The Learning Future

Possibilities and provocations for leaders of Independent Schools in Victoria

ISV Conference

Workshop 15th September 2025







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CEO + Founder - The Learning Future



Our Learning Intentions:

To examine signals, trends and future scenarios for education.

To reflect on shifting demographics, and technologies impacting our work in schools, especially generative AI.

To consider our own leadership and pedagogical mindsets as we lead teams across Victoria.

Our Success Criteria:

You understand the relevance of emerging issues and themes for education. You have reflected on the principles that underpin your approach to leading learning.

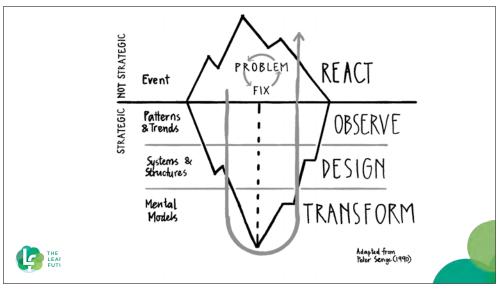
You have increased your futures literacy through engagement with a number of frameworks and provocations to build on your impact as an educator. You have smiled at least once - joy is good for you.

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Enraged Panicked Stressed Jittery Shocked Surprised Upbeat Festive Exhibitarated Ecstatic

Livid Furious Frustrated Tense Stunned Hyper Cheerful Motivated Inspired Elated

Fuming Frightened Angry Nervous Restless Energised Lively Excited Optimistic Enthusiastic

Anadous Apprehensive Worried Irritated Annoyed Pleased Focused Happy Proud Thrilled

Repulsed Troubled Concerned Uneasy Peeved Pleasant Joyful Hopeful Playful Blissful

Bisgusted Glum Disappointed Down Apathetic At ease Easygoing Content Leving Fulfilled

Pessimistic Morose Discouraged Sad Bored Calm Secure Satisfied Grateful Touched

Alienated Miserable Lonely Disheartened Tired Relaxed Chill Restful Blessed Balanced Balanced

Bisgusted Chill Restful Comfortable Carefree

Exhibitarated Ecstatic

Love Pleased Troubled Concerned Uneasy Peeved Pleasant Joyful Hopeful Playful Blissful

Despondent Depressed Sullen Exhausted Fatigued Mellow Thoughtful Peaceful Comfortable Carefree

Love Pleasant Depressed Sullen Exhausted Fatigued Mellow Thoughtful Peaceful Comfortable Carefree

Love Pleasant Ness Desolate Spent Drained Slaepy Complacent Tranquil Coary Serene

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"Emotion regulation is not about not feeling. Neither is it exerting tight control over what we feel. And it's not about banishing negative emotions and feeling only positive ones. Rather, emotion regulation starts with giving ourselves and others the permission to own our feelings—all of them."

- Professor Marc Brackett

The opportunities



The Future of Work

How can education equip all young people with the skills and competencies for rapidly evolving economies and the digital revolution?





Innovation Capacity

How can schools foster initiative, resilience and entrepreneurial spirit?



Educational Attainment

How can we improve learning outcomes in all contexts, especially for those children and adults on the margins of society?

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Mental Health

What can education do to help promote wellbeing and reduce mental health difficulties?



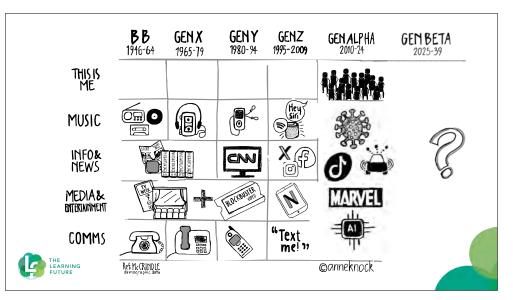
Social Cohesion

How can we help young people feel confident in their own identities and vested in community at local and global levels?

Credit: Salzburg Global Seminar: Statement on Social Emotional Learning, 2019

Future Who
Future When
Future What
Future Why
Future How

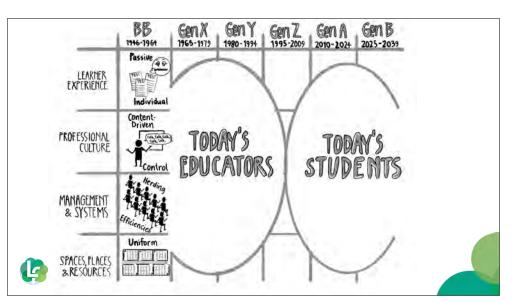


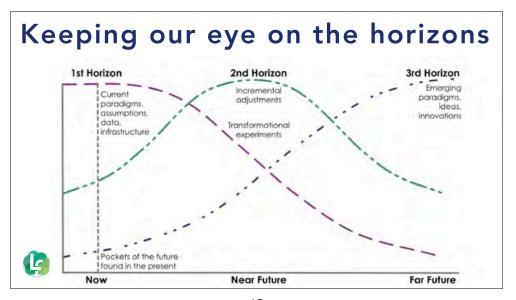


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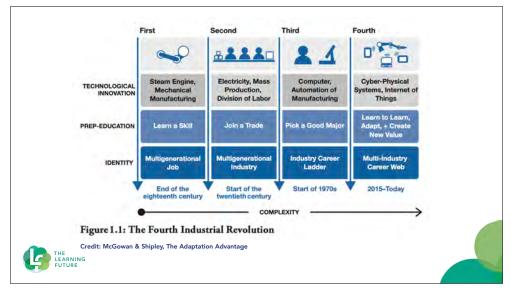


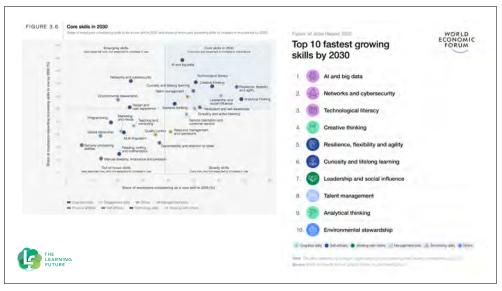


"The future is already here it's just not evenly distributed."

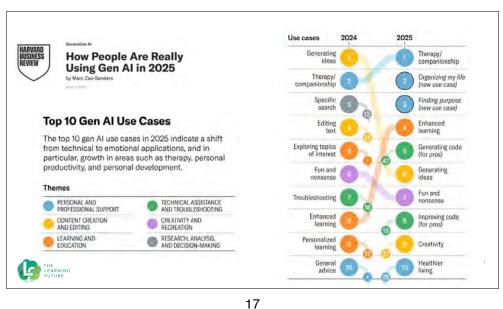
- William Gibson

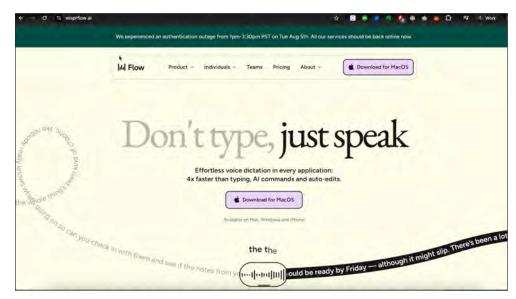
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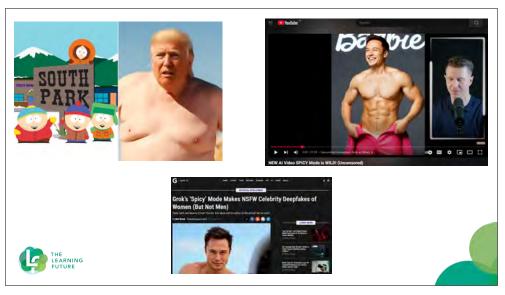


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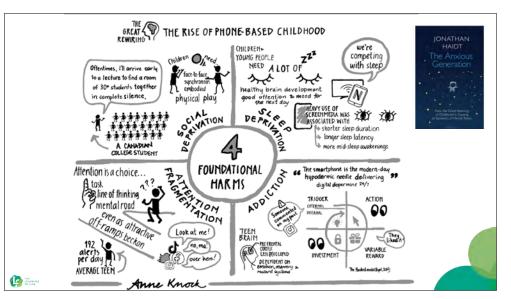


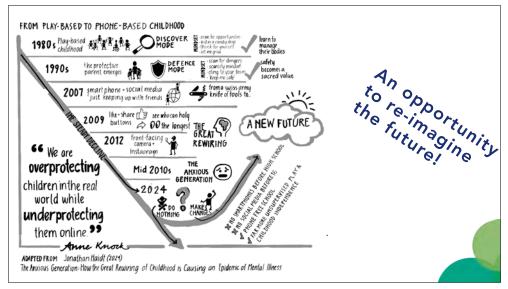








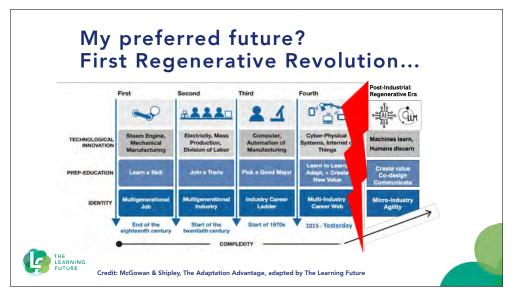






"A primary cause of the rise in mental health disorders is a decline over decades in opportunities for children and teens to play, roam and engage in activities independent of direct oversight and control by adults"

-Peter Gray et al. (2023)

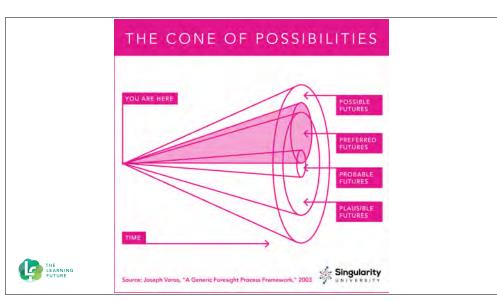


What if...

Future scenarios, signals, themes, principles.

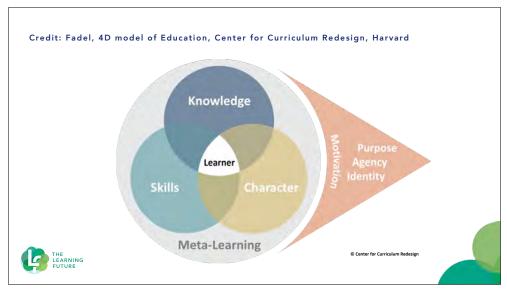


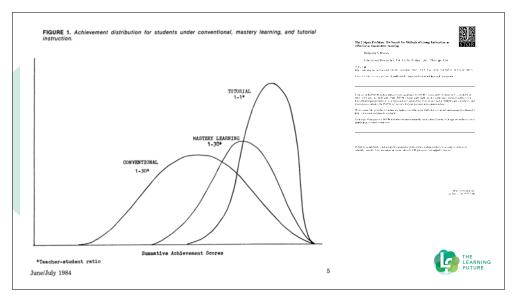
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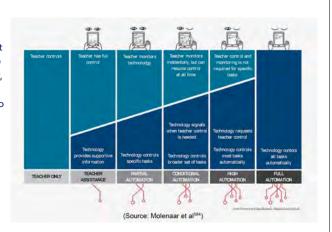
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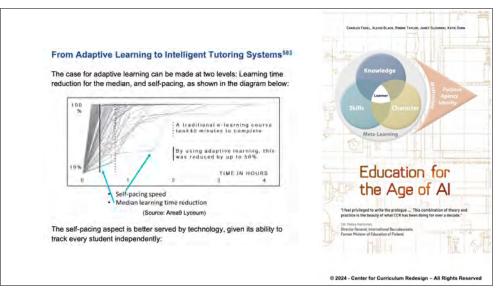




"...it is not yet clear the extent to which such systems will be driven completely vs partially, by teacher vs student. It will take numerous experiments to understand all the variables that drive each scenario and their interplay (for instance: verticality of the discipline; proficiency of the teacher; level of the student; etc)"

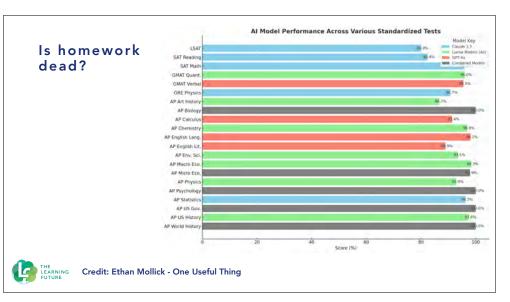
- Education for the Age of AI, 2024



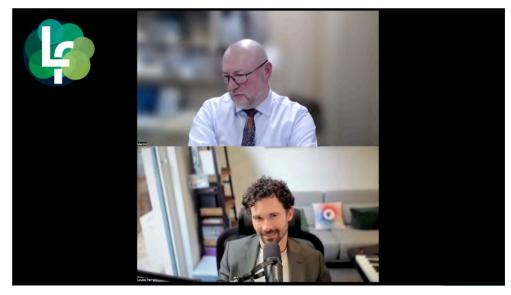


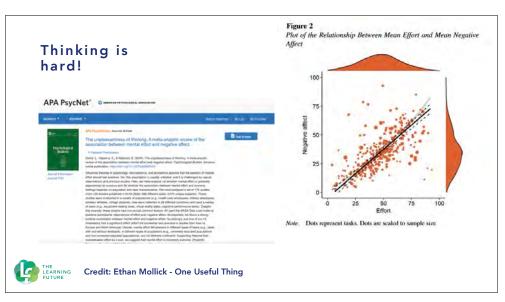


"The traditional model for homework, where you grade what the students bring back with them on paper is dead."



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Recent MIT study released that tracked 54 students with EEG brain scans for 4 months.

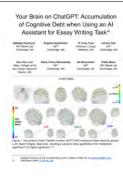
Main Insight: "Cognitive Debt"

Students who built thinking skills FIRST, then used AI, showed increased brain activity compared to Al-only users.

What else?

- 'Brain-only' students had the strongest neural networks, search engine users were in the middle. ChatGPT users had the weakest
- Students using ChatGPT couldn't quote their own essays minutes after writing them
- Brain connectivity systematically decreased based on external AI support
- Human teachers could reliably identify Al-written work without being told about the study conditions





The case for rigour but not rigidity!

"Students using ChatGPT couldn't quote their own essays minutes after writing them"

- Kosmyna et al. (2025)
- "Bilingual children have been shown to outperform monolingual children on tasks measuring executive functioning skills."
- Poulin-Dubois et al. (2011)



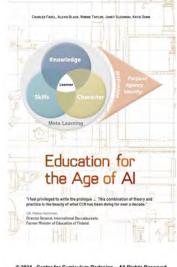


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"The right question is: Given Als powerful capabilities, and increasingly so, how do we adapt education to remain relevant?

By developing both Expertise AND Transfer"

- Education for the Age of AI, 2024



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"All models are wrong, but some are useful...

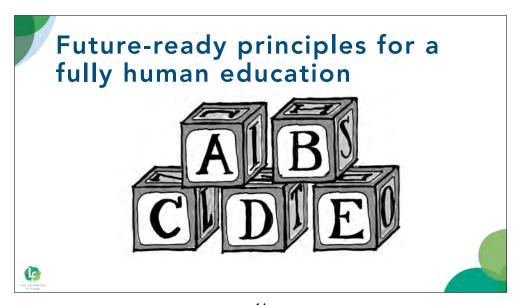
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the practical question is how wrong do they have to be to not be useful...

to find out what happens to a system when you interfere with it you have to interfere with it (not just passively observe it)."

- George E. P. Box





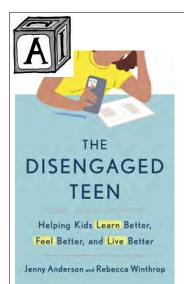


How might we activate **agency** for ourselves and our learners?

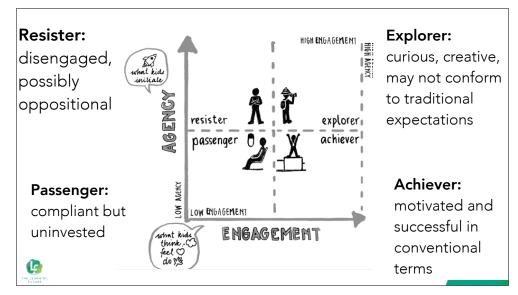


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Engagement sits at the core of what it means to learn well. Feelings, thoughts, and actions work together to influence whether kids dig in when things get hard or give up; whether they try to make sense of something or let it go; whether they marshall resources for what they care about or passively comply with what's on offer. p.7





How might we increase a sense of **belonging**?





"Belongingness has emerged as a key predictor of mental health, influencing everything from selfesteem to overall life satisfaction."

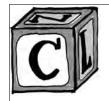




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How might we protect and cultivate curiosity?





Curiosity as a predictor of academic performance



Over the past century, academic performance has become the gatekeeper to institutions of higher education, shaping career paths and individual life trajectories. Accordingly, much psychological research has focused on identifying predictors of academic performance, with intelligence and effort emerging as core determinants. In this article, we propose expanding on the traditional set of predictors by adding a third agency: intellectual curiosity. A series of path models based on a meta-analytically derived correlation matrix showed that (a) intelligence is the single most powerful predictor of academic performance; (b) the effects of intelligence on academic performance are not mediated by personality traits; (c) intelligence, Conscientiousness (as marker of effort), and Typical intellectual Engagement (as marker of intellectual curiosity) are direct, correlated predictors of academic performance; and (d) the additive predictive effect of the personality traits of intellectual curiosity and effort rival that the influence of intelligence. Our results highlight that a "hungry mind" Is a core determinant of individual differences in academic achievement.



How might we develop discernment?



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What is meant by discernment?

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The ability to notice subtle cues, question surfacelevel certainty, choose with awareness rather than instinct or habit.

THE LEARNING

Discernment Under Pressure: The Decision-Making Skill Most Leaders Skip By Vibhas Ratanjee https://www.forbes.com/sites/vibhasratanjee/2025/07/14/discernment-under-pressurthe-decision-making-skill-most-leaders-skip/



Large Language Models Pass the Turing Test

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Abstract

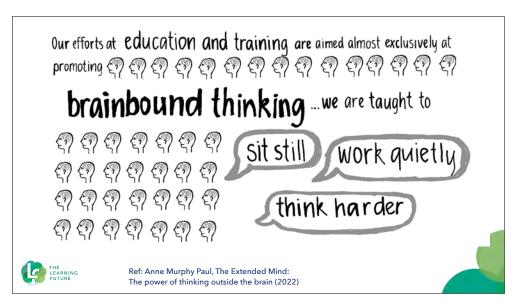
We evaluated 4 systems (ELIZA, GPT-4o, LLaMa-3.1-405B, and GPT-4.5) in two randomised, controlled, and pre-registered Turing tests on independent populations. Participants had 5 minute conversations simultaneously with another human participant and one of these systems before judging which conversational partner they thought was human. When prompted to adopt a humanlike persona, GPT-4.5 was judged to be the human 73% of the time; significantly more often than interrogators selected the real human participant. LLaMa-3.1, with the same prompt, was judged to be the human 56% of the time—not significantly more or less often than the humans they were being compared to—while baseline models (ELIZA and GPT-4o) achieved win rates significantly below chance (23% and 21% respectively). The results constitute the first empirical evidence that any artificial system passes a standard three-parry Turing test. The results have implications for debates about what kind of intelligence is exhibited by Large Language Models (LLMS), and the social and economic impacts these systems are likely to have.





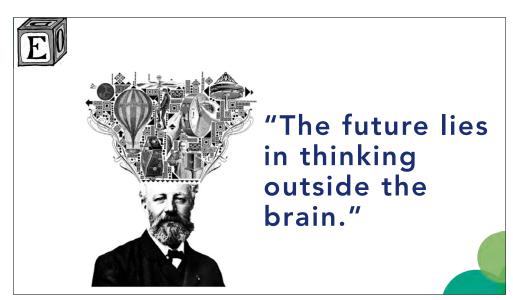
How do we design for embodiment?

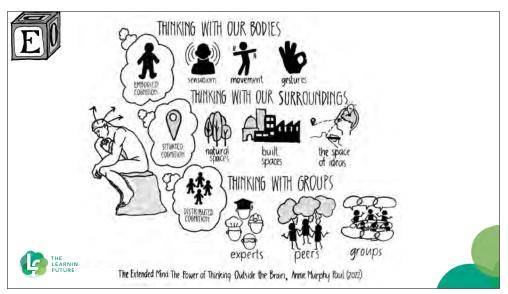




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Embodied Cognition







gestures

"High resilience people possessed a keen sense of their internal world"

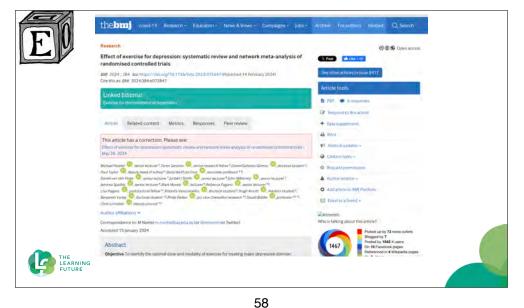
"Cognitive load considerably increased under the instruction not to move"

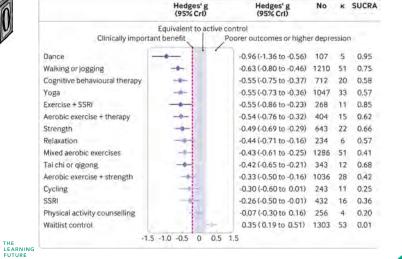
"Gesture helps to give shape to an incipient notion still forming in our mind."



Ref: Anne Murphy Paul, The Extended Mind: The power of thinking outside the brain (2022)

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