BUSINESS TRENDS IN THE DIGITAL AGE:

Evolution of Theories and Applications

数字化时代的十大商业趋势(英文版)

Zhu Xiaoming Song Bingying et al. 朱晓明 宋炳颖 等 著

Cao XuehuiWang YanWang ChenZhou Wei et al.曹雪会 王燕 王晨 周伟 等 译





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著





图书在版编目(CIP)数据

数字化时代的十大商业趋势: 英文/朱晓明等著; 曹雪会等译. 一上海: 上海交通大学出版社, 2016

ISBN 978 - 7 - 313 - 14258 - 0

I.①数⋯ II.①朱⋯②曹⋯ III.①商业经济—经济发展趋势—研究—世界—英文 IV.①F731

中国版本图书馆 CIP 数据核字(2015)第 314508 号

Not for sale outside the Mainland of China (Not for sale in Hong Kong SAR, Macau SAR, and Taiwan, and all countries except the Mainland of China)

数字化时代的十大商业趋势(英文版)

著 者: 朱晓明 宋炳颖

出版人: 韩建民

印 制: 上海天地海设计印刷有限公司 经 销: 全国新华书店

开 本: 710mm×1000mm 1/16 印 张: 19.5

字 数: 258 千字

版 次: 2016年1月第1版 印 次: 2016年3月第3次印刷

号: ISBN 978-7-313-14258-0/F

定 价: 68.00 元

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联系电话: 021-64366274

Foreword I

Prof. Wu Jinglian

Renowned Chinese economist

Baosteel Chair Professor of Economics, CEIBS

Senior Research Fellow, Development Research Centre of the State Council of P. R. C.

By virtue of the great breakthroughs in digital technologies, the information revolution, which began in the 1950s, initiated an upsurge in mass entrepreneurship and innovation at the turn of the century. In the digital age, a dazzling array of novel ideas, technologies, products and business models spur companies forward, while those who react sluggishly will fall into ruin. Even as they cleave to the proven models, traditional industries will still need to tap into the colossal mobile Internet community to achieve global reach. In our ever-changing world, making the most of the present and seeing into the future are no small tasks. Through mining and analyzing mountains of data, Prof. Zhu Xiaoming and his team have identified ten mega business trends (big data, cloud computing, platforms, mobile Internet, software-defined anything, outsourcing and crowdsourcing, the demand-driven model, the long-tail market, digital finance, and the O2O model), offering us a vivid and richly detailed panorama of the digital age.

No matter for business or pleasure, this book offers a wealth of knowledge and insight for the reader.

Foreword II

Prof. Liu Ji
Renowned Chinese strategist
Honorary CEIBS President
Former Vice President, Chinese Academy of Social Sciences

It is a rare to find a book of such timeliness and insight into the business strategies of the digital and Internet age.

Dr. Zhu Xiaoming, CEIBS Professor of Management and former President, has an extensive background in science and engineering. He rose through the ranks of businesses and governmental bodies and has acquired vast management experience in the process. Over the past decade, he has engaged in teaching and research at CEIBS. His wealth of knowledge and experience is reflected within this work, which offers penetrating theoretical analysis and many fresh ideas.

As a professor of an international business school, I am deeply impressed with his industry and intellectual rigor. The data in the book are based on extensive research and surveys of companies, and Prof. Zhu deserves special praise for the array of topical cases used to illustrate and support the book's views. This is a work that will be of great value and interest to the academic, political and business communities.

Author's Preface

Dr. Zhu Xiaoming

Professor of Management and Former President (June 2006 - March 2015), CEIBS

In the age of digital technology and Internet, user-centric thinking, iteration, platform, freemium and sharing have caught on; the tide of openness and inclusiveness, deconstructing and disintermediation have sprung up; garage culture, café culture and grassroots culture have taken hold all over the world.

Which underlying business trends merit special attention? In my mind, ten mega business trends in the digital age described in this book demonstrate sound logic: Trend I, Trend II, Trend III and Trend IV, "Big Data, Cloud Computing, Platforms and Mobile Internet", predict the changes in infrastructure; Trend V, "Software-Defined Anything", focuses on changes in productivity; Trend VI, "Outsourcing and Crowdsourcing", anticipates changes in production organization; Trend VII, "Driven By Demand", explains the changing forces of economic growth; Trend VIII, "Long Tail", forecasts an altered competitive landscape; Trend IX, "Digital Finance", analyzes changes in financial entities and technologies; Trend X, "collaboration", probes into changes in operations models.

Business Trends in the Digital Age will give you some enlightenment as to how to gain a solid foothold in the market amidst fierce competition. This book is also a must-have to innovation, investment, M&A, business transition and start-ups for entrepreneurs.

Some readers may ask why digital technologies can change business trends. One of the basic theories in economics and management is to reduce transaction costs, and transaction costs can be reduced by addressing information asymmetry. In the digital era, data can be mined, resources be shared, long-tail

and blue ocean strategies can be leveraged to drive down costs and enable companies to transform themselves and thereby reshape the industries and rewrite the business trends.

In the age of digital technology and Internet, it has been quite common that "following trends" outweighs "building up advantages". Thus, those who follow the beaten track may breathe a sigh of regret that they have been "out" before getting down to SWOT analysis.

It is my great honor that *Business Trends in the Digital Age* has received the first prize for academic works at the 4th Chinese University Press Book Awards. We are convinced that academic works can't be separated from teaching (in particular case teaching). Only by continuous learning and interaction in the class can academic works be as fresh and compelling as ever.

On this occasion, we, Zhu Xiaoming(朱晓明) and Song Bingving(宋炳颖) would like to express our thanks to Ning Yingzi(倪英子), Ren Yifan(任轶凡), Li Rui(李蕊), Cao Xuehui(曹雪会), Luke R. Krawec, Wang Yan(王燕), Wang Chen(王晨), Zhou Wei(周伟), Huang Xie'an(黄协安), Xu Qian(许 茜), Yu Rui(俞睿), Zheng Youjia(郑幼佳), Zhao Nan(赵楠), Fan Jingjing (范晶晶), Guan Peng(关鹏), Zhang Yu(张羽), Xiao Yingjun(肖颖君), Zhu Yezi(朱叶子), Shi Tianyu(施天瑜), Huang Chengyan(黄成彦), Ma Lan(马 蓝), Wang chengde(汪承德), Jiang Junzhe(姜浚哲), Wang Danping(王丹 萍), Zhu Yifan(朱轶帆), Zhang Yingwen(张颖文), Ma Ning(马宁), and Zhang Junrui(张郡芮) for their great efforts made in translation and proofreading of the book, and special thanks go to Yang Yemin(杨烨旻), Han Feng(韩丰), Chen Haimin (陈海闽), Xie Jun (谢隽), Lee Yong-Fatt (李永发), Wu Shengshan(吴晟姗), Meng Hao(孟浩), Tian Minwei(田珉炜), Ma Li(马利), Jiang Jiawei(姜嘉维), Li Angda(李昂达), Wang Yi(汪毅), Zuo Jiqing(左冀 卿), Wang Dongqing(王东卿), Sun Wei(孙伟), Deng Qin(邓琴), Dmitry Andreev, Ramiro Gomez Lopez, Alberto Miranda Ordono, Kevin James Shimota, Upendra Pratap Singh from CEIBS MBA 2016 & 2015 cohorts for their excellent voluntary work in the whole translation and proofreading process. I still remembered that on January 17 one of CEIBS MBA students Wu Shengshan asked me during the book launch ceremony if this book can be translated into English through crowdsourcing. If the second edition of the book is to be released in the future, I will definitely write a case on translation through crowdsourcing and add it into the second edition.

In the age of digital technology and Internet, everyone has an opportunity to realize their dreams. For entrepreneurs or educators, nothing matters more than commitment for them to follow the ever-changing business trends or to keep pace with the fast-growing S&T innovation. Only by trying to surpass the front runners and going beyond ourselves can we make a foray into uncharted territory to create a brave new world.

CEIBS Shanghai Campus
December 2015

Preface

The ICT (Information Communication Technology) Revolution is a "story about the service sector"... By virtue of the ICT, efficiency in the service sector has substantially risen in tandem with its transition.

-The Choice of China's Growth Model (2013 edition), Wu Jinglian

I find that the great thing in this world is not so much where we stand as in what direction we are moving.

-O. W. Holmes (1841 - 1935)

On October 22, 2014, Prof. Samuel Chao Chung Ting, a Chinese-American scientist who received the Nobel Prize in Physics in 1976, delivered a lecture as part of the Master Class Series on CEIBS Shanghai Campus. He noted, "It is my first time to deliver a speech to MBA and EMBA students at a business school." It was also the first time CEIBS had hosted a Nobel Laureate in Physics for a lecture. As noted by Prof. Ting, physicists are capable of not only seeing beyond the edge of the Milky Way (10²⁵ meters) and observing more distant galaxies, but also probing entities as small as quarks (10⁻¹⁷ meters). From the largest galaxies to the tiniest particles, our point of view about the objective world changes over time; from basic research to applied technologies, the frontiers of science have been pushed forward and the number of applications has grown.

Although Prof. Ting's lecture dealt with physics theory and applications, the basic idea also applies to the business world. Since the division of labor and market transactions began, people have sought new ways to reshape the business world. From macroeconomic trends to micro organizations, economic law to business strategies, and technological innovation to business model innovation,

we have gained deeper insight into the business world and enhanced the diversity of business applications.

In the digital and Internet age, companies may be facing the toughest competition, the fastest business shifts and the largest number of innovations in history. New ideas, models and businesses are mushrooming. Business schools need to keep pace with the times to help entrepreneurs understand the business trends in the digital age so as to grasp opportunities for innovation. This is why we named the book *Business Trends in the Digital Era: Evolution of Theories and Applications* (hereinafter referred to as *Business Trends in the Digital Era*).

To understand these business trends, we need to delve into the works of management gurus, including *The Choice of China's Growth Model* by Wu Jinglian, *The Theory of Economic Development* by Joseph A. Schumpeter, and *The Practice of Management* by Peter F. Drucker, while making management theory part of our own business practices.

This book originated from the lecture notes Prof. Zhu Xiaoming and his research team prepared for students. So far, no fewer than ten classes have taken Prof. Zhu's course. Converting the lecture notes into a book didn't seem overly difficult, at least until we actually put pen to paper. First, in class, we can supplement our lecture notes with PowerPoint presentations or with audio and video materials to capture and hold students' attention. But in writing the book, we had to rely on key points of view, content and internal logic, rather than on auxiliary tools. What also important were ensuring the writing itself was vivid and that the cases were up-to-date. Second, for students, we need to boil down the course content into lecture notes to bring out its essence; for readers, we must instead go to great lengths to expound our views and strengthen them with cases. Third, as digital technologies and business models are advancing by leaps and bounds, we need to keep abreast of and incorporate developments in the issues and cases referred to in the book, ensuring we can substantiate our points of view with up-to-date information.

We have poured all our mental and physical energy to writing the book. Seeing the book published provides us with a great deal of comfort, as our efforts have borne fruit at last. It is my sincere hope that the book will serve not only as a textbook for business schools, but also as a guide to innovation, investment, M&A, business transition and start-ups for entrepreneurs.

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