Education Innovation by ICT is Challenging Traditional Education System

"互联网+教育" 呼唤教育制度创新

Li Chen Prof.

Beijing Normal University (北京师范大学)

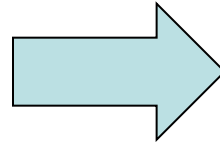June 22, 2016

Email: lchen@bnu.edu.cn

Technology in Education

Disruptive Technology
颠覆性的技术

Sustainable

- Video
- Multimedia
- Video conference
- Digital campus

Disruptive

- Internet
- Smart Cell phone
- Cloud Computing
- SNS （微信）

Disruptive Application and Innovation
颠覆性的应用和创新本质

- MOOCs: Take credit cross the campus （跨校选课）

- Flipped Classroom：New function of face-face class（课堂职能转变）

- Khan college: Anyone can provide teaching（草根可以提供教学内容）

- NCODE : Public learning support system（成人远程教育的招生和学习支持服务社会化）

Disruptive Application is More Effective for Improving Education
颠覆性的应用在解决教育问题上更有效
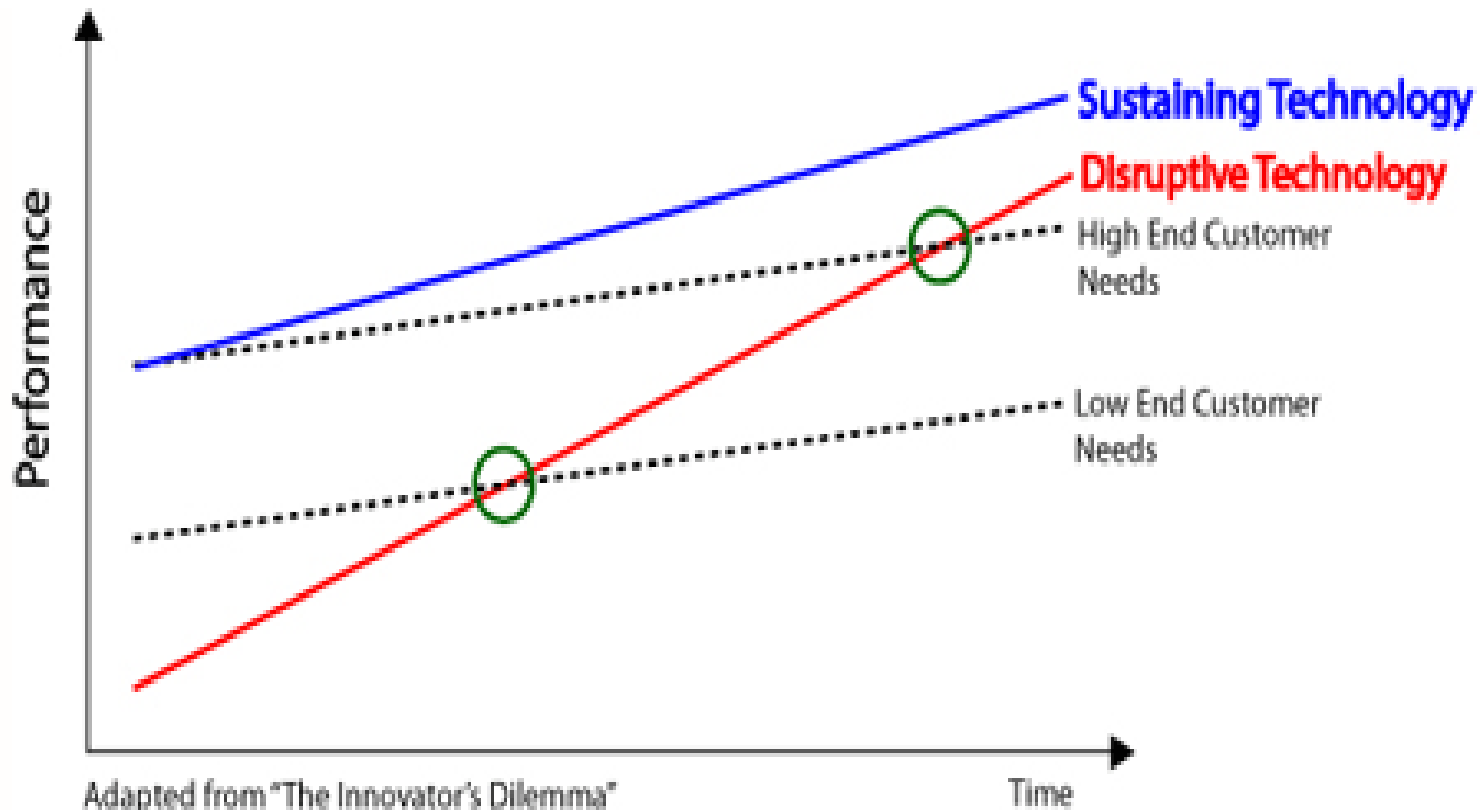
Adapted from "The Innovator's Dilemma"
Clayton M. Christensen

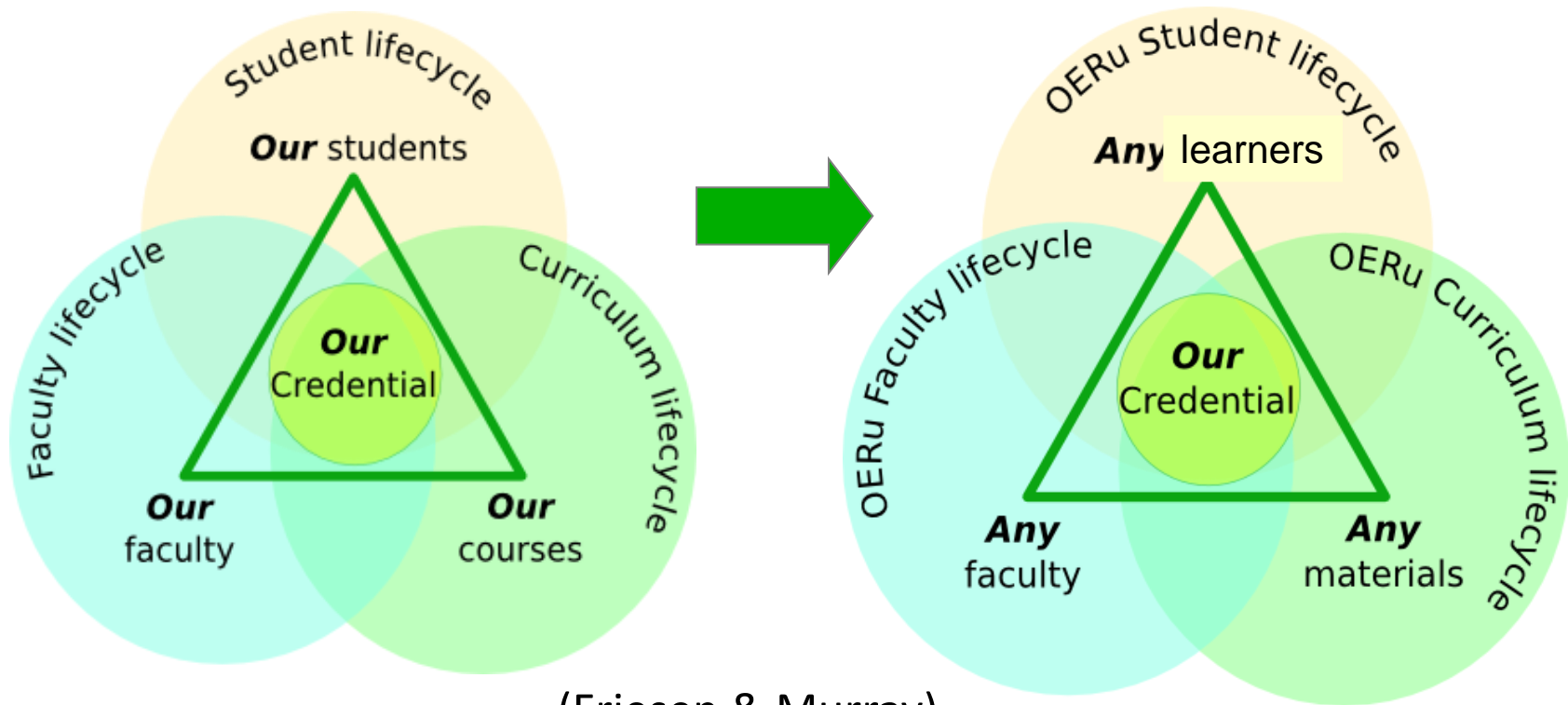# Level of Human Capital（HC） is Much lower than expectation
人力资本水平仍较低

2014-2015 Global competitiveness（全球竞争力排名）			
Country	composite	Innovation	High education training
China	28	32	68
Swiss	1	2	4
Singapore	2	9	2
U.S. A	3	5	7
Finland	4	1	1
Germany	5	6	16

Growth of HC: from 6.3% to 9.3% in the five years
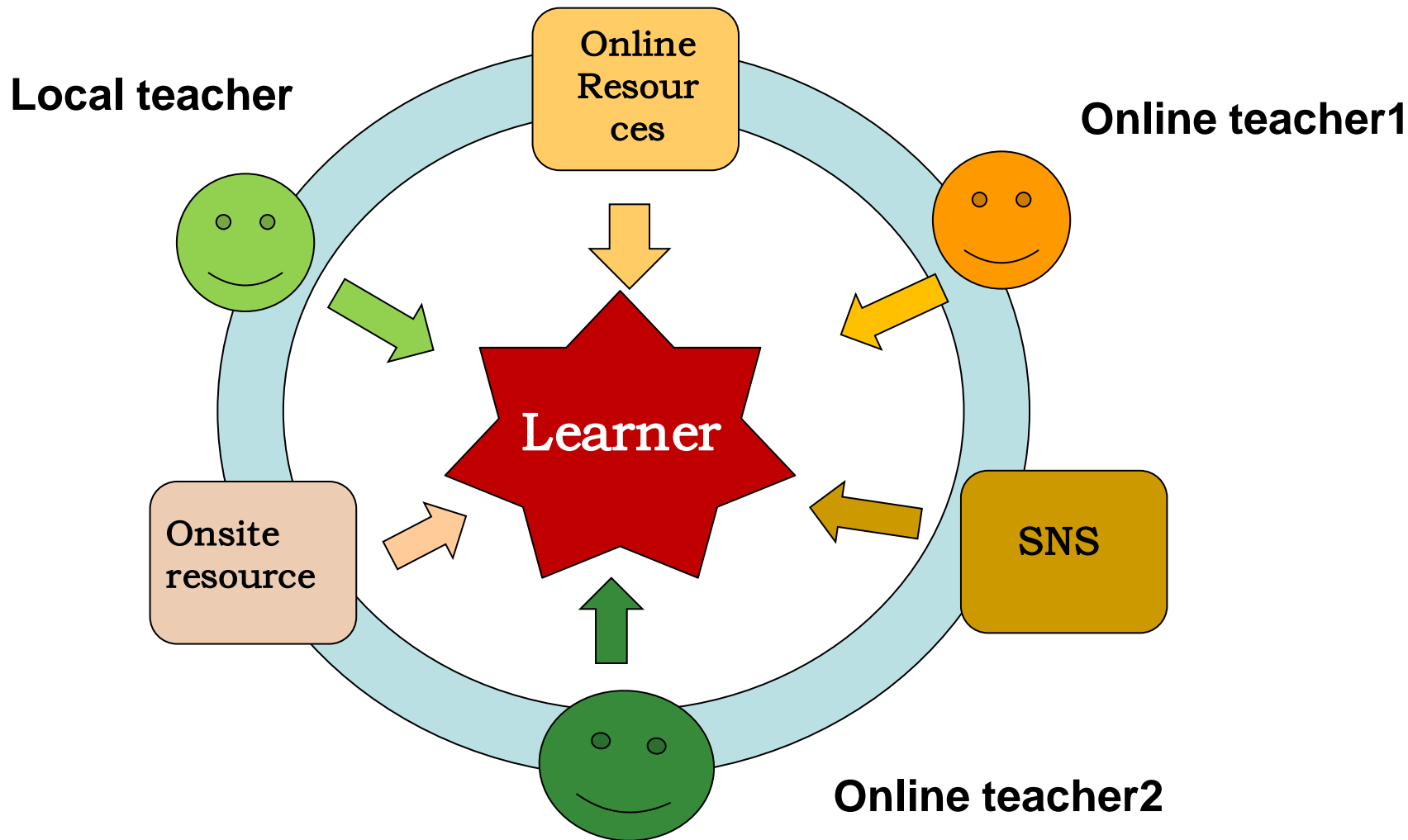
New Way to Enhance HC Level
快速提升我国人力资本水平的新途径

(Friesen & Murray)

Traditional University   Open High Education System

New Way to Improve Education in Rural Area
促进基础教育均衡发展

Local teacher

Online teacher1

Online
Resour
ces

Learner

Onsite
resource

SNS

Online teacher2

More Possibility Vs Less Reality
丰富的可能性与教育创新不足的现实

We are Questioned by the Public
教育信息化的投入被社会质疑

Why?（为什么？）

Innovative Culture
创新文化

New Education System
新制度

Typical Response to the Change Issus
信息化只是少数人的职责

New Education System
技术推动教育变革需要的新制度

Qualification framework + Quality Assurance = Lifelong learning system

教学 》》 学习
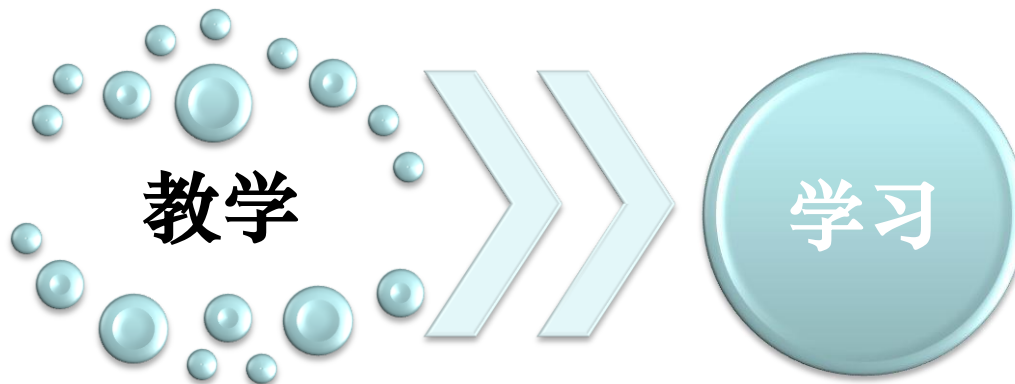
Teaching   Learning

Change the Focus of Our Work
调整我们的工作重心

"Kotters Eight Steps of Change"

Involved whole organization
让所有人都理解和参与变革

Creating a climate for change

Engaging and enabling the whole organization

Implementing and sustaining change

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| Increase Urgency | Build the Guiding Team | Get the Right Vision | Communicate for Buy-in | Empower Action | Create Short-term Wins | Don't Let Up | Make it Stick |

Building New Education System
努力构建全新的教育制度体系

LEARNING：Qualified ✚ Individualized ✚
Flexible ✚ lifelong

Learning is Changing
学习需求已经变化

Education System Has to be rebuilt
教育体系和教育制度终将被重构