



北京师范大学中国教育创新研究院

**China Education Innovation Institute
Beijing Normal University (CEII)**

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CEII@BNU

- ◆ 研究院简介 Brief introduction of the Institute
- ◆ 21世纪核心素养的全球经验 The Global Experience of Developing Twenty-first Century Skills and Competencies
- ◆ 核心素养的5C模型 5Cs framework for 21st Century Key Competences
- ◆ 中国教育创新成果公益博览会 China Educational Innovation Expo

面向未来： 21世纪核心素养教育的全球经验

EDUCATION FOR THE FUTURE:
The Global Experience of Developing Twenty-first Century Skills and Competencies



成立背景 *Background*



2014年9月9日，习近平总书记视察北京师范大学，并与师生座谈。为了进一步发挥北师大对实现中国教育实践的系统创新与转型升级的推动作用，**2014年12月成立中国教育创新研究院。**

On Sept. 9th, 2014, President Xi paid a visit to Beijing Normal University and emphasized the significance of educational innovation in China.

At this moment, China Education Innovation Institute (CEII) was founded in BNU with an aim to promote the innovation and transformation of Chinese educational practice.

目标 *Goal*

目标

研究院秉持专业的学术立场，坚守教育的基本规律和青少年身心发展规律，通过不断发现、培育、遴选和推广学校课程、学生学习、质量评价、教师发展、校长领导力等领域的优秀教育成果，推动教育创新成果广泛惠及每一所学校、每一位教师、每一名学生，实现中国教育实践的系统创新与转型升级。

China Education Innovation Institute (CEII) observes the basic law of education and the law of physical and mental development of youth. It has been on an ongoing journey of identifying, nurturing and disseminating innovation achievements in the educational areas, including school curriculum, student learning, quality assessment, teacher development and principal leadership. CEII believes that innovations made in the education sector will benefit every school, every teacher and every student, thus enabling the systemic innovation, transformation and upgrading of China's educational practices.

Goal

定位 *Orientation*

定位

研究院作为独立第三方，以集聚社会公益资本推动教育创新发展、促进青少年身心健康成长为宗旨。

As an independent organization, CEII is aimed at collecting social capital to promote the educational innovation and the physical and mental development of child and youth in China.

Orientation



刘坚院长

Prof. Liu, Jian

Dean of CEII

国家特约督学，中国基础教育质量监测协同创新中心首席专家、副主任、博士生导师。

National Educational Inspector, Doctoral Supervisor, Chief Expert and Vice Dean of China Collaborative Innovation Centre of Basic Education Quality Assessment

参与组织国家义务教育和普通高中课程方案和课程标准研制与实施。

-Initiated and drove the Project of Chinese National Curriculum Standards, including their development, implementation and revision

主持研制“国家义务教育数学课程标准（2001-2010）”。

-Acted as leader of the composing group of *China National Mathematics Curriculum Standards for Compulsory Education (2001-2010)*

专业力量 *Experts*

研究院广泛吸纳国内外正在关注和推动教育创新的优秀人士和智力资源，以不同形式参与中国教育创新研究院工作和相关研究，不断壮大研究院的力量，提升研究院的知名度和影响力。

CEII has recruited talents and absorbing intelligent resources from all over the world. In one way or another, a group of experts of different education fields are working together in several research projects and other jobs of CEII, which helps increase the visibility and influence of CEII.

特聘研究员

Distinguished Researcher

兼职研究员

Part-time Researcher

专职研究员

Full-time Researcher

企业界人士

Entrepreneurs

公益界人士

Charity staff



教育科学研究者

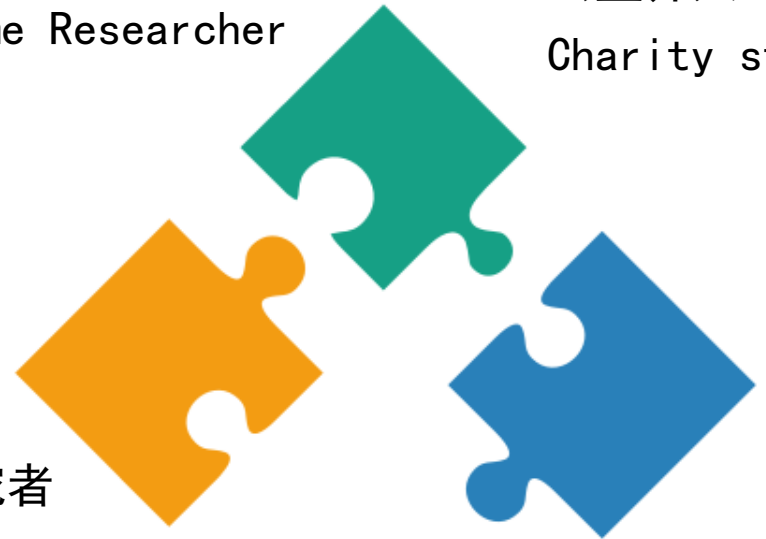
Researchers of educational science

教育行政管理者

Education Administrators

一线教师

Teachers



面向未来： 21世纪核心素养教育的全球经验

EDUCATION FOR THE FUTURE:

The Global Experience of Developing Twenty-first Century Skills and Competencies



如何培养面向未来社会的人？



面向未来，社会到底需要什么样的人？他们应该具备哪些素养？

如何培养未来的公民，以使其能够更好地适应21世纪的工作与生活？

What competencies should citizens develop for the needs of the new century? How to cultivate future-oriented citizens to better adapt to the work and life of the 21st century?

Term	Organizations/Economies
21 st Century Skills	P21
21 st Century Competencies	OECD, Singapore
Key Competences	European Union
General Capabilities	Australia
Generic Skills	Hong Kong SAR, China
Core Competencies	Chinese Taiwan, Mainland China

**2015年4月，与世界教育创新峰会（WISE）
CEO会面。WISE委托中国教育创新研究院
提交一份关于全球核心素养发展的国际报告。**

Professor Liu Jian, Director of CEII, met with Mr. Stavros N. Yiannouka, CEO of the World Innovation Summit for Education (WISE) in Beijing in April, 2015. The two parties have formed a strategic partnership and agreed on the cooperation of promoting education innovations.



- **主 持 人**：刘坚、魏锐
- **主要执笔**：魏锐、刘晟、师曼、周平艳、**陈有义 (Singapore)**、刘霞
- **参与作者**：王郢 (武汉大学教育学院)、姜英敏、**李静懿 (UK, 爱丁堡大学教育学院)**、**王晓雨 (Japan)**、**刘楠 (Russia, 莫斯科国立师范大学)**、方檀香、施冰、赵雅萍、张杨、李易鸿、王文娟、赵瑶瑶、凌莹烨
- **贡 献 者**：卜文娟、丁雪阳、杜宵丰、桂洲、刘启蒙、马利红、彭涛、冉蔓、王梦帆、王婷、张红、詹立、张之堃、赵树新、周达
- **中文统稿**：刘坚、魏锐、陈有义
- **英文统稿**：陈有义、**John Bidder (UK)**、姚斌 (北京外国语大学)、师曼、刘晟、魏锐、周平艳
- **资 助 方**：WISE、北京师范大学中国教育创新研究院

感谢北京师范大学辛涛教授、**联合国教科文组织 (UNESCO)** 苗逢春博士在项目研究过程中提供的大力支持！

Thanks to Professor Xin Tao of Beijing Normal University and Dr. Miao Fengchun of UNESCO for their great support in the process of project research!

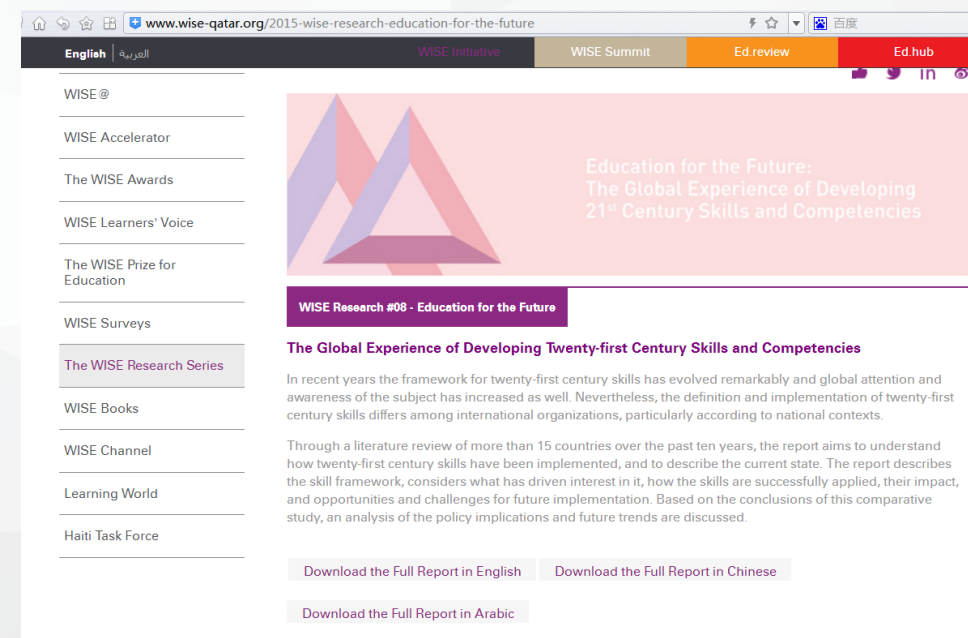
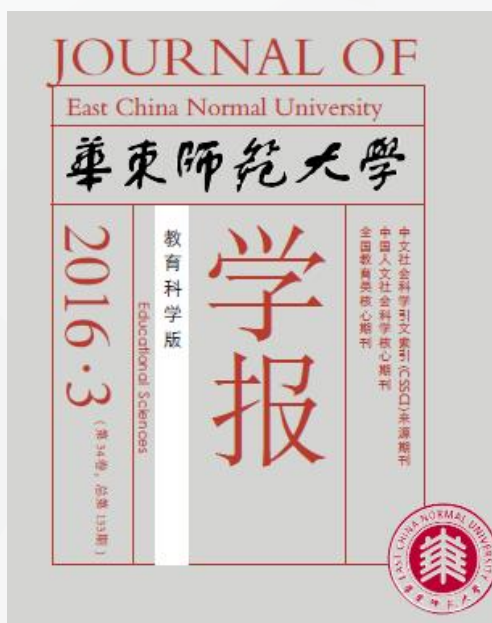
感谢**WISE**研究总监**Asmaa Alfadala**博士，**WISE**团队**Malcolm Coolidge**先生等多次参与讨论、提出修改建议，以及对文稿的编辑加工。

Thanks to Dr. asmaa alfadala, research director of wise, and Mr. Malcolm Coolidge, research team of wise, for participating in the discussion, putting forward suggestions for revision, and editing and processing the manuscript for many times.



2016年6月3日 北京，英文版发布
Beijing, June 3, 2016, English

2015 年11月3-7日 卡塔尔 November 3-7, 2015 Qatar



2016年7月、10月 中文核心期刊
July and October, 2016, Chinese core journals

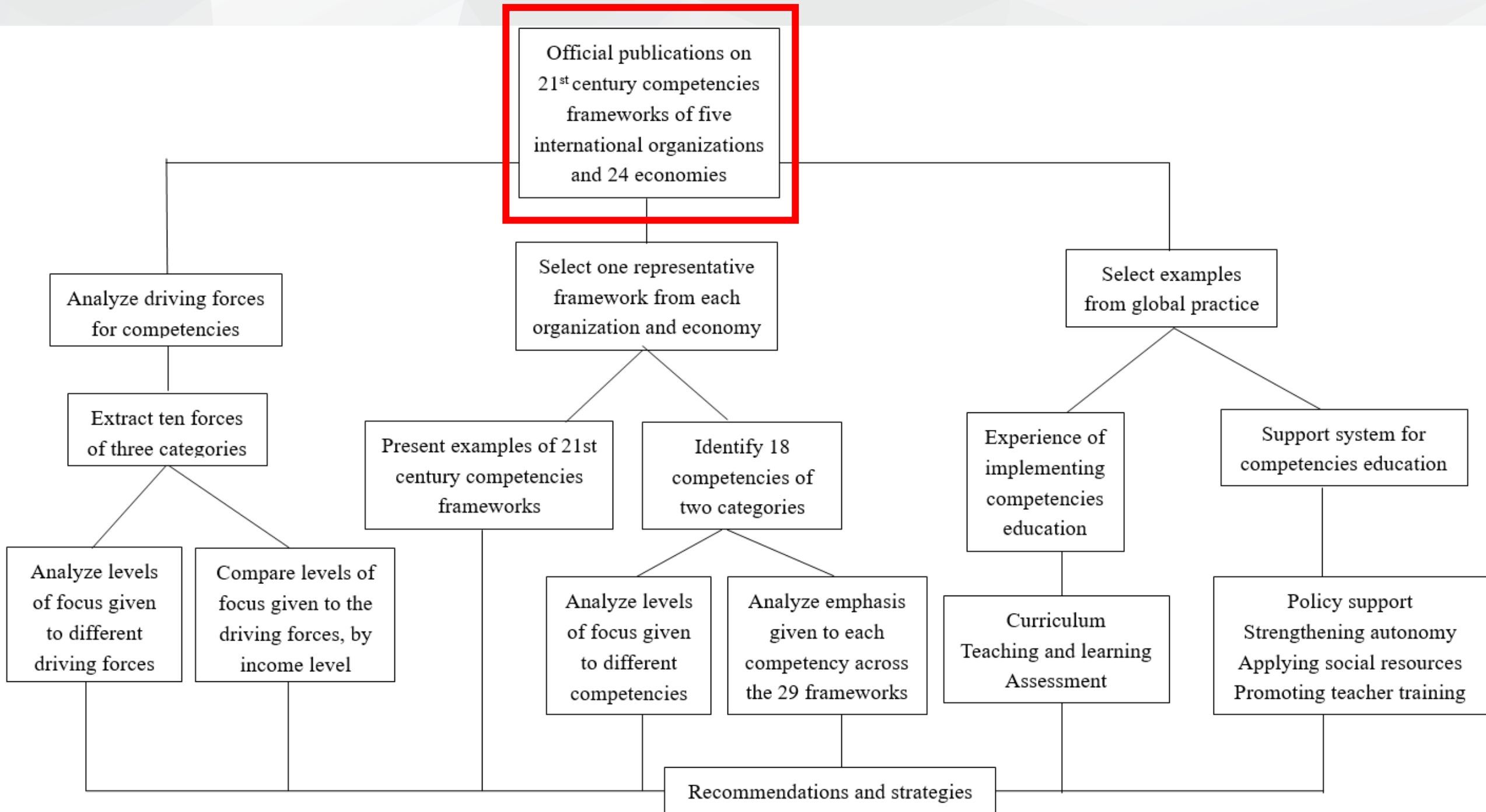
2016年11月 WISE，中文、阿拉伯文版发布
Wise, November 2016, Chinese and Arabic versions released
<http://www.wise-qatar.org/2015-wise-research-education-for-the-future>

five international organizations

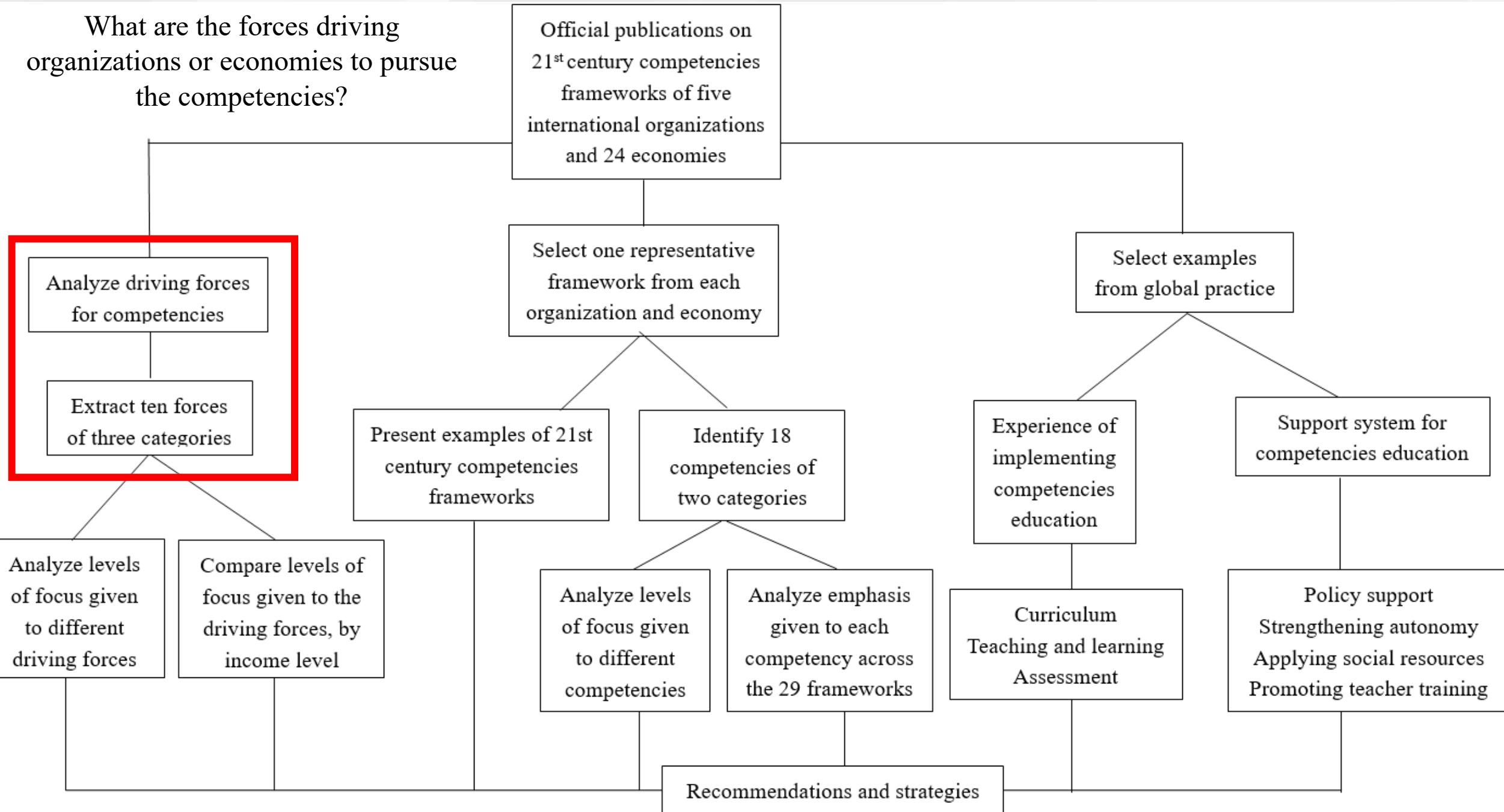
- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- Organization for Economic Co-operation and Development (OECD)
- European Union (EU),
- World Bank
- The Asia-Pacific Economic Cooperation (APEC)

24 economies

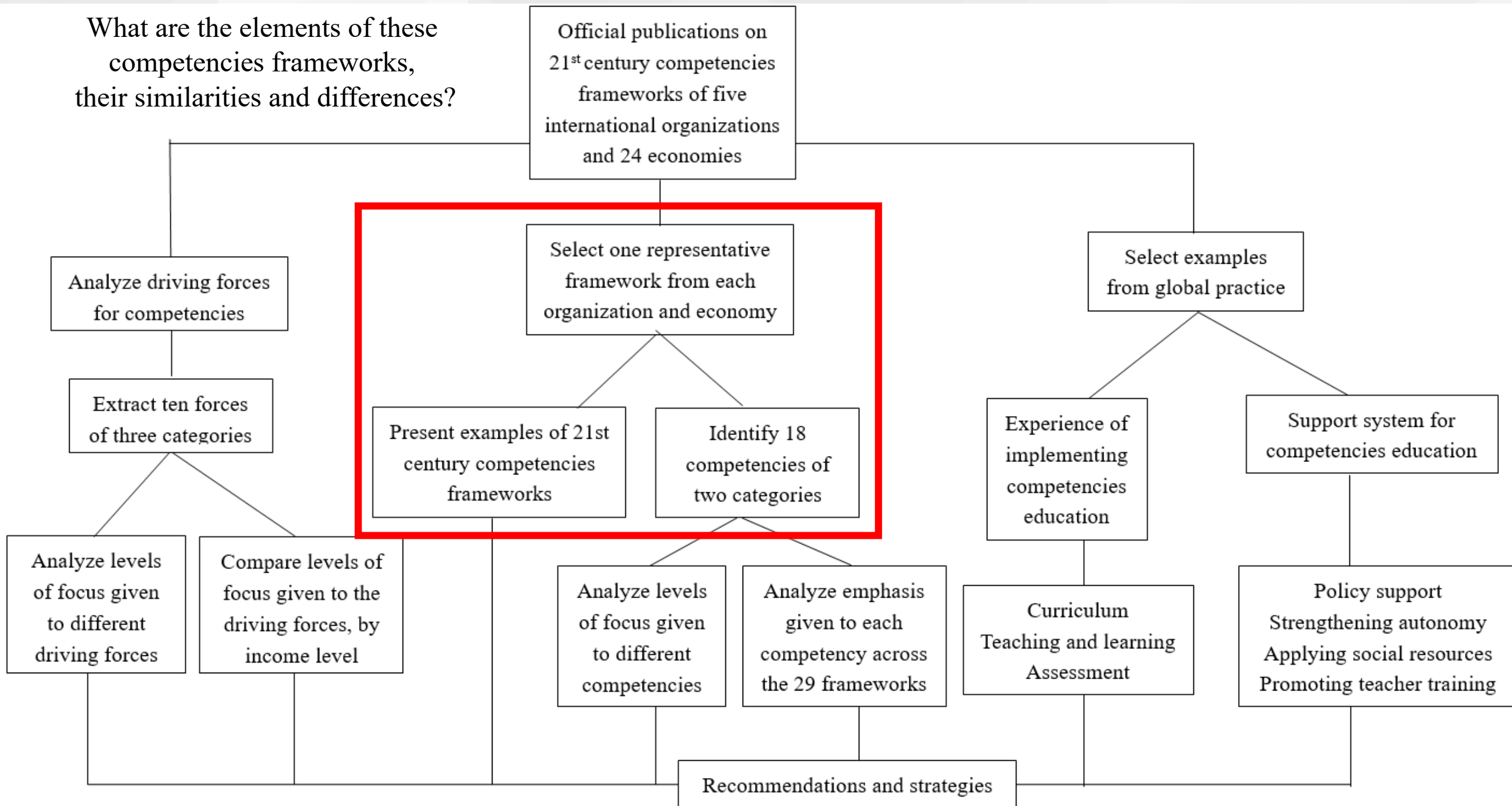
Continent		Economies
1	North America	USA, Canada
2	South America	Brazil
3	Europe	United Kingdom, France, Finland, Russia
4	Oceania	Australia, New Zealand
5	Asia	Mainland China, South Korea, India, Japan, Qatar, Israel, Chinese Taiwan, Hong Kong SAR, China, Singapore, Indonesia, Malaysia, Philippines, Sri Lanka, and Thailand
6	Africa	South Africa
Total	6	24



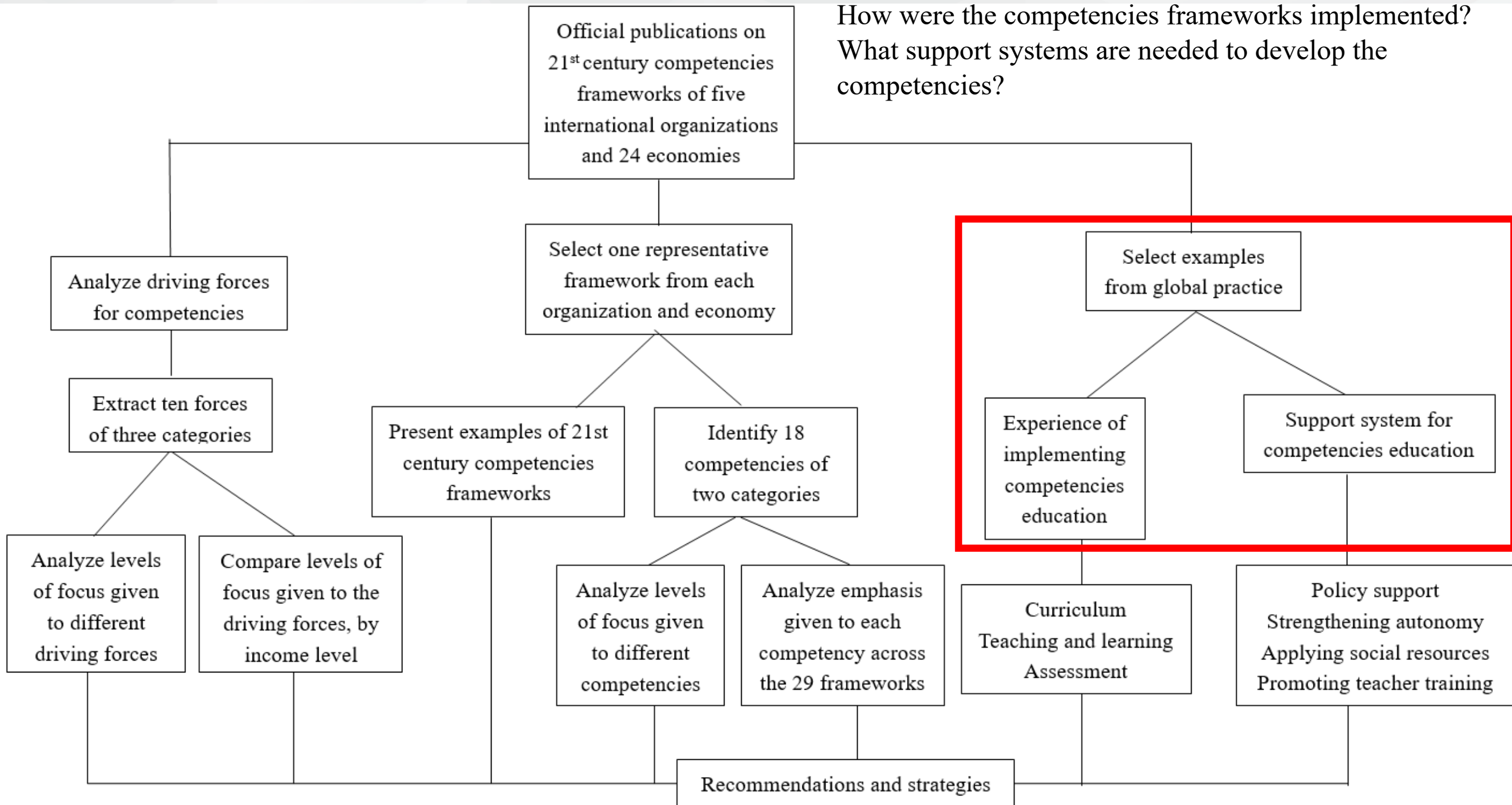
What are the forces driving organizations or economies to pursue the competencies?

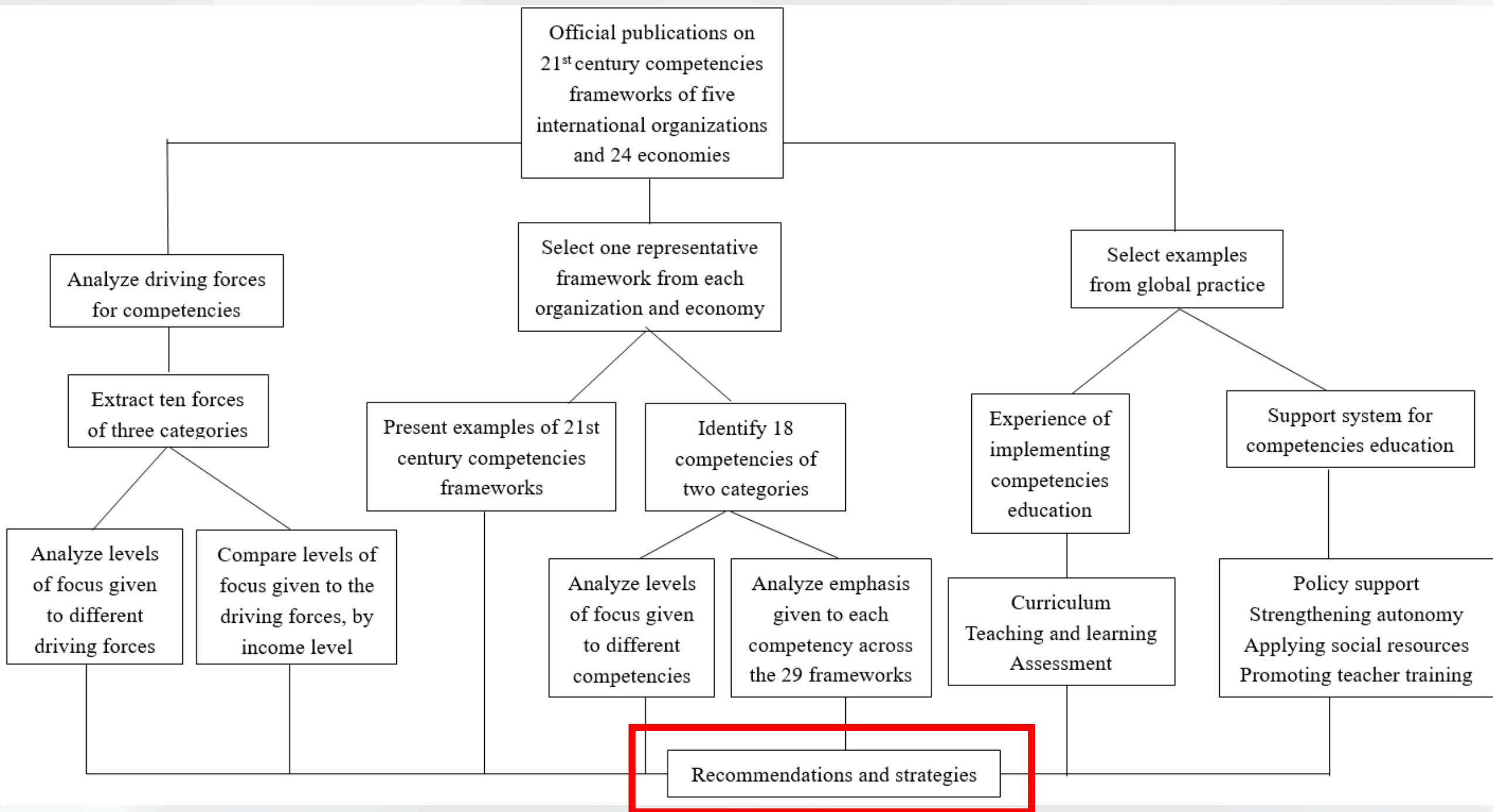


What are the elements of these competencies frameworks, their similarities and differences?



How were the competencies frameworks implemented?
What support systems are needed to develop the competencies?





21世纪教育所面临的十大挑战 Ten challenges of education in the 21st century

Driving Forces for 21st Century Competencies

Change and transformations in science and technology

Force 1: Globalization

Force 2: Knowledge Age

Force 3: Scientific and Technological Development

Economic and Social Development

Force 4: Economic Growth

Force 5: Occupational Needs

Force 6: Demographic Changes

Force 7: Multicultural Trends

Force 8: Environmental and Sustainable Development

Educational Development

Force 9: Education Quality Improvement

Force 10: Educational Equity

1) 时代与科技变革：

全球化、知识时代、科技发展与信息时代；

2) 经济与社会发展：

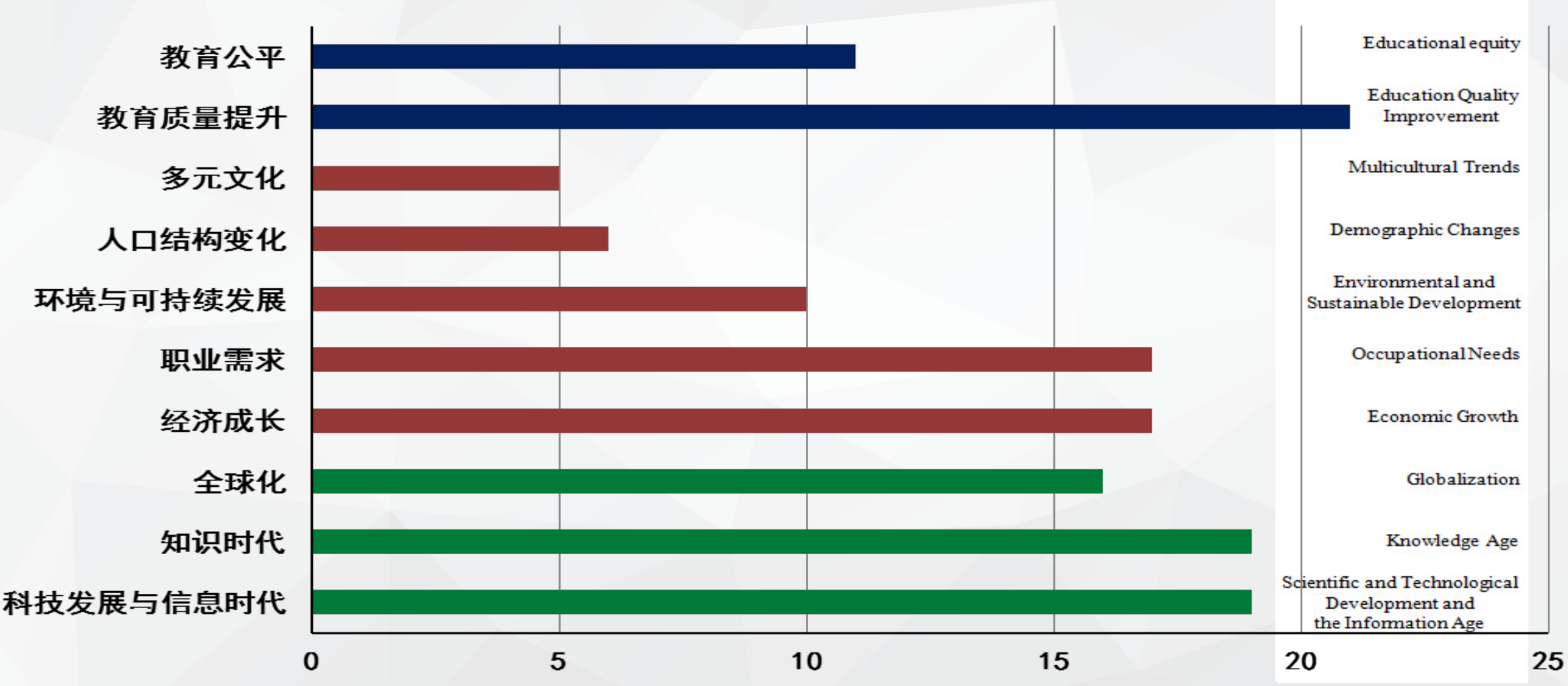
经济成长、职业需求、人口结构变化、多元文化、环境与可持续发展；

3) 教育发展：

教育质量提升、教育公平。

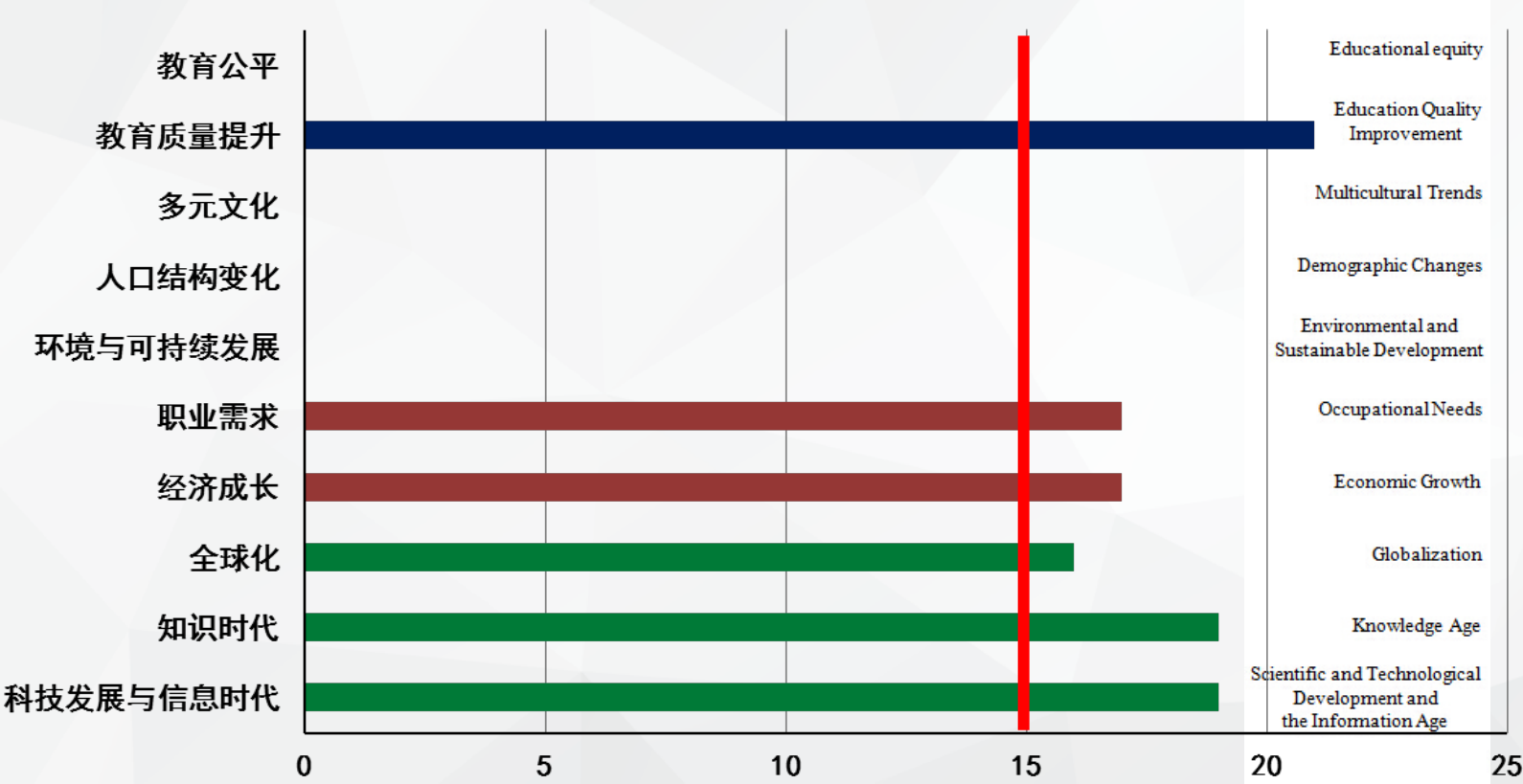
不同挑战的分布状况统计

Distribution statistics of different challenges



不同挑战的分布状况统计

Distribution statistics of different challenges



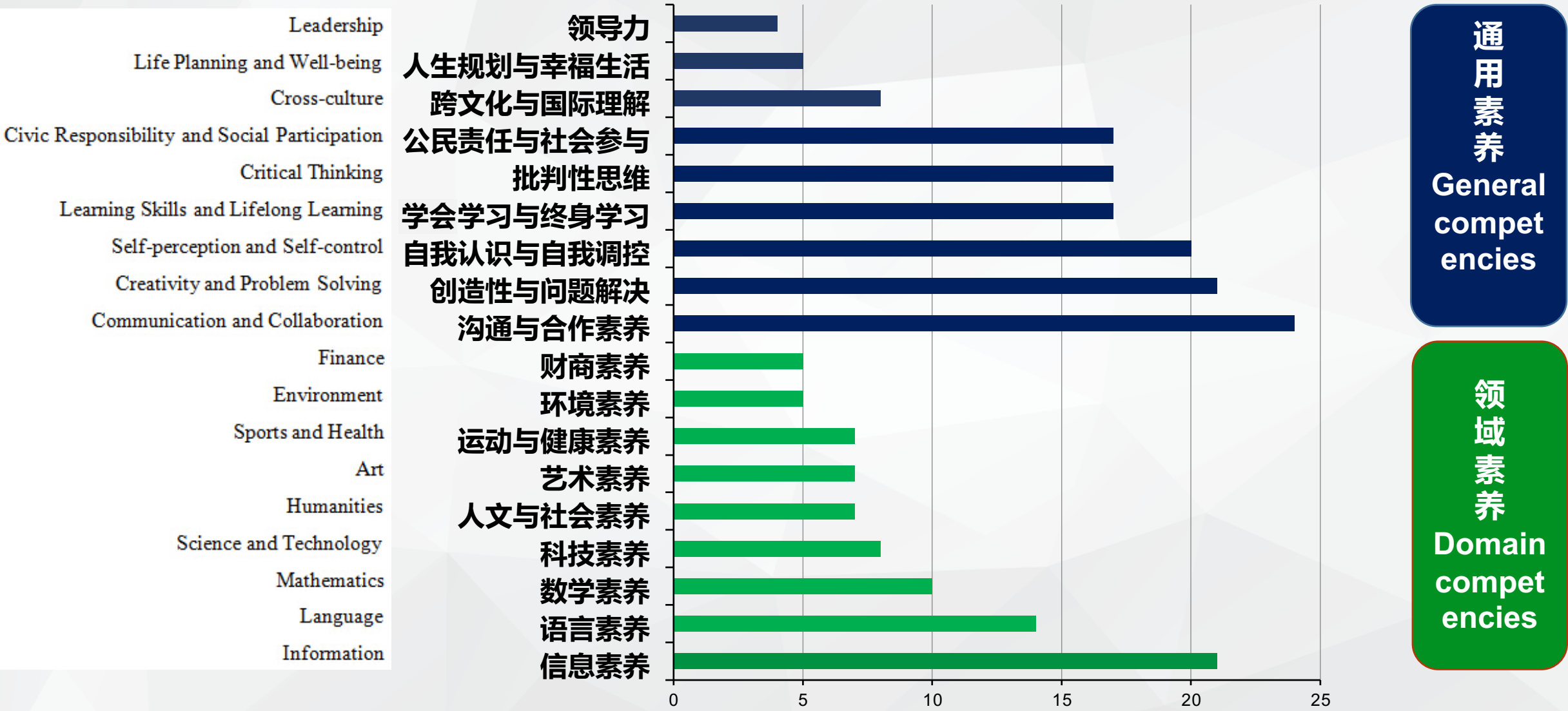
最受关注的6项挑战

- 教育质量提升
- 知识时代
- 科技发展与信息时代
- 经济成长
- 职业需求
- 全球化

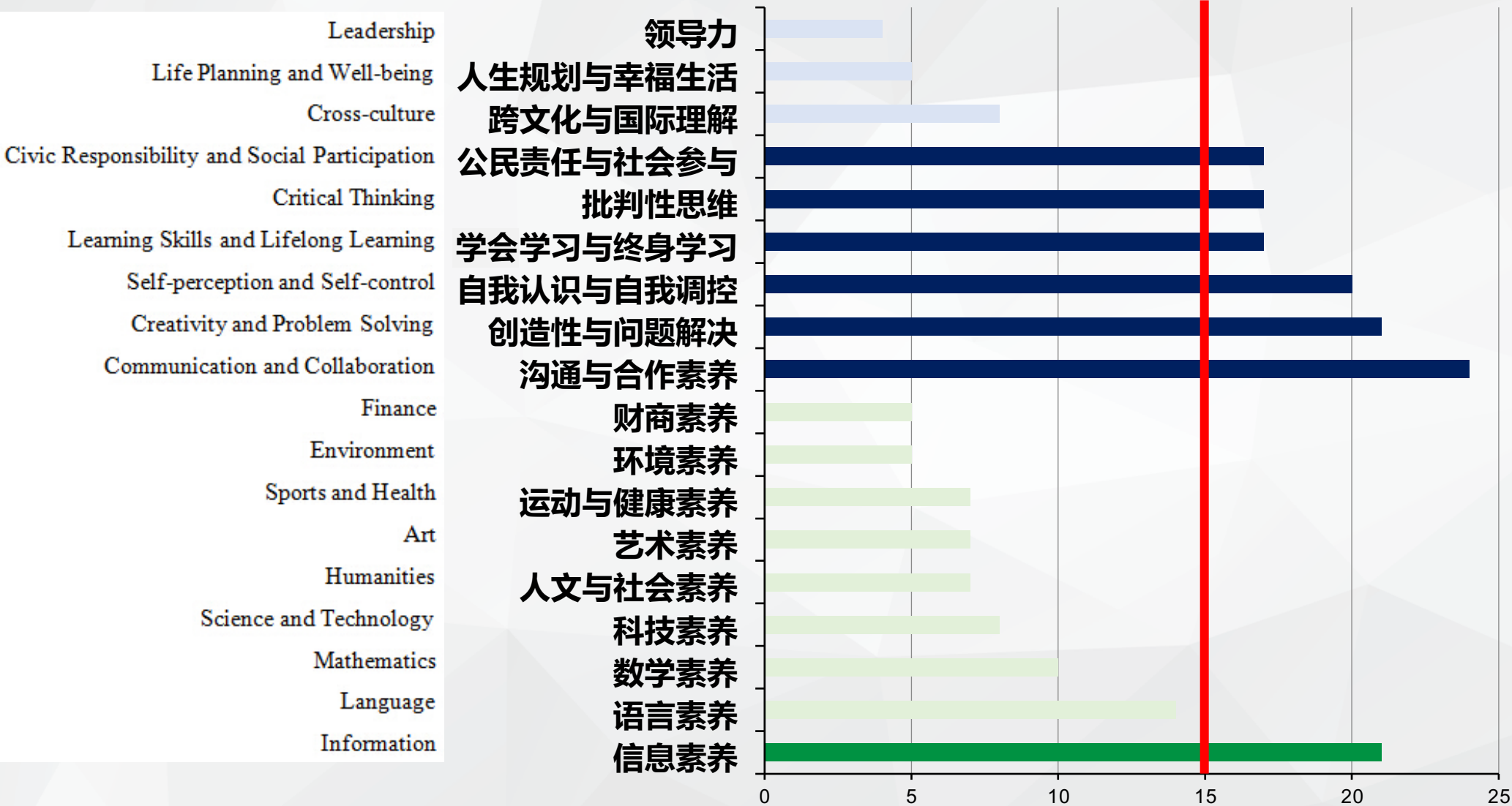
Categorization of 18 competencies

Dimension	Competency
Subject-specific Competencies	Competencies in basic subjects: language, mathematics, science and technology, humanities, art, sports and health
	Competencies in new subjects: information, environment and finance
General Competencies	Higher-order Cognition: critical thinking, creativity and problem solving, learning skills and lifelong learning
	Personal Development: self-perception and self-control, life planning and well-being Social Development: communication and collaboration; leadership; cross-culture; civic responsibility and social participation

不同素养的分布状况统计 Statistics on the distribution of different competencies



7大素养被全球普遍提倡 The seven competences are widely advocated all over the world



21世纪核心素养5C模型

5Cs framework for
21st Century Key Competences



BNU-P21 2017



北京師範大學
BEIJING NORMAL UNIVERSITY



P21® PARTNERSHIP FOR
21ST CENTURY LEARNING



David Ross, CEO of P21

21世纪核心素养5C模型

5Cs framework for 21st Century Key Competences

□ **Cultural Understanding and Inheritance**

Competence / Cultural competence 文化理解与传承

□ **Critical Thinking 审辨**

□ **Creativity 创新**

□ **Communication 沟通**

□ **Collaboration 合作**

文化理解与传承 Cultural competence

- 文化理解与传承，对任何一个国家或民族的国民都具有不可替代的意义。 Cultural competence has irreplaceable significance for the citizens of any country
- 就我国而言，引导青少年从中华优秀传统文化中汲取营养，涵养人格、规范行为，在全球化的进程中葆有一颗中国心，有着重大而深远的影响。 For China , it has a great and far-reaching influence to guide young people to absorb nutrition from the excellent traditional culture of the Chinese nation, cultivate their personality and regulate their behavior, and maintain a Chinese heart in the process of globalization.

- 组长 group leader：刘 坚（北京师范大学）
- 副组长 Group deputy Leader：魏 锐（北京师范大学）白新文（中国科学院）马晓英（中国社科院）
- 核心作者 Core author（按姓氏笔画排序）：马利红、马鸣燕（哈佛大学教育学院硕士）、马晓英（中国社科院）、甘秋玲、白新文（中国科学院）、刘坚、刘妍（北方工业大学）、李二民、李静懿（英国爱丁堡大学）、郑琰、徐冠兴、康翠萍、魏锐
- 咨询专家 Consulting experts（按姓氏笔画排序）：David Ross、Fernando M. Reimers、王晓阳、陈立峰、单承彬、胡卫平、施克灿、崔佳颖、康长运、谢小庆等；
- 参与研讨的实践领域代表 Representatives of practice field participating in the seminar（按姓氏笔画排序）：王小莲、卢志文、申敬红、李从容、吴俊杰、周丽虹、蓝方等；
- 评审专家 Review expert（按姓氏笔画排序）：马嘉宾、王渝生、田慧生、关新、纪中展、李奕、张志勇、陆志平、陈光巨、陈李翔、陈亮、金涌、柳斌、谈松华、褚宏启。
- 本项目得到SKT思珂特教育的资助。 This project is supported by SKT education.

相关文章 (Related articles:)



1. “21世纪核心素养5C模型” 研究设计The Research Design on the 5Cs framework for Twenty-first Century Key Competences
2. 文化理解与传承素养:21世纪核心素养5C模型之一 Cultural Competence: Part I of the 5Cs Framework for Twenty-first Century Key Competences
3. 审辨思维:21世纪核心素养5C模型之二Critical Thinking: Part II of the 5Cs Framework for Twenty-first Century Key Competences
4. 创新素养:21世纪核心素养5C模型之三Creativity: Part III of the 5Cs Framework for Twenty-first Century Key Competences
5. 沟通素养:21世纪核心素养5C模型之四Communication Competence: Part IV of the 5Cs Framework for Twenty-first Century Key Competences
6. 合作素养:21世纪核心素养5C模型之五Collaboration Competence: Part V of the 5Cs Framework for Twenty-first Century Key Competences

21世纪核心素养5C模型

5Cs framework for 21st Century Key Competences



- 突出文化理解与传承的核心地位和导向作用 Highlight the core position and guiding role of cultural and competence
- 强调审辨思维是形成与发展各素养的基础 Emphasized the critical thinking is the basis for the formation and development of Key Competences
- 创新是素养发展的最高级形式 Creativity is the most advanced form of **Competences** development
- 沟通与合作既是素养的重要组成部分，也是素养发展的重要途径 Communication and collaboration is not only an important part of competences, but also an important way of competences development
- 各素养间彼此关联、互补，具有开放性且充满活力 Each competences is interrelated, complementary, open and full of vitality

描述
素养内涵
Describe the
connotation
of
competency

素养	素养要素
文化理解与传承素养 (Cultural Competence)	1.文化理解 Cultural Understanding
	2.文化认同 Cultural Identity
	3.文化践行 Cultural Practice
审辨思维素养 (Critical Thinking)	1.质疑批判 Query and Criticism
	2.分析论证 Analysis and Demonstration
	3.综合生成 Integrated output
	4.反思评估 Reflection and Evaluation
创新素养 (Creativity)	1.创新人格 Creative Personality
	2.创新思维 Creative Thinking
	3.创新实践 Creative Practice
沟通素养 (Communication)	1.同理心 Empathy
	2.深度理解 Listen and Understand
	3.有效表达 Effective Expression
合作素养 (Collaboration)	1.愿景认同 Vision Identity
	2.责任分担 Shared Responsibility
	3.协商共进 Win-win Cooperation

提炼构成要素并描述
具体内涵

Refine the key
elements and
describe the
connotation

例举行为表现
give an example
of the
performance

提出教学建议
Provide teaching
suggestion



中国教育创新成果公益博览会

China Educational Innovation Expo (CEIE)

中国教育创新成果公益博览会（以下简称“教博会”），是由北京师范大学主办，北京师范大学中国教育创新研究院组织开展的的大型公益博览会。

China Educational Innovation Expo is a grand public expo of educational innovation achievements held by CEII, Beijing Normal University.



教博会会徽
Emblem



中国教育创新成果公益博览会

China Educational Innovation Expo

➤ 专题展区（展馆）

Thematic Exhibition Areas

- 制度与教学改革 Educational System and Curriculum Reform
- 课程体验馆 Pavilion for Curriculum
- 在线资源体验区 Pavilion for Online Resources
- 创客工坊 Makers' Workshop
- 京师教育创新成果 Educational Innovation Achievements of BNU
- 地方教育创新成果 Educational Innovation Achievements of Different Areas in China
- 美国未来学习中心 American Center for Learning in the Future
- 探究科技（中国STEAM教育） Scientific Inquiry (China's STEAM Education)



- 微课程与未来学校 Micro-courses and Future Schools
- 翻转课堂体验馆 Pavilion for Flipped Class
- 评价馆 Pavilion for Educational Evaluation
- 科学探究馆 Pavilion for Scientific Inquiry
- 思维梦工厂 DreamWorks of Mind
- 情感实践体验馆 Pavilion for Emotional Practice
- 阅读提升教育品质 Increasing Education quality through teaching reading
- 技术驱动教育变革 Educational Reform driven by Technology



中国教育创新成果公益博览会

The First China Educational Innovation Expo

- 教育行政、教研机构负责人
Education administrators
- 中小学校长、教师
Teachers and principals of primary and secondary schools
- 企业界、公益界人士
Entrepreneurs and Charity staff
- 中小學生、家长
Parents of primary and secondary school students
- 大学、科研机构代表
Representatives from colleges and institutes
- 媒体代表
Media

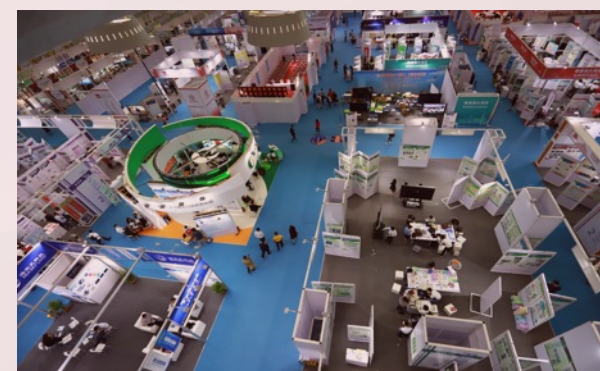




汇聚 碰撞 变革

汇聚 碰撞 变革





CHINA EDUCATION INNOVATION EXPOI

数说教博会

3,972

成果

累计展出教育创新项目

3972余项

More than 3972
educational innovation
projects have been
exhibited

1,700

活动

举办特别活动、论坛、沙龙、
工作坊等专业学术活动1700余

场

More than 1700
professional academic
activities such as special
activities, forums, salons
and workshops were held

200,000

参观人数

累计现场参观人数

200000余人次

Cumulative number
of visitors
More than 200000
person times

300

媒体

媒体追踪报道

3972余项

Media tracking
report
More than 3972
items



汇聚 · 碰撞 · 变革

AGGREGATION · IMPACT · INNOVATION



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[Who we are](#) [What we do](#) [How we work](#) [Where we work](#)

[Resources](#)

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IBE-UNESCO pushes the boundaries of education innovation to foster development



Details

Topic
21st century learning
Region
Asia and the Pacific
Country
China
How we work
Global dialogue and intellectual
leadership
What we do
Lead innovation in curriculum and
learning
Publication date
02-12-2019

ZHUIHAI, PEOPLE'S REPUBLIC OF CHINA — Between 20 and 23 November 2019, IBE-UNESCO participated in the 5th China Education Innovation Expo. The theme of the event, *Empower China with Education Innovation*, marks China's growing leadership in driving and sustaining innovation as an enabler of development.



Attended by a whopping 20,000 participants (in addition to a live webcast audience of 3 million people), the event brought together more than 2,000 leading scholars, policy makers, and practitioners from education, government, business, and media, for action-oriented discussion on the role of education innovation in development, and on the future of education and learning. 106 Forums and 712 workshops took place in two and a half days of the Expo.

At the vanguard of global efforts to engender curricula that anticipate future trends, while remaining pertinent to I4.0 and to the fast-changing 21st-century context, the IBE-UNESCO was specially invited to this important event.

The IBE played multiple prominent roles, ranging from delivering keynote addresses and closing remarks, to organizing an exhibit booth and participating in roundtables and related workshops.

IBE Director Mmantsetsa Marope was a special guest in the Presidential-highlighted Forum on International Education Innovation Trends and delivered the first keynote address, focusing on the IBE innovative and future-forward initiatives and their impact on global education practices.

第五届教博会荣登**联合国教科文组织**官方网站，成为向全球推荐的推动教育创新和21世纪课程与学习的国际范例

The 5th China Educational Innovation Expo has been listed on the official website of UNESCO, and has become an international model recommended to the world to promote educational innovation and curriculum and learning in the 21st century



中国教育创新成果公益博览会

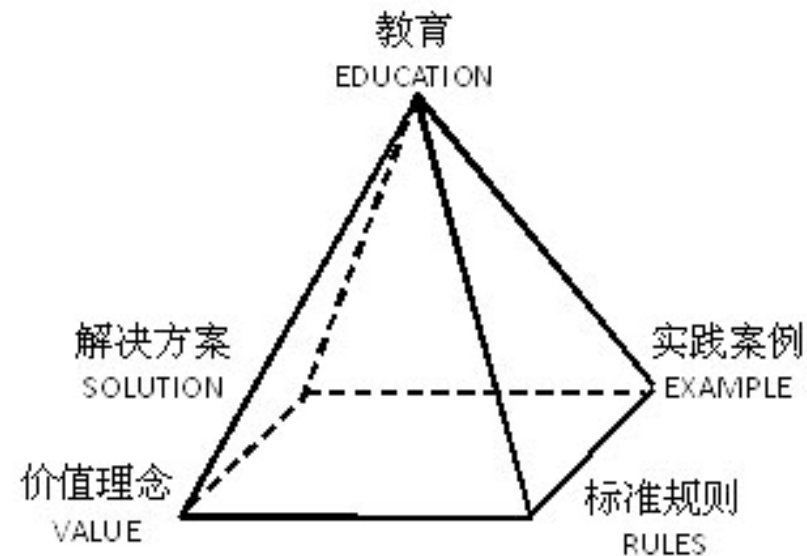
The First China Educational Innovation Expo

首创SERVE模型

SERVE Model

2015年中国教育创新成果公益博览会凝练优秀教育创新成果的核心要素，首创SERVE模型。

The SERVE Model was firstly proposed by CEIE in The First China Educational Innovation Expo in 2015.



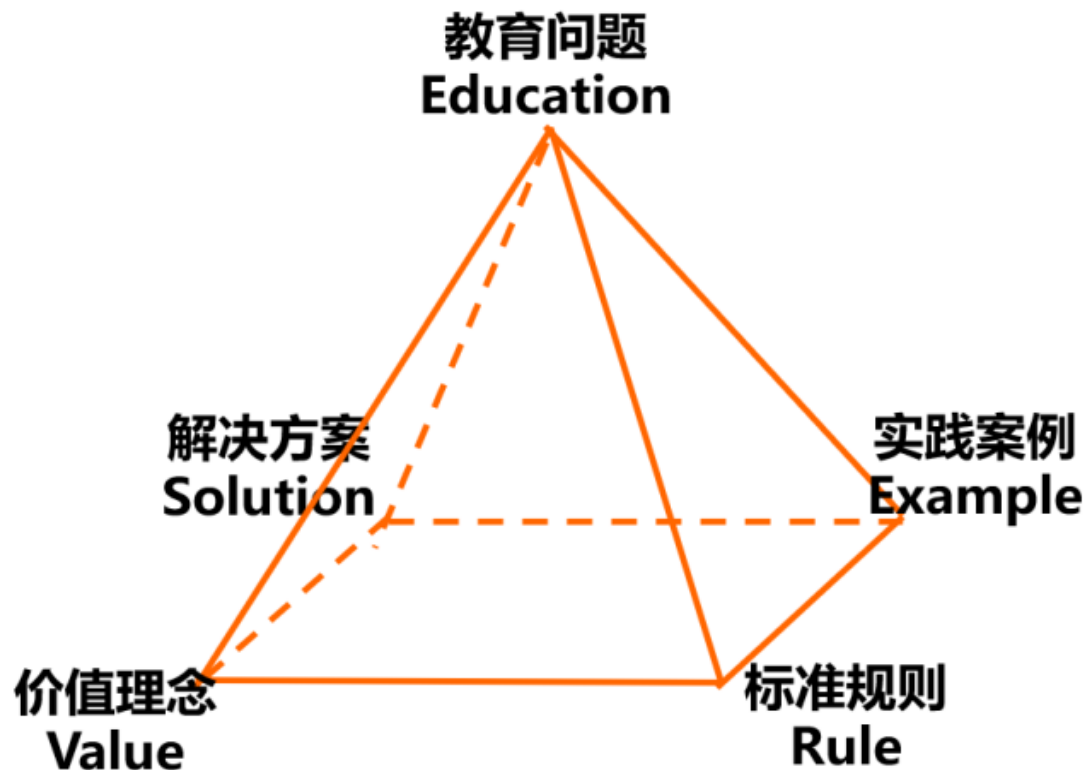
SERVE模型强调，优秀教育创新成果的核心要素应包括**解决方案、实践案例、标准规则、核心理念**，其目的和初衷应该指向**教育**。

It holds that an excellent educational innovation product should include core elements such as Solution, Example, Rules and Values, which together contribute to the development of Education.

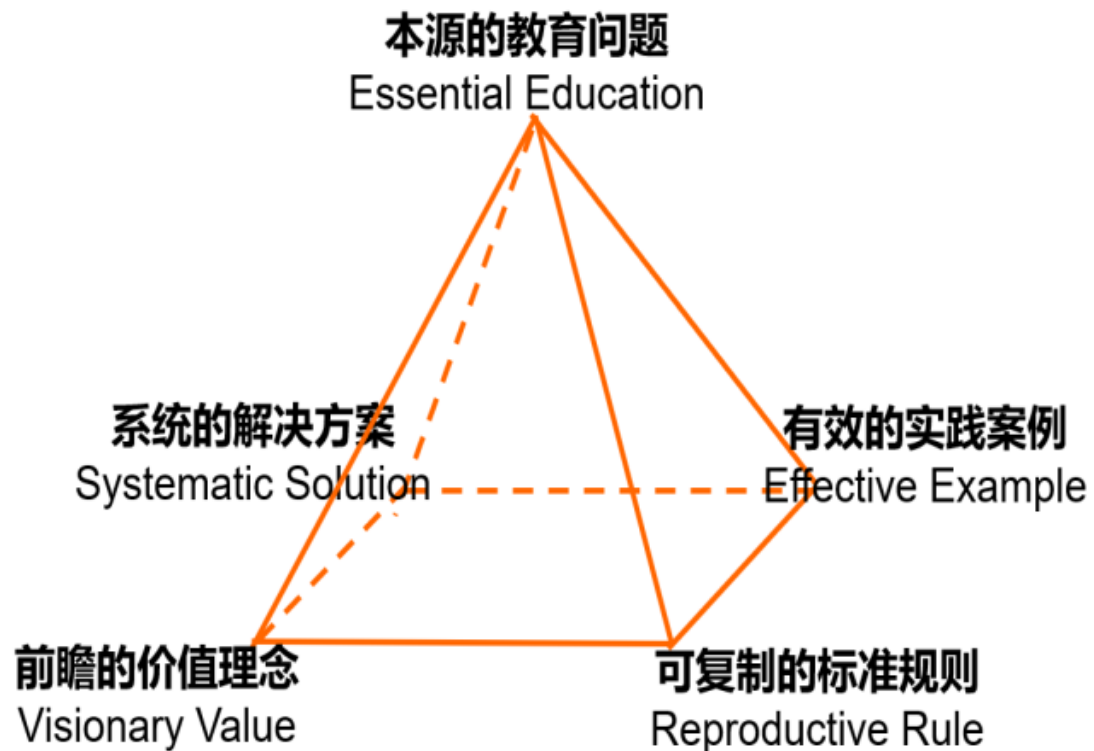


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教育创新成果SERVE模型 SERVE Model



SERVE 1.0



SERVE 2.0

刘坚，魏锐. 好的教育创新成果什么样[N]. 中国教育报,2015-12-09(007).

What are the results of good educational innovation





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谢谢

Thanks