

เอกสารสนับสนุนและเพิ่มเติมการเรียนรู้
4) การศึกษาเด็กฉลาดและโรงเรียนแห่ง
อนาคตในประเทศเกาหลีใต้



**Smart Education
in Korea**

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Samsung Electronics Hong Kong

*<https://support-hk.samsung.com/smartschool/uploads/3cd06707-726c-4ab3-a246-80672e854c2b.pdf>

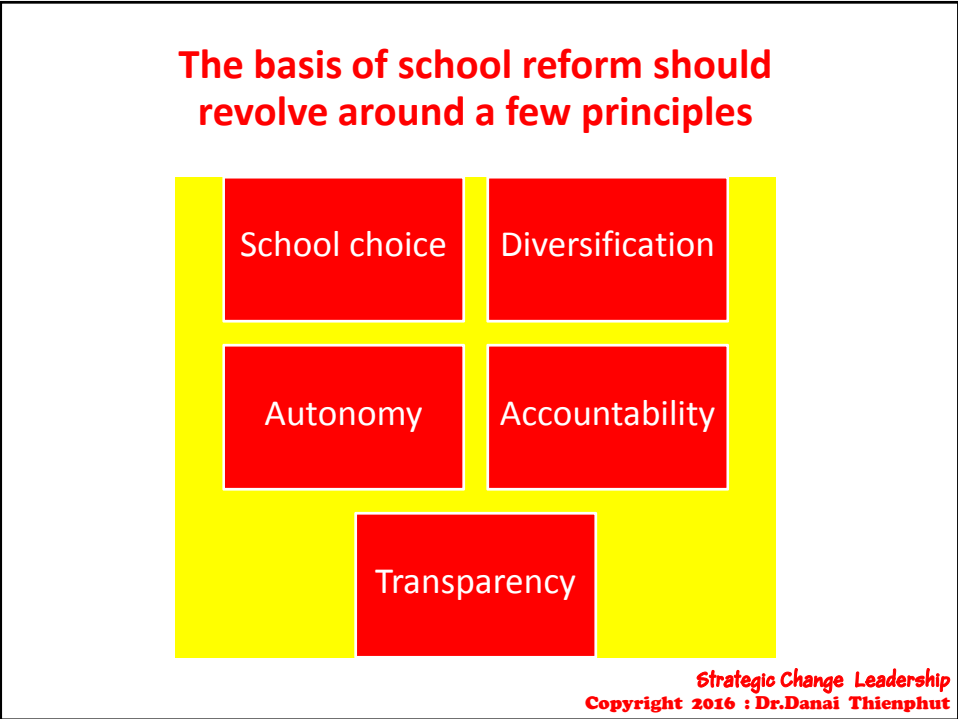
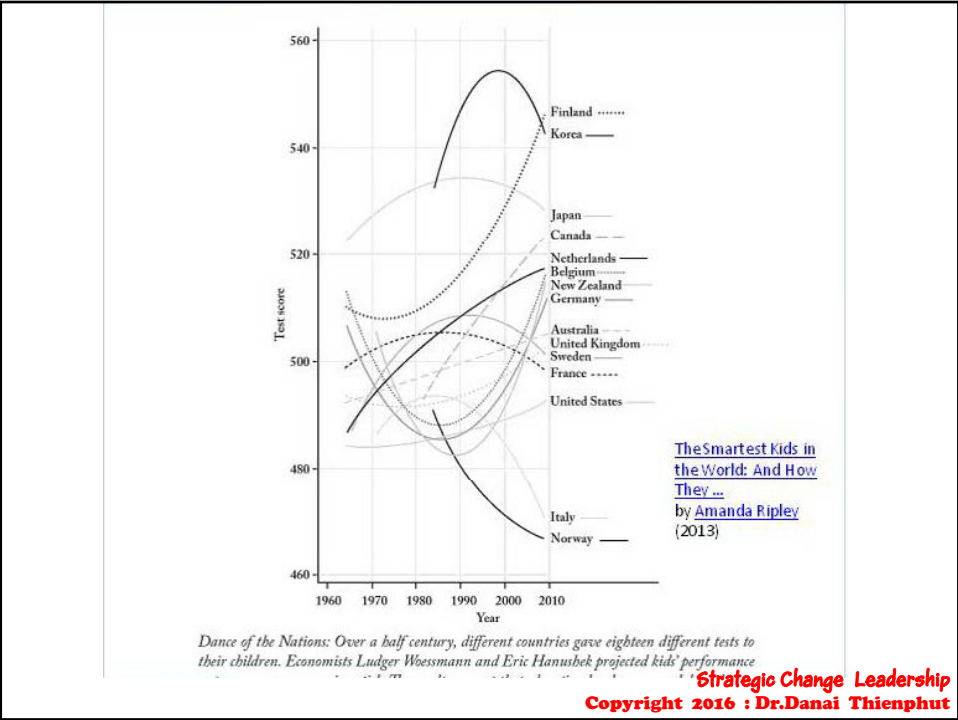
Table 1 Policy foci for economy and education

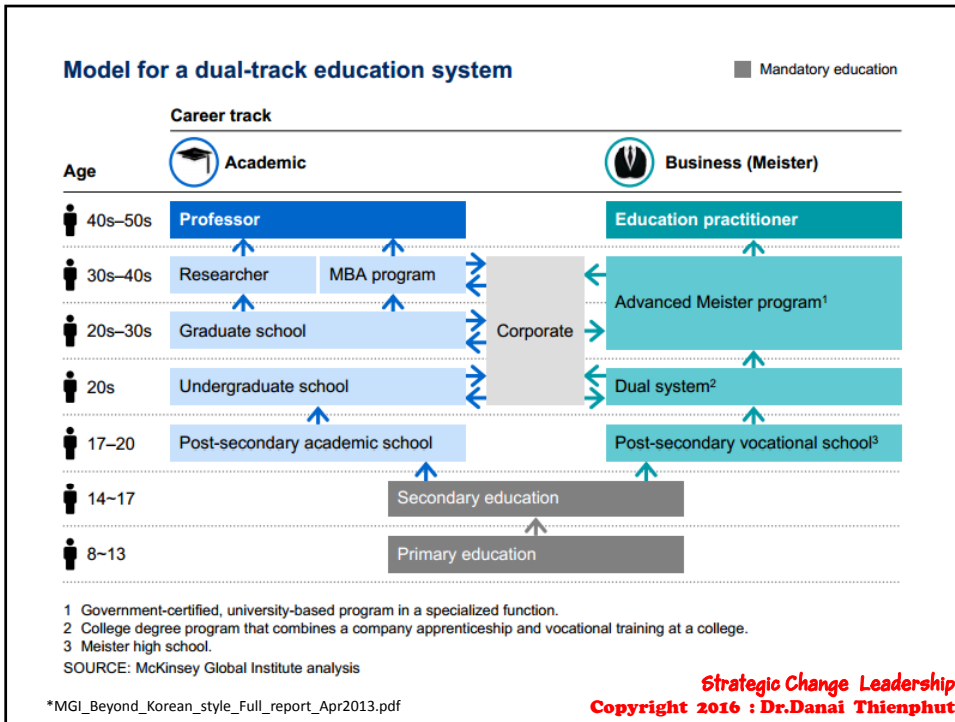
Period	Economy	Education
1960s – mid-1970s	<ol style="list-style-type: none"> 1) Take-off in early 1960s: from import substitution to export-driven, light labor intensive 2) Selective strategic industries in 1970s: export-acceleration, heavy and chemical industries 	<ol style="list-style-type: none"> 1) Expansion/upgrading of primary & lower secondary education 2) Emphasis on TVET (late 1960s) * manpower planning
Mid-1970s – 1980s	<ol style="list-style-type: none"> 1) Structural adjustments from late 1970s: steel, shipbuilding, etc. 2) From imitation to innovation in 1980s: electronic industry 	<ol style="list-style-type: none"> 1) Expansion/upgrading of upper secondary 2) Expansion of tertiary education 3) Strengthening of TVET
1990s through the present	<ol style="list-style-type: none"> 1) Enhancing national competitiveness in early 1990s 2) Knowledge-based economy from mid-1990s 	<ol style="list-style-type: none"> 1) Quality enhancement for K-12 2) Public investment in higher education (e.g., Brain Korea 21*) 3) Lifelong Learning

Notes: Manpower planning was employed until late 1970s as a tool to link education and training, and the labor market. Brain Korea (BK21) introduced in 1999 is a government competitive/performance funding scheme (1.2 billion USD for seven years) to stimulate R&D training in IT, BT, and other cutting-edge technology areas.

*<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.196.5601&rep=rep1&type=pdf>

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Meister Of Korean School Reform: A Conversation With Lee Ju-Ho

Michael Horn <http://www.forbes.com/sites/michaelhorn/2014/03/14/meister-of-korean-school-reform-a-conversation-with-lee-ju-ho/>

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<p>Country</p>  <p>South Korea</p>	<p>Youth unemployment rate</p> <p>6.4%</p> <p>College graduates overeducated for jobs</p> <p>42%</p>	<p>Driver</p> 
<p>About Meister Schools</p> <p>Established in 2010, the network of Meister Schools is specifically designed to prepare youths to work in high-skilled manufacturing jobs and other fields. They also seek to encourage a higher sense of status for such positions.</p> <p>*http://mckinseysociety.com/e2e_casestudy/meister-high-schools-south-korea/</p>	<p>By the numbers</p> <p>28 schools <small>(*more designated to open in 2013)</small></p> <p>11,500 students</p> <p>3 applicants/slot</p> <p>1,611 companies</p>	<p>Trainee education level</p> 

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Lee Ju-Ho, the former Minister of Education, Science, and Technology and now a professor at the KDI School of Public Policy and Management have market-based solutions to provide a customized education for their children.

[*http://www.forbes.com/sites/michaelhorn/2014/03/14/meister-of-korean-school-reform-a-conversation-with-lee-ju-ho/](http://www.forbes.com/sites/michaelhorn/2014/03/14/meister-of-korean-school-reform-a-conversation-with-lee-ju-ho/)



Meister High Schools

A better one is to narrow the gap between learning to know and learning to do by creating these Meister High Schools that offer direct links to employment after graduation.



www.koreatimes.co.kr

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President Lee Myung-bak pledged Tuesday that the government will develop more programs aimed at promoting vocational education at secondary schools nationwide in an effort to make Korea a manufacturing powerhouse.

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Meister High Schools focus on a particular field—banking, shipbuilding, mechanical engineering, semi-conductor manufacturing, and so forth—and **hire a former CEO from that industry as the principal**. For example, the former CEO of Renault-Samsung’s automotive group became principal of a Meister High School in Busan focused on automotive manufacturing.

One school, called the Chungbuk Semiconductor High School, had a semiconductor company donate semiconductor machinery to it.

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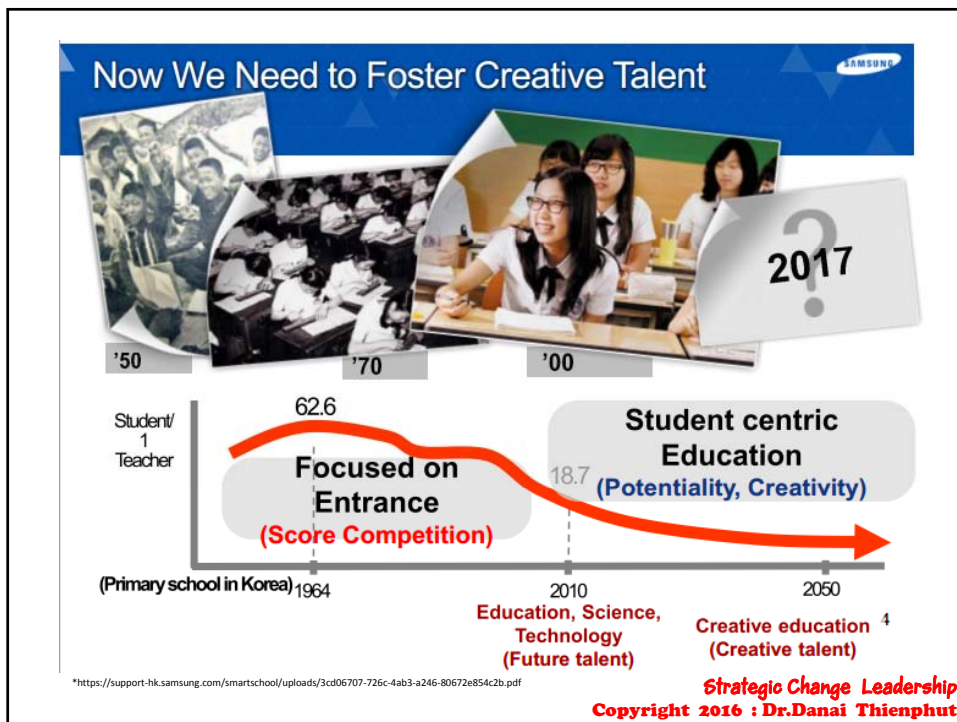
Out of roughly 400 vocational high schools in the country, seven were selected to become a Meister High School in the first year, and 35 in total were converted over President Lee’s five-year term. Even more have converted now to Meister High Schools by creating memorandums of understanding—with over 1,300 companies in total across the schools—so that they can guarantee employment opportunities.

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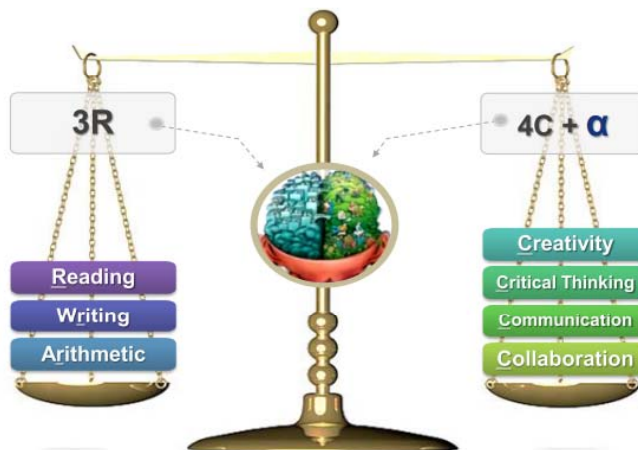
S.Korea has introduced the German Vocational Education System to some pilot schools under the so-called Meister (Master in English) high-school programme, which combines academic content with apprenticeships. It is a part of a new dual-track system for secondary and post-secondary education in South Korea.

*<http://www.nationmultimedia.com/opinion/S-Koreas-vocational-education-needs-to-tackle-its--30223540.html>

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Core Competencies in 21st Century



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Education System Should be Changed for Digital Natives and New Social Environment



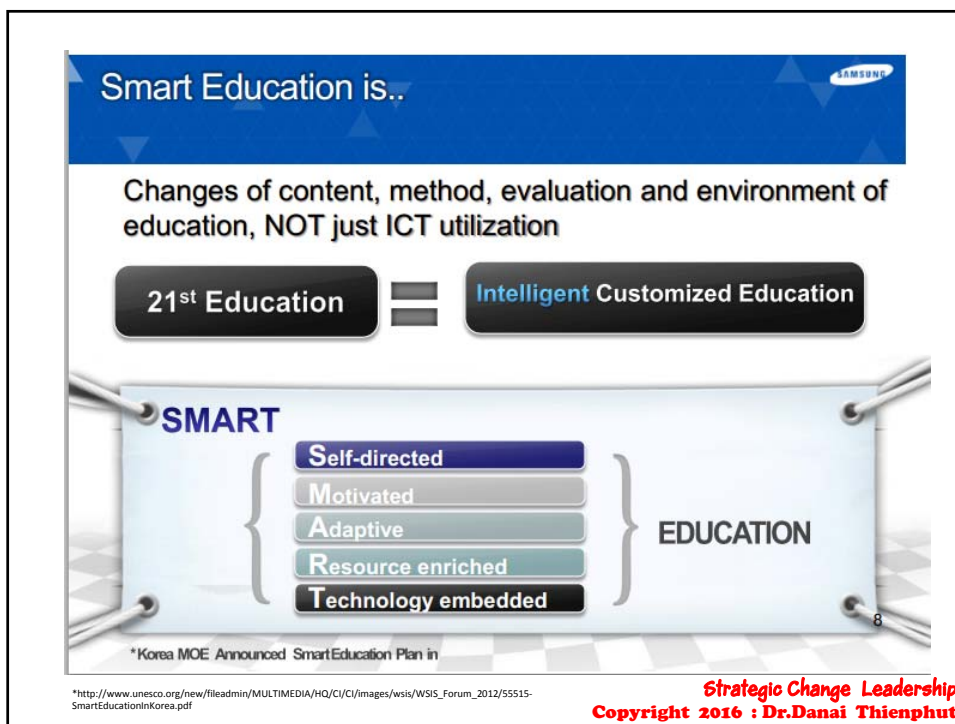
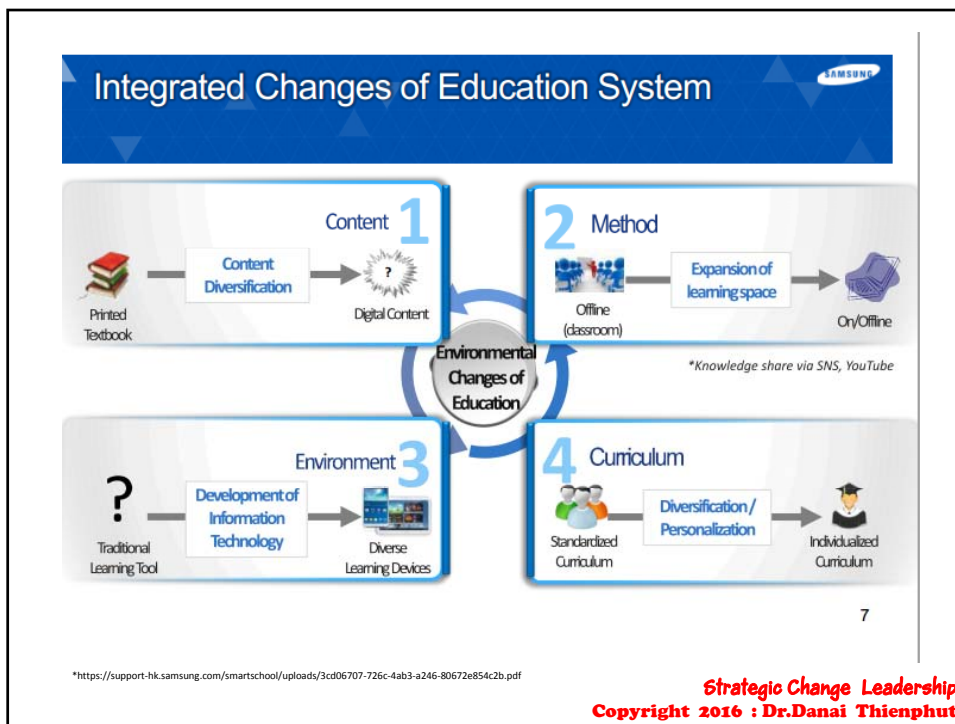
Digital Natives

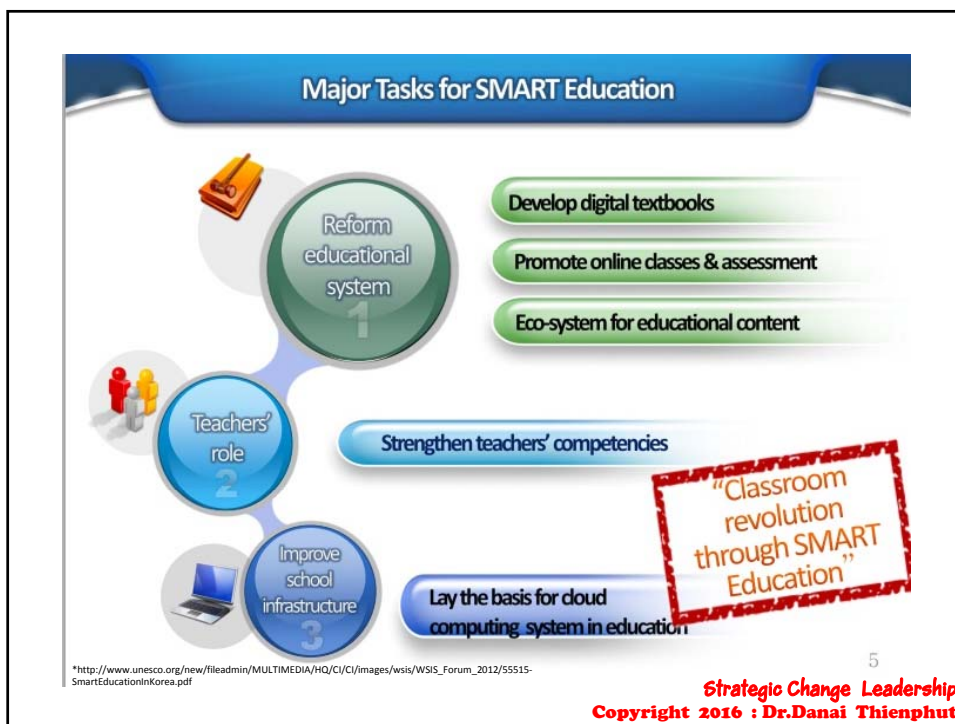
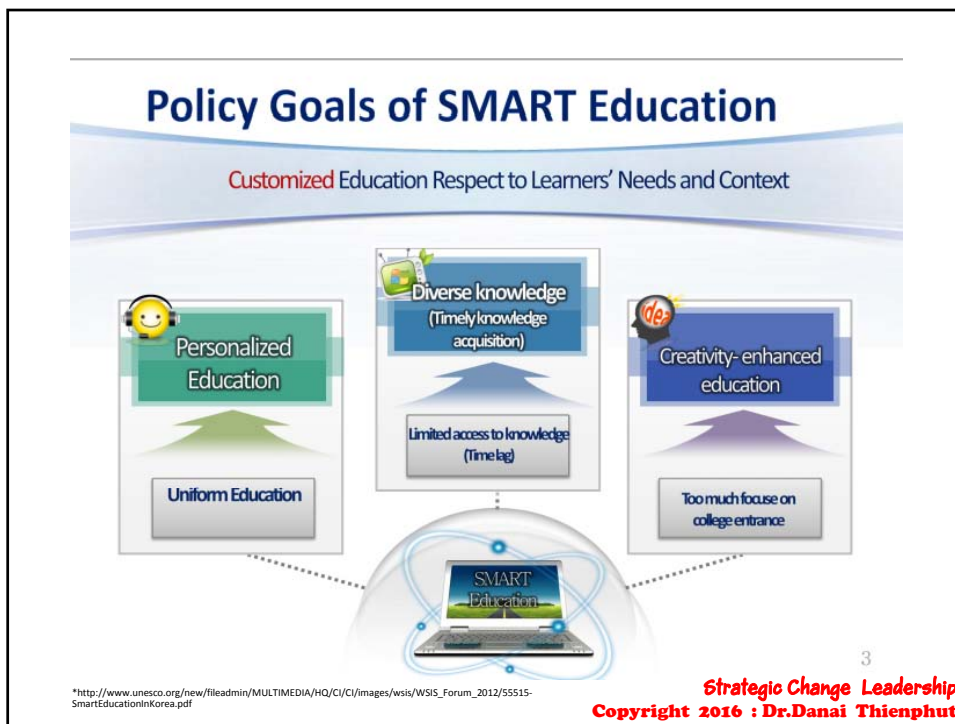


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Using Digital Textbook



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Using SNS (Social Network Service)



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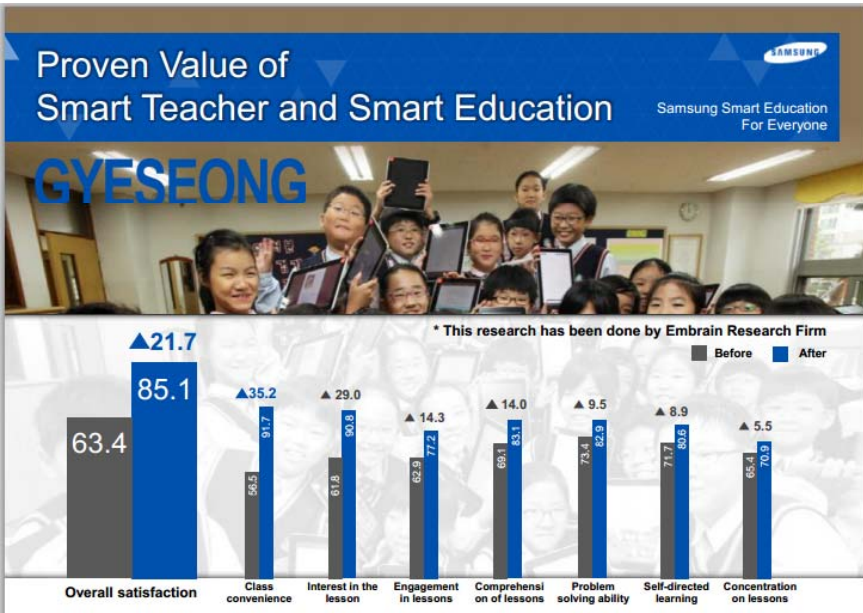
Using Education App- Augmented Reality



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Real Key to Success

Among teachers in 1-to-1/BYOD classrooms:

Only	15%	use subject-specific content tools weekly
Only	37%	use information or reference tools weekly
Only	24%	use teacher tools weekly
Only	14%	use digital curricula weekly

- The Common Sense Media Survey of Educators, 2013

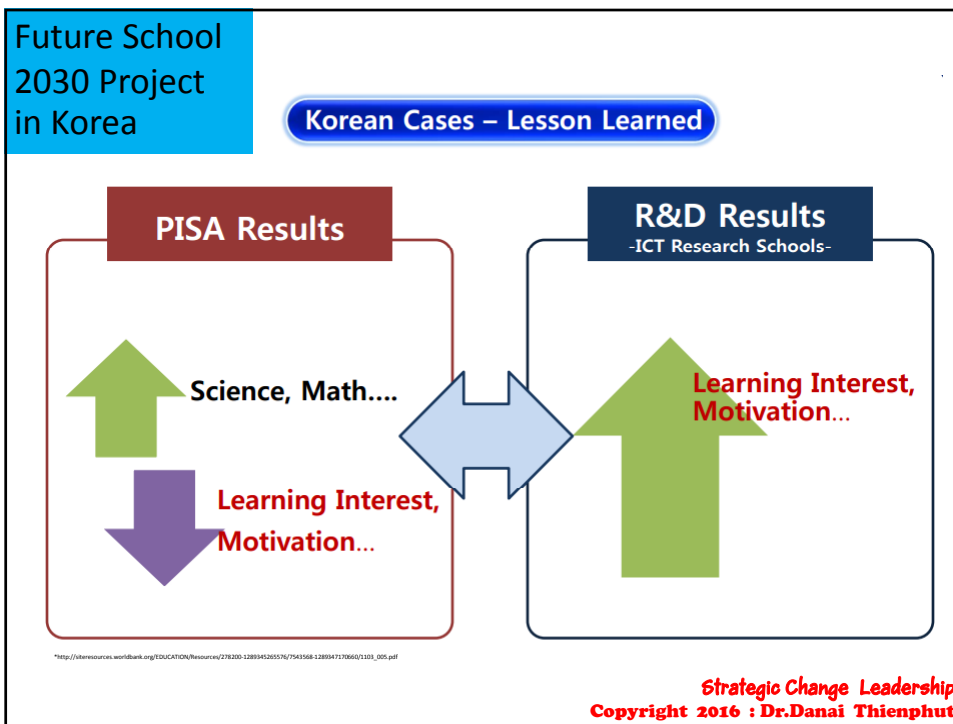
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SMART EDUCATION FOR EVERYONE

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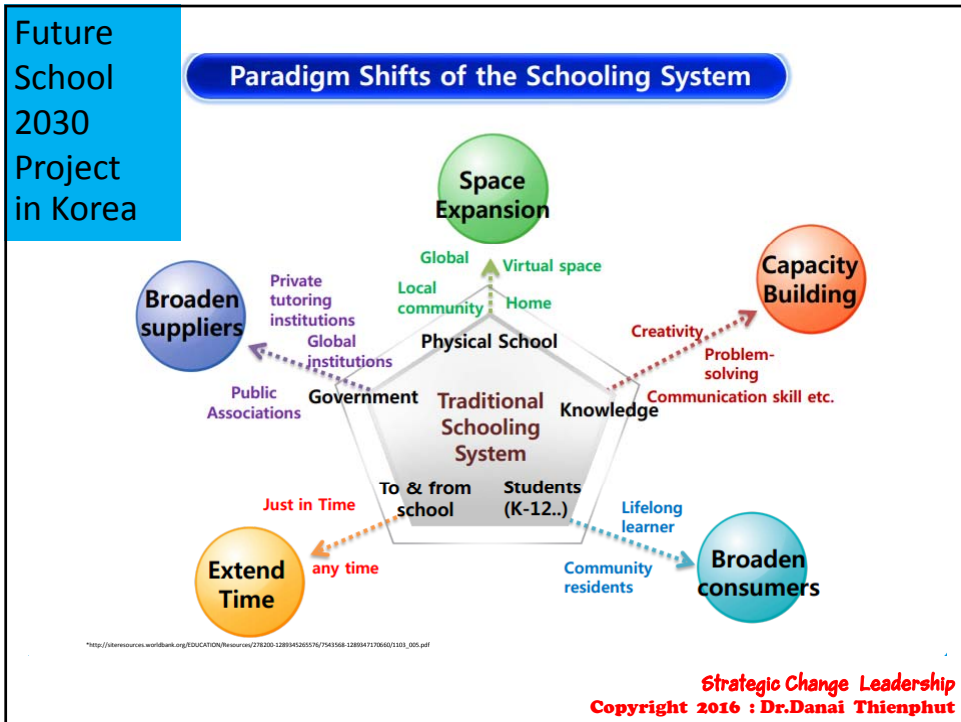


Future School 2030 Project in Korea

FUTURE SCHOOL

a future-oriented schooling system,
which is **the core learning center of the glocal society**,
with **technology as its impetus**
and based on **openness, flexibility, and diversity**

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III. Key Concept

1
유비쿼터스 기반의 학교 (Ubiquitous School)
상리유티누 시뮬리 학교 (Ubiditione 2cjuoo)

2
지역사회와 연계된 학교 (Connected School)
지역유헌화 유헌유헌 학교 (Connected 2cjuoo)

3
생태 지향적 학교 (Eco-Friendly School)
유헌테 지향유헌 학교 (Eco-friendly 2cjuoo)

4
즐거운 학교 (Fun School)
유헌유헌유헌 학교 (Fun 2cjuoo)

5
안전한 학교 (Safe School)
유헌유헌유헌 학교 (Safe 2cjuoo)

6
지능형 학교 (Intelligent School)
유헌유헌유헌 학교 (Intelligent 2cjuoo)

*http://storeources.worldbank.org/EDUCATION/Resource/278220122893452055767543568-2289347170660/101_005.pdf

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IV. Long-term Plan

-Step 1

To establish Future School model & policy implementation basis

- To develop ubiquitous - based programs & infra structure model for Future School
- To conduct scientific research & policy implementation scheme through systematic 3 step-analysis (Input→Output→Performance)

-Step 2

To build & operate a key Future School

- To construct key model school to enable Future School model design
- ※ Construction of Model School in 2011(1 school)
→Extend to metropolitan area during 2012~15 (5 schools)
- Elaborating on Future School model & evaluating social impact through experimental study

-Step 3

To proliferate the Future School model

- To improve people's understanding through Future School Campaign
- To provide incentive for local gov't & private sector to lead gradual transformation from ordinary schools to Future Schools

To establish Future School model & long-term research/ Infrastructure, administrative & financial institutions

*http://www.sources.worldbank.org/TOUCAT/0N/Resource/278200-1289341265576/7541568-12893417066/1101_005.pdf

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