MEEPLE

Micro-credentialing Ecosystems Enabling Personal Learning Environments

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Fragmentation of Learning

- ROI from formal qualifications is diminishing while costs of earning qualification rise.

- Individuals constantly acquire skills, knowledge and capabilities in both formal and informal settings.

- How can all learning that has occurred be accurately measured, recognised, validated, acknowledged and rewarded?

Micro-Credential / Badge

A *Micro-Credential / Badge* is a **validated indicator** of an accomplishment, skill, quality or interest that is linked to an individual.

"Let me guess, you joined Alpha Delta Dogma."

JOB INTERVIEWS

CV
ETON
HARROW
OXFORD

"Just one old school tie would have done."

Ecosystems

- An ecosystem provides the infrastructure for individuals to provide a pictorial display of **their achievements** through the display of a selected collection(s) of Micro-Credentials.

- These collections signal achievement to potential employers, peers, educational organisations, professional and social groups
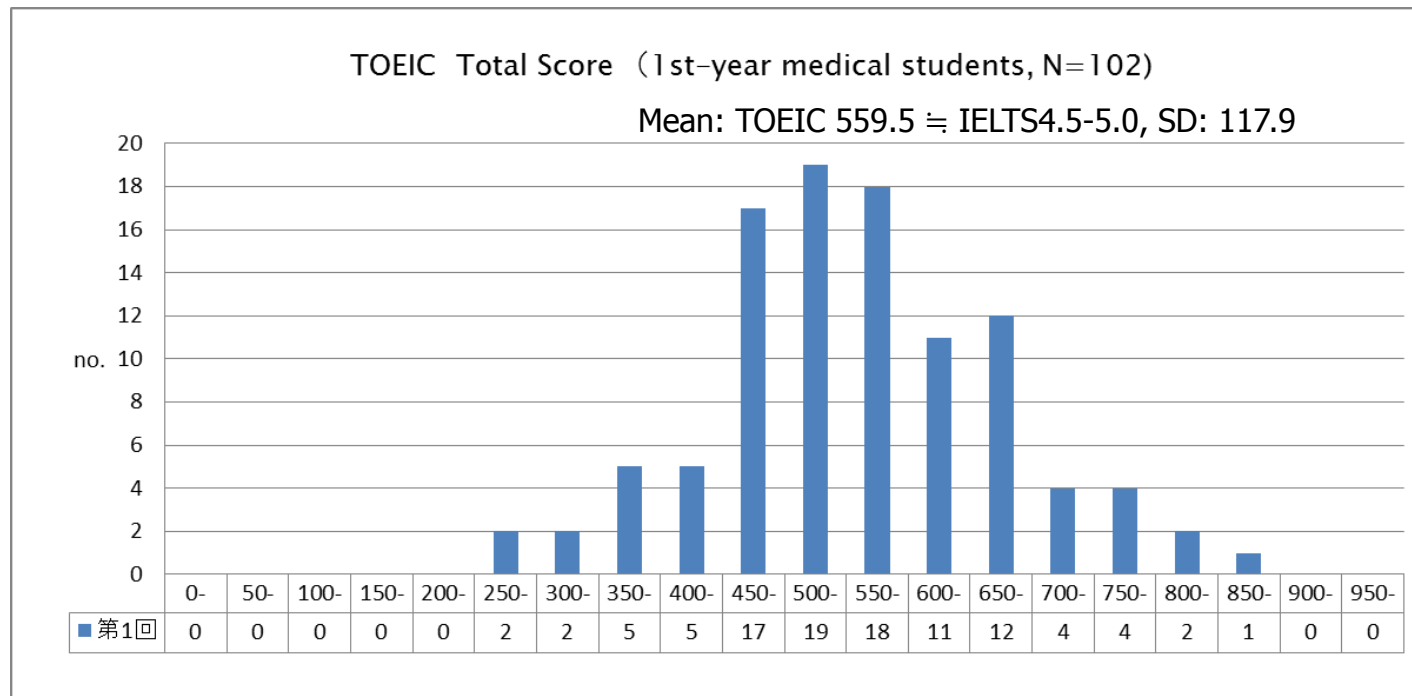
MOZILLA OPEN BADGE INFRASTRUCTURE

Mozilla Wiki: https://wiki.mozilla.org/Badges/Onboarding-Issuer
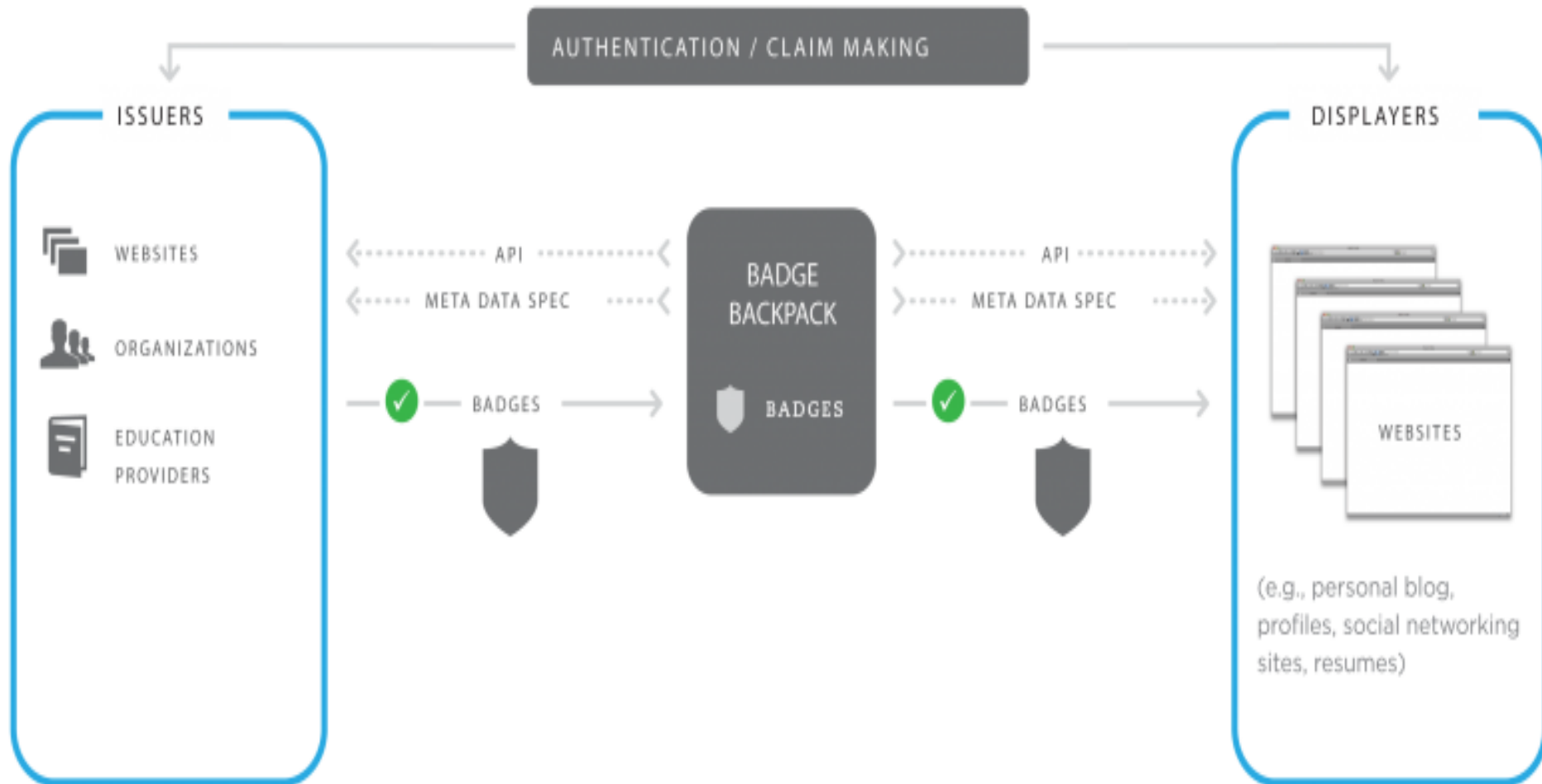
A case in language education in Japan

Challenges language teachers in Japan face:

- Growing need for students to use English in their future professions
- Limited exposure to English (EFL environment)
- Students' different English levels

TOEIC　Total Score　（1st-year medical students, N=102）

Mean: TOEIC 559.5 ≒ IELTS4.5-5.0, SD: 117.9

	0-	50-	100-	150-	200-	250-	300-	350-	400-	450-	500-	550-	600-	650-	700-	750-	800-	850-	900-	950-
第1回	0	0	0	0	0	2	2	5	5	17	19	18	11	12	4	4	2	1	0	0

Reflection on current courses

- Learners need to constantly review and practice their skills to improve their level of English language.

- Tutors need to offer review courses which suit learners' levels, needs and skills required.

We need to find new strategies and techniques

(1) that will help learners identify and engage with the suitable level of information and in appropriate level of activities.

(2) that will encourage learners to engage with the review materials identified and participate autonomously in practice activities.

User name: demostudent
Password: demo2013

Challenge 1

(1) I need to find new strategies and techniques that will help learners identify and engage with the suitable level of information and in appropriate level of activities.
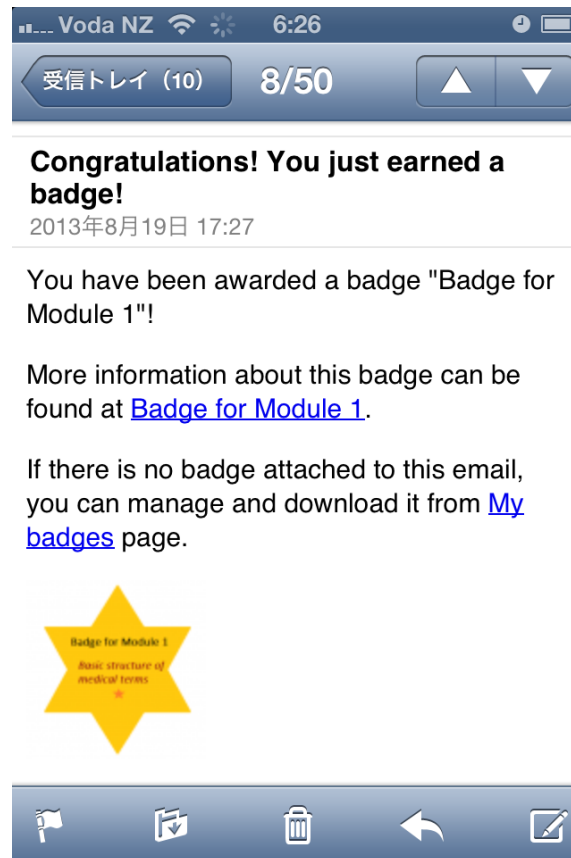
Course outline

- **Course name: Medical Terminology (Level 1)**
- **Targeted students:** first-year (freshmen) medical and nursing students
- **Course objectives:**

    - to help students build up (or review) basic terminology of medicine (prefix, suffix, body parts, symptoms)

- **Course details:** This is a review course for basic medical terminology. This course consists of 10 modules. In each module you learn basic medical terms which are frequently used and are keys to better understanding of up-to-date information about health-related issues, medical conditions, diseases, symptoms and treatments. There are several types of quizzes in each module to check your vocabulary about a specific topic such as the cardiovascular system and the urinary system. You have to take all the short quizzes in each module and pass them. If you have successfully completed the tests, you will be awarded a module 'badge'. When you have received all the module badges in this course and passed the final test, you will be awarded a course 'badge' which means you have successfully completed this basic medical terminology course.
- **Course level:**

    - lower-Intermediate - Intermediate (TOEIC450-650, IELTS 4.5-5.5)

- **Self-reflection:** The following personal competency assessment tool (CAT) enables you to determine your current level of competency in medical terminology. The outcome of your self-assessment can be used to guide which module is suitable for your study.
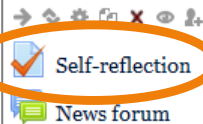
☑ Self-reflection   Self-reflective framework

📰 News forum

Challenge (2)

(2) The need to find new strategies and techniques that will encourage learners to engage with the review materials identified and participate autonomously in practice activities.

Badge is issued
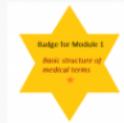
Learner portfolio

Motivation

Ready to Learn Self-Assessment

Technology Confidence

Attitude to Study	Essential 🟢 Proficient 🔴
Essential	
I am willing to try new things.	Agree
I am willing to learn in different ways	Agree
Proficient	
I can see the benefits in using technology	Disagree
I have used technologies in my social experiences.	Partially agree

Medical Terminology

Badge for Module 1

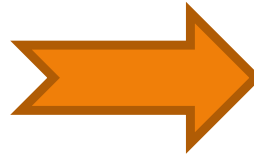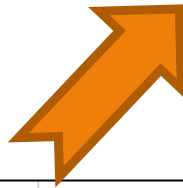| Issuer Details		This is for module 1, Medical Terminology (Level 1)
Name —	Instructor	
URL —	http://moodle.isle.ac.nz	
Badge Details		
Name —	Badge for Module 1	
Description —	You have successfully completed module 1 of this course.	
Criteria —	http://moodle.isle.ac.nz/badges/badge.p hp? hash=1bc820b0364a4f7a46d0007042e1f 44eb40775a	
Evidence —	http://moodle.isle.ac.nz/badges/badge.p hp? hash=1bc820b0364a4f7a46d0007042e1f 44eb40775a	
Issued —	2013-08-19	

Badge for Module 2

Issuer Details		This is for module 2, Medical Terminology (Level 1)
Name —	Instructor	
URL —	http://moodle.isle.ac.nz	
Badge Details		
Name —	Badge for Module 2	
Description —	This badge is for successful completion of module 2.	
Criteria —	http://moodle.isle.ac.nz/badges/badge.h	

Unit1: Basics for Health Care Professionals

Watching Task: What a video clip titled "An introduction to Maslow's Hierarchy of needs"

An introduction to Maslow's Hierarchy of needs

- Assignment for Unit 1
- Short test for Unit 1: Spell Out
- Short test for Unit 1: Dictation
- Short test for :Unit 1: Matching

	Badge for Unit 1	Available to users	○ Complete ALL of: "Quiz - Short test for Unit 1: Spell Out", "Quiz - Short test for Unit 1: Dictation", "Quiz - Short test for :Unit 1: Matching", "Assignment - Assignment for Unit 1"

Personal learning environment

http://tincanapi.com/overview/

ERD model

| Earn | Record | Display |

Formal Unit of Learning

Industry Workshop

Regulation A Training

Requirement B Attendance

Record of Learning

Where
What
How
When
Value
Expiry

Record of Competence

Award of Credit

Certificate of Attendance

Badge Issued

Certificate of Compliance

| Learning Management System | Learning Record Store (LRS) | Display / E-Portfolio System |

moodle

TIN CAN API
Realized by
Rustici Software

mahara

Thank You for listening!