

Integration of Case Study with Technology Enhanced Learning as a Tool in Teaching Complex Modules

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Agenda

- Teaching using Case Study
 - Technology Enhanced Learning (TEL)
 - Application of Case Study with TEL in a Complex Module
 - Conclusion
 - Acknowledgment
 - Q&A
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Teaching using Case Study



Cases are stories with a message. They are not simply narratives for entertainment, they are stories to educate¹.

(Clyde Freeman Herreid)

¹Herreid CF. 1997. What is a Case? *Journal of College Science Teaching* 27 (2): 92-94

What is Case Study?

- Case study is a method of instruction using a cases that requires students' participation in analysing and then framing action items for possible solution to the problem.
 - Using case study, students are expected to argue and/or defend their position similar to how professionals facing actual problems in the real world is apt to do.
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Why Case Study?

Stories are medicine. I have been taken with stories since I heard my first. They have such power; they do not require that we do, be, act anything—we only need listen...

Stories are embedded with instructions which guide us about the complexities of life.

Clarissa Pinkola Estés (Women Who Run with the Wolves), 1992.

Why Case Study?

- Expose students to real situations
 - Provide a structured forum for sharing experiences
 - Encourage ‘higher order’ learning in the students
 - Students will develop skills in problem solving, critical thinking and decision making in complex situations
 - Students are actively engaged in figuring out the principles by abstracting from the case study (active learning)
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Approach in Teaching Using Case Study

Discussion

- Focuses on unmade decisions: Long & short discussion

Research

- Examines cause and effect in a real world case

Walkthrough

- Provides an example used to guide students through an analytical process

Debate

- Provides a rich world problem for students to debate on two opposite views

What Makes a Good Case?

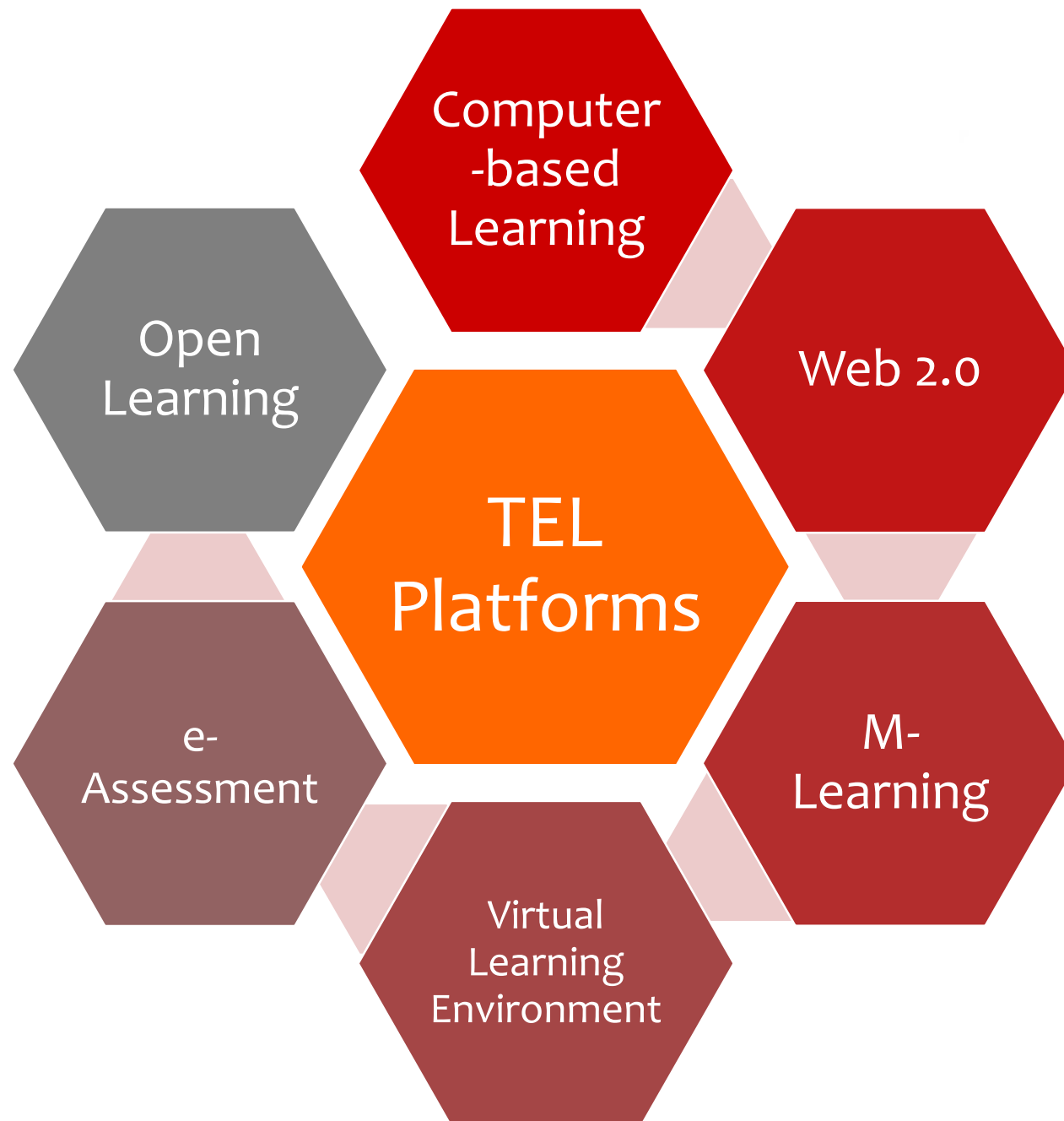
- It is a case, not a story
- Tackles a relevant and important issue
- Provides a voyage of discovery – and even some interesting surprises
- Controversial
- Contains contrast and comparison
- Provides currently useful generalizations
- Has the data to tackle the problem
- Has a personal touch
- Well structured and easy to read
- Short

Technology-Enhanced Learning (TEL)

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- TEL is defined as any online facility or system that directly supports learning and teaching¹.
- An obvious type is **e-learning**, defined as learning facilitated, supported or made possible through technology.
- E-learning has been demonstrated to be as equally as effective in achieving learning outcomes as traditional approaches.

¹Jenkins M, et al. 2011. *Interactive Learning Environments* 19 (5): 447–65.



Web 2.0

- Platform that allows individuals to (1) collaborate with one another and contribute to the authorship of content, (2) customize web sites for their use, and (3) instantaneously publish their thoughts¹.
- Examples²:

Functionality	Technology	Example
Online reflection	Weblog	Blogger, Edublogs
Online collaboration	Wiki	PB wiki, Wetpaint
	Audio discussion board	Wimba voice, Voicethread
Social spaces	Social network	Facebook, Twitter
Repository	Video sharing	YouTube
	Podcast	Houndbite, Chirbit
Social bookmarking	Social bookmarking	Delicious, Diigo, Simpy
3-D immersive virtual worlds	Game virtual worlds, social virtual worlds	World of Warcraft, Second Life, Active Worlds

¹Alexander B. 2006. *Educause Review* 41(2): 32–44.

²Hew KF & Chung WF. 2013. *Educational Research Review* 9: 47–64.

Web 2.0 Tools

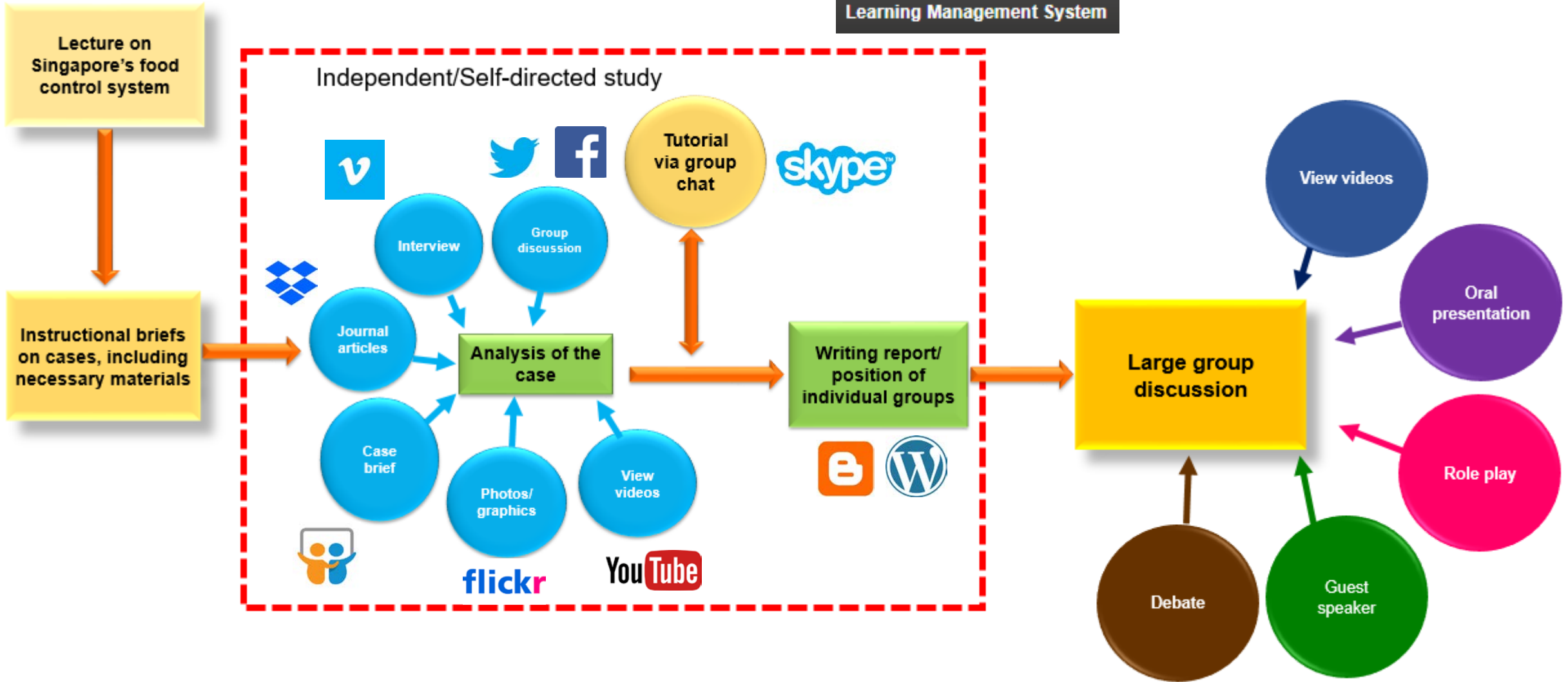


Application of Case Study in a Complex Module

Food Law & Regulations Module

- The module examines the scope of Singapore's legislation that regulates the manufacture and sale of food in Singapore, from farm to fork.
 - Food regulations are multifaceted as they are being constantly amended to address current changes in the food supply chain landscape.
 - When it is taught using case study, students can learn how to use different tools & resources to make decision as if they are facing the real situation.
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Case Study & Web 2.0



Conclusion

Case study method with integration of Web 2.0 tools is an ideal pedagogy in teaching complex module like Food Law & Regulations, to heighten students' learning and exposure.

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Thank You!

Questions?

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