



Educational strategy of the research university: sustainable development

China's Action on Digital Transformation in Higher Education

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西北工業大學
NORTHWESTERN POLYTECHNICAL UNIVERSITY

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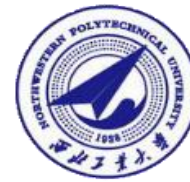
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01 BACKGROUND



1. Global in Action

- **UNESCO Global Education Monitoring Report Summary 2023: *Technology in education: A tool on whose term?***
- **OECD digital education outlook 2023: *Towards an effective digital education ecosystem***
- **EU: *Digital Education Action Plan (2021-2027)***
- **IBRD: *Steering Tertiary Education: Toward Resilient Systems that Deliver for All***

2. China in Action

- **The 20th National Congress of the Communist Party of China: *Report to the 20th National Congress of the Communist Party of China***
- **State Council of the PRC: *Overall layout planning for digital China***
- **Ministry of Education of China et al: *Guiding Opinions on Promoting the Construction of New Educational Infrastructure to Build a High-Quality Educational Support System***

02 CONNOTATION



1. A path of coupled development of education and technology

- At the macro level, it is a holistic and comprehensive change in the higher education system, with the goal of forming a high-quality education system supported by digitalization;
- At the micro level, it refers to the introduction of digital technology into higher education organizations, which promotes deep-seated changes in the areas of teaching, management, research, and services.

2. Deep integration and value symbiosis between digital technology and the whole system of education

- At the surface level, the digital transformation of higher education is an upgrading iteration of hardware technology.
- At a deeper level, the digital transformation of higher education is a complex program to modernize the infrastructure of higher education, talent cultivation, knowledge production, etc., guided by technological rationality under the logical framework of the digital paradigm.

03 CHARACTERISTICS



Table 1 Characteristics of digital transformation in higher education

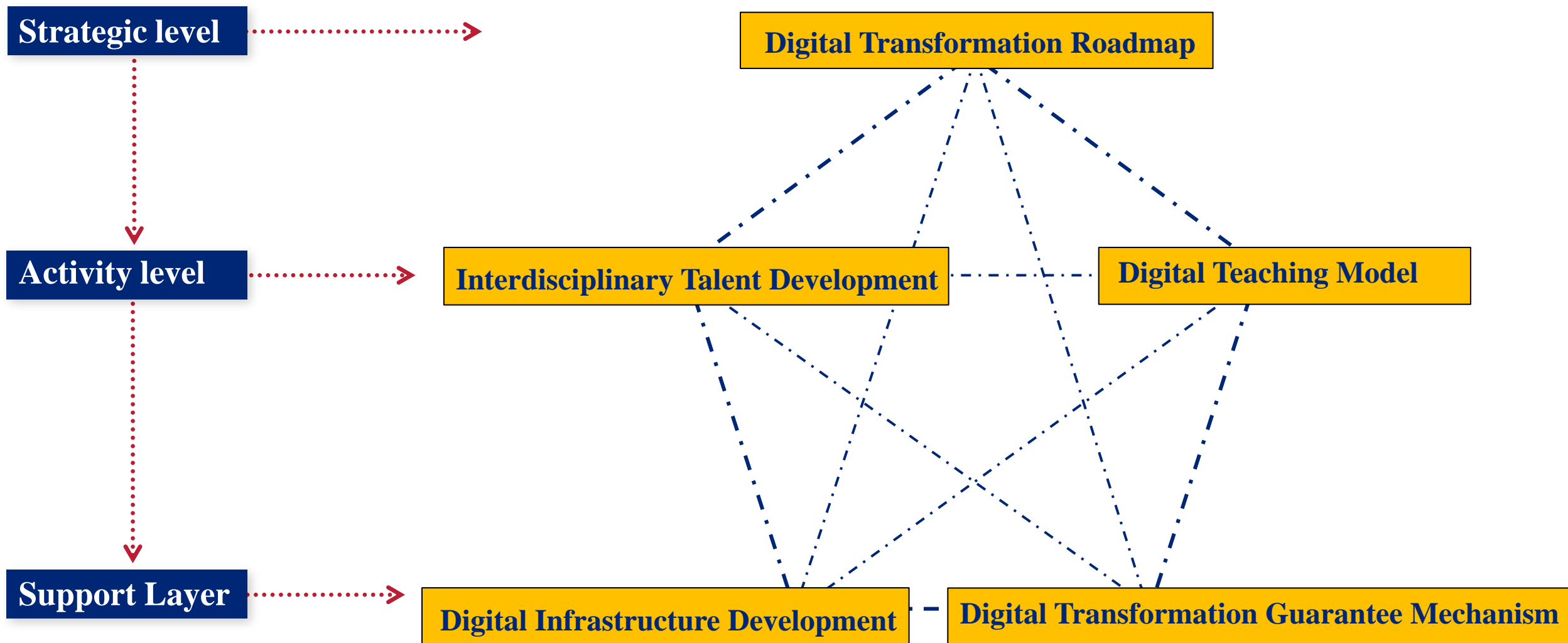
	Industrial age	Digital age
Space for schooling	Physical spaces such as classrooms, campuses	Spaces where physical and cyber converge
Institutional mode of operation	Modular, Process-oriented	Integrated, Intelligent
Strategic direction	Specialized, Mass	Openness , Sustainability
Value Proposition	Scale, Standardization	Personalization, Diversification

04 FRAMEWORK FOR ACTION

Framework for action



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05 SPECIFIC ACTIONS



1. Designed digital transformation roadmap

- ✓ Developed digital transformation goals;
- ✓ Scientifically planned action paths;
- ✓ Conducted timely strategic planning assessment.

Time	Relevant documents or policies	Time	Relevant documents or policies
2015	关于加强高等学校在线开放课程建设应用与管理的意见	2021	中华人民共和国数据安全法
2017	新一代人工智能发展规划	2022	“国家高等教育智慧教育平台”上线
2018	教育信息化2.0行动计划	2022	关于加强普通高等学校在线开放课程教学管理的若干意见
2018	一流课程建设“双万计划”	2023	数字中国建设整体布局规划
2018	网络学习空间建设与应用指南	2023	教师数字素养
2020	慕课发展北京宣言	2023	关于推进IPv6技术演进和应用创新发展的实施意见
2021	中华人民共和国国民经济和社会发展第十四个五年规划和2035年远景目标纲要	2023	关于构建优质均衡的基本公共教育服务体系的意见
2021	5G应用“扬帆”行动计划（2021-2023年）		



2. Cultivate interdisciplinary talents

- ✓ Set up interdisciplinary majors;
- ✓ design strengthened interdisciplinary curriculum;
- ✓ establish interdisciplinary research platform.

3. Robust digital teaching and learning models

- ✓ Enhance digital literacy of teachers and students;
- ✓ Deepen the application of digital technology;
- ✓ Expand the space for education and teaching.



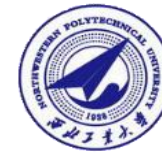
4.Improve digital infrastructure

- ✓ Create a digital education environment;
- ✓ Develop digital educational resources;
- ✓ Enhance the construction of command campus application scenarios.

5.Improve digital transformation guarantee mechanism

- ✓ Set up a digital transformation department;
- ✓ Improve the data governance system;
- ✓ Strengthen collaboration between government, industry, academia and research.

06 CONCLUSION



1. Be alert to possible pitfalls in the digital transformation of higher education

- The trap of the instrumental rationality of the "missing person";
- The trap of the growing digital divide;
- The trap of surging education costs;
- The trap of path-dependent reform.

2. Grasp the essence of digital transformation in higher education

Digital transformation is to grasp the core element of digital technology, take technical rationality as the value leader, and utilize the advantages of digital technology to promote changes in the structure and function of the higher education system, so as to break through the predicament of higher education which is difficult or even impossible to break through.

Thank you!