

Switching to Digital Television: Business and Public Policy Issues*

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1. INTRODUCTION

Television is currently undergoing a major transformation. The old analog standards are being replaced by new digital standards, widely perceived to be technologically superior. Digital television (DTV) makes possible the delivery of a signal virtually free of interference, with better image and audio quality, and improved interactivity. In addition, data compression technologies allow for a more efficient use of bandwidth.¹ DTV gives the flexibility of increasing the quality and the number of channels, while at the same time freeing up bandwidth for alternative uses.²

These benefits can only be realized if broadcasters as well as viewers are willing to invest in the new technology. On the supply side of the market, broadcasters need to invest in digital transmission equipment and make content available on the digital platform. On the demand side, viewers must be able to receive the digital signal either with a decoder (so called 'set top box', STB) or an integrated digital television set. In addition, costs and benefits are unevenly distributed across viewers and broadcasters, and vary depending on the television delivery platform.

Policy makers in the US and Europe have taken a keen interest in the transition process.³ In this paper, we explore the main challenges for the transition to digital television. In particular, we

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¹ With the same bandwidth required for a single analog channel, the new digital technology is capable of transmitting five to ten digital channels of comparable ("standard") quality. Alternatively, that bandwidth can be used to deliver "high definition television" (HDTV) with movie-quality picture and sound.

² In this paper, we do not discuss the different standards for digital television. We refer to Farnoff and Shapiro (1992) for an early account of the development of the ATSC standard in the US, and to Crisman (2002) for a discussion of the development of the DVB standard in Europe. According to Hart (2004) and Galperin (2004), the transition to digital television so far is the result of the interplay of economic and political factors. In this paper, we take the political factors as given and focus mostly on the normative economic implications.

³ For information on the US policies see Congressional Budget Office (1999) and on the EU policies see Commission of the European Communities (2002 and 2003).

Hdtv The Politics Policies And Economics Of Tomottows Television

Maribel Castaneda Paredes



Hdtv The Politics Policies And Economics Of Tomottows Television:

Technology, Television, and Competition Jeffrey A. Hart, 2004-02-05 In the late 1980s and 1990s the advanced industrial countries considered replacing the existing analogue television infrastructure with a new digital one A key common feature to the debates over digital TV DTV in the United States Western Europe and Japan was the eventual victory of the ideas of digitalism the superiority of everything digital over everything analogue and of digital convergence the merging of computing telecommunications and broadcasting infrastructures made possible by digitalization in public debates over standards Jeffrey Hart s book shows how nationalism and regionalism combined with digitalism to produce three different and incompatible DTV standards in the three regions an outcome which has led to missed opportunities in developing the new technologies Hart s book contributes to our understanding of relations between business and government and of competition between the world s great economic powers The Politics of HDTV in the United States Jeffrey A. Hart, 1992

Turning Off the Television Jock Given, 2003 Explores the constant shifts in the technologies business models and social uses of TV and radio and explains the aspects of broadcast media which have attracted so much government policy attention as well as what might happen to them in future *Communication Technology Update* August E. Grant, Ashley J.

Bennington, 2014-05-16 *Communication Technology Update* Third Edition provides the latest information on as many communication technologies as possible using as many specific statistics on market share units sold etc as possible to allow comparison among the technologies This book is designed to help make sense of the spectrum of communication technologies The text explores the widest possible range of technologies from broadcast to telephony and from wired to wireless In discussing each technology this book will not only deal with the hardware of the technology but also with the software organizational structure political and economic influences and individual users of the technologies Major developments in each of these areas are presented for each technology along with background information to help explain the major factors in the evolution of the technology The first chapter begins by defining communication technology and introducing the umbrella perspective used to present and analyze each technology Following this discussion an overview of the remainder of the book is presented This book targets two groups of users One of which is the group of communication professionals who have a desire to keep up with the latest developments both within and adjacent to their particular fields Second is the group of students who are studying communication technology and need information that is more current than that provided by a textbook and more comprehensive than that found in trade magazines **Mass Communications**

Research Resources Christopher H. Sterling, James K. Bracken, Susan B. Hill, 2016-05-06 This reference book is designed as a road map for researchers who need to find specific information about American mass communication as expeditiously as possible Taking a topical approach it integrates publications and organizations into subject focused chapters for easy user reference The editors define mass communication to include print journalism and electronic media and the processes by

which they communicate messages to their audiences Included are newspaper magazine radio television cable and newer electronic media industries Within that definition this volume offers an indexed inventory of more than 1 400 resources on most aspects of American mass communication history technology economics content audience research policy and regulation The material featured represents the carefully considered judgment of three experts two of them librarians plus four contributors from different industry venues The primary focus is on the domestic American print and electronic media industries Although there is no claim to a complete census of all materials on print journalism and electronic media what is available is now too vast for any single guide the most important and useful items are here The emphasis is on material published since 1980 though useful older resources are included as well Each chapter is designed to stand alone providing the most important and useful resources of a primary nature organizations and documents as well as secondary books and reports In addition online resources and internet citations are included where possible

HDTV John F. Rice,1990

The Development of the US Advanced Digital Television System, 1987-1997 Maribel Castaneda Paredes,2000

A Short History of American Industrial Policies William R. Nester,2016-07-27 For nearly four centuries Americans have debated the government's proper role in developing the economy Some argue that the economy develops the best when government intervenes the least Others counter that the economy best develops when government and business work together to that end A Short History of American Industrial Policies analyzes the ideological political and industrial policy struggle from the colonial era to the 1990s To give a complete understanding both the chronology and process of America's industrial policymaking and policies are explored in depth throughout

Who's Bashing Whom? Laura D'Andrea Tyson,1993 Governments around the world This volume answers these questions on the basis of detailed and rigorous case studies of trade disputes between the United States Japan and Europe in aircraft semiconductors supercomputers telecommunications and other electronics products Tyson proposes a cautious activist policy agenda to promote US competitiveness in high technology sectors and to strengthen multilateral rules governing high technology trade

The Politics of HDTV in Japan and the United States Jeffrey A. Hart,1993

High Definition Television William Saffady,1990

Speak Softly and Carry a Big Stick J. H. Snider,2005 Broadcasters have always been coddled by politicians and Speak Softly explains how and why J H Snider tells the story with the rigor of a scholar the doggedness of an investigative reporter and the zeal of a reformer Paul Taylor Executive Vice President Pew Research Center J H Snider offers an extremely comprehensive and well documented look behind the curtain at how the National Association of Broadcasters drives its national legislative agenda This is must reading for not only political scientists but for all who are interested in media policy and how it gets made in Washington Chellie Pingree President and CEO Common Cause This astute book is a first rate work of original scholarship It also provides an unsettling description of broadcasters policy influence When their own interests are involved broadcasters cannot be trusted to act in the way they demand of all others in society Readers will no doubt question whether J H Snider's

recommended solution is a practical one But no reader will question his call for new measures Thomas E Patterson Bradlee Professor of Government and the Press Harvard University Having played a role in the mad cap drama of telecommunications legislation Snider documents I can tell you he has captured the essence of the machinations strange bedfellows and almost single minded righteous self interest that drives the telecommunications debate Like it or not this is how the power game is really played Stephen R Effros Former President 1976 1999 Cable Telecommunications Association Speak Softly documents the broadcast industry s striking influence on public policy including the landmark Telecommunications Act of 1996 As Congress gears up to re write the Act J H Snider s analysis is particularly timely Kevin Werbach Professor The Wharton School University of Pennsylvania American Industrial Policy William R. Nester, 2016-07-27 What is the government s proper role in the economy Do free or managed markets best promote economic development Who can best pick industrial winners and losers the government or private sector This book attempts to answer those and related questions by exploring the evolution and results of federal policies towards half a dozen economic sectors Those policies are largely determined by the representatives of the targeted industry bureaucrats from agencies and departments that administer that industry and politicians with firms from that industry in their districts These iron triangles capture a virtuous political economic cycle in which they use their united power to grant themselves favourable policies which in turn enhances their power As will be seen the results of such a politicized industrial policy process varies considerably from one industry to the next *High Definition Television* United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Telecommunications and Finance, 1989 **Public Policy Implications of Advanced Television Systems**, 1989 *Europa als Kommunikationsraum*, 2013-03-09 Die vorliegende Untersuchung entstand als Ergebnis eines von der Deutschen Forschungsgemeinschaft geförderten Projekts das ursprünglich unter dem Titel Medienpolitik in Europa zwischen nationalen Interessen und Internationalisierung der Märkte Eine Untersuchung zur EG Politik und zu Strategien von Medienkonzernen konzipiert war In diesem Projekt haben zu unterschiedlichen Zeiten und mit unterschiedlicher Intensität mitgearbeitet Dr Peter Wilke Dr Volkert Wiesner Ute Sonnenberg Dr Torsten Rossmann Barbara Thomaß und Arnold C Kulbatzki Da während der Laufzeit des Projekts verstärkte Veröffentlichungen zu Teilgebieten des Themenrahmens erschienen entschlossen wir uns die Fragestellung in Richtung auf eine theoriegeleitete Arbeit hin zu modifizieren Mit einer raumtheoretischen Analyse von Europa wollen wir den zahlreichen empirischen Arbeiten eine systematische Struktur geben Wir hoffen daß unsere Ergebnisse dazu beitragen ein differenzierteres Verständnis von Europa zu schaffen und damit spezifische Bedingungen des europäischen Einigungsprozesses besser erkannt werden Wir lieben uns von der Idee begleiten daß Europa immer ein Phänomen der Kommunikation war und nur eine Medienpolitik die diese Einsicht zur Grundlage nimmt Chancen für eine weitere Integration im Raum Europa eröffnen kann Wie bei Forschungsprojekten mit mehrjähriger Laufzeit nicht untunlich auch dieses Projekt etliche Höhen und Tiefen insbesondere ausgeführt durch

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States, and Europe Over High-definition Television Ellis S. Krauss,1993 *Technology Transfer Symposium* ,1994

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