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# ROUTE 128 AND THE BIRTH OF THE AGE OF HIGH TECH

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# Route 128 The Birth Of The Age Of High Tech

**Bruno Dallago, Ermanno Tortia**



## **Route 128 The Birth Of The Age Of High Tech:**

Route 128 and the Birth of the Age of High Tech Alan R. Earls, 2002 From the invention of ether and the telephone in the nineteenth century to the birth of radar and the computer in the twentieth century Greater Boston has been a hotbed for creating and nurturing new ideas In the early years of the century the ground was being sown for a new economy to supplant the slowly declining shoe and textile manufacturing industries that had long dominated the region After World War II Route 128 dubbed by critics the road to nowhere became the locus of this high tech development Although originally intended to ease gridlock and provide an avenue to recreational opportunities by the late 1950s Route 128 was dotted with industrial parks and new subdivisions It was soon known as the Golden Crescent in recognition of the prosperity it brought to the whole region Route 128 and the Birth of the Age of High Tech tells the intertwining stories of the construction of the nation's first circumferential beltway and the burgeoning high tech industries of Massachusetts which helped spawn the modern age of personal computers the Internet and biotechnology *Route 128 and the Birth of the Age of High Tech* Alan Earls, 2002-10

From the invention of ether and the telephone in the nineteenth century to the birth of radar and the computer in the twentieth century Greater Boston has been a hotbed for creating and nurturing new ideas In the early years of the century the ground was being sown for a new economy to supplant the slowly declining shoe and textile manufacturing industries that had long dominated the region After World War II Route 128 dubbed by critics the road to nowhere became the locus of this high tech development Although originally intended to ease gridlock and provide an avenue to recreational opportunities by the late 1950s Route 128 was dotted with industrial parks and new subdivisions It was soon known as the Golden Crescent in recognition of the prosperity it brought to the whole region Route 128 and the Birth of the Age of High Tech tells the intertwining stories of the construction of the nation's first circumferential beltway and the burgeoning high tech industries of Massachusetts which helped spawn the modern age of personal computers the Internet and biotechnology *The Yankee Road* James D. McNiven, 2015 Boston Made Dr. Robert M. Krim, Alan R. Earls, 2021-02-23 A fascinating look at how Boston became and remains a global center for innovation told through 50 world changing inventions Robert Krim is a long time champion of the Boston area's history of innovation finding remarkable examples of ingenuity and creativity going back centuries and continuing today He shows how a culture of innovation can make a small place a beacon of hope for the world by developing the fresh ideas and useful discoveries that make a difference in every part of life Rosabeth Moss Kanter Harvard Business School professor and author of *Think Outside the Building* How Advanced Leaders Can Change the World One Smart Innovation at a Time Since the 1600s Boston has been at the forefront of world changing innovation from starting the country's first public school to becoming the first state to end slavery and giving birth to the telephone Boston was the site of the first organ transplant and more recent medical and biotech breakthroughs that have saved the lives of thousands That's not to mention pioneering advances in everything from rockets to robotics In total Boston area inventors have

contributed more than four hundred stand out social scientific and commercial innovations and uncounted numbers that are less well known Boston Made tells the absorbing stories of 50 of these and why they are no accident In fact fresh waves of innovation have brought the city back from four major economic collapses Dr Robert Krim lays out a set of innovation drivers including strong entrepreneurship local funding and networking From boom to decline and back to boom Boston has maintained an ability to reinvent and build anew Dr Krim with technologist Alan Earls have developed and outlined a new interpretation of how a resilient city has flourished At a time when the national and global economy is reeling from pandemic shockwaves the authors have laid out what a dynamic world class city has done in the face of adversity to find a fresh and successful path forward

**Happier?** Daniel Horowitz, 2018 Happier provides the first history of the origins development and impact of the shift in how Americans and now many around the world consider the human condition This change which came about from the fusing of beliefs and knowledge from Eastern spiritual traditions behavioral economics neuroscience evolutionary biology and cognitive psychology has been led by scholars and academic entrepreneurs in play with forces such as neoliberalism and cultural conservatism and a public eager for self improvement Ultimately the book illuminates how positive psychology one of the most influential academic fields of the late twentieth and early twenty first centuries infused American culture with captivating promises for a happier society

**Digital Equipment Corporation** Alan R. Earls, 2004 From its inception in 1957 Digital Equipment Corporation DEC headquartered in Maynard Massachusetts carved itself a role in American business unlike any other company Launched by Massachusetts Institute of Technology engineer Ken Olsen with a 70 000 investment from the country's first venture capital firm DEC rapidly became a pioneer in computer technology In its heyday DEC had a valuation of more than 12 billion and employed approximately one hundred twenty thousand people worldwide making it second only to IBM Its people and technology contributed to making computers increasingly affordable which led directly to the advent of the personal computer the first computer games and computer networks DEC was also a leader in the Internet revolution claiming the dubious distinction of launching the first spam mailing and registering one of the first commercial domain names Through photographs of people events and machines Digital Equipment Corporation tells the story of the unassuming computer revolutionaries who reshaped the technological world It is written for anyone who is interested in how the present era of computing ubiquity has evolved since the 1940s when IBM chairman Thomas Watson predicted that the whole world might need no more than five computers

**Raytheon Company** Alan R. Earls, Robert E. Edwards, 2005 Raytheon's history is one of the great American success stories Launched in 1922 the Cambridge based company quickly moved to the forefront of innovation in the electronics industry During World War II thousands of Raytheon workers contributed to the war effort supplying eighty percent of the magnetron tubes vital components for U S and British radars developing miniature tubes for the crucial proximity fuse in anti-aircraft shells and providing entire radar systems Although government contracts slowed after World War II Raytheon continued to develop military components including

leading edge radars and missiles for America's defenses in the Cold War but it also began to offer a host of civilian products the famous RadaRange the world's first microwave oven televisions marine radars transistors miniature hearing aids and medical equipment

**Higher Education, Employment, and Economic Development in India** Ram Kumar Mishra, Sandeep Kumar Kujur, K. Trivikram, 2023-05-23 This volume examines the role of higher education and employment in economic development in emerging economies like India It looks at the contours of higher education policies and the labour market dynamics to explore ways to address joblessness and income disparity The book discusses themes such as quality and access to higher education the shift towards private investment in higher education demographic dividend and joblessness among youth social and income inequalities labour migration and employment and the participation of women in the workforce among others It provides insights into the challenges relating to employment generation in the industrial sector It also offers solutions and policy measures to move towards sustainable growth better employment opportunities in various sectors of industries and human development Rich in empirical data this volume will be of interest to students and researchers of education economics development studies sociology gender studies and social and economic policy

**Polaroid** Alan R. Earls, Nasrin Rohani, 2005 Edwin Land and Polaroid the company he created in the 1930s have spawned many bold scientific innovations over the years Most of them led quickly to unique commercial products Best known for revolutionary instant photography systems Land and Polaroid also achieved miracles in light polarizing technology that is embedded in many of today's consumer products During World War II Polaroid manufactured and created a large array of products for the U S military later Land's top secret cold war initiatives led to crucial intelligence breakthroughs Polaroid features images of signature innovations scientists and photographers who pioneered the use of Polaroid film

Entrepreneurship and Local Economic Development Bruno Dallago, Ermanno Tortia, 2018-09-05 This book focuses on the nature and role of entrepreneurship in modern developed and emerging economies and societies its relation to governments and universities and its role in the often forgotten informal economy The aim is to position entrepreneurship in the post crisis context and explore how its relation to universities and governments contributes to explain the countries and territories growth performance and resilience or vulnerability to the crisis The accent is particularly on processes and patterns at local level and in small and medium sized enterprises in local economic systems and districts local systems of innovation and the types and configurations of innovation these give origin to With globalization entrepreneurship has become fundamental for the competitiveness of territories and countries for policy management and for development The local dimension is fundamental because of agglomeration economies and effects the advantages of proximity and the nature of knowledge and information Furthermore territories carry to the centre stage tacit knowledge localized social capital embeddedness and interpersonal relations as fundamental components of their endogenous socio economic development and competitiveness When local systems are connected in a horizontal network they contribute to the strength of national and international

systems To play a constructive role from this perspective entrepreneurship must avoid local entrenchment and support the local economy to upgrade and be competitive To do this the entrepreneurs interaction and alliance with universities and governments is a must for those countries and localities wanting to emerge This requires that enterprises universities and governments create synergies and spill overs to their mutual advantage

**Growth Policy in the Age of High Technology** Jurgen Schmandt, Robert Wilson, 2018-03-29 Originally published in 1990 this book provides an authoritative and detailed account of the initiatives of US state governments with science and technology programs designed to foster economic growth Two key questions are posed Do state governments have policy instruments that are sufficiently powerful to affect the levels and growth rates of their regional economies and Are national and global economic forces so powerful that they render state action ineffective Several subsidiary themes are discussed in this context namely the most commonly used policy instruments the impacts on federalism and on governance and how well the universities and other educational institutions serve the economic activities imposed on them

Greater Boston's Blizzard of 1978 Alan R. Earls, 2008 The great blizzard of 1978 is an event seared in the memory of anyone who lived through it Most of Greater Boston was quickly overwhelmed by the storm which shut down all forms of transit stranded thousands of cars and motorists along Route 128 and virtually shut down most of the state for a week But for many coastal communities the impact of the storm which brought record high tides and pounding surf was pure devastation The common thread shared by almost everyone in the region was positive memories of neighbors and strangers helping each other and finding new bonds of community Greater Boston's Blizzard of 1978 illustrated with approximately 200 photographs from government archives and private collections brings alive the fading experiences of February 1978 for those who were there and those who can only imagine

**CIO**, 1994-09-15 **Global America, 1915-2000** D. W. Meinig, 2006-09-01 This landmark book the concluding volume in a magisterial series presents the story of America's interwoven history and geography from 1915 to 2000 Discussing such developments as the automotive neotechnic and communications revolutions the world wars urban migration and regionalism D W Meinig offers unprecedented insights into the reshaping of the United States Meinig at his best he presents a masterly synthesis of the cultural complexity of America a compelling account of the dramatic but immensely complicated restructuring of its human geography during the twentieth century Graeme Wynn *Journal of Historical Geography* This work will shape the way many people view the United States for a long time to come Essential Choice This splendid work concludes the most ambitious writing project of any American geographer ever Global America meets and even exceeds the high standards set by the previous three volumes John C Hudson Northwestern University

**The Migrants of the Information Age** Rafael Guadalupe Alarcón, 1998 *Essays on Regional Economic Development* Greg Coombs, 2001 There is no doubt that globalisation is a major external influence on small regions These essays show how small regions need not be passive players swept away on the current of change that there are actions that can be taken to navigate a path and ride the currents to

prosperity      *Immigration and Metropolitan Revitalization in the United States* Domenic Vitiello, Thomas J. Sugrue, 2017-04-25 After decades of urban crisis American cities and suburbs have revived thanks largely to immigration This is the first book to explore the phenomenon from big cities such as New York Chicago and Los Angeles to newer destinations such as Nashville and suburban Boston and New Jersey      **The Transforming Spatial Organization in the Information Age** Dadao Lu, 2024-11-04 This book provides a critical account a state of the art review as well as novel research methods of information technology development and the corresponding changes of socio economic spatial organization in China With the rapid development of the Internet over the past three decades the development of information technology and its impact on social economy have become an important frontier issue of human and economic geography Actually the influence of information technology is complex and dynamic involving almost all aspects of socio economic activities and our daily life It is also influencing the methods and disciplines that we use to understand it In general industrial development and regional management and innovation are the core contents of socio economic spatial organization Therefore changes in industrial clusters transportation logistics regional development and innovation urban planning and management and rural development under the background of the information age were analysed to understand the relationship among information revolution socio economic spatial organization and human and economic geography Primarily intended for scholars and graduate students across a range of disciplines such as geography urban rural planning information science urban science economics and sociology and people engaged in regional planning urban management and information management this book proves to be an innovative and up to date resource      *Regions, Globalization, and the Knowledge-Based Economy* John H. Dunning, 2000-09-21 What are the links between the impact of increasing globalization and the advent of the knowledge economy on the spatial distribution of economic activity How can we explain the paradox of growing trans nationalization of the production of goods and services and the tendency for certain kinds of activity particularly knowledge intensive activities to be concentrated or clustered in one place In this changing environment how do firms make decisions about location and the development and deployment of their distinctive capabilities These are some of the important questions addressed in this volume by a team of leading international scholars looking at these dynamics in broad scope The book presents different disciplinary approaches to the knowledge economy viewed from an international perspective and includes detailed case analysis of its impact in different parts of the world It moves between the supra national macro region and the micro cluster as well as looking at associated infrastructural and policy responses This is a rich and informative book that attempts to explain some of the key dynamics and characteristics of the new global economy It will be essential reading for academics in business economics geography and political science wanting to get to grips with current thinking and developments      **Knowledge, Space, Economy** John Bryson, Peter Daniels, Nick Henry, Jane Pollard, 2002-01-04 We are now living through a period of knowledge capitalism in which as Castells put it the action of

knowledge upon knowledge is the main source of productivity In the face of such transformation the economic social and institutional contours of contemporary capitalism are being reshaped At the heart of this world are an emergent set of economies regions institutions and peoples central of the flows and translations of knowledge This book provides an interdisciplinary review of the triad of knowledge space economy on entering the twenty first century Drawing on a variety of disciplinary backgrounds the first part of the book comprises a set of statements by leading authors on the role of knowledge in capitalism Thereafter the remaining two parts of the book explore the landscape of knowledge capitalism through a series of analyses of knowledge in action within a range of economic political and cultural contexts Bringing together a set of authors from across the social sciences this book provides both a major theoretical statement on understanding the economic world and an empirical exemplification of the power of knowledge in shaping the spaces and places of today s society



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