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Understanding the ecology of the Personally Significant Learning Environment (PSLE): one year on.

STEPHENS, M., PATTERSON, C., PRICE, A.M., SNELGROVE-CLARKE, E., WORK, F. and CHIANG, V.C.L.

2016





Understanding the ecology of the personally significant learning environment (PSLE): One year on

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Background

Personal learning environments (PLE) have been shown to be critical in how students negotiate, manage and experience their learning. Understandings of PLEs are largely restricted by narrow definitions that focus on technology alone. The idea of a PLE is often conflated with virtual learning environments. In this presentation, we draw on empirical findings from an international study. Our findings will be of interest to students, educators, researchers and institutions and will facilitate a more in depth understanding of how to support students to create appropriate PLEs for effectively managing their own learning.

Aims

The study aimed to provide insights into how undergraduate students of nursing manage and experience learning through a range of formal and informal components that comprise the PLE. It is a mixed-method study that incorporates two key phases. The first phase will be the focus of this presentation.

Research design

The first phase comprised a series of focus groups held at each of four institutions in Australia, England, Scotland and Hong Kong. The fifth, in Canada, was used to validate findings from the initial focus groups. Ethical approval was obtained at each individual study site. Recruitment at each site was through student emails, flyers and invitations on e-learning sites. Inclusion criteria were that students needed to be enrolled in an undergraduate degree leading to a nurse registration.

An important ethical consideration was that students understood that participation or non-participation would not impact relationships with their academic institutions or study outcomes. Nominal group techniques were used in the focus groups together with providing visual representations of their PLE in the form of a sketch or conceptual map. The themed sticky notes and visual representations were photographed and stored for subsequent analysis. Data were analyzed independently by researchers at each site. This initial analysis was at the broadest level of abstraction in order to identify main emerging categories. Investigators reached a consensus through a series of meetings through voice over IP technologies regarding commonalities and differences in the data.

Key findings

Eight groups comprising a total of 46 students participated in focus groups across the initial four sites. The findings from the focus groups generated a range of different types of data that were organized into three themes: technologies, learning modalities and influencing factors.

Technologies included physical items such as devices, computers, books, journals, newspapers, and furniture and virtual technology such as software, applications, and internet resources.

Participants said that the expected modes of learning at university did not always suit their personal learning preferences. Understanding their own learning style was important to enable an effective PLE and customising learning to suit personal preferences was seen as important.

A PLE is influenced by external, interpersonal and intrapersonal factors both individually, and by the interplay between the factors. External factors included the physical, built aspects of the environment and the learner's ambient environment.

Intrapersonal factors included attitudes, beliefs, preferences and emotions. Interpersonal factors such as how, when and where participants engaged with others also played a significant role in their PLE.

Findings suggest a broader understanding of the term personal learning environment than currently exists. PLEs are relational and comprise a space with meaning and significance to the learner.

Current definitions of PLE do not capture the broader understanding identified by this study and we therefore propose a new term: personally significant learning environment (PSLE).

Recommendations

The findings that the PSLE is significantly personal to the student's learning experience drive further research in this area.

Institutional learning platforms and modes of delivery consider the PSLE.

Key words:

- personal learning environment
- student experience
- learning environment
- qualitative research
- international study.

3 key points to indicate how your work contributes to knowledge development within the selected theme:

- student constructions of their PLE are personally significant and much broader than previously reported
- PLEs are multifactorial and complex
- PLEs need to be personally significant to be effective and as such the term personally significant learning environment is more accurate.

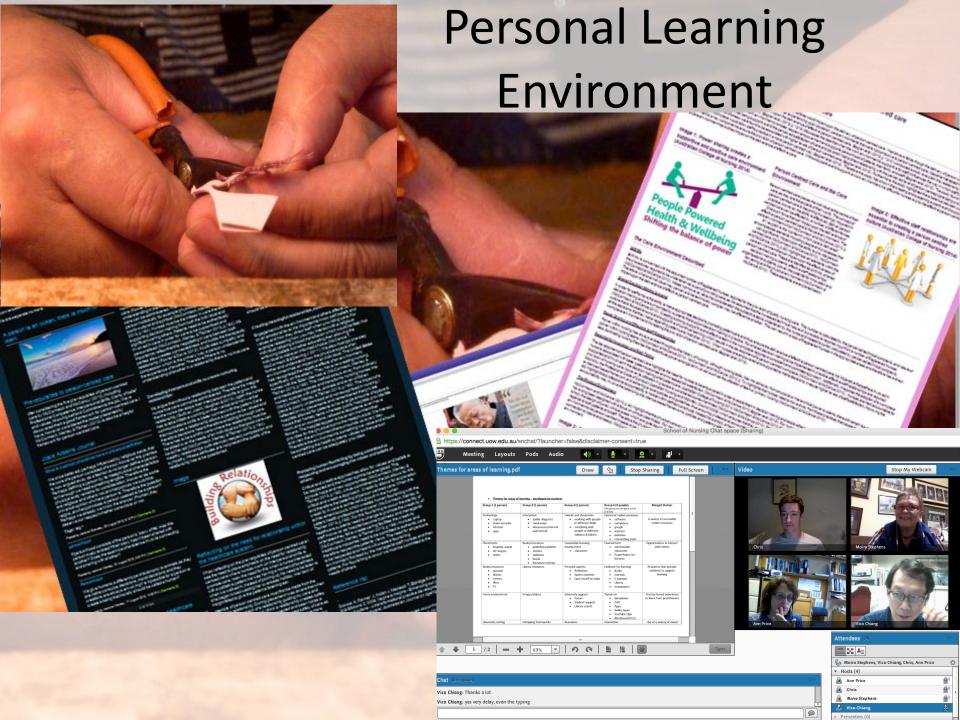
Personally Significant Learning Environments (PLsE)

Moira Stephens¹, Chris Patterson¹, Ann Price², Vico Chiang³, Erna Snelgrove-Clarke⁴, Fiona Work⁵

- 1 University of Wollongong, Australia
- 2 Christchurch University, England
- 3 Hong Polytechnic University, Hong Kong
- 4 Dalhousie University, Canada
- 5 Robert Gordon University, Scotland

Outline

- An idea from personal experience
- Technology as "resources that are converted into commodities" Economics model Technology as extensions of self
- Focus groups in 4 countries
- Early data reported last year



Aim

- The aim of this study was to provide in-depth insights into how undergraduate students of nursing manage and experience their learning through a range of formal and informal components that comprise their PLE
- To understand what a PLE looks like for these cohorts

- This was an international multi-site qualitative study, utilizing focus groups.
- It is a sequential exploratory project that comprised two key phases of study
- An international multi-site study:
 - University of Wollongong, Australia (investigators: CP and MS);
 - The Hong Kong Polytechnic University (investigator: VC);
 - Canterbury Christ Church University, England (investigator AMP);

School of Nursing Chat space (Sharing)

- Robert Gordon University, Scotland (investigator: FW);
- and Dalhousie University, Canada (investigator: ESG).

edu.au/snchat/?launcher=false&disclaimer-consent=true youts Audio Video Full Screen ning.pdf Draw Stop Sharing Stop My Webcam Group 2 (1 person) Group 3 (1 person) Ithis group not yet gone out to Interaction Friends and classmates A variety of accessible spider diagrams · working with people software mind maps in different fields computers online resources discussion linformal socialising with google and formal) people of different internet cultures & beliefs websites researching tools Opportunities to interact Books/resources Favourable learning guidelines/policie environment comfortable with others articles classroom classroom PawerPoints for websites books lectures literature review Library resources Personal aspects Evidence for learning Resources that provide Reflection Books evidence to support Sports activities Journals Quiz myself on topic E-iournals Library newspapers Images/videos Practice based experience University support Tutors Simulation to learn from practitioners Student support DVD Library search Apps Audio tapes YouTube clips Blackboard (VLE) Critiquing frameworks Use of a variety of visual Vico Chiang

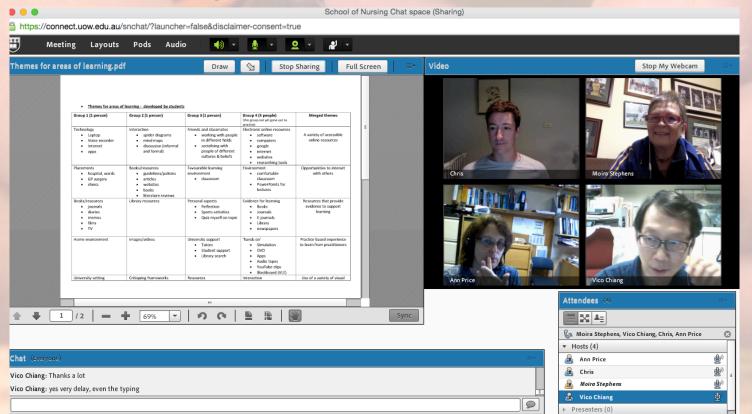
Attendees (4)

Design

- Qualitative Approach
- Focus groups
- Semi-structured interviews
- Taped & transcribed
- Nominal group techniques
- Students themed technologies, approaches and ways of working
- Individual visual representation of PLE

Analysis

- Large quantity of data
- Thematic analysis independently by the investigator(s) of each site
- Each site then compared data and emerging findings for the development of shared analytic ideas and eventual consensual categorisation of themes



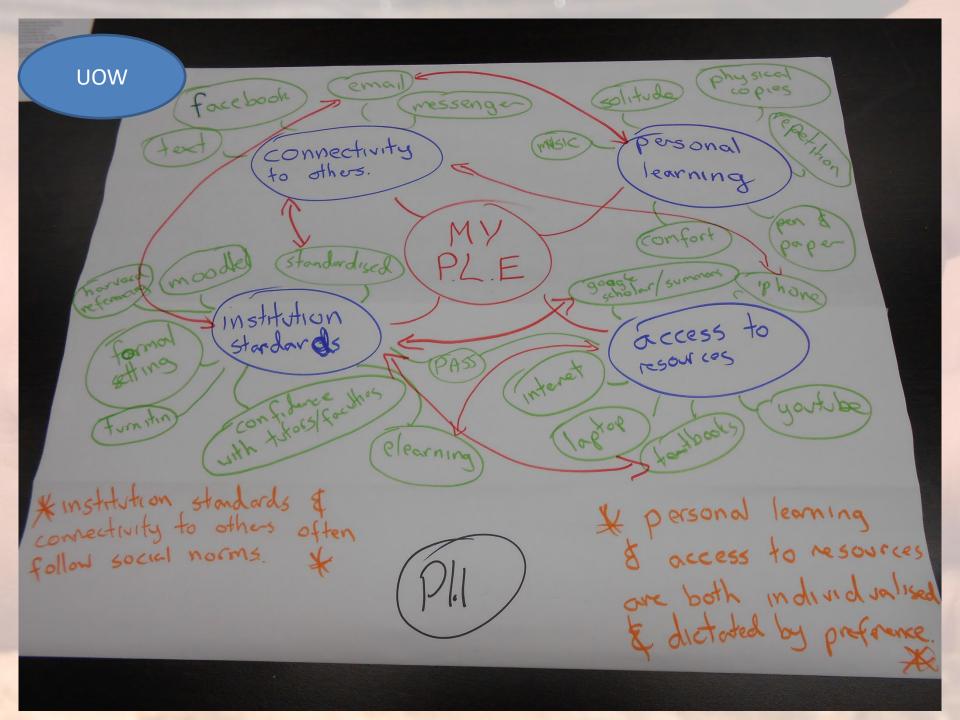
Findings

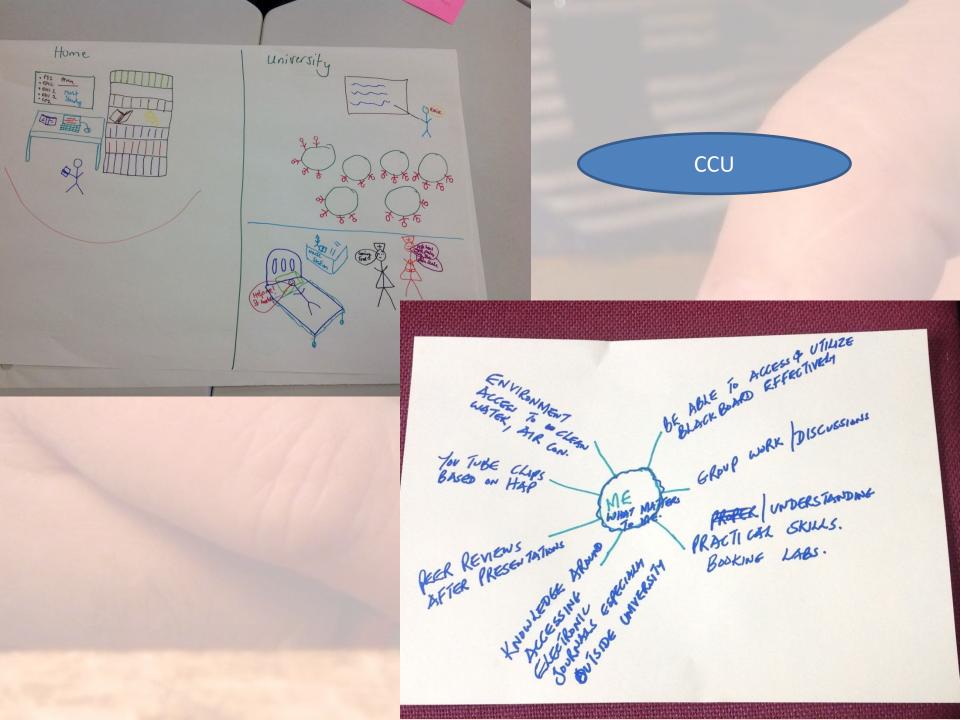


HKPU G1

What do you understand by the term – Personal Learning Environment?

- "you yourself, how do you learn" (CCCU 3)
- "I think this term [PLE] also means some personal habits, that's about learning. When doing revision, some people like to listening to music when reading, or doing revision. So that's apart from the physical environment, it can possibly be the own preference for what the environment is, personal habits, and the way he/she likes it. That's about many things that work together." (HKPU 1)
- "Coke, Pringles... peer support...public place ...study nest Running.." (RGU)
- "where ever you learn best" (RGU 2)





RGU courte programme teaching rather than at hance in PJS studying tealing food! those with learning disabilities, dyslexia etc RHYMES TO REMEMBER

Key Themes

- Technologies
- Learning Modalities
- Influencing Factors

Technologies

Hard

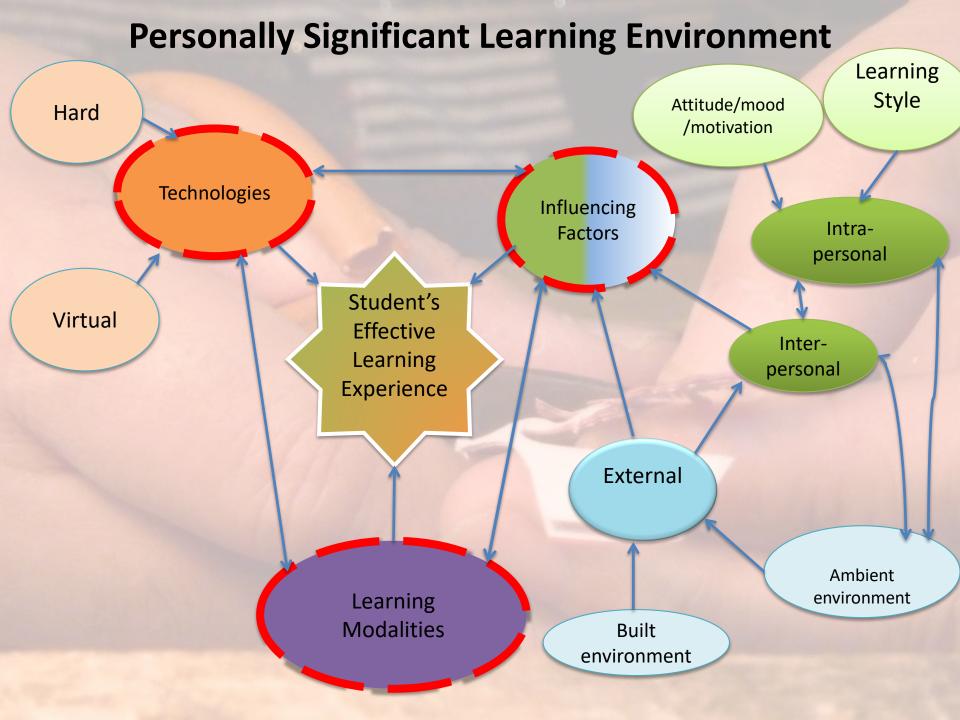
Virtual

Learning Modalities

- "when we are in practice we do work with our mentors and other staff members so we try to ask everything".
- Participants identified that they experienced a range of teaching methodologies in nursing studies and described these modes of delivery as a component of their PLE

Influencing Factors

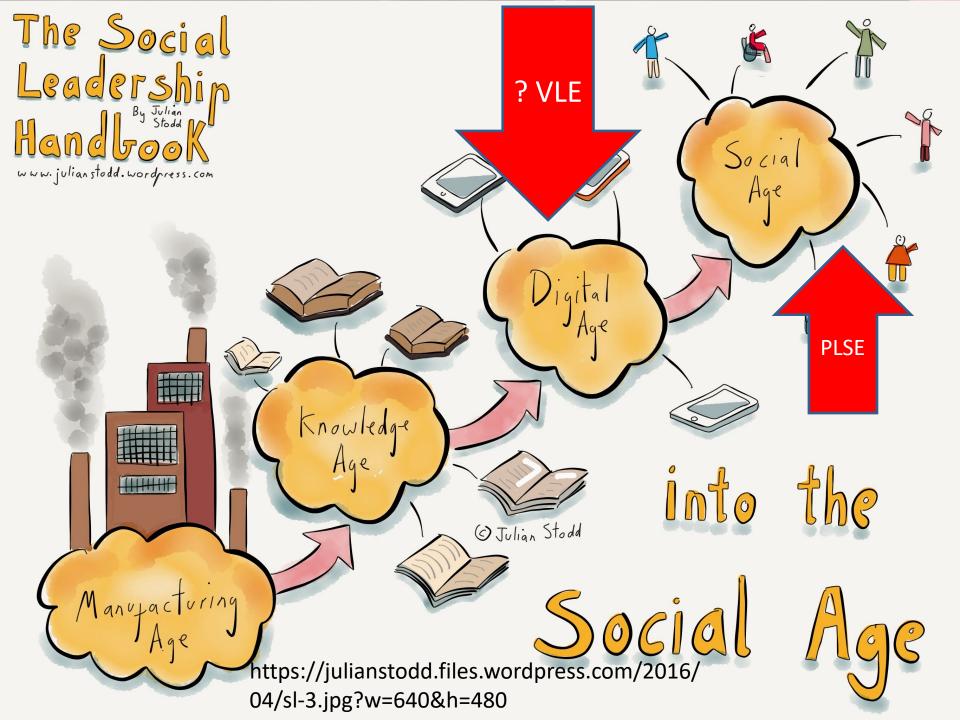
- Interpersonal factors
 - "Sharing .. Stimulation .. You think about creativity .. So learning is just not from books ... with someone else you communicate and ... learn ..."
- Intrapersonal factors
 - "It's about personal habits. Listening to music Preferences ... about how things work together {for the individual}"
- External factors
 - "how an area needs to be' for the purposes of learning" (UOW 1)



Technology

 "Technology is about socially collaborative conversations, about the co-creation of meaning in communities, about supporting engagement and development in these communities and about collaborating to achieve more than we ever can alone"

Stodd 2016



Conclusion

- There are few studies that investigate PLEs at the subjective level.
- We propose a broader understanding of PLEs that acknowledges individual personal and cultural contexts which we call the personally significant learning environment (PSLE). There is a need for greater investigation of how students understand and systematize their PSLE.
- The personal learning ecology a pedagogical understanding of the relations between individual and their environment for learning – informs the PLSE