28 June 2019 Summer Institute



CHALLENGES TO EDUCATION

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My beliefs

Ultimate aim of Education: To prepare the younger generation for the future!

but what is Future?

Society has changed!

but what have changed?

To start with

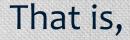
Learning is a Human Instinct,

but education is not.

Education is system of learning designed for human beings.

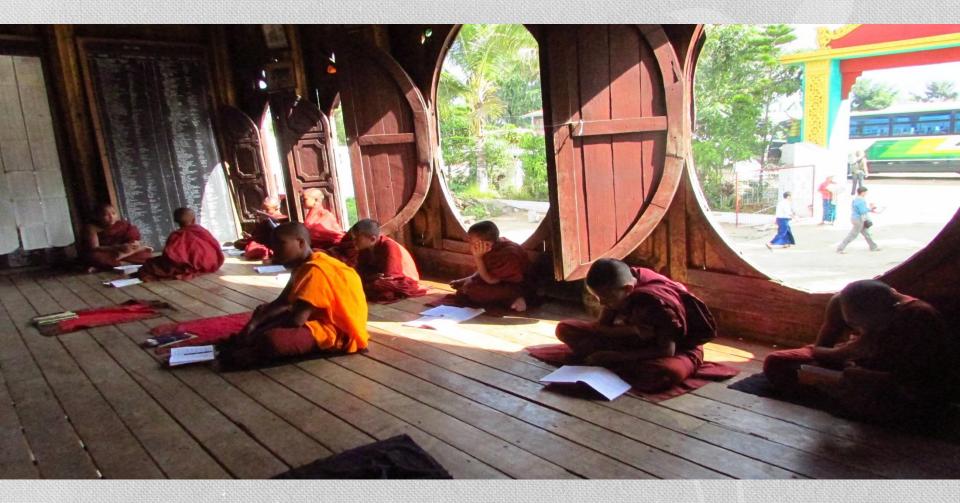
Therefore,

Education always reflects the economic, political, social, cultural, spiritual, ... contexts **of the time**.

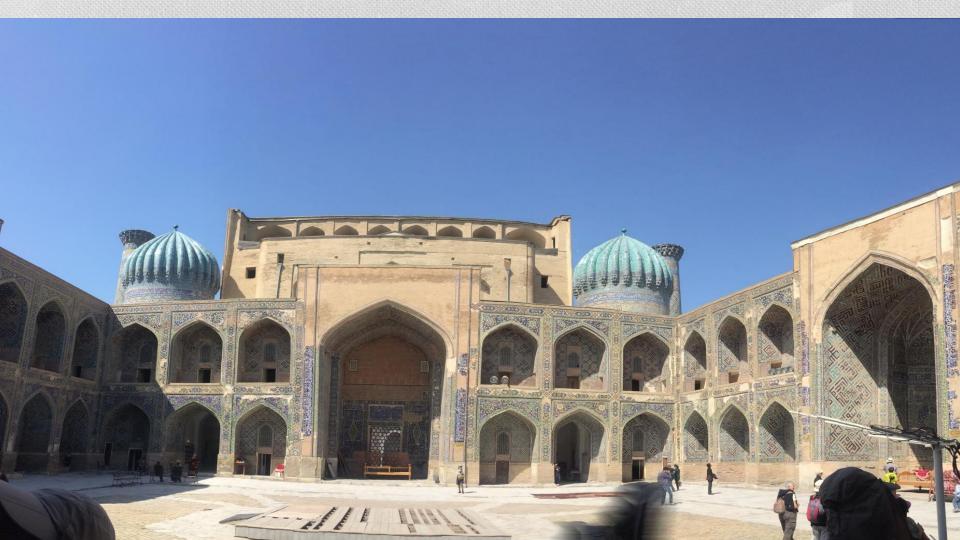


The design could be obsolete!

Schools Pre-Industrial Era







They are concerned about the Person!

Schools Industrial Era

How it started ...

Sturbridge 1836



What for?

For working in a job! Hence, reading, writing, arithmetic, ...

Contemporary School System (starting mid-19th Century)

Preparation of Industrial Manpower Spreading to the populace Screening and classification Providing Credentials as Proxies (Human Capital, for usefulness)

Turning human beings into human resources! Torturing young people until they confess to the labour market!



Society has changed!

Typical career path, industrial era

- John
 - BScEng (1971)
 - Graduated in Electrical Engineering
- one credential One set of skills ne occupation organization Appointed to the Department of Electrical Engine
 - Promoted to a very senior position
 - Stayed in the Department until 55
 - Enjoying early retirement

That belongs to the past!!!

Society (Human Resources)

Education

Human Beings

A different society ...

Production for Needs >> Creation of Desire

Mass Production >> "Less of More"

Large Pyramidal Bureaucracy >> Small, flat, loose, fragile One-stop units

Organizational Commitment >> Individual Endeavors

Now, we are moving away from the typical industrial society ...

Volatile Uncertain Complex Ambiguous



Careers paths now:

Study-work Mismatch Frequent change of jobs Frequent change of occupations Non-employees Intermittent Employments Start-ups, Free-lancers Multiple Portfolios (slash generation) Unintended Unemployment Voluntary Unemployment **Early Retirement**

How to prepare for –

A precarious career path? Life not as an employee? Work as an independent person?

Workplace expectations, Then and Now

Industrial Society

- Division of labour
- Departments and layer
- Strict job descriptions
- Rules and regulations
- Protocol compilations
- Following instructions

Post-industrial Society

- One-stop deal teams
- Direct encounter with clients
- Team work
- Intensive human relations
- Design and decisions at the front
- Personal responsibilities
- Risk-taking
- Ethical dilemmas
- Moral challenges
- Continuous learning
 - • • •

People have to learn anywhere, anytime, just-in-time, different things, in different ways, non-stop, lifelong.

Moreover, life is not only about work (economic life):

family life, leisure life, cultural life, political life, spiritual life, retirement life, ...

Anew era, a different society,

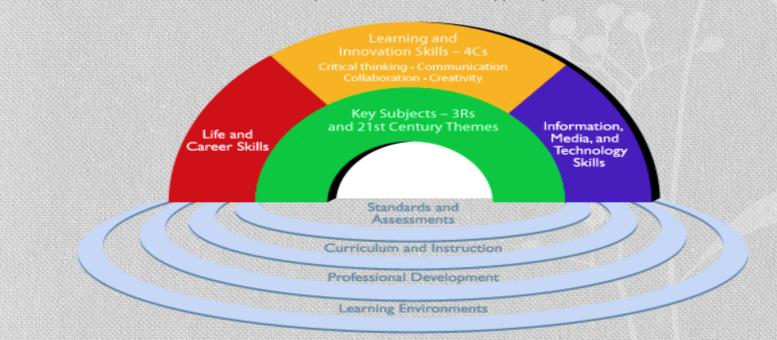
Education has to be Different!

Attempts to revisit Education ...

21 Century Skills (US)

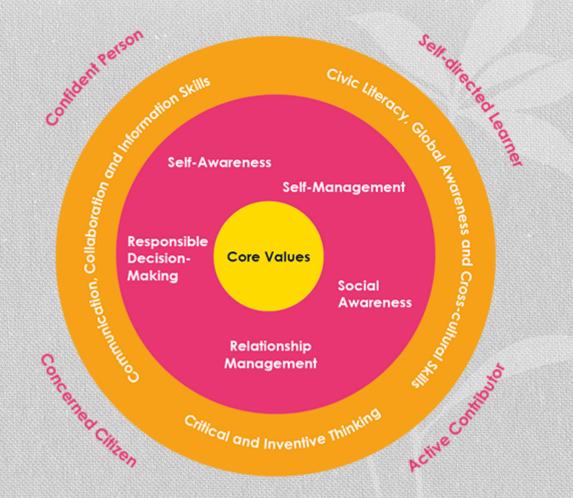
P21 Framework for 21st Century Learning

21st Century Student Outcomes and Support Systems



© 2007 Partnership for 21st Century Learning (P21)

Singapore 21st Century Competency Framework



Japan

Zest for Life

21st Century Competencies

Practical ability to act for the world

- Autonomous activities
- Relationship building
- Motivation to social participation
- Responsibility for building a sustainable future

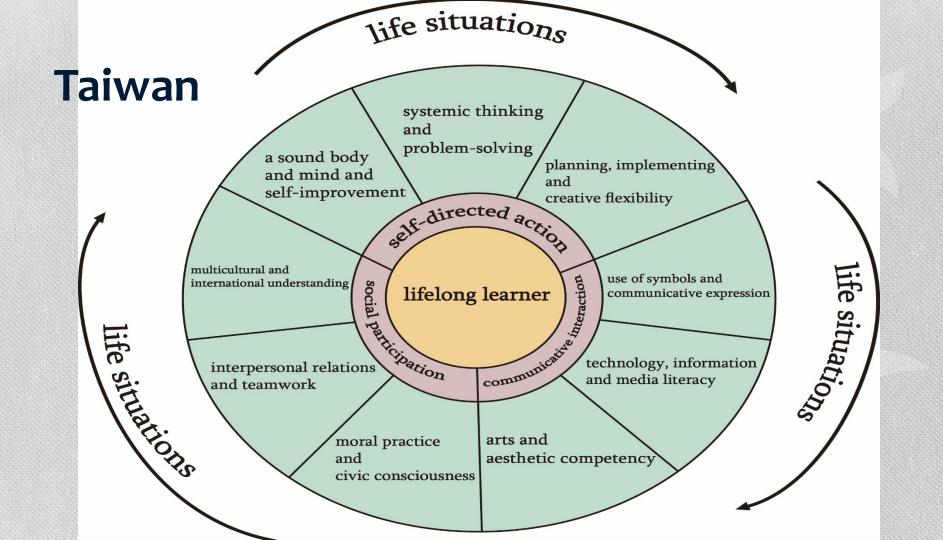
Collaborative thinking

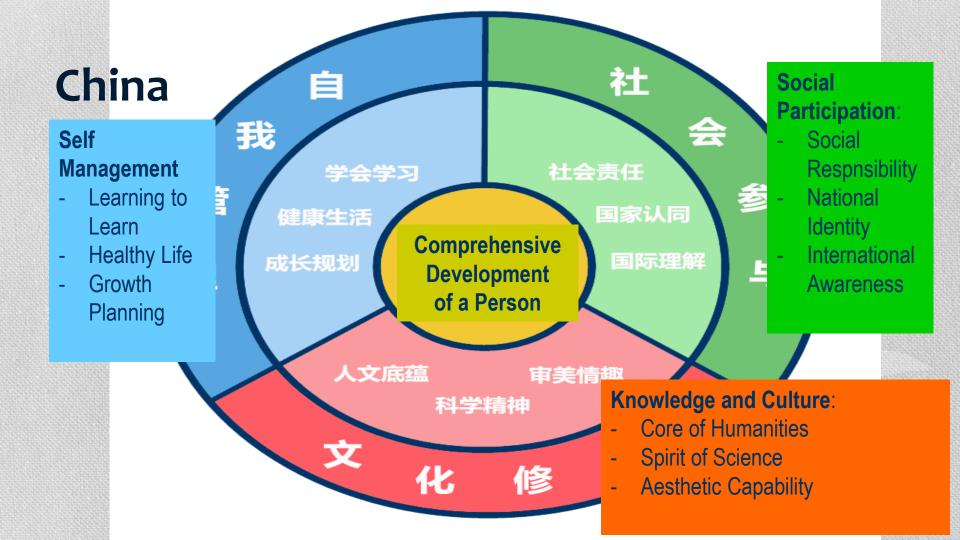
- & probem solving ability
- Problem finding &solving
- Logical, critical thinking
- Meta-cognition, adaptativility

Basic Literacy as thinking tools

- Literacy
- Numeracy
- Information literacy

*Original in Japanese, translation by author





Korea

An independent person An ingenious person A refined person A democratic citizen



Aims of Education revisited (Education 2.1 Hong Kong)

People Quality

Capability

language, mathematics, computational thinking, science and technology literacies, global, national and civic literacies

Attributes

creativity, teamwork, leadership, resilience, self-discipline, aspiration and motivation, rights and responsibility, sensitivity to ethnicity, religions and cultures, inclusiveness, ...

Values

love and care, integrity, justice, peace, righteousness, charity, environmental stewardship, national and cultural identity, spirituality, ...

The story does not end here, ...







FINANCIA RISIS OF-2008

SHRISTIF





















It is a world of turbulence ...

Ever worsening climates and natural disasters Frequent man-made accidents Unpredictable economic crises Spontaneous political unrest Recurrence & emergence of epidemics Irresponsible politicking Increasing potentials of war Organized and unorganized terrorist activities Widespread serious corruption Unstoppable waves of refugees Shameless cheating and faking **Emotions of independence** Unwanted results of democratic processes Comprehensive Trade War

... ...

But all these will not go away in 20 or 30 years time!

We have to live with them!

Our next generation has to be stronger, in order

to survive, to thrive, to lead & to change the world.

Nonetheless, emerging on the horizon, ...

Emerging 1:

Social and Emotional Learning

(UNESCO 2013)

The Spectrum

Spirituality **Global citizenship** Cultural identity National identity Citizenship Community harmony Human relations beyond job Human relations on job Work related attributes

Attempting a Framework

	Economic	Social	Humanity
	Discourse	Discourse	Discourse
Global Perspective	Competitiveness	Understanding/ Peace	Global Citizenship
National Perspective	GDP	HDI	Citizenship/ Patriotism
Individual	Employability	Community	Moral/
Perspective		Harmony	Character

Emerging 2:

Big Education

Broad participation of the community

(Hong Kong)

School partners: student learning projects (sample: 228 schools):

Average of 9.8 projects/school Involvement of 1003 organization (only in sample)

Large variety of activities, enormous resources, beyond schools, beyond the formal curriculum.

After all ...

Industrial

analytic, regulated, structured, clear-cut, uniform, convergent, normative, neat, analytic, assertive & reducible to parameters

Post-industrial

holistic, flexible, loose, fuzzy, plural, divergent, liberal, complex, holistic, speculative & tolerant of multiplex concepts Thank you!

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