REINVENTING HIGHER EDUCATION

The Promise of Innovation

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Introduction

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AMERICANS ARE ASKING much of their colleges and universities. A slew of public and philanthropic leaders, including President Obama, have called for a dramatic increase in the number of citizens earning college degrees. Observers of globalization point to the need for U.S. universities to keep up with the rest of the world in today's highly competitive educational marketplace.

But far from being poised to meet the challenge, the U.S. higher education system seems more beleaguered every day. State law makers have withdrawn billions of dollars in public funding. Tenure-track jobs are becoming increasingly scarce. While technology has transformed much of society, many public and private nonprofit institutions seem permanently set in ways that were established decades or even centuries ago. The only part of college not mired in tradition is the price.

The result is growing frustration with and within a part of society that has long enjoyed great esteem. Chasing after more dollars in an austere fiscal environment and funneling resources into the same old system won't solve this problem. Higher education has to change. It needs more innovation.

This notion cuts against the common perception of American higher education as the best and most diverse system of postsecondary learning the world has ever seen. It's true that the United States has the lion's share

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and small. With so much excellence and variation, the argument goes, who of the world's great research universities and a fabulous array of institunational, single-gender and minority-serving, urban and rural, gigantic tions from which to choose: public and private, religious and nondenomicould reasonably ask for more?

earn credentials. that has too often proved shockingly bad at helping most undergraduates world-class research universities and elite liberal arts colleges lies a system But these impressions can be deceiving. Beneath a relatively thin layer of

of minority students are even worse. The majority of black and Latino stucome students, first-generation college goers, and the growing population half graduate on time, and many don't graduate at all. Results for low-inseven in ten high school graduates, up from 50 percent in 1970. But barely enroll in college hoping to earn a bachelor's degree get one within six years. the odds are even more daunting. Only 7.3 percent of single parents who to earn a bachelor's degree within six years. For nontraditional students, dents who enroll at four-year colleges as first-time, full-time freshmen fail who work full-time, 10.7 percent. For students whose parents don't help after high school, the equivalent success rate is 13.7 percent. For students tling for a lower-value credential. For students who delay going to college Forty-six percent drop out, with the rest still struggling in college or setthem financially, 7.7 percent. More students than in recent decades are now starting college-about

highest level of education as "some college, no degree." This represents a ditional ways. That's why some 38 million working-age adults report their decades, but the system has not evolved to serve them in effective, nontraand economic vitality increasingly depend on a well-educated citizenry. massive loss of human potential at a time when the nation's social fabric Higher education has swelled with nontraditional students in recent

think, analyze, and communicate. According to Academically Adrift: Liming suggests that too many graduates leave school lacking the ability to ited Learning on College Campuses, a much-noted recent book by sociolo-Meanwhile, the scant available information about college student learn-

> sumed college students should master."1 are failing to develop the higher-order cognitive skills that it is widely aswrote in the Chronicle of Higher Education. "They might graduate, but they dents can be accurately described as academically adrift," Arum and Roksa students show no real learning gains. "[L]arge numbers of U.S. college stufour years, further research by the authors found, more than one-third of ing, or written communications during their first two years of college. Over show no statistically significant gains in critical thinking, complex reasongists Richard Arum and Josipa Roksa, fully 45 percent of undergraduates

in the bargain. gain some postsecondary experience. And every student willing to work hard enough for a degree should be able to earn one, and learn something American educational opportunity: all comers should have the chance to and economic trends within the country have led to a new imperative in up degree production, the United States no longer has that luxury. Social human societies together worldwide and other countries quickly ramping revolutionary advances in communication and transportation knitting the institutions that serve the wider society, the rest could manage. With long as a few people were smart enough to found the businesses and lead This kind of slipshod quality control may once have been tolerable; as

tuition hikes will be similarly offset. nancial aid, the bleak federal budget outlook makes it unlikely that future has not grown as quickly, thanks to significant federal investments in fisolvency. While the net price of college (after accounting for financial aid) the health-care costs that are famously jeopardizing America's long-term economic times and bad, and faster than inflation, family income, or even of a three-decades-long trend of college prices increasing steadily in good the last decade, after adjusting for inflation. This marks the acceleration at public universities increased by an average of 5.6 percent annually over static or declining output paired with skyrocketing prices. According to the nonprofit College Board, tuition and fees for students studying in state other way: a steady decline in productivity driven by a combination of The higher education system also betrays an innovation deficit in an-

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erywhere. All of this adds up to long-term stagnation and a profound lack and complain about overpaid administrators in much the same way, evwith similar pedigrees and organize them into the standard apparatus of grees in the same way, counting the number of hours students are taught of imagination about the possibilities of change. from place to place. They field athletic teams, joust in obscure journals, academic departments. Teaching, tenure, and titling policies vary little and adding them up to two- and four-year credentials. They hire people remarkably similar in others. With few exceptions, they offer the same de-And while colleges differ from one another in some respects, they are

colleges and universities. Their findings were disconcerting: in the academy, to conduct a top-to-bottom examination of the nation's Spellings convened a distinguished panel of experts, many with deep roots term of President George W. Bush. U.S. Secretary of Education Margaret began questioning the core work of higher education during the second After decades of taking a mostly hands-off approach, federal policy makers ing chorus of critiques has come from inside and outside the academy, We are not the first to make these observations. In recent years, a grow-

changing needs of a knowledge economy. It has yet to successfully confront enterprise: increasingly risk-averse, at times self-satisfied, and unduly exeducation has become what, in the business world, would be called a mature new needs and new paradigms.² diverse and aging population, and an evolving marketplace characterized by the impact of globalization, rapidly evolving technologies, an increasingly how academic programs and institutions must be transformed to serve the pensive. It is an enterprise that has yet to address the fundamental issues of What we have learned over the last year makes clear that American higher

gress declared that our higher education system was inadequate, having of President Obama in 2008. Instead, the president's first address to Confallen behind competitor nations in helping adults earn credentials. His Higher education leaders may have expected a respite with the election

> accountability for results in return for federal funds. funding efforts that seek to improve degree completion—and demanding aid and university-based research to pursue a more aggressive strategy of Sam should step outside the traditional role of funding student financial subsequent proposals have broken new ground in suggesting that Uncle

also raised a loud alarm regarded 2009 higher education critique in the New York Review of Books, and faculty tenure. "The Universities in Trouble," Andrew DelBanco's wellwholesale revamping of venerable institutions like academic departments tal, change. Mark Taylor's Crisis on Campus, released in 2010, calls for the willingness to change must be dislodged by fundamental, not incremening American Higher Education asserts that higher education's ingrown unfollowed, Robert Zemsky's Making Reform Work: The Case for Transformbring, accomplish far less for their students than they should." Others soon Derek Bok wrote that "colleges and universities, for all the benefits they a higher education leader of similar stature sounded the same notes. In nesses in the system. Most went unaddressed. Nearly two decades later, the undergraduate experience, identified many of the fundamental weakflaws of higher education. College, Ernest Boyer's prescient 1988 survey of his 2007 volume Our Underachieving Colleges, former Harvard president Meanwhile, a host of books and scholarly works have examined the

of higher learning. raging information technology revolution as the key to a whole new world versity as we now understand it. In one way or another, they all see the reform themselves. Other critics are less wedded to the ideal of the unimoreover, depend on the willingness of long-established institutions to the need for it to progress in the same general direction. Their solutions, still situated within the higher education system itself. They aim to right the ship, but they do not question the fundamental form of the ship or While varied and frequently uncompromising, these criticisms are

emy was published in 1996, in the very early days of the Internet revolution. Learning Revolution: The Challenge of Information Technology in the Acad-This, too, is not virgin territory. Diana Oblinger and Sean Rush's The

on a time line that is rapidly approaching present day. These predictions banking, and journalism. Institutional resistance and barriers to change control, and mode of delivery that technology has visited on industries tion is still likely to experience the kind of earthshaking changes in cost World Learns, Clayton Christensen and his coauthors argued that educa-Disrupting Class: How Disruptive Innovation Will Change the Way the of the traditional university's demise proved premature. But in applying many observers to forecast the destruction of brick-and-mortar colleges In its wake, the enthusiasm surrounding the dot-com boom prompted hundred years. ence that has persisted in various forms for the better part of the last five this world will bear little resemblance to the higher education experiogy empowered, and student centered. For most students, she contends an institution-centered model to one that is mobile, flexible, technol approaching world in which higher learning shifts fundamentally from mation of Higher Education projects these developments forward to an recent book DIY U: Edupunks, Edupreneurs, and the Coming Transforthe trend will move only in one direction. Journalist Anya Kamenetz's embedded in public policy may slow the pace of change, they assert, but ranging from semiconductors and automobiles to music, publishing the "disruptive innovation" paradigm to education in their 2008 book

speed of storing, moving, and analyzing information. Institutions built transformation by technologies that have radically altered the cost and sustained by the production and distribution of knowledge will escape it would require willful blindness to assume that institutions created and of social and financial capital. The duties they perform and the values they disruptive perspectives. Colleges and universities still enjoy massive levels novation will, for the foreseeable future, reflect both the institutional and working as written in similarly permanent material. This has been a safe from ancient stone (or even brick and concrete) tend to see their ways of represent cannot and should not be easily discarded. At the same time bet for a long time. It is no longer so We believe that the most important questions of higher education in-

> self-styled pioneer. and all traditions are outdated. We ought not fetishize the new. Innovation is a slippery concept, one that is often used principally to flatter the There is a danger, of course, in assuming that all change is virtuous

stand and create more fertile ground for new ideas, today's pressing probwe highlight many of them here. But reformers' ideas about how to reorient lems will become tomorrow's irresolvable crises. traditional sector. Without a comprehensive set of policies to better underhigher education are still on the margins of discourse within the dominant higher education. There are promising examples to be found, of course, and tematic research on the prevalence and potential of innovation in American understanding is also inadequate. To date, there has been relatively little syswhole is inhospitable to innovation, properly understood. The depth of that But as the chapters in this volume demonstrate, higher education as a

word at all. institutions that are just coming into existence—or, through the power of institutions. The third looks to the future in examining higher education students interact with institutions in a variety of settings, including tradinovation and how to surmount them. The second examines how changes information technology, are not institutions in the traditional sense of the tional research universities, community colleges, and growing for-profit that have already occurred in the sector are altering the way professors and related sections. The first assesses current barriers to higher education in-The chapters in this book are roughly organized into three thematically

earn degrees. Government regulators act as a brake on competition by subsidies creates few incentives for colleges to help students learn and tions from market competition, and the enrollment-based nature of those differently, or well. Large government subsidies insulate public institulargely stayed the same. That's because colleges lack incentives to teach While research practices have steadily evolved, they note, teaching has limiting entrance to the market. By forcing new institutions to adopt the California begin by sketching the innovation landscape as it exists today Dominic Brewer and William Tierney of the University of Southern

and standardization. Powerful higher education lobbying organizations organizational norms of old institutions, accreditors foster risk aversion help preserve the status quo.

social change originating outside the academy can do the trick, as with to pre-Revolutionary America, to document how higher education has alone such institution, Harrisburg University of Science and Technology in takes new colleges to advance new ideas. Marcus provides a case study of women's suffrage, civil rights, and the rise of the Internet. Otherwise, it voluntarily from within established institutions. Major technological and ways been slow to change. True innovations, Marcus contends, rarely come thrown out many of the conventions that are sacrosanct elsewhere Pennsylvania, which has taken a rare fresh sheet of institutional canvas and Veteran higher education journalist Jon Marcus goes back even further

new organizational models and the power of information technology. The due to their labor-intensive business model. In fact, Massy finds, colleges ductory college courses nationwide. Like Marcus, Massy finds that new inexample, has cut spending and increased learning in hundreds of introwell-regarded National Center for Academic Transformation (NCAT), for can increase performance and lower costs just like everyone else, using during higher education myth: that colleges are doomed to inefficiency stitutions are far more open to innovation than old ones. Former Stanford University vice president William Massy tackles an en-

mix of tenure lottery winners and exploited adjunct instructors ogy and new career models could provide better alternatives to the current of this phenomenon and offers predictions for how information technol-(somewhat ruefully) the many cultural, financial, and institutional causes ration but by the steady erosion of tenure-track jobs. Ehrenberg analyzes case where fundamental change is happening not by sudden flash of inspi-Research Institute, focuses on one such convention: faculty tenure. This is a Economist Ronald Ehrenberg, director of the Cornell Higher Education

half of all new students but receives a far smaller portion of public fundlows by looking inside the neglected two-year sector, which enrolls nearly Paul Osterman, economist at the MIT Sloan School of Management, fol-

> often incoherent missions and matching new resources with accountability problems, with barely more than one-third of all students graduating or for results, Osterman says, will best practices become widespread. transferring to a four-year school. Only by sharpening community colleges' could emulate. At the same time, the two-year sector as a whole has deep workforce—are a prime source of innovative practices that other colleges best community colleges—lean, student-focused, and connected to the ing, media attention, and scrutiny from scholars. Osterman notes that the

need. The key, Hentschke argues, is to marry these virtues to improved growth-oriented than traditional institutions at a time when national leadconsumer protection and greater quality control. teach what they want to teach rather than what students and employers more sensitive to market demand than traditional colleges, which tend to ers are calling for a major expansion in college attainment. They're also new organizational models and business practices. For-profits are far more aid revenue every year. While acknowledging the problem of abuses in the is absorbing a larger percentage of college students and federal financial stitutions. The real action is in the fast-growing for-profit sector, which sity of Minnesota-Rochester, are not traditional public or nonprofit inserves, most new universities, like Harrisburg University and the Univerfor-profit industry, Hentschke finds the sector as a whole to be a hotbed of But as Guilbert Hentschke of the University of Southern California ob-

newspaper industries. ogy has dramatically transformed the music, publishing, banking, travel, and innovation that alters the college landscape in the same way that technolof which date to the eighteenth century. But the Internet has brought online ing. The roots of online learning are in distance education, early examples medium where more than one-quarter of all college students are now learn. exist primarily or even exclusively online. Peter Stokes-vice president and higher education to the point, Stokes argues, where it could be a disruptive tures—examines the hype and reality of higher education on the Internet, a chief research officer at the technology-focused consulting firm Eduven-In the future, such policies will increasingly be focused on colleges that

Finally, Kevin Carey provides a case study of the University of Minnesota—Rochester (UMR) and describes how this brand-new public university highlights the possibilities of innovation and reform. As in the case of Harrisburg University, described by Marcus, the administrators of UMR took the opportunity of starting from scratch to discard many long-cherished practices and create a focused, dynamic institution that makes full use of technology. Massy also cites UMR as an organization that puts the lie to the notion that low higher-education productivity is a chronic condition. UMR provides undergraduates with far more in the way of direct teaching and staff resources than the typical university at a fraction of the cost. Carey argues that if lawmakers in Minnesota can overcome the failure of imagination and bureaucratic hurdles cited by many of the chapter authors, other state leaders can do so as well, seeding a new generation of

In sum, the authors describe a traditional higher education system in which innovation occurs in fits and starts, dependent on the whims of individual actors or the rare opportunity afforded by the creation of new institutions. Public and private nonprofit colleges lack strong enough incentives to overcome the forces of traditionalism and innovate at scale, and so they don't. Meanwhile, the burgeoning for-profit sector is spinning out new definitions of higher education at a rapid rate, but these innovations are often overlooked in debates about their profit motive. What the nation lacks is higher education innovation harnessed to public purpose: institutions rooted in a commitment to knowledge creation and student learning but open and eager to embrace better ways of realizing those goals. This volume provides a glimpse of what that future could look like. But there is much to accomplish in order to get from here to there.

Barriers to Innovation in U.S. Higher Education

Dominic J. Brewer and William G. Tierney

Virtually every major innovation of recent decades builds on the work of the university community... Countless innovations revolutionizing American life and the American economy have emerged from a university setting. Here we come to a paradox. Though the university community is a major force of innovation in our society, it is curiously resistant—even hostile—to innovations attempted within the university.¹

HIGHER EDUCATION IS WIDELY lauded as an American success story.² Over four thousand public and private postsecondary institutions enroll some twenty-five million students.³ During the past century, the sector has expanded greatly, providing educational opportunities for an increasingly diverse population and offering a plethora of courses of study, from certificates to doctorates in hundreds of subjects. New providers have emerged that are tailored to shifting student demands.⁴ Universities continue to produce breakthrough scientific discoveries and inventions such that the research university remains a central driver for creative vibrancy across urban and regional areas.⁵

Yet despite this backdrop, there is increasing concern that the nation's colleges and universities are ill equipped to adapt to a rapidly changing environment and that traditional institutions are resistant to enabling new