution of
	technology itself which today permits communication in many	1 0	Corporatism (DT4)	poverty and develop-
	forms and, of course, the knowledge that goes with it. This is	cratization of		ment and tightening
	the knowledge that is shaped, that is available for transmission	problem, to which	Appeal to Bank's	of developmental
	over this new system and here Esther herself is an expert and	Bank possesses	expertise:	discourse at macro-
	had she not been here I would have told you about all the	expertise	Technocracy (DT1)	level
	charts she showed me the other day on the transmission of		Legitimacy (DT2)	
	normal knowledge into specially characterized knowledge			
	for this purpose but she is here so I cannot play it to your eyes			
	quite as easily as I normally do. But she might tell you			
	something about that.			

(Ref 5), neutralized, and then linked to ICT in Ref 6 (inference: ICT are also nonthreatening) in a technique which has been referred to as *masking* (Ng and Bradac 1993).

In the preface to *Development as Freedom*, Sen pays tribute to the speaker, "whose vision, skill, and humanity I much admire" (often a preface for criticism), before stating:

The World Bank has not invariably been my favorite organization. The power to do good goes almost always with the possibility to do the opposite, and as a professional economist, I have had occasions in the past to wonder whether the Bank could not have done very much better. These reservations and criticisms are in print (1999, p. xiii).

Moreover, almost in anticipation of others' future attempts to represent or normalize his work, Sen continues later in the same page:

...this work is presented mainly for open deliberation and critical scrutiny. I have, throughout my life, avoided giving advice to the "authorities." Indeed, I have never counseled any government, preferring to place my suggestions and critiques ...in the public domain (1999, pp. xiii-xiv).

In the attempt to neutralize the, in many ways, alternative developmental paradigm outlined in Sen's book, Sen is first linked to the World Bank (Ref 5) in a way that, from his above comments, he might surely have disapproved, and his ideas are represented as synonymous with Bank policy:

Not just due to the lectures that he gave actually at the World Bank based on his book *Development as Freedom* but also from his previous writings....You need to look at, in his terms, freedom, and, in my terms, the structural issues (Text, Ref 5).

By Ref 6, having attacked a less immediately relevant threat, the potential threat of ICT to the Bank's normative position is confronted *rhetorically*, i.e., from a position of consensual, dominant discourse (first sentence). But is the Bank making appropriate use of ICT? The Bank's expertise and mastery of ICT as a developmental tool remains to be established as a platform for later parts of the speech. In Ref 6, therefore, the speaker invokes a variety of discursive types (components of the development order of discourse) to show that this is the case. To the existing discursive types of technocracy, legitimacy, and pragmatism,

deployed in the Introduction, are added technological optimism, (the nonnproblematic linking of ICT to opportunity), and corporatism (the deployment, hence ownership of elements of dominant corporate discourse, such as "leveraging," "empowering," "objectives," and "knowledge"). We learn that "normal knowledge" is transmitted, mysteriously, into "specially characterized knowledge" and that, fortunately, we can rely on the World Bank for this.

2.2.3 Initiatives

Whether through unconscious habit or rhetorical mastery, by Ref 7, the speaker is now established in a strong position from which to discuss the Bank's ICT-related initiatives. Not only has he reconstituted the essential components of developmental discourse (recalling Escobar once again) and placed this relationship beyond ideological questioning by appealing to a higher legitimacy, but he appears successfully to have neutralized two independent, potential threats by representing them as integral components of the Bank itself. Finally, he has reminded us of the Bank's expert status in wielding one of these tamed threats, ICT, thus tightening its hegemonic control over those requiring "technologizing." A great deal of macro-level structure has thus already been drawn on (in discursive types) and replicated in the discursive order in a fairly short micro-level textual space.

In Ref 7, there is another interesting blending: the speech genre of confidence (an appeal, person-to-person, to the self-evidence of the Internet's potential, even to someone who "grew up without any facility for using Internet") with the harder discursive type of *technocracy*, which accompanies the announcement of his intention to use ICT to turn his organization into a knowledge bank (the Development Gateway was under construction at the time of this speech). A dramatic expansion of the Bank's mandate (recalling the discussion in the previous section) is thus presented unproblematically at the self-evident level of common sense. This theme is taken up again in Ref 10, where the Gateway itself is introduced at a generic level. Here, however, in contrast to the majority of the speech to date, the pronoun *we* is employed three times in the first two sentences to create an impression of consensualism using a common device:

...the way in which selectional choices made at the level of definite descriptions may manipulate the hearer's identifications by directing attention away from designated individuals towards some generic role or conceptual category (Wilson 1990, p. 77).

2.2.3 Initiatives

Ref	Text	Description	Interpretation	Explanation
7	I thought I might just tell you, not as a matter of theory, but as a	Concrete	Factual information	Attempted move
	matter of practice, what we have done in the last five years since	achievement	(SG2)	away from funder,
	I have had the privilege of running the Bank. Coming as I did, I		Pragmatism (DT6)	practitioner,and
	was someone, like many of you I suppose, who grew up without	Irrefutability at	Confidence (SG1)	evaluator of
	any facility for using Iternet, or using a computer, but very	common sense	Tech optimism (DT5)	development, to
	conscious of the fact that this was an extraordinary tool. Just let	level	Persuasion (SG4)	become central
	me give you a cameo of the last five years in our own institution.		Technocracy (DT1)	repository of
	The first thing I recognized is that it was not just money that was	Stakes claim to	Legitimacy (DT2)	development best
	important in development, and so I coined the phrase that we	financial and		practice itself;
	should not just be a money bank but a knowledge bank.	knowledge-		macro-level expan-
		related power		sion and control
8	The second thing which happened was that I went to Uganda on a	"Back yard,"	Confidence (SG1)	Elision of major
	trip and then came back to the United States to Wyoming where I	person-next-door		contextual
	have a small place. The local chamber of commerce had been	approachability	Equation of kids in U.S.	differences has
	after me to make a speech for a long time I said "why don't we		school with kids in	produced a norma-
	link the Jackson Hole High School with the Uganda High	Invitation to	Uganda (kids is an	tized view of
	School that I just saw, and we can do it by Internet and wouldn't	equate a U.S. high		cooperative inter-
	it be fun for the kids of Jackson Hole to know something about	school experience	construction); hence	action between kids
	Uganda "; but of course very few people in the audience knew	with that of a		of the world;
	about Uganda, I might say, and I can assure you that none of the	Ugandan school	cultural inequities:	inappropriate use of
	kids in Uganda knew about Jackson Hole, Wyoming.	(rebadged as a	Neutrality (DT3)	kids to represent the
		high school in	Legitimacy (DT2)	experience of many
	These two schools were linked and that was the start of a	U.S. terms);	Persuasion (SG4)	children in LDCs;
	program which we call World Links which now has 35,000 kids	equivalence of	Pragmatism (DT6)	subjugation of non-
	linked in the south and the north. Inuit kids from Canada are	national level	Tech optimism (DT5)	Western experience
	working with kids in Latin America; kids in France dealing	LDC school with		to Western
	with French Colonies in the continent of Africa; kids in	U.S. regional		discursive categories
	Madrid dealing with Spanish speaking countries and so on.	school		

Ref	Text	Description	Interpretation	Explanation
9	By the wayin Africa we use wind-up radios—radios that you	"We" use wind-up	Legitimacy (DT2)	Further elision of
	wind a little crank for two minutes and then you have two hours of	radios in Africa		contextual
	playing— and we were using that for teaching as well.			difference to
				legitimize position
10	and then we started to think a little beyond that. And we thought	Beginning of	Neutrality (DT3)	Extensively
	well now we could bring together the experience in a better way	Global Gateway	Tech optimism (DT5)	criticized as attempt
	than we have done beforein terms of a global development	(see macro-level		by Bank to establish
	networkwhich is linked by internet so that the experience	analysis in		hegemony over
	and the knowledge of people in technology becomes available	previous section)		development
	from the north to the south, from the south to the south, from			discourse on the
	the south to the north, etc. This is in the works.			Net: see previous
				section

However, it is arguable that the most blatant example of the inappropriate use of the collective pronoun within the speech appears at Ref 9, where the speaker comments: "...in Africa, we use wind-up radios" (emphasis added). This comment illustrates a more important point than the simple absurdity of the President of the World Bank Group using wind-up radios in Africa: the tendency of dominant discourse to define, yet assimilate and normalize, otherness, downplaying often major differences in socio-economic and cultural experience.

If the above examples show a localized tendency to normalize, Ref 8 is an example of the use of a normalized Western cultural framework to plan and use ICT within a developmental context. Again, there is an attempt to elide major differences in experience, in which kids link up for "fun" across the world:

...Wouldn't it be fun for the kids of Jackson Hole to know something about Uganda...I can assure you that none of the kids in Uganda knew about Jackson Hole....35,000 kids linked in the south and the north...Inuit kids from Canada are working with kids in Latin America; kids in France...kids in Madrid... and so on (Ref 8).

It is arguable that the repetition of the word kids throughout the passage is an attempt at appealing to the audience via, in the view of the speaker, a universal, neutral category; however, kids remains a North American cultural construction, not a universal state that accords with the experiences of many children in LDCs, many of whom combine education with an economic role from nearinfancy. Given his position, the speaker's possible unawareness of his cultural bias is possibly of greater concern than the possibility that he *was* aware, but chose to manipulate it.

2.2.4 Initiatives and Conclusion

In contrast to the evidence, presented in the Initiatives part of the speech, of the planning and deployment of ICT in LDCs within frameworks defined by Western (North American) discourse, there is evidence in Refs 11, 12, and 13 of the direct use of ICT to extend the power relations underpinning such discourse. This has already been demonstrated at the macro-level in the previous section, in the discussion of the Development Gateway; as in the analyses of previous parts of the text, the object of interest here is rather the way in which such structures are drawn upon, justified, and hence replicated at the micro-level of the text.

2.2.4 Initiatives and Conclusion

Ref	Text	Description	Interpretation	Explanation
11	We also concluded that in terms of the training of people, we	Top-down	Export of predomi-	Expansion and
	should not just stop at high schools. And so we now have in	approach	nantly North American	strengthening of
	Africa, in 14 sites, what we call an African Virtual University		worldview, even (via	dominant technocratic
	where, from teaching sites in North America, French Canada		,	discourse via ICT
	and in Ireland, we are giving degree courses in Science,		Francophone Africa	
	Technology and Engineering taught by satelliteSo that was		Neutrality (DT3)	
	another initiative — all again developed in the last several years.			
12	And we did not limit it to that. We thought—you know—what is	"we link upto	Appeal to vision of	Association of ICT
	one of the key functions in terms of knowledge and we came to	teach"	global suburban	with Western civic
	the training of administrators. So every Saturday morning now		community (mayors,	ideals, and the future,
	from the Virtual University of the Monterrey Tech System we link		fire departments,	has strengthened their
	up with 300 towns in Latin America in seven countries to teach		budgets): again,	linkages within the
	various subjects—from how to run a fire department to how to		cultural exports:	Bank's developmental
	construct a budget —and the process in those towns and villages		Technocracy (DT1)	discourse
	again is synchronous or asynchronous but, most significantly, they		Neutrality (DT3)	
	talk to each other as a community so that a Mayor in Costa Rica	"information tech-	Tech optimism (DT6)	
	might be working with a Mayor in Mexico City. This inter-	nology, the new	Persuasion (SG4)	
	change—this dialogue and this coming together—is facilitated	millennium and		
	by technologyAnd when I talk then about information techno-	the future" linkage		
	logy, the new millennium and the future, you should think in			
	terms of how this tool can give you leverage to a degree that you			
	have not had before			
13	Two days ago I opened, by satellite, a new systemIt went	Use of technology	ICT as way of	Association of ICT
	impeccably well . It began at 7 a.m. and it was supposed to	to normalize	enforcing control over	with increased ability
I	conclude at 8.51, and at 8.51 we had had 15 speeches. This is	interaction	interaction, to Bank	to order and control,
	something that would have been impossible in person, I might		agenda	under cooperative
	tell you. But by satellite somehow people kept to their brief		Neutrality (DT3)	rubric (see end of
	time-span and we were able to put this thing together.			paragraph)

Ref	Text	Description	Interpretation	Explanation
14	I could go on and on. I could tell you of visits to the Ivory Coast	Orientalism (Said	Humor (SG3)	Perpetuation (albeit
	where I was meeting with cocoa and coffee farmers, literally in	1978): Inaccurate,	Confidence (SG1)	humorous) of objecti-
	the jungle with no water, no power, rough streets, and where I	mythical, and	Neutrality (DT3)	fication of develop-
	was made a Chief—which, since I cannot get an honorary degree	often neo-colonial	Tech optimism (DT5)	mental subjects as
	from Cambridge, is the next best thing. The robes are actually I	portrayal of the	Pragmatism (DT6)	exotic; reinforcement
	am sure more beautiful. There is gold—I should have worn it	other in	Persuasion (SG4)	of perceptions of the
	today actually. But in any event, I am sitting with my brother	deliberately exotic		other (i.e. non-
	Chiefs and one of them—it is a brother chief not a sister chief I	terms; softening of		Western)
	might tell you in most parts in Africa—said to me "do you want	this in humorous,		
	to see the office?" I said that yes, I would love to see the office, I	narrative terms;		
	went into the office and there were two young people sitting in	association of		
	front of two computers. One of them was there for the weighing	young people and		
	in and the recording of the quality of the coffee and cocoa. But the	ICT		
	other was linked to Reuters so that they could have daily			
	prices—real-time prices—on coffee and cocoa in order to deal			
	with the traders.			
15	So there they are getting the daily quotes on coffee and cocoa in	Continuation of		Replication of
	this village and, through the cooperatives in the morning sending	narrative device	n of issues regarding	evolutionary
	out— either by cellular telephone or, since it is a very poor		inequality, etc:	assumptions behind
	community, by pagers, which is much cheaper—the price of	ICT as natural and	Neutrality (DT3)	use of ICT in
	coffee and cocoa in Chicago and in London.	inevitable	Confidence (SG1)	development;
		extension of		implication that,
	I then return to my brother chiefs to discuss what they were talking		Technocracy (DT1)	given the opportunity
	about which entailed forwards, contracts—I mean more tough	market capitalism	Neutrality (DT1)	(by the Bank), most
	minded traders you have never seen. This is all compared to 4	into rural arena	Persuasion (SG4)	"brother chiefs"
	years ago when they were completely at the mercy of the visiting		Pragmatism (DT6)	would embrace
	trading community that came round.		Tech optimism (DT5)	"tough-minded
				trading"

Ref	Text	Description	Interpretation	Explanation
16	I have literally dozens of examples of the way that this is working.	Contradiction: a	Neutralized like this,	Final, emphatic
	We are at the beginning of a revolution: we are in a revolution.	"revolution" that	ICT do not threaten	reiteration about the
	And I would simply like to say to you—because I would like to	does not disturb	but rather actually	alignment of ICT with
	have time for questions if there are any—that the use of	the basic	strengthen and	the interests of the
	information technology does not disturb the basic framework	framework of	vindicate the Bank's	Bank, and a predic-
	of the development paradigm. But it is giving us opportunities	power and	development	tion that ICT will
	to expand it, to leverage it, and I must say we are finding new	discourse	paradigm, by	strengthen the Bank's
	ways of development and linkages that none of us have ever		expanding and	macro-structural
	considered.		leveraging it	approach
			ICTs are a	
			"revolution" that,	
			paradoxically,	
			overturns nothing, and	
			by which the existing	
			(Bank) hegemony is	
			not threatened!	
			Persuasion (SG4)	
			Neutrality (DT3)	
			Legitimacy (DT2)	
			Corporatism (DT4)	
			Tech optimism (DT5)	

Thus in Ref 11 we can see ICT as a medium for transferring Western knowledge *out* (my term) to Africa, "from teaching sites in North America, French Canada and in Ireland"—the inclusion of French Canada presumably in order to penetrate francophone Africa, an area otherwise less permeable to Western cultural transfer due to its general non-use of English. In Ref 12, the assumed neutrality (an important discursive type, or component, of developmental discourse) of such programs is demonstrated once again, where we are told that the "Virtual University of the Monterrey Tech System" is teaching "300 towns in Latin America in seven countries...various subjects—from how to run a fire department to how to construct a budget...a Mayor in Costa Rica might be working with a Mayor in Mexico City" (Ref 12). However, this one-way flow of Western (sub)urban civic values and technical structure to the LDC context is not acknowledged; in fact, the actual phraseology used was "we link up...to teach." The separation of, and weakening of the association between, the subject and verb in this sentence is another masking device, where

The cumulative effect of the transformations is that the direct commander-commanded relationship has been changed into a relationship wherein the commander plays the role of an information giver and the commanded is assigned the role of an information receiver (Ng and Bradac 1993, p. 163).

Such depoliticization of a problematic use of technology within development is also visible in Ref 13, where the ability of ICT-mediated satellite communication to normalize and control the speaking time of interactants around the world is presented unequivocally as a benefit for all.

Perhaps the most incongruous part of the speech, however, is Refs 14 and 15, where the speaker relates how he was "literally in the jungle with no water, no power, rough streets, and where I was made a Chief....there is gold....I am sitting with my brother Chiefs and one of them—it is a brother chief not a sister chief I might tell you in most parts of Africa"(Ref 14). As discussed in Ref 2, the other markedly incongruous part of the speech, the speaker uses the speech genres of humor and confidence to overcome what is, in this case, a piece of blatant Orientalism:

Orientalism can be discussed and analyzed as the corporate institution for dealing with the Orient—dealing with it, by making statements about it, authorizing views of it, describing it, by teaching it, settling it, ruling over it: in short, Orientalism as a Western style for dominating, restructuring, and having authority over the Orient (Said 1978, p. 3).

Although softened with the speech genres of humor and confidence, the other— in this case, the Orient—is being recreated in the present with every word of the text. Moreover, in the phrase "forwards, contracts—I mean more tough-minded traders you have never seen," it is implied that such "brother chiefs" are (presumably, contrary to indications otherwise) natural, tough-minded traders just waiting to embrace the (natural) extension of international market capitalism into the "jungle" via ICT.

By Ref 16, the Bank's unproblematic approach to planning, deployment, and use of ICT within its own developmental paradigm has been replicated and normalized in front of our eyes. It remains only for the speaker to pull a final discursive conjuring trick:

We are at the beginning of a revolution: we are in a revolution. And I would simply like to say to you...that the use of information technology does not disturb the basic framework of the development paradigm (Ref 16).

A similar appropriation and use of discursive terms associated with a perceived threat has been noted by Chilton (1998), whose discourse analysis of the protracted confrontation between the government of Margaret Thatcher in the UK and the anti-nuclear peace movement of the 1980s highlights her statement that "we [the government] are the true peace movement" (*Daily Telegraph* April 29, 1983), and the invention of the phrase *peacemongers* to refer to CND (Campaign for Nuclear Disarmament) protesters. However, the speaker's own doublespeak in Ref 16, about a revolution which does not alter the basic framework of power, is followed by an almost sinister continuation, which summarizes in a phrase the deep and growing linkages between ICT, development discourse, and relations of power. The remark may not bode well for those who do not support their own objectification by the Bank as developing:

But it [information technology] is giving us opportunities to expand it [the development paradigm], to leverage it, and I must say we are finding new ways of development...that none of us have ever considered (Ref 16).

3 CONCLUSION

This paper has identified some of the major components of the World Bank's discourse surrounding ICT and development, and shown how the manner of their deployment in speech amounts to the creation and systematization of a set of discursive relations that support and extend a markedly North American These relations are a fusion of traditional developmental worldview. discourse—technocratic expertise (DT1), combined with poverty as an undisputable need for such expertise (DT2)—with more ICT-specific components, such as the assumption of ICT as a neutral force in development (DT3), the display of expertise in the corporate terms with which ICT is often surrounded and discussed (DT4), technological optimism bordering on determinism (DT5), and a show of ICT pragmatic use on the ground, thus ensuring results (DT6). CDA is, of course, unable to make pronouncements about the degree to which social actors are aware of their actions in replicating macro-structures at the micro-level. To claim that the speech analyzed here was a set of conscious, cumulative constructions on the part of the speaker would be to impute almost impossibly Machiavellian aims (and abilities) to a person who, it is likely, undertakes his job in good faith, unaware, for the most part, of the assumptions and positionality with which speeches such as this appear, upon closer analysis, to be drenched. As observers and interpreters of social life, matters regarding others' discursive intentionality are not empirically available to us, although the resulting discourse itself, recalling Escobar at the beginning of this paper, is more visible: the (re)establishment of a set of normative relations among a set of elements, institutions, and practices, and their systematization to form a whole.

Indeed, it is this very task—uncovering, problematizing, and raising our consciousness about contestable assumptions which have, through sheer use, become woven into the fabric of discursive interaction—at which CDA arguably excels. The submerged nature of many such assumptions merely makes such a task the more pressing. That it is an important task is evidenced by the analysis itself: the links posited between discursive forms at the micro-level and the replication, or alteration, of discursive power relations at the macro-level that appear in the tables of the analysis in this paper. These links are able to show how local-level utterances are in fact saturated with prior assumptions about role, legitimacy, and the nature of the world—in short, about power—and how the inequalities attendant upon such assumptions can be reproduced, wittingly or unwittingly, in discursive practice.

This paper has shown how the appropriation and discursive deployment of ICT, with its association with progress and rationality, offers a powerful opportunity to further the interests of technocratic, often mainstream stakeholders, acting as a magnifier for dominant discursive interests by creating new subjects for objectification. The ability of CDA to expose this effect, identify the various elements of such discourse in practice, and show how their interaction is systematized into a "technology of representation" (Foucault 1975, p. 104), thus renders it a useful tool for IS researchers; in particular, those wishing to understand the potent interaction of ICT with developmental and other

discursive gazes that look out upon contested organizational landscapes. Thus CDA might prove an appropriate framework for the analysis of discourse within the more mainstream IS study domains of, say, IS strategy, IS procurement, compilation of requirements catalogues, discussions about hardware relocation, budget allocation, process redesign, iterative prototyping, program review boards—anywhere at all, in fact, where the prevailing discourse masks submerged assumptions and interests regarding the nature and role of ICT.

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About the Author

Mark Thompson recently completed a Ph.D. (2002) at the Judge Institute of Management, Cambridge University, examining the impact of sociological theories of practice, or emergent ontologies, for conceptions of the role of the self in IS and organizational studies and its implications for future research within both genres. His primary fieldwork involved action research with health information systems in townships in Cape Town, South Africa (*Information and Organization* (12:3), 2002, pp. 183-211). Mark is currently a director of Methods Application Ltd, a London-based IS consultancy specializing in the management of major organizational IS change programs. Mark can be reached by e-mail at mpat2@cam.ac.uk.