

Technology, efficiency and sustainability of competition in the Indian telecommunications sector

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Abstract

Liberalisation of the Indian telecommunications services started in mid nineties with no change in the existing public monopoly structure, viz., Department of Telecommunications (DoT). In order to evaluate any proposed industry structure, it is essential to analyse the production technology of DoT so as to determine the rationale of liberalisation and sustainability of competition. Accordingly, this paper estimates a frontier multi-product translog cost function for DoT, where the cost function has been duly modified to account for the production technology of a public monopoly. The study finds that although DoT displays high allocational inefficiency, it is still a natural monopoly with very high degree of subadditivity of cost of production. This implies that the choice of any reform policy should consider the trade-off between the loss of scale and scope economies and cost saving from the reduction in inefficiency of the incumbent monopoly in the event of competition. © 2000 Published by Elsevier Science B.V. All rights reserved.

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1. Introduction

In recent years, with increased integration of the global economy, telecommuni-

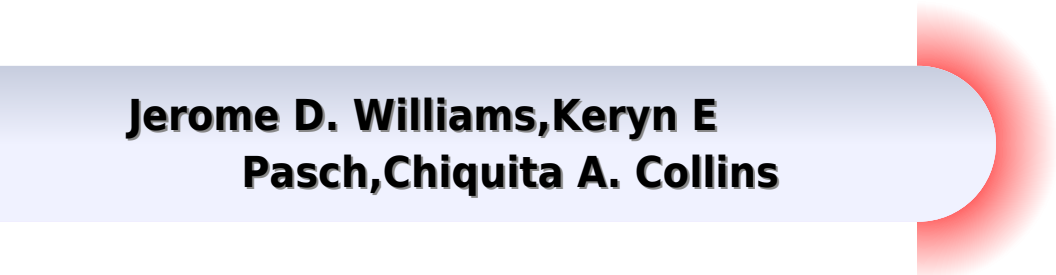
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E-mail address: nibedita@isibang.ac.in (N. Das).

^b An efficient information network increases efficiency in allocation of resources and productivity in all sectors of the economy. Telecommunication also reduces the cost of transactions leading to the development of other product and factor markets (Laff, 1984). Norton (1992) showed that the convergence hypothesis (tendency of poor countries to catch up with richer nations via factor growth) is stronger and more robust when telecommunications is included as one of the explanatory variable.

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**Jerome D. Williams, Keryn E
Pasch, Chiquita A. Collins**



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Governance of Communication Networks Brigitte Preissl, Jürgen Müller, 2007-01-30 Few would doubt the potential of information technology to connect individuals firms and organisations Whether this will actually lead to the integration of markets and societies is a different issue The articles collected in this book shed light on crucial considerations for the success of global communication networks These include frameworks for regulation inclusion of customers in defining product and service strategies access to advanced technology and networks for all groups and more [Access Pricing in Telecommunications](#) OECD, 2004-01-30 This report addresses the regulation of access to telecommunication networks Development of competition and the success of liberalisation often depend on the access terms and conditions chosen and public policy interest in getting these terms and conditions right is important [OECD Review of Telecommunication Policy and Regulation in Colombia](#) OECD, 2014-04-09 This report reviews policies and regulations in the telecommunication service sector in Colombia It puts forward recommendations aimed at furthering regulatory reform and stimulating market competition and investment in the sector [Competition and Investment in Telecommunications and Media Markets](#) Roberto Balmer, 2014-01-20 This book reviews the economic literature on cooperative investment in next generation broadband networks and geographic regulation It additionally proposes innovative models for estimating the level of competition and investment in the fixed telephony market and the retail market for newspapers In doing so it addresses two hotly debated issues in business strategy and economic policy the determinants of investment and competition and the impacts of innovative investment schemes The first chapter reviews the literature on new cooperative investment schemes in next generation broadband networks and geographic regulation The effects on competition investment and welfare of such schemes crucially depend on the details of the agreements For instance in the case of joint ventures the manner in which investment costs are shared and internal and external access prices are determined significantly impacts the outcome In the case of long term access agreements it is essential to consider how access tariffs are structured whether they can adapt to market developments ex post and whether contracts are signed before or after the investment takes place Generally many of these agreements allow for some extent of risk sharing offering the possibility of increasing investment incentives when firms are not risk neutral It is suggested that regulators consider introducing regulated co investment agreements complementing current regulation in addition to considering geographically segmented access prices The second chapter assesses entry and competition in local retail markets for newspapers It builds on the new empirical industrial organisation NEIO literature to estimate sustainable coverage and competitive effects of entry for Swiss newspaper sellers which sell composite goods newspapers food and other goods of daily use An entry threshold ratio methodology is used allowing for model estimation even when the range of products under examination is not exactly defined and when price and quantity data are not available It is found that under duopoly prices the market size of a Commune required for single firm entry is about twice as large as

under monopoly prices A clear and quantifiable trade off between competition and investment therefore exists Moreover it is found that while a second entrant in this market strongly increases competition further entry doesn't have a significant additional competitive effect From a welfare perspective therefore it can be stated that two is enough to ensure competition in this market In the third chapter competition and market strategies in the Swiss fixed telephony market are assessed A market model based on a generalised version of the traditional dominant firm competitive fringe model is developed Direct estimation of the incumbent's intertemporal residual demand function is performed by instrumenting the market price with incumbent specific cost shifting variables as well as other variables The concrete estimates show that residual retail demand for voice traffic is highly inelastic Such a level of elasticity is only compatible with a profit maximising incumbent in the case of largely competitive conduct It is therefore found that the Swiss incumbent acted largely competitively and that current regulated telephony retail price caps could not be justified on the basis of a lack of competition **Regulieren oder**

Nichtregulieren; das ist hier die Frage Markus A. Hessler, 2015-03-05 Die Telekommunikationsmärkte zeigen nicht zuletzt aufgrund der Konvergenz von Telekommunikation Internet Medien und Unterhaltung und der Konsolidierungstendenzen weiterhin eine ungebrochene Dynamik ber 15 Jahre nach der Liberalisierung der Telekommunikationsmärkte sind die vertikal integrierten staatlichen Monopole weitgehend wettbewerblichen Märkten gewichen mit beraus positiven Folgen für die Volkswirtschaft und die Konsumenten Die Telekommunikation hat eine große und weiter zunehmende Bedeutung sowohl für das Privat als auch für das Berufsleben der Menschen und darüber hinaus für die gesamtwirtschaftliche und gesellschaftliche Entwicklung Mit immer besseren Endgeräten und leistungsfähigeren Anwendungen steigt auch die Nachfrage nach schnelleren und besseren Internetzugängen Im Zusammenhang mit leistungsfähigeren Internetzugängen ist auch die Entwicklung der Next Generation Networks NGN und des Next Generation Access NGA bedeutend da es sich bei diesen um neue bessere Netzarchitekturen handelt Die hohe Bedeutung moderner Breitbandanschlüsse für die volkswirtschaftliche Entwicklung erklärt auch die starke Involvierung von Politik Öffentlichkeit Wirtschaft und Wissenschaft in die Diskussionen um Fragen des Breitbandausbaus und der Netzneutralität In dem vorliegenden Werk werden zunächst die relevanten Marktentwicklungen und technische Grundlagen der Telekommunikation behandelt Im wirtschaftswissenschaftlichen Grundlagenteil wird analysiert unter welchen Bedingungen in einer Marktwirtschaft ein Staatseingriff gerechtfertigt und geboten ist Dabei werden Grundlagen der Marktwirtschaft und Ordnungsökonomik die normative Theorie der Regulierung Ergebnismäßig Regulierungsgrundlagen die positive Theorie der Regulierung und die Netzkonomie erläutert Im letzten Teil der Arbeit werden die Telekommunikationsmärkte auf ebendiese Bedingungen untersucht und Empfehlungen gegeben welche Probleme mit welchen Maßnahmen behandelt werden sollten Dabei geht es um Fragen der Regulierung der letzten Meile der Netzneutralität des Breitbandausbaus um Externalitäten und Informationsmäßig Adoption, Usage, and Global Impact of Broadband Technologies: Diffusion, Practice and Policy Dwivedi, Yogesh K., 2010-10-31 This book provides a

comprehensive coverage of broadband deployment diffusion adoption usage and policies as they have been realized by research in many countries around the world Provided by publisher

The Economics of Antitrust and Regulation in Telecommunications Pierre A. Buigues,Patrick Rey,2004-01-01 Contributing to a convergence of legal and economic approaches The Economics of Antitrust and Regulation in Telecommunications integrates economic theory into current EU antitrust policy within the sector The book addresses the role of competition and regulatory policies on a number of key issues in telecommunications such as market definition collective dominance access to networks and allocation of scarce resources

The Liberalisation of the Telecommunications Sector in Sub-Saharan Africa and Fostering Competition in Telecommunications Services Markets Rachel Alemu,2018-02-02 This study investigates whether the existing regulatory framework governing the telecommunications sector in countries in Sub Saharan Africa effectively deals with emerging competition related concerns in the liberalised sector Using Uganda as a case study it analyses the relevant provisions of the law governing competition in the telecommunications sector and presents three key findings Firstly while there is comprehensive legislation on interconnection and spectrum management inefficient enforcement of the legislation has perpetuated concerns surrounding spectrum scarcity and interconnection Secondly the legislative framework governing anti competitive behaviour though in line with the established principles of competition law is not sufficient Specifically the framework is not equipped to govern the conduct of multinational telecommunications groups that have a strong presence in the telecommunications sector Major factors hampering efficient competition regulation include Uganda s sole reliance on sector specific competition rules restricted available remedies and a regulator with limited experience of enforcing competition legislation The weaknesses in the framework strongly suggest the need to adopt an economy wide competition law Lastly wireless technology is the main means through which the population in Uganda accesses telecommunications services Greater emphasis should be placed on regulating conduct in the wireless communications markets

Handbook of Research on Overcoming Digital Divides: Constructing an Equitable and Competitive Information Society Ferro, Enrico,Dwivedi, Yogesh K.,Gil-Garcia, J. Ramon,Williams, Michael D.,2009-09-30 This book presents a comprehensive integrative and global view of what has been called the digital divide Provided by publisher

Regulation and the Performance of Communication and Information Networks Gerald R. Faulhaber,Gary Madden,Jeffrey Petchey,2012-01-01 Due to their economic characteristics and also to their consequences on many aspects of collective life information networks have always been at the edge of regulatory innovations and at the center of policy debates The contributors of this volume combine long term visions of the factors determining regulatory policies with up to date analyses of technicalities to be dealt with to provide the reader with an extended understanding of the issues and constraints shaping the future of digital networks Eric Brousseau Universit Paris Dauphine France and the European University Institute Italy Digital markets worldwide are in rapid flux The Internet and World Wide Web have traditionally evolved in a largely deregulated

environment but recently governments have shown great interest in this rapidly developing sector and are imposing regulations for a variety of reasons that are changing the shape of these industries This book explores why the industrial organization of broadband ISPs Internet backbone providers and content application providers are in such turmoil The expert contributors straddle the turbulent past of the telecoms sector and also contribute to its exciting though unpredictable future via positive analysis of past communications policies which is then utilized to deduce lessons to guide future policy making decisions It is illustrated that broadband ISPs no longer simply provide a conduit for service delivery they are also involved in producing content and transaction services themselves in competition with content and delivery providers The blurring of the traditional lines between these three sectors as each enters into the others markets is highlighted The conclusion is that we are witnessing the emergence of powerful competing platforms linked in complex ways that challenge traditional economic analyses Exploring governance issues regulation and investment next generation service markets and wireless communication this book will prove a fascinating and illuminating read for scholars researchers post graduate students and policymakers with an interest in ICT technology and innovation economics and industrial organization

Entwicklung einer referenzmodellbasierten Unternehmensarchitektur für die Telekommunikationsindustrie Christian Czarnecki, 2013 Die Telekommunikationsindustrie hat in den letzten Jahrzehnten einen enormen Wandel vollzogen Für Telekommunikationsunternehmen erfordert dies fundamentale Umstrukturierungen von Strategie Prozessen Anwendungssystemen und Netzwerktechnologien Dabei spielen Unternehmensarchitekturen und Referenzmodelle eine wichtige Rolle Zwar existieren in der Praxis anerkannte Referenzmodelle aber wie sind diese für eine systematische Transformation zu gestalten Wie sieht eine konkrete Lösung für die Telekommunikationsindustrie aus Als Antwort stellt Christian Czarnecki in seinem Buch eine referenzmodellbasierte Unternehmensarchitektur vor Basierend auf einer umfangreichen Untersuchung von Transformationsprojekten werden Probleme und Anforderungen der Praxis identifiziert für die mit Methoden der Unternehmenstransformation Referenzmodellierung und Unternehmensarchitektur ein Lösungsvorschlag entwickelt und evaluiert wird Dieser besteht u a aus detaillierten Anwendungsfällen Referenzprozessabläufen einer Zuordnung von Prozessen zu Anwendungssystemen sowie Handlungsempfehlungen zur Virtualisierung Für Wissenschaftler und Studierende der Wirtschaftsinformatik zeigt das Buch neue Erkenntnisse einer anwendungsorientierten Referenzmodellierung Für Praktiker liefert es eine methodisch fundierte Lösung für die aktuellen Transformationsbedarfe der Telekommunikationsindustrie Christian Czarnecki arbeitet seit 2004 als Unternehmensberater und hat viele Telekommunikationsunternehmen bei deren Transformation begleitet In 2013 erfolgte die Promotion zum Doktoringenieur an der Otto von Guericke Universität Magdeburg

The Routledge Companion to Network Industries Matthias Finger, Christian Jaag, 2015-11-19 In recent decades network industries around the world have gone through periods of deregulation and re-regulation With vast amounts of sometimes conflicting research carried out into specific network industries the time

has come for a critical overarching assessment of this entire industry in order to provide a platform of understanding to aid future research and practice This comprehensive resource provides an orientation for academics policy makers and managers as to the main economic regulatory and commercial challenges in the network industries The book is split into sections covering market policy regulation management perspectives whilst all of the key network industries are covered including energy transport water and telecommunications Overseen by world class Editors and experts in the field this interdisciplinary resource is essential reading for students and researchers in international business industrial economics and the industries

Teaching Contemporary Themes in Secondary Education: Technology, Culture and Communication

Jonathan Savage, Clive McGoun, 2012-04-12 The media has a huge impact on how we view society and the world and new technologies continue to transform the way in which we work and learn It is therefore essential that young people can engage critically in their consumption of media and the internet and are able to make informed decisions about the technologies they use This book explores

Encyclopedia of Multimedia Technology and Networking Pagani,

Margherita, 2005-05-30 This encyclopedia offers a comprehensive knowledge of multimedia information technology from an economic and technological perspective Provided by publisher

Advances in Communication Research to Reduce

Childhood Obesity Jerome D. Williams, Keryn E Pasch, Chiquita A. Collins, 2013-02-12 Rates of childhood obesity are alarmingly high and increasing each year Studies have shown that obese children are more likely to become obese adults and are likely to suffer with numerous health consequences like coronary heart disease high blood pressure and Type II diabetes among others Studies also indicate that television viewing and exposure to advertising for food products influences children's attitudes toward food preferences and food purchase requests for foods with low nutritional value It is important to better understand the role of media in childhood obesity and to learn how media may be used to address this issue in a positive way This book focuses on communication and media research that can have an impact on reducing childhood obesity Emphasis is placed on topics related to how the media communicate health related messages about food nutrition and diet that influence childhood obesity Particular emphasis is on the new media given the fact that media now have more central roles in socializing today's children and youth than ever before Advertising and marketing messages reach young consumers through a variety of vehicles broadcast and cable television radio magazines computers through the Internet music cell phones and in many different venues homes schools child care settings grocery stores shopping malls theaters sporting events and even airports In addition given the disparity in obesity rates between children of color and the general population special attention is given to research on media targeting these populations

Promoting Competition in Innovation Through Merger Control in the ICT Sector Kalpana Tyagi, 2019-06-21 This book addresses the question of how competition authorities assess mergers in the Information Communication Technology ICT sector so as to promote competition in innovation A closer look at the

question reveals that it is far more complex and difficult to answer for the ICT telecommunications and multi sided platform

MSP economy than for more traditional sectors of the economy This has led many scholars to re think and question whether the current merger control framework is suitable for the ICT sector which is often also referred to as the new economy The book pursues an interdisciplinary approach combining insights from law economics and corporate strategy Further it has a comparative dimension as it discusses the practices of the US the EU and wherever relevant of other competition authorities from around the globe Considering that the research was conducted in the EU the practices of the European Commission remain a key aspect of the content Considering its normative dimension the book concentrates on the substantive aspects of merger control To facilitate a better understanding of the most important points the book also offers a brief overview of the procedural aspects of merger control in the EU the US and the UK and discusses recent amendments to Austrian and German law regarding the notification threshold Given its scope the book offers an invaluable guide for competition law scholars practitioners in the field and competition authorities worldwide

The Handbook of Global Media and Communication Policy Robin Mansell, Marc Raboy, 2014-03-03 The Handbook of Global Media and Communication Policy offers insights into the boundaries of this field of study assesses why it is important who is affected and with what political economic social and cultural consequences Provides the most up to date and comprehensive collection of essays from top scholars in the field Includes contributions from western and eastern Europe North and Central America Africa and Asia Offers new conceptual frameworks and new methodologies for mapping the contours of emergent global media and communication policy Draws on theory and empirical research to offer multiple perspectives on the local national regional and global forums in which policy debate occurs

Handbook of Media Management and Economics Alan Albarran, Bozena Mierzejewska, Jaemin Jung, 2018-04-27 Winner of the 2019 Robert Picard Book Award The Handbook of Media Management and Economics has become a required reference for students professors policy makers and industry practitioners The volume was developed around two primary objectives assessing the state of knowledge for the key topics in the media management and economics fields and establishing the research agenda in these areas ultimately pushing the field in new directions The Handbook's chapters are organized into parts addressing the theoretical components key issues analytical tools and future directions for research With its unparalleled breadth of content from expert authors the Handbook provides background knowledge of the various theoretical dimensions and historical paradigms and establishes the direction for the next phases of research in this evolving arena of study Updates include the rise of mobile and social media globalization audience fragmentation and big data

Handbook of Research on Global Diffusion of Broadband Data Transmission Dwivedi, Yogesh K., Papazafeiropoulou, Anastasia, Choudrie, Jyoti, 2008-02-28 Explores broadband adoption and the digital divide through a global perspective Presents research on constructs such as relative advantage utilitarian outcomes hedonic outcomes and service quality Provides multicultural insight into what factors influence consumers decisions to adopt broadband

Handbook of Innovation and Standards Richard Hawkins, Knut Blind, Robert Page, 2017-08-25 Innovation and

standardization might seem polar opposites but over many years various scholars have noted close connections between the two This Handbook assembles a broad range of thinking on this subject with contributions from several disciplinary perspectives by over 30 leading scholars and experienced practitioners Collectively they summarize and synthesize the existing body of knowledge theory and evidence pertaining to standards and innovation and provide insights into how this knowledge can be useful to scholars industrial strategists policy makers and standards practitioners

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web home about us jane s story scientist conservationist peacemaker mentor in 1960 jane began her groundbreaking research at gombe stream observing the behaviour of chimpanzees in their natural habitat it was there that she discovered

that chimpanzees fashion and use tools

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