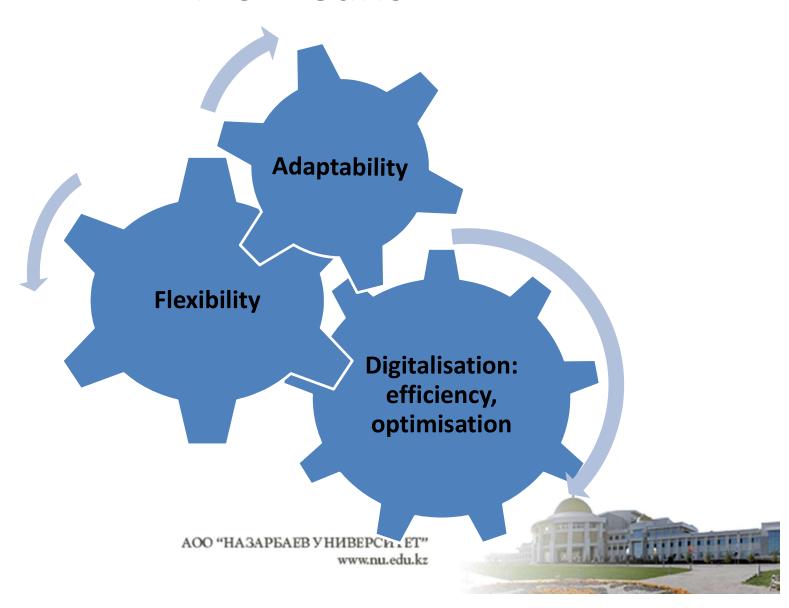




NU Deans





Create, Innovate, Disrupt

"Whatever can be done, will be done.

The only question is, "Will it be done by you or to you?" but it will be done..."

Tom Friedman, New York Times columnist





Jobs, Jobs, Jobs

STEM salaries are double non-STEM salaries Shannon Schuyler, PWC, April 2018

In Australia, growth in STEM jobs (14%) is 1.5 times that of non-STEM (9%) since 2005.

Australian Bureau of Statistics







OECD 2030

• Learn, unlearn, relearn...





the Individua,

Construct 1

Construct 2

Construct 3

Knowledge

Skills

Attitudes and Values

Construct 4

Construct 5

Construct 1

Construct 2

Construct 3

Construct 4

Construct 5

Construct 1

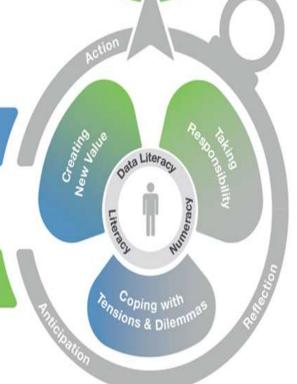
Construct 2

Construct 3

Construct 4

Construct 5







Pozo-Olano in Observer, 27 Feb 2018

- 1. Al and VR including history, theatre, literature
- 2. Students take charge of their learning
- 3. STEM will enjoy top honours free coding courses for kindergarten students
- 4. Games and assessments will change the lesson plan Kahoot and Socrative
- 5. Blended learning to engage younger students Arizona State University offers free online courses to 200 countries
- 6. Online learning platforms will graduate to the next level software as a service learning management systems such as Google Classroom 30 million students use Google Docs and Gmail at school
 - Teachers make short videos discussing texts and students choose to read the text or watch the video or both increasing pass rates
- 7. Online platforms will make continuing education elementary 40% of schools offer online coursework and microcredentials
- N.B. VIPKID global teaching service earns \$60 million per month





Silos

 Andrea Schelicher, Director of Education and Skills at OECD

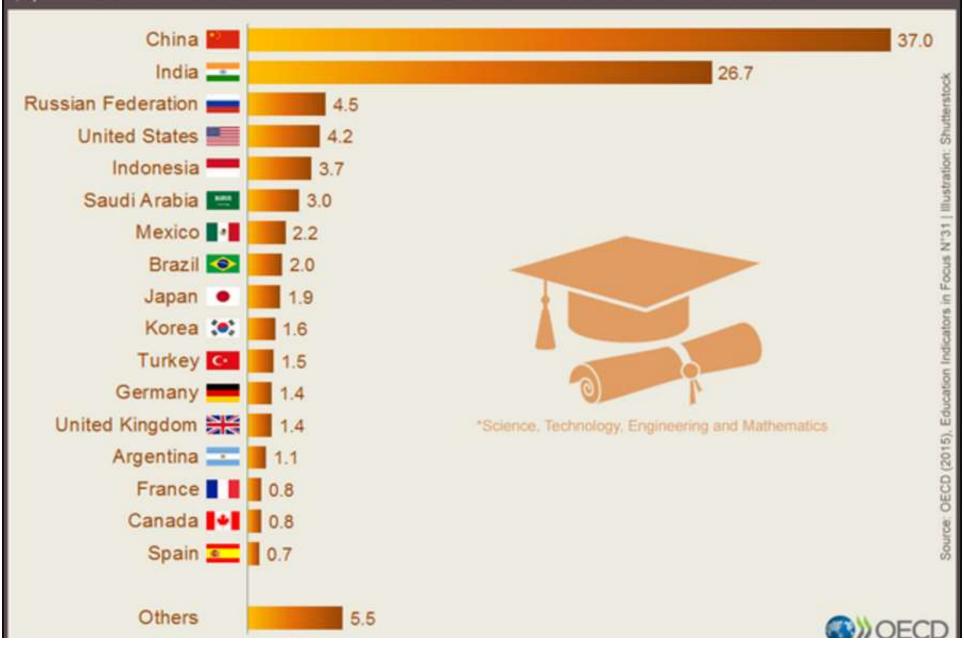
"Knowledge is no longer stacked in silos. What is required is the capacity to think across disciplines, connect ideas and "construct information". These global competencies will shape our world and the way we work and live together..."

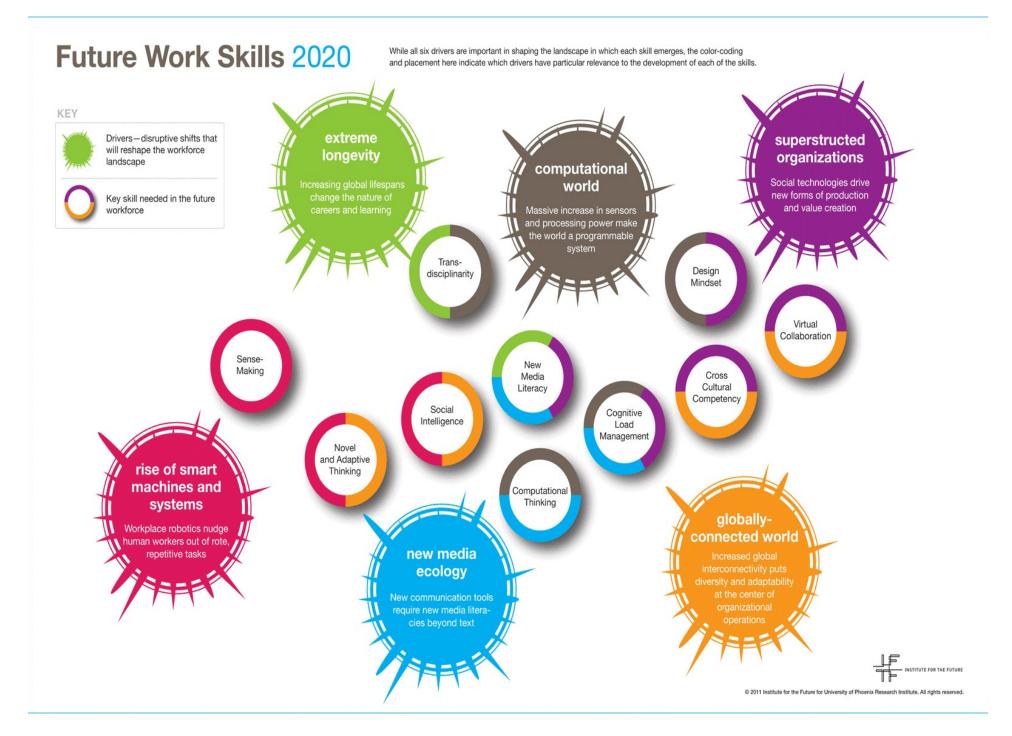




Tomorrow's scientists

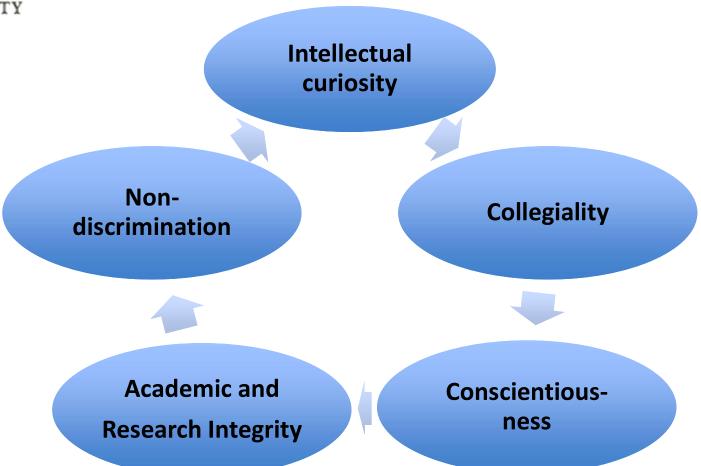
Projected share of graduates with STEM* degrees across OECD and G20 countries in 2030







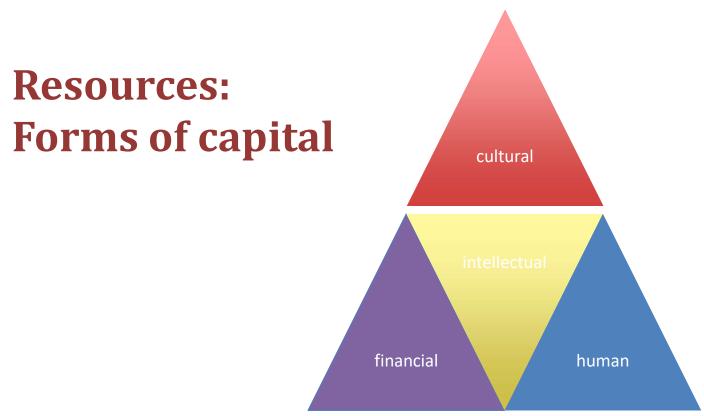
Universal Values?



AOO "НАЗАРБАЕВ УНИВЕРСИТЕТ" www.nu.edu.kz







AOO "НАЗАРБАЕВ У НИВЕРСИТЕТ" www.nu.edu.kz





"Messy, rich networks"

Libraries are a platform for the "messy, rich networks of people and ideas..."

Weinberger (2012) <u>Library Journal</u> <u>Cited in Mattern (2014)</u>

AOO "НАЗАРБАЕВ УНИВЕРСИТЕТ" www.nu.edu.kz

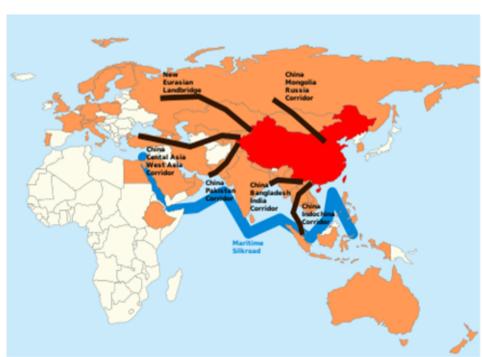


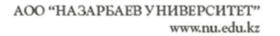


OBOR

Geographically OBOR structured with 7 routes: 6 land corridors and 1 maritime silk road

- 1. New Eurasian Land Bridge, running from Western China to Western Russia **through Kazakhstan**
- 2. China–Mongolia–Russia Corridor, running from Northern China to Eastern Russia
- 3. China- **Central Asia** –West Asia Corridor, running from Western China to Turkey
- 4. China–Indochina Peninsula Corridor, running from Southern China to Singapore
- 5. China–Myanmar–Bangladesh–India Corridor, running from Southern China to Myanmar
- 6. China–Pakistan Corridor, running from South-Western China to Pakistan
- 7. Maritime Silk Road, running from the Chinese Coast through Singapore to the Mediterranean









Good teachers

Masters students were found to get better grades when they were taught by teachers with higher quality publications.

Times Higher Education 5 June 2018





Selected Resources

21st Century Skills: Learning for the Digital Age The Forum Network, hosted by the OECD

https://www.oecd-forum.org/users/50593-oecd/posts/20442-21st-century-skills-learning-for-the-digital-age

Andriopoulos, C., & Lewis, M. W. (2009) Exploitation-Exploration tensions and organizational ambidexterity: Managing paradoxes of innovation.

Organization Science, 20(4), 696–717. doi:10.1287/orsc.1080.0406

Raisch, S., & Birkinshaw, J. (2008). Organizational ambidexterity: Antecedents, outcomes, and moderators. Journal of Management, 34(3), 375-409. doi:10.1177/0149206308316058

Turner, D. and Crawford, M. Change Power: Capabilities That Drive Corporate Renewal, Allen & Unwin, 1998.

