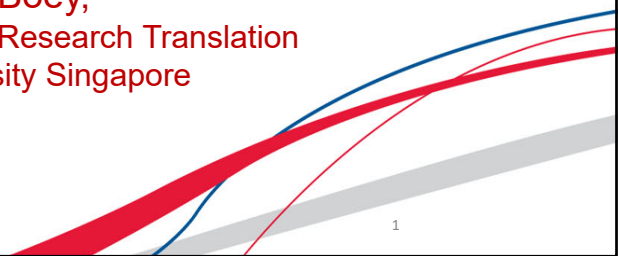


10th Global Educational Leadership Conference

*Teaching Yesterday, Learning Today,
Innovating Tomorrow*

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Is it really going to be different this time?

- *Innovation 1.0 - steam power*
- *Innovation 2.0 - Electricity*
- *Innovation 3.0 - Electronics*
- ***Innovation 4.0 - Smart Platforms***

From Gutenberg to Gates....

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Is it really going to be different this time?

- Pervasive intrusion of I4.0, brings social and educational outcomes
- It's always been more about teaching than learning. We (think we) know how to teach.. but do we know how students are learning?
- The power students have for learning today has dramatically tipped the scale to overwhelm the present way we teach...

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- Original Greek for scholar is "*one who lives at ease*", i.e., *plenty of free time!* But our students today have anything but free time!
- Why are we so afraid to take away?
- We want to teach what we want to teach, but do the students really need to learn what they are learning?
- What *is* learning ?

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The Four 'I' in Learning

- Learning by Inspiration
- Learning by Interaction
- Learning by Institution
- Learning by Innovation

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Technology Driven Online Learning

- MOOC: Massive Open Online Courses
- Augmented Learning – VR and AR
- AI & Data Analytics



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Technology Enhanced Learning

- Experiential Learning - now affordable
- Personalized Learning - individual feedback
- Efficient Learning - less time, more retention
- Scalable Learning

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TEL@NTU: Lessons Learned

- *NTU: 32K students, 1600 faculty*
- *New Medical School - NO LECTURES! 1st batch graduating this month. **V Positive feedback***
- *Aim: 500 TEL courses/3 years; 50% /5years*

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TEL@NTU: Lessons Learned

- *Top down: system integration & staff concerns*

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TEL@NTU: Lessons Learned

- *Top down: system integration & staff concerns*
- *Redefined Role for teacher*

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TEL@NTU: Lessons Learned

- *Top down: system integration & staff concerns*
- *Redefined Role for teacher*
- *Need strong TEL team or vendors: integrating them with teachers a challenge!*

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TEL@NTU: Lessons Learned

- *Top down: system integration & staff concerns*
- *Redefined Role for teacher*
- *Need strong TEL team or vendors: integrating them with teachers a challenge!*
- *Students easily adapt, but not teachers!*

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INNOVATION TOMORROW

Danger:

*“teaching yesterday’s lessons to today’s students,
for an innovative tomorrow.”*

- *Innovation is not about finding the right answer but about asking the right question*
- *What if the exam is not about giving the right answer, but asking the right question ? How would you teach ?*

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The Really Big Question for Institutes of Learning Today ?

- It is no longer just what to teach, but HOW to teach...
To fit how students are learning tomorrow.
- What if I4.0 and I5.0 make 50% of what we teach irrelevant or redundant ?
- What if half of our degrees are no longer employment relevant, or pay a lot less?

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