



The 7th International Policy Advisory Group Meeting

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Skills Upgrading and Human Capital
Development for Knowledge Based
Economies

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Skills and Talent for Innovation and Knowledge Based Economies

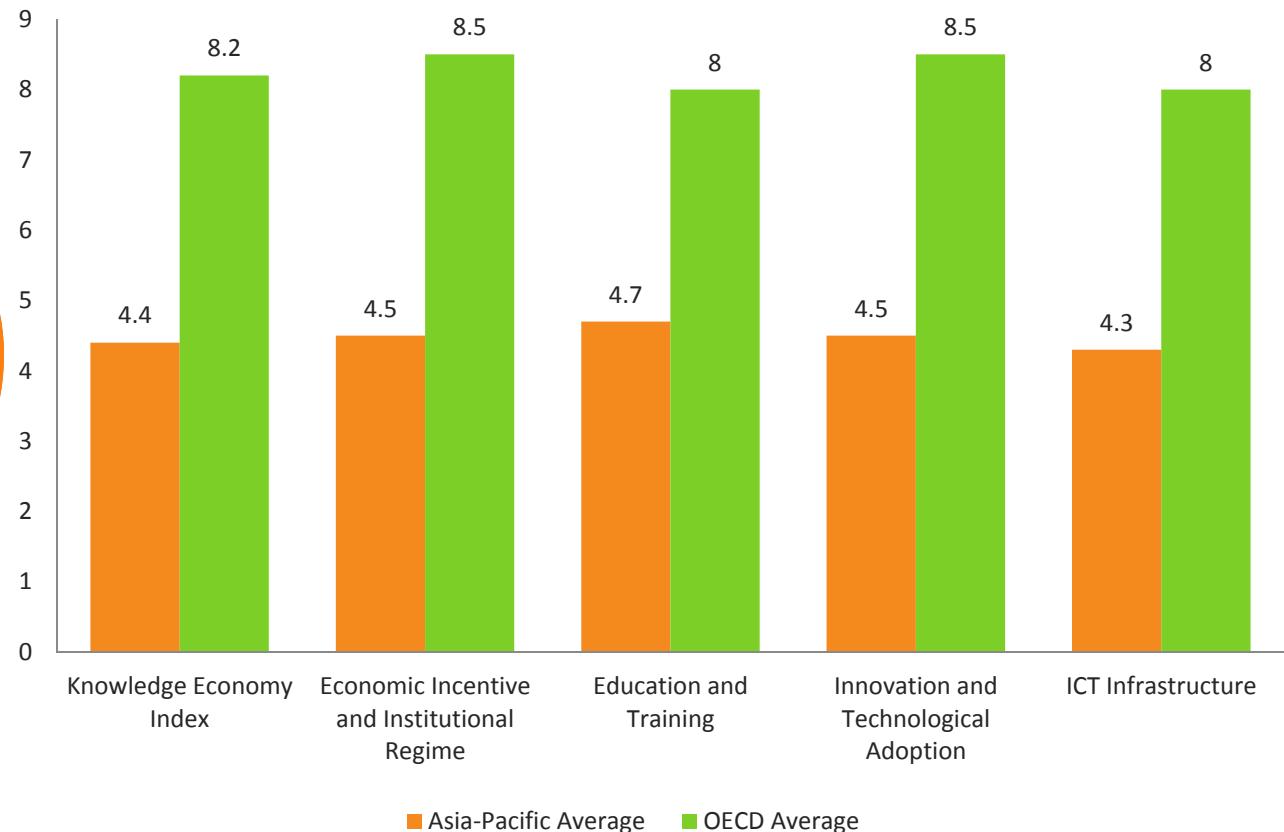
KNOWLEDGE ECONOMY

- Uses advanced technologies, skills, and knowledge to drive economic growth.
- Invests in software, patents, designs and new businesses and innovation and R&D.

TRADITIONAL ECONOMY

- Depends on labor-intensive agriculture; low labor cost advantages;
- Basic manufacturing using ideas and systems developed elsewhere.

ASIA NEEDS TO ENHANCE READINESS FOR KNOWLEDGE BASED ECONOMIC DEVELOPMENT

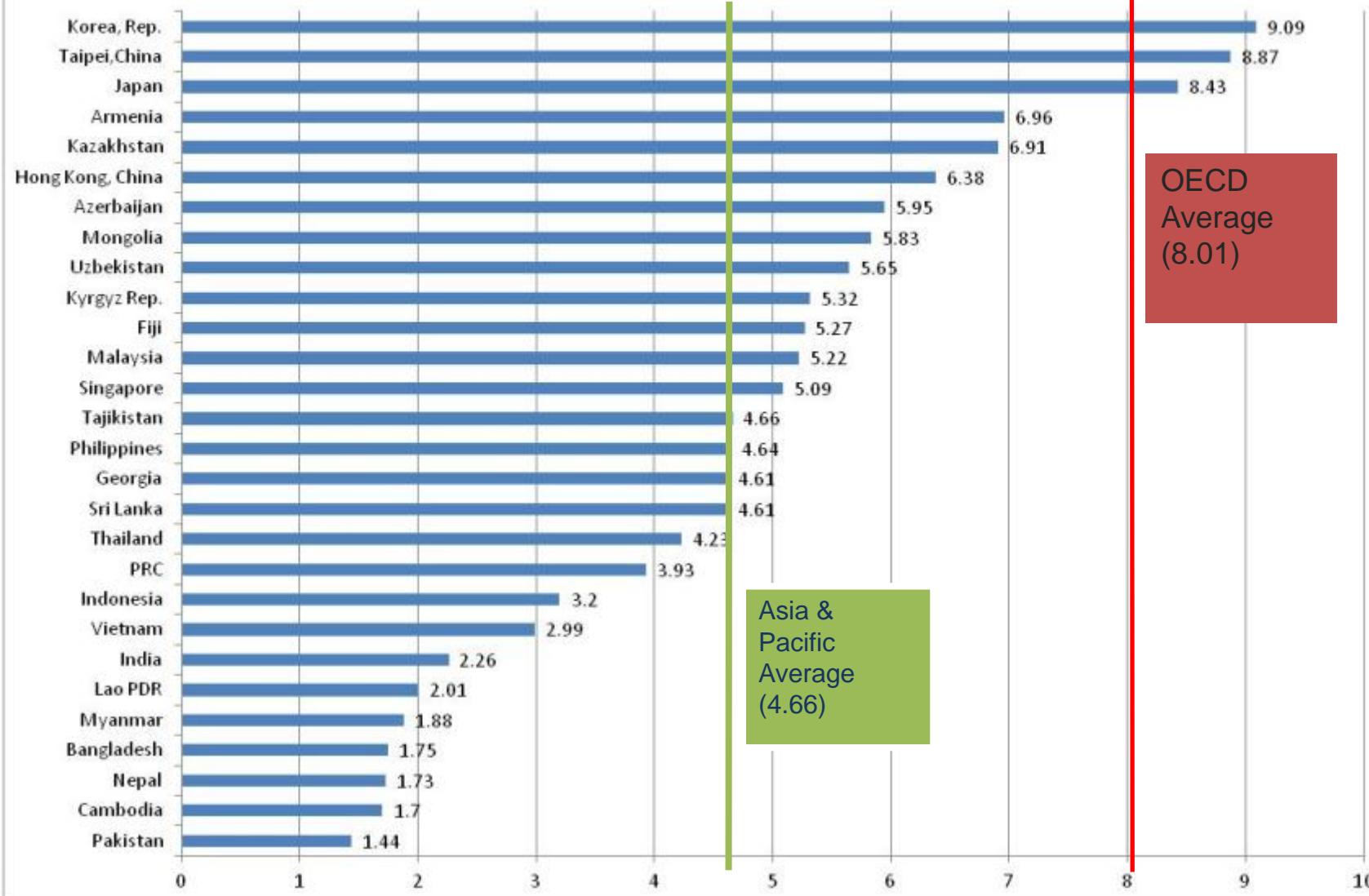


ASIA ABOUT HALF THE OECD AVERAGE



EDUCATION IN THE KNOWLEDGE ECONOMY INDEX

Education



TIMES ARE OPPORTUNE FOR DEVELOPING ASIA



BY 2020

- LARGEST COHORT OF UNIVERSITY STUDENTS
- A LARGE SHARE OF GLOBAL R&D
- 54% OF GLOBAL MIDDLE CLASS WITH 42% SHARE OF CONSUMPTION

- 138 M OFF-GRID, ON-NET POPN IN 2015
- 10 M JOBS FROM CLOUD COMPUTING
- 47% OF WORLD MOBILE DATA TRAFFIC IN 2017
- 7 OF TOP 10 LOCATIONS FOR GLOBAL IT-BPO SERVICES



DEVELOPING ASIA NEEDS TO DO **MORE** FOR EDUCATION, BUT ALSO **RIGHT** IN EDUCATION



Adapting to current
trends and amplifying
existing strengths

MORE

- Higher order talent and tertiary education
- Increased access to skills development
- Centers of excellence in R&D for innovation/S&T
- World standard tertiary institutions

RIGHT

- Diversity and depth in education and skills
- Less degree bias with a range of credentials
- Strengthen the knowledge triangle – coordination between science, education, innovation
- Skills and talent required for specific sectors of competitive strength for economic growth

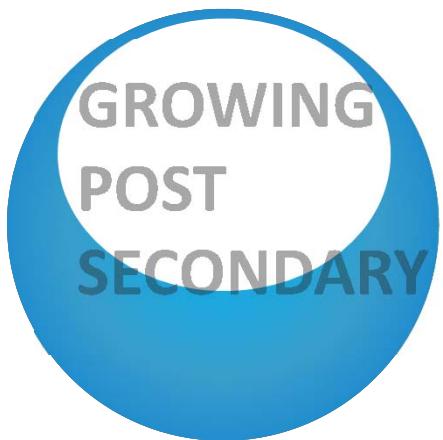




A circular arrangement of nine young adults of various ethnicities, all wearing black graduation gowns and caps with colorful tassels (red, green, yellow). They are looking down and slightly towards the camera with smiles. The background is a clear blue sky.

**TIMELY
AND
RELEVANT
EDUCATION**

ADB PORTFOLIO IN EDUCATION



- OVER 80% OF 2015-17 ALLOCATIONS FOR UPPER SECONDARY, TVET AND HIGHER EDUCATION.
- OVER 50% OF THE PORTFOLIO IS FOR SKILLS DEVELOPMENT, RESPONDING TO STRONG COUNTRY DEMAND
- 23% FOR UPPER SECONDARY, STRENGTHENING STEM EDUCATION
- TERTIARY EDUCATION IS SMALL BUT STRATEGIC



ADB SKILLS DEVELOPMENT PORTFOLIO

SAMPLE OF INTERVENTIONS

- SKILLS FOR DISADVANTAGED POPULATIONS AND INCREASING SKILLS FOR JOBS
- SKILLS FOR ECONOMIC GROWTH TO MOVE FROM LOW TO MIDDLE INCOME AND MIDDLE TO HIGH INCOME
- HIGHER ORDER SKILLS IN WORKFORCE
- SUPPORT TO POLYTECHNICS TO ENHANCE CREDENTIALS AND NATIONAL QUALIFICATION FRAMEWORK
- SUPPORT TO SHORT TERM, RURAL-BASED TRAINING FOR DISADVANTAGED YOUTH AND WOMEN
- COMPETENCY BASED SKILLS TRAINING AND INDUSTRY PARTNERSHIPS
- STRENGTHENING SOFT SKILLS: LANGUAGE AND IT SKILLS; EMPLOYMENT SERVICES AND JOB PLACEMENTS
- IMPROVING TRAINING COURSES, ACCREDITATION, QUALITY OF TRAINERS
- SKILLS FUND
- SKILLS PARKS
- POLICY REFORMS
- PRIVATE SECTOR PARTNERSHIPS
- NATIONAL QUALIFICATION FRAMEWORKS

GOING FORWARD: EDUCATION AND SKILLS FOR INNOVATION

- High quality tertiary education; Industry-university clusters; triple helix with regulatory incentives
- Decentralized education clusters , innovation districts at local levels (second tier cities, institutions)
- Education and skills for i-gen – critical mass in IT Skills
- Skills for high value services: “Manu Services”, Services for creative industries
- Green skills; skills for sustainability
- Augmented STEM AND STEAM in secondary education; Creative Sciences; Maker spaces; innovation labs

GOING FORWARD: EDUCATION AND SKILLS FOR INNOVATION

- BLENDED AND NON-INSTITUTIONAL LEARNING
- A NEW VISION FOR TRANSFORMATIONAL TECHNOLOGY IN EDUCATION

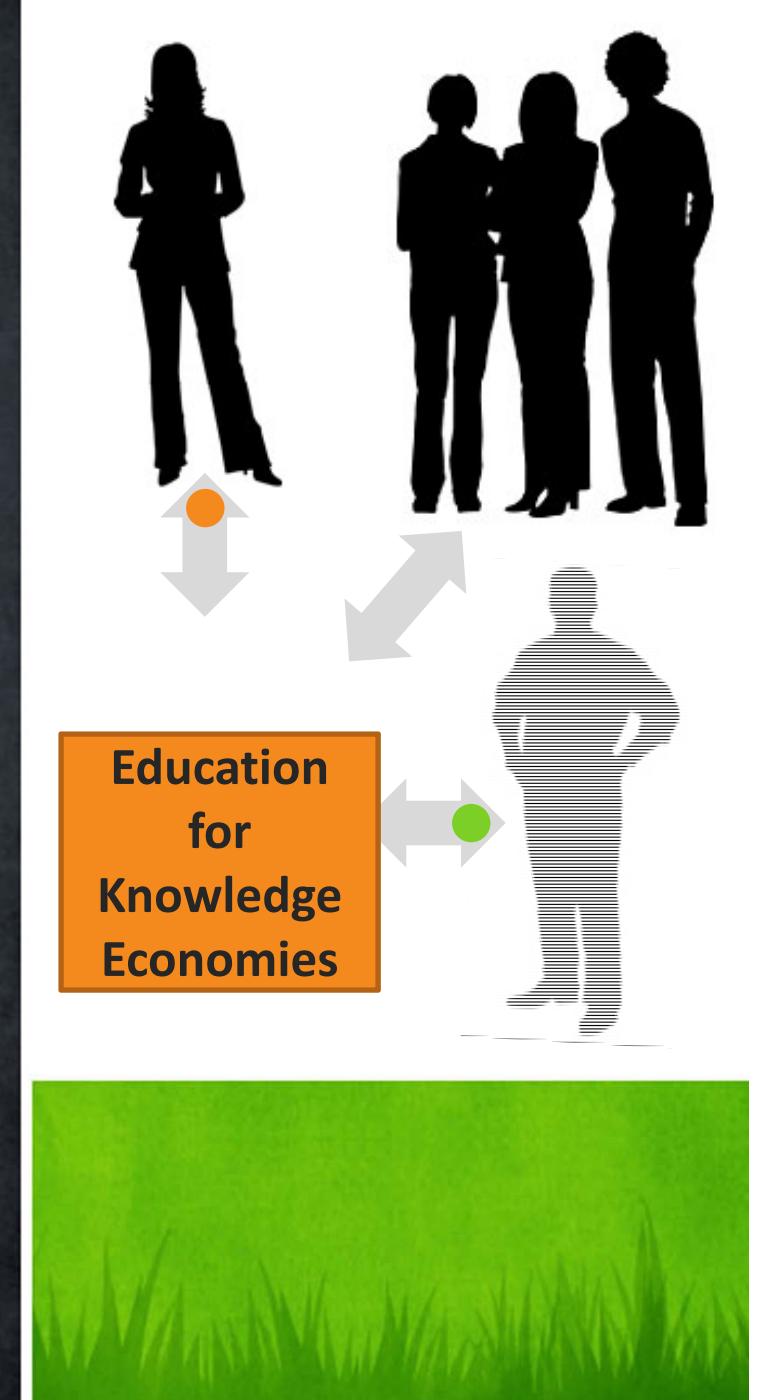
- Learning management systems
- Learning games
- Learning analytics
- Cloud enabled services

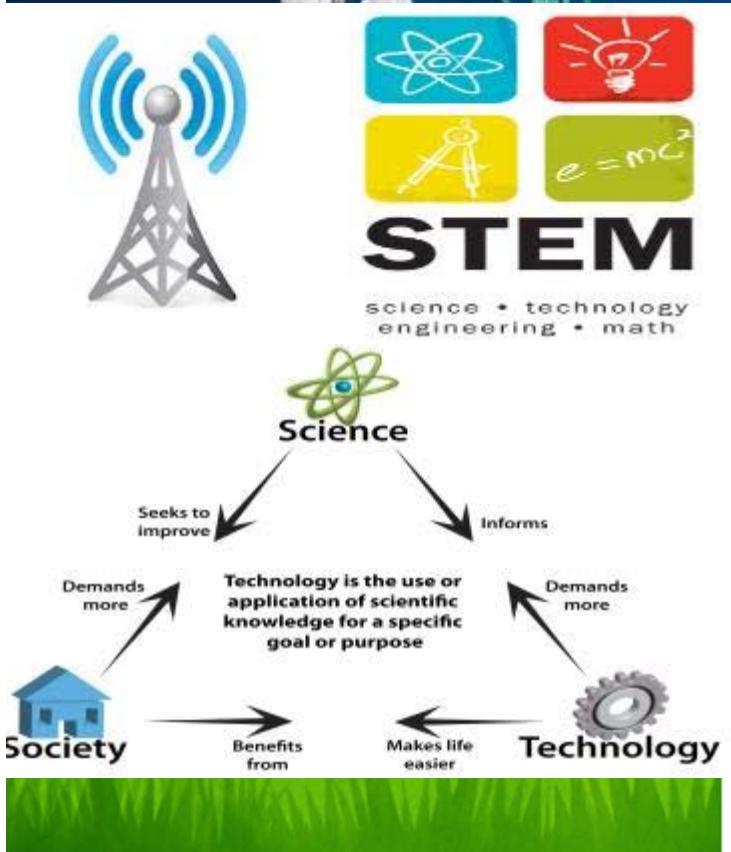
Education with physical and virtual infra: Consistent investments in new technologies for education: ICT that is upgradable/adaptable/affordable

- Private sector solutions for workforce training and talent management
- Education Venture Fund – private sector space

Collaborations and Partnerships

- Even advanced economies seek partnerships – it is a world of mutual benefit
- Singapore has one of the most successful education systems of the world through partnerships
- Korea has one of the highest ICT penetration in the world which transcends all sections of society
- Regional cooperation in S&T would be very beneficial for developing Asia., particularly ASEAN S&T roadmap





Investing in Education for Knowledge Economies

Timely Action that Matches Accelerating Change
can be
Game Changing for Developing Asia