WHY JAPANESE UNIVERSITY STUDENTS ARE NOT USING TECHNOLOGY FOR LANGUAGE LEARNING: A QUALITATIVE STUDY

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### **OVERVIEW**

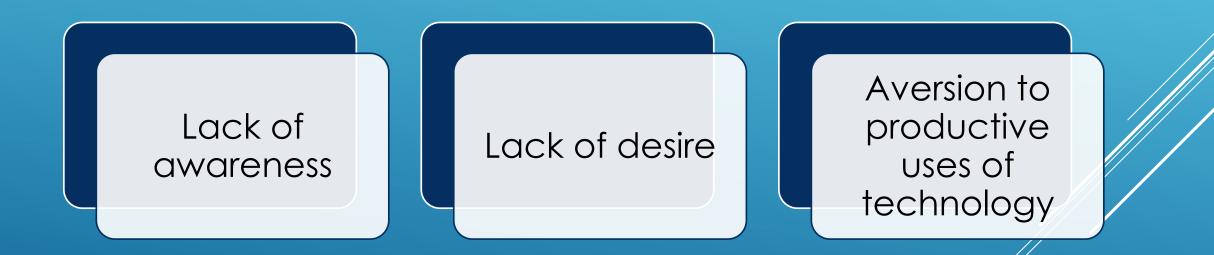
- Research Question
- ► Background
  - Japanese Digital Natives
- Research methods
- ► Results
- ► Discussion

Why is it that, with all the digital resources available, Japanese university students are not using technology productively?

**RESEARCH** QUESTION

> Photo by <u>Marvin Meyer</u> o <u>Unsplash</u>

### POSSIBILITIES



- ► What do we know
- smartphones
- entertainment and social media
- not for learning
- struggle with computers

### JAPANESE YOUTH AND TECHNOLOGY

### Interaction Versus engagement

# Studying versus learning

### **TERMS TO PONDER**

### THE STUDY

TAM (Technology Acceptance Model)
Perceived ease of use
Perceived usefulness
Integrate digital tools into the course
Awareness-----introduce tools
Tasks-----ease of use / usefulness

### ► TAM

Technology Acceptance Model (Davis, 1989)
 Educational Revisions

### **ANALYTICAL FRAMEWORK**

Factor	Study	Description
Perceived Ease of Use	Davis, 1989	Degree of effort that is perceived to be required
Computer self-efficacy	Gu, Zhu & Gao, 2013 Lai, Wang & Lei, 2012 Gong, Xu, & Yu, 2004	Perception of a user's own capabilities with computers (technology)
Perceived Usefulness	Davis, 1989	Degree to which using technology enhances performance of a task
Educational Compatibility	Lai, Wang & Lei, 2012 Chen, 2011	Fit between the use of technology and students' learning styles
Task Technology Fit	Gu, Zhu & Gao, 2013	How the technology is perceived to be compatible with completing a task
Enjoyment	Zhang, Zhao & Tan, 2008	Extent that an activity is enjoyable in its own right
Attitude toward technology	Lai, Wang & Lei, 2012	Positive or negative feeling about using technology
Facilitating Conditions	Lai, Wang & Lei, 2012	Perceived availability of support

- Case study
- ► Qualitative
- Quantitative & qualitative data
- ► Real life situation

### **METHODS**



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- Research Question 1: What are students' experiences of using digital tools for English language learning, and their perceptions prior to instruction?
- Research Question 2: What are students' experiences during the instruction of using digital tools for English language learning?
- Research Question 3: How do students' perceptions of using digital tools for English language learning change following the instruction? Why?

### **RESEARCH QUESTIONS**

### THE STUDY

> 15 weeks
> Academic English Course
> 4 different classes (N=72)
> Reading/writing/listening/speaking
> All female / 1<sup>st</sup> year
> Academically successful (Japanese context)

► Google Classroom



- ► Software
- ►Hardware
- ▶ Functions
- ► Web sites
- ▶ Resources
- ►Not necessarily language focused
- ►Integrated in the course
- ►Used for a task

## **DIGITAL TOOLS**

Туре	ТооІ	Example Tasks
Google Tools	Classroom/ Slides/ Docs/	Managing class content & assignments
	Translate	Word processing, slideshows, storage etc
Comic creation	Pixton.com	Creating comics-demonstrate dialogues
	/makebeliefscomix.com	
Animation	Plotagon.com	Animation creation to evaluate dialogues
Reading	Flipboard.com/	Extensive reading and topic research
	Newsela.com	
Listening	Elllo.org/ TEDtalk.com	Extensive listening and presentation review
Infographics	Piktochart.com	Creating posters and presentations
Digital notebook	Google Keep/	Creating an online notebook
	One note	
Video	Web camera/ PowerPoint	Recording presentations to review and practice
Pronunciation	Google Translate online	Using the text to speech for pronunciation
	dictionaries	confirmation
	YouTube resources	
Microskills	apps4efl.com	Various game-like activities to reinforce language
		skills

Computer use survey Reflective Activity Interviews



Use tech for pleasure	Not used for academic purposes	Receptive to learning "in class"
Little exposure in high school	Believe it is important "for their future"	Expect teacher instruction • Language support • Task support

### **BACKGROUND: COMPUTER USE SURVEY**

Photo by <u>Hiroyoshi Urushima</u> on <u>Unsplash</u>

Little skill / knowledge

- Use tech for entertainment / social media
- Want to learn "for their future"
- Expect the teacher to teach them

### PERCEPTIONS PRIOR TO THE STUDY

- ► 3 groups emerged
- Group 1 a small outlying group of responses that were enthusiastic in nature, analytic and expansive
  - Saw the possibilities technology afforded
- Group 2 the majority of responses that were receptive rather than resistant
- Group 3 another small outlying group of responses that appeared resistant to using technology
  - Focussed on the physical inconvenience of technology

### RESULTS

- student approaches to technology (and learning)
- perceptions of instructions
- Iack of confidence
- changes in perceptions (especially in regard to ease of use and usefulness of the tools)
- the influence of culture

### RESULTS

Difficulty / anxiety
Eased through familiarity
Usefulness
Produce content-not just busywork
Students addressed their own weaknesses
Found their own level
Fun and enjoyment

### **EXPERIENCES DURING THE STUDY**

#### ► Awareness

- ► Volume
- ► Variety
- ► Relevance
- Use of English & technology
  - Not difficult
  - ► accessible
- ► Self efficacy
  - ► Try new tools
  - Adapt tools to their needs

### **CHANGES IN PERCEPTION**

Hands-on approach (integration)

Practicality (relevance)

▶ Scaffolding

Text / slideshows / screencasts

# POSSIBLE REASONS FOR CHANGE (EXTERNAL)

Teacher	Action	Effects
0) Awareness of students	Educational background	
	Socio-cultural influence	
1) Hands-on approach	Tools-integrated tasks	Exposure
	• volume	Familiarity
	<ul> <li>variety</li> </ul>	
2) Relevance	Usefulness	Engagement
	Practicality	Familiarity
	Purpose	Consciousness-raising
3) Scaffolding	Make support accessible	Mitigating a sense of difficulty
	Use familiar tools	and anxiety
		A sense of fun

- ► Familiarity
- ► Interaction
- ▶ Empowerment

### POSSIBLE REASONS FOR CHANGE (INTERNAL)

Student (become)	Effects
1) Familiar	Increased awareness Perceived ease of use
2) Interactive (with tools)	Perceived usefulness
3) Empowered	Increased view of own ability (self-efficacy)

# POSSIBLE REASONS FOR CHANGE (INTERNAL)

► familiarity

Interaction

Empowerment

# CULTURAL DISCOVERY

Common request for ► More support Japanese support Teacher explanation But Students successfully completed the tasks Consistent with previous research ► Not explored

### Leverage the seeking of indulgence (Doi, 1971)

### Scaffolding

- "I am not good with computers"
- Since some students are good at English, the teacher should provide more explanations in Japanese."

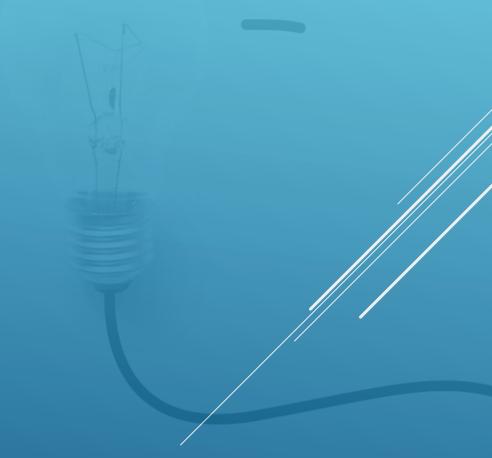
### ► Require students to push through (Cowie, 2007; McVeigh, 2015)

Relevant required tasks

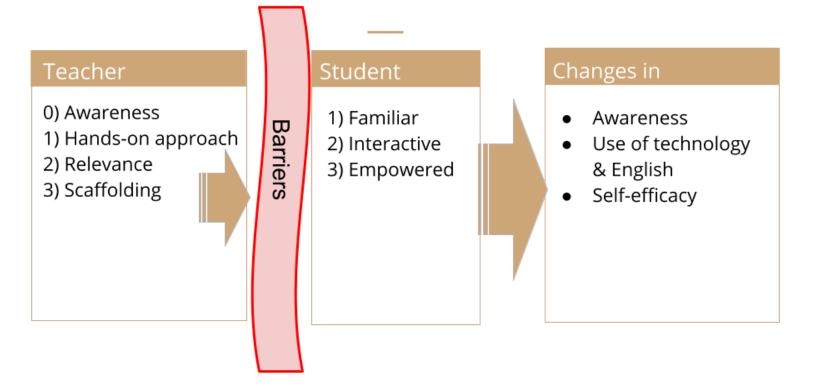
### AMAE VERSUS GAMBARU

## AWARENESS OF STUDENT BACKGROUND (BARRIERS)

- Perceived difficulty
- ► Few positive examples
- Associated with "future"
- Teacher-centered instruction
- Exam oriented instruction
- ► AMAE & GAMBARU



### Technology Integration Model for Japanese Digital Natives



#### ► Awareness

- Scaffolding (support)
  - ► Screencasts
- ► Relevance
  - Produce content
- ► Familiarity

### REMOTE CLASSES

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### THANKS FOR LISTENING