

Embracing the possibilities of kaahui ako learning

Hamilton Central Community of Learning

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Outline:

- What are the demands being placed on our education system?
- How can we work together to ensure we meet those demands and all thrive?



“The 'hidden curriculum' of schooling is the common insistence on obedience, politeness, punctuality, neatness and respect for authority.”



Bowles & Gintis (1976)

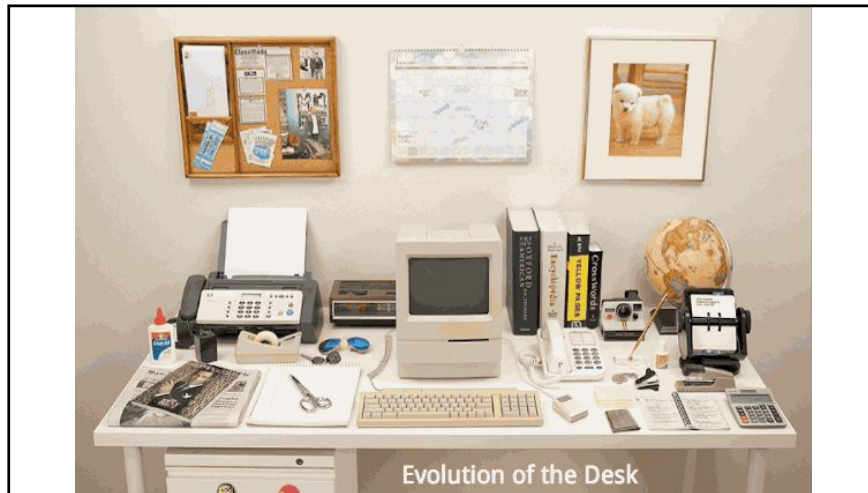
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“We are preparing our children for employers who have been dead for a hundred years.”



Sugata Mitra

Image Credit: Stefan Dietze



Why rethink education?

- It is no longer possible to predict exactly what knowledge people will need to know in the future: it is changing all the time, and new knowledge is being created at ever-increasing speeds. (Bolstad et al., 2012).
- Information is freely available like air or water. Knowledge can now be gained everywhere. Increasingly education is about skills, disciplines, and competencies as well as knowledge (Wagner, 2014).
- Increasingly what the world cares about is not what you know but what you can do with what you know. Simply getting the right answer is no longer enough (Wagner, 2014).



2004: DARPA Grand Challenge

US\$1,000,000 prize for the first autonomous vehicle to travel 150 miles.
Who claimed the prize?

No one.

The 'best' vehicle only completed 7 miles.



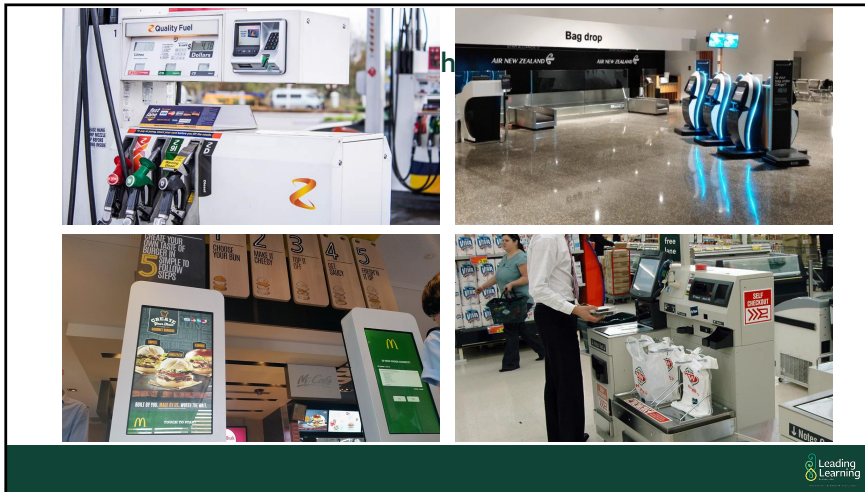
13 years later:

- 90% reduction in accidents & wasted commuting.
- Cost per KM trip reduced by 80%
- Acres of inner city land released
- Estimated 10,000,000 jobs lost globally



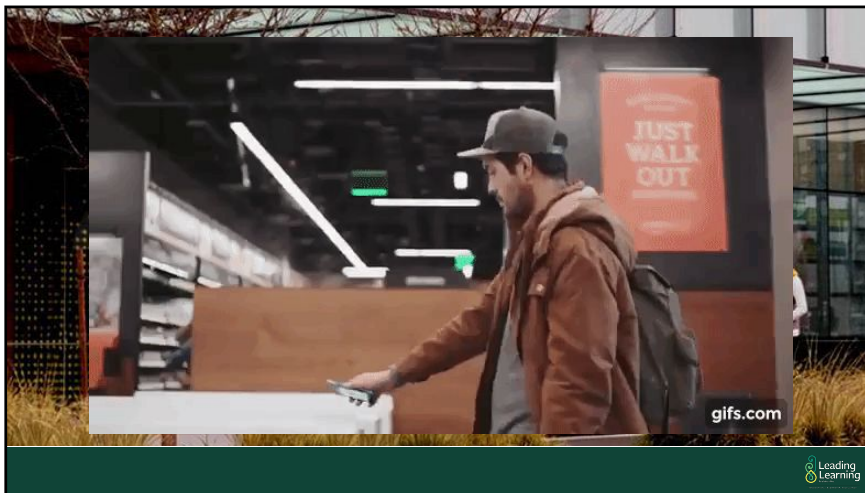
Assembly Line



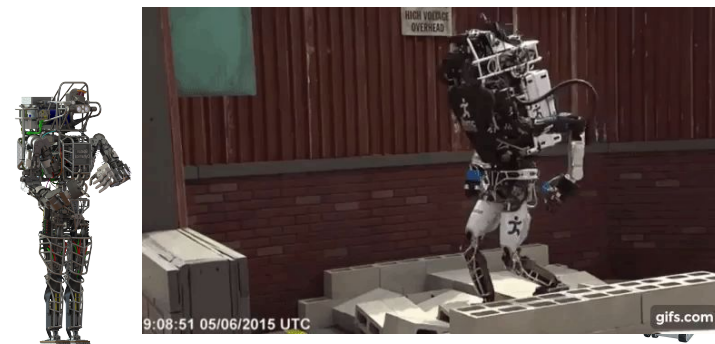


Fast food counter staff:

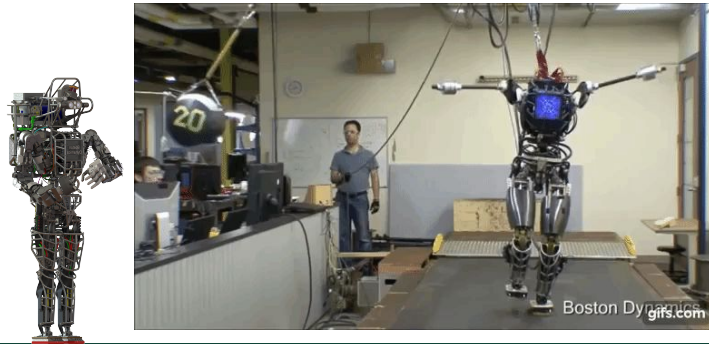
Order
machines
replace
people



Humanoid robots:



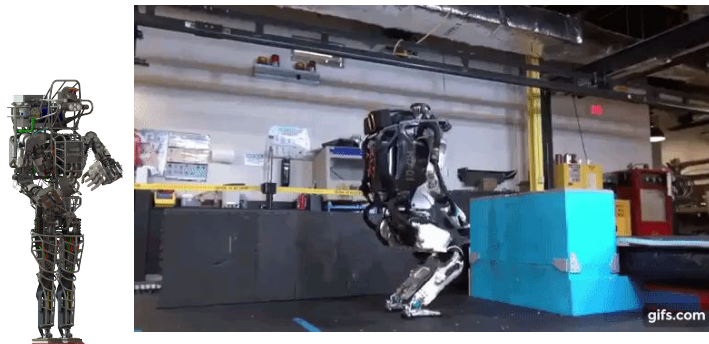
Humanoid robots:



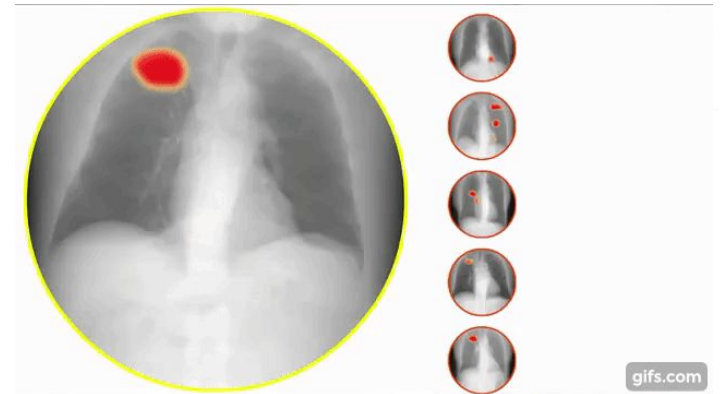
Humanoid robots:



Humanoid robots:




Diagnosis:



DEALBOOK / At BlackRock, Machines Are Rising Over Managers to Pick Stocks

At BlackRock, Machines Are Rising Over Managers to Pick Stocks

By LANDON THOMAS JR. MARCH 26, 2017



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MIT Technology Review

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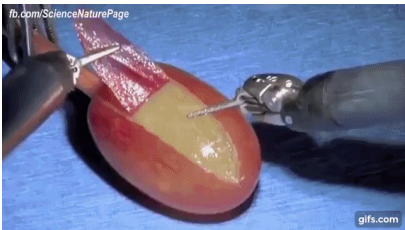
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Intelligent Machines

Nimble-Fingered Robot Outperforms the Best Human Surgeons

A surgical robot was able to repair pigs' bowels more accurately than human doctors.

by Will Knight May 4, 2016



A robot surgeon has been taught to perform a delicate procedure— stitching soft tissue together with a needle and thread—more precisely and reliably than even the best human doctor.

The Smart Tissue Autonomous Robot (STAR), developed by researchers at Children's National Health System in Washington, D.C., uses an advanced 3-D imaging system and very precise force sensing to apply stitches with submillimeter precision. The system was designed to copy state-of-the-art surgical practice, but in tests involving living pigs, it proved capable of outperforming its teachers.

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Wikipedia

From Wikipedia, the free encyclopedia

This article is about the Internet encyclopedia. For Wikipedia's home page, see Main Page. For other uses, see Wikipedia (disambiguation). For Wikipedia's visitor introduction, see Wikipedia:About.

Wikipedia, (^e/ˈwɪkiˈpidiə or ^e/ˈwɪkiˈpidiə *WIK-I-pee-dee-ə*) owned by the nonprofit organization Wikimedia Foundation,^{[5][6][7]} is a free Internet encyclopedia that allows its users to edit almost any article accessible.^[8] Wikipedia is the largest and most popular general reference work on the Internet^{[9][10][11]} and is ranked among the ten most popular websites.^[4]

Wikipedia was launched on January 15, 2001 by Jimmy Wales and Larry Sanger. Sanger^[12] coined its name,^[13] a portmanteau of *wiki*^[notes 3] and encyclopedia. It was only in the English language initially, but it quickly developed similar versions in other languages which differ in content and in editing practices. With 5,203,037 articles, English Wikipedia is the largest out of more than 290 versions of encyclopedias on Wikipedia. Overall, Wikipedia consists of more than 40 million articles in more than 250 different languages^[15] and as of February 2014, it had 18 billion page views and nearly 500 million unique visitors each month.^[16]

In 2005, *Nature* published a peer review comparing 42 science articles from *Encyclopedia Britannica* and Wikipedia, and found that Wikipedia's level of accuracy approached *Encyclopedia Britannica*'s.^[17] Criticism of Wikipedia includes claims that it exhibits systemic bias, presents a mixture of "truths, half truths, and some falsehoods"^[18] and that in controversial topics, it is subject to manipulation and spin.^[19]

Wikipedia

The logo of Wikipedia, a globe featuring glyphs from several writing systems^[4]

Screenshot [show]

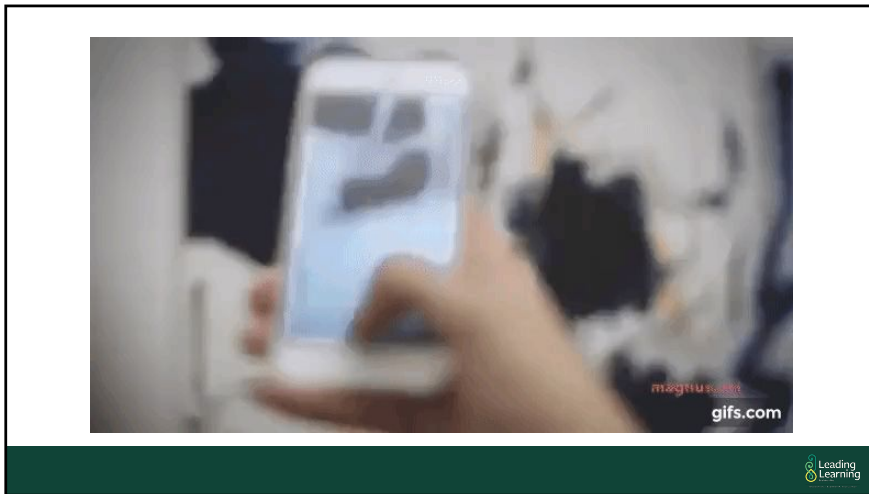
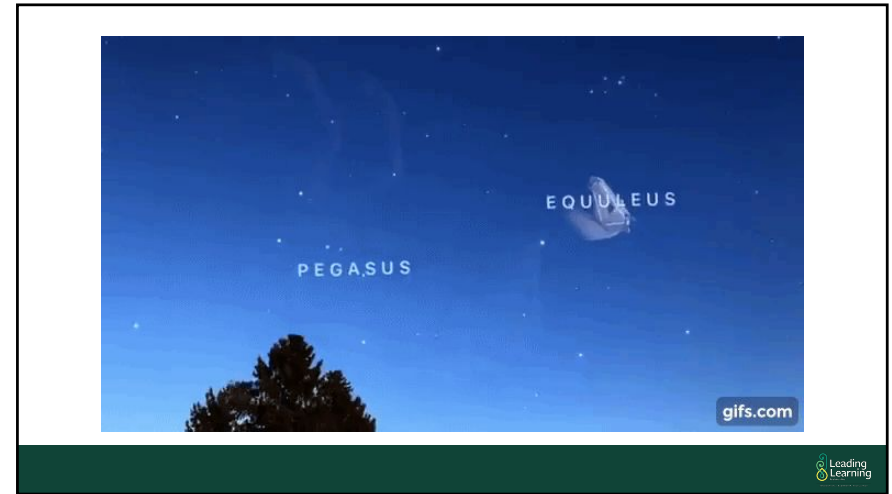
Web address wikipedia.org^[6]

Slogan *The free encyclopedia that anyone can edit*

Commercial No

Type of site Internet encyclopedia

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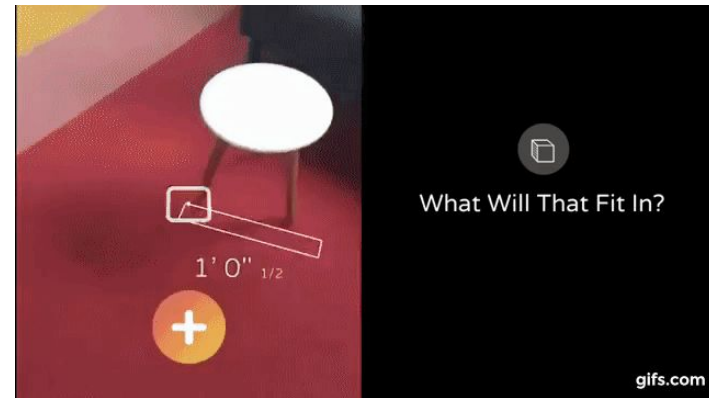


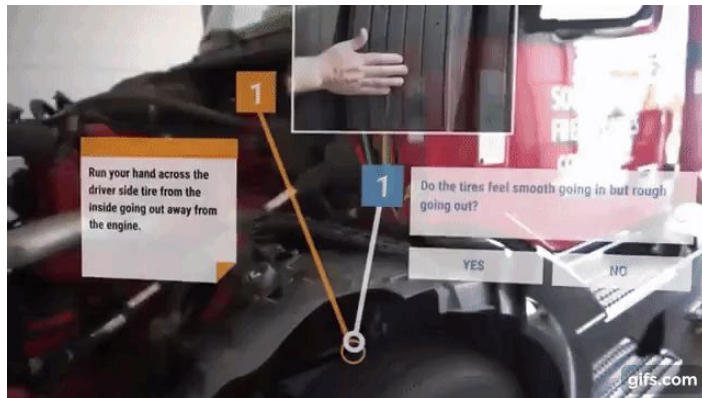
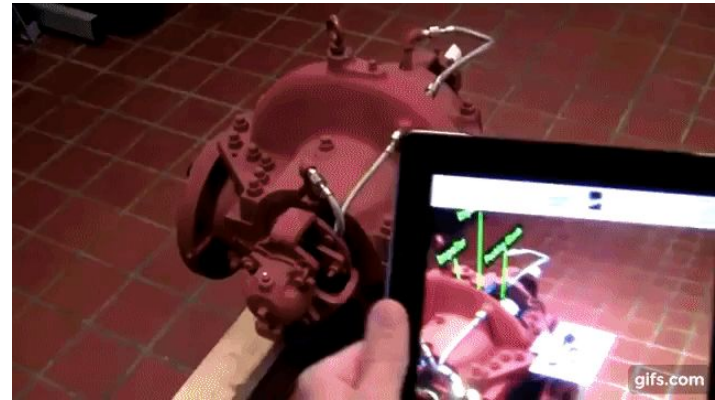
"Within a couple of decades, the tools used in most trades and for such basic acts as communicating, gathering information and keeping records have been replaced by digital ones."

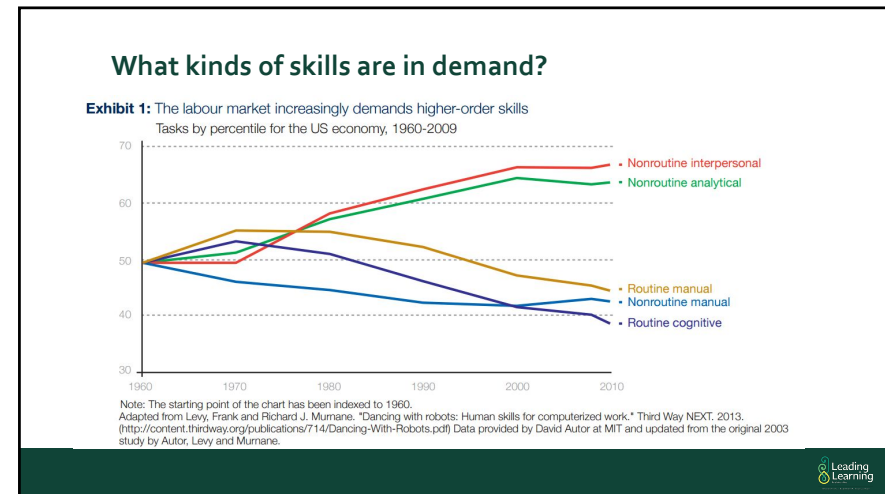
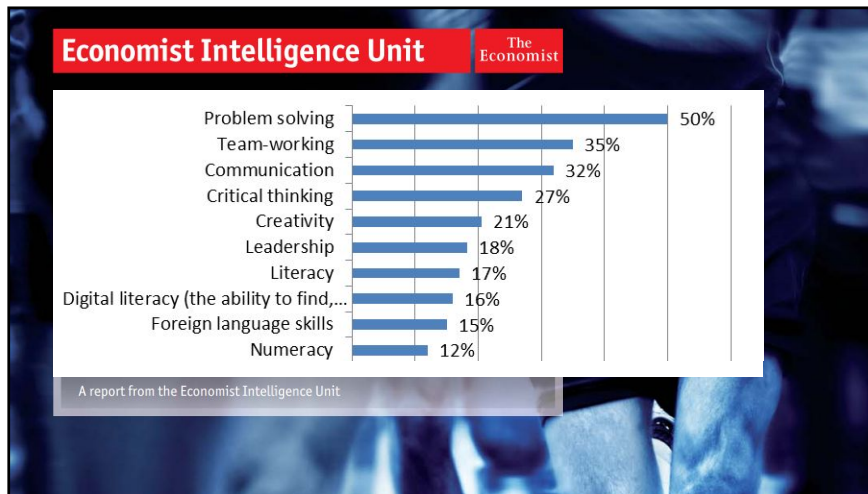
For the first time, today's parents and teachers have little, if any, experience with the tools that children are going to use every day in their adult lives."

OECD (2015)

Image Credit: Public Domain on Pixabay.com





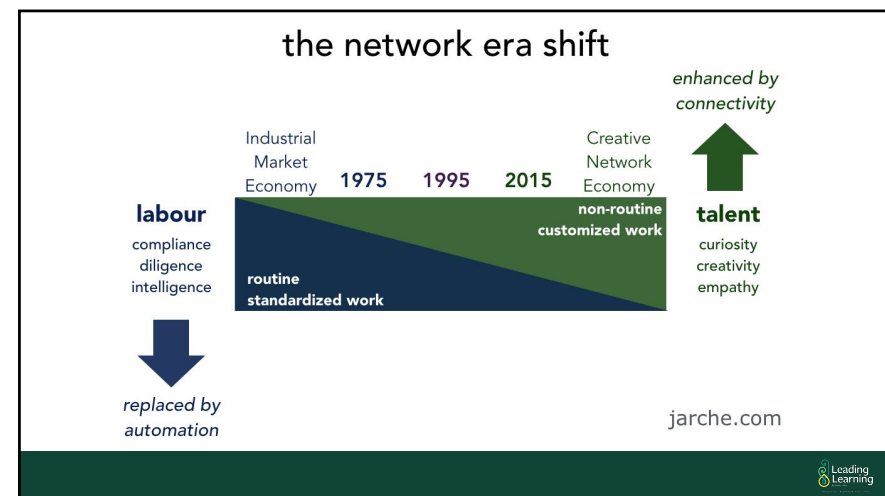


"People can never be better at computing than computers. We cannot become more efficient than machines. All we can do is be more curious, more creative, more empathetic. The fact that automation is taking away jobs once designed for people means that it is time we focus on what is really important: our humanity."

Harold Jarche (2016)

Image Credit: Public Domain on Pixabay.com

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What are the opportunities presented by kaahui ako?

Better together?

Home > Business

New Zealand
Regional News
Sport
Business
Property
Technology
World
Opinion
TimeOut Entertainment
Lifestyle
Travel
Rural
OneRoof Property
YUDU Jobs
Driven Motoring
Nature Matters

BUSINESS

NZ education 'top in world' for future skills, says British report

26 Sep, 2017 5:05pm 3 minutes to read



Children at Sylvia Park School, pictured with principal Barbara Aia alataoa, planted flax and trees in a school-wide project about the environment last year. Photo / Nick Reed

By **Simon Collins**
Education reporter, NZ Herald
simon.collins@nzherald.co.nz

The Economist Intelligence Unit says the six key skills needed to "flourish" are:

- Interdisciplinary skills;
- Creative and analytical skills;
- Entrepreneurial skills;
- Leadership skills;
- Digital and technical skills; and
- Global awareness and civic education

New Zealand's education system has been ranked top of the world in "educating for the future".

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Community

"There is a strong body of research supporting the positive impact of parental involvement on student outcomes and on the importance of whānau engagement."

"Research evidence shows that particularly strong and sustained gains in student achievement have been made when schools and families develop partnerships to support students' achievement at school."



Walberg (1999), Epstein (2001)

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"Auckland will become younger and browner as the New Zealand European population ages and shrinks."

Superdiversity:
when 25% of the population are migrants and 100+ ethnicities are present.

Auckland:

- 44% workforce born overseas; 200+ ethnicities.
- 1/3 speak one or more languages other than English

Superdiversity
Stocktake

Implications for Business,
Government & New Zealand
By Mai Chen

"New Zealand's, and predominantly Auckland's, future population will increasingly be younger, and of Asian, Māori and Pacific ethnicity."

SUPER
DIVER
SITY
CENTRE




Coherence and alignment

*"Understanding core ideas and the ability to transfer them to new situations should be the **twin** goals of education today."*



McTighe & Seif (2011)

Image Credit: Public Domain on Pixabay.com



"If students' learning opportunities are integrated and cumulative, rather than fragmented and rushed, learners are more likely to be engaged and successful."



Vivianne Robinson (2011)

Image Credit: Public Domain on Pixabay.com

Continuing professional learning

PLD is most powerful when it is...

- Embedded in practice
- Collaborative
- Well-researched and evidence-based
- Incremental, and sustained over time.



"The single most important factor on students' outcomes – explaining up to 60% in the variation in outcomes is...

the quality of teaching.

The effect of poor teaching on student outcomes is debilitating and cumulative."



Dr. Kenneth Rowe

Image Credit: Public Domain on Pixabay.com



"Learning is the process by which people acquire the intellectual heritage of their community."

Knowledge building is the process by which new knowledge is created."



Jan Van Aalst

Image Credit: Public Domain on Pixabay.com

Mauri ora

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