

Learning analytics for regular online courses, MOOCs and classroom teaching at OIJ: The first report

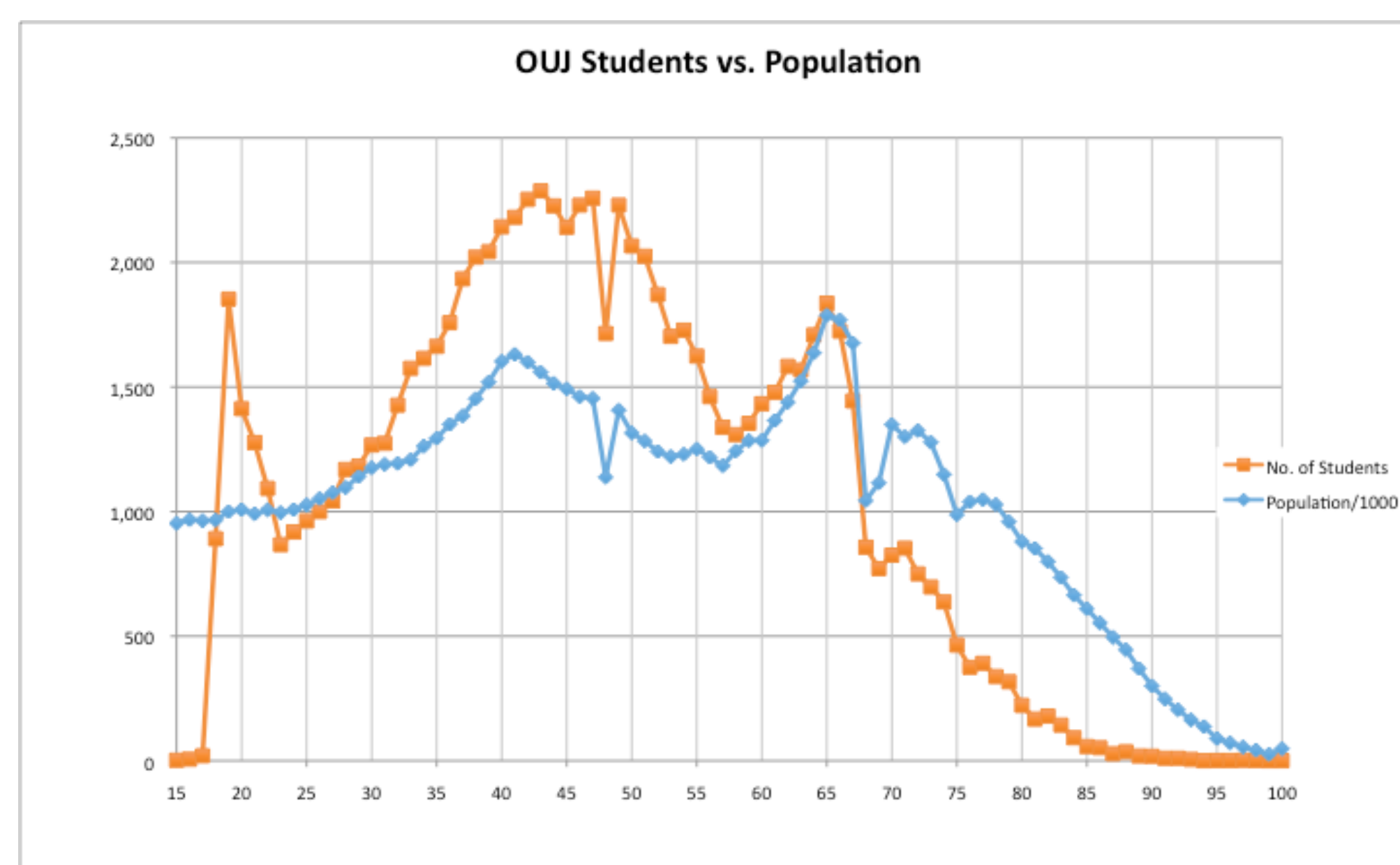
Yoichi Okabe, President, The Open University of Japan (OUJ)

OUJ: Organization

- ✓ A unique open university in Japan
- ✓ “National center” for lifelong education
- ✓ Under the Lifelong Learning Promotion Policy Bureau of MEXT (Ministry of Education)
- ✓ Distance University
 - ✓ Broadcasting stations (TV and Radio)
 - ✓ 50+ study centers nationwide
 - ✓ Online courses (SPOCs and MOOCs)

OUJ: Education system and Student Demography

- ✓ Liberal Arts University + Professional education (teacher training, nurse qualification course and so on)
- ✓ Under-graduate, Master and Doctoral Courses
- ✓ “Anytime, any where” and “nobody left behind OIJ (safety-net at LLL Society)”
- ✓ 90K students, no entrance examination (only under-graduate)



A 99 years old student got a degree at OIJ

Learning Analytics: Objectives

- ✓ For Learners
 - ✓ Support their autonomous learning
- ✓ For Professors and course development team
 - ✓ Improve learning materials, teaching and learner supports
- ✓ For Administrators
 - ✓ Optimize financial and human resources

Learning Analytics: Regular online courses

- ✓ Collaboration with OIJ and NII from 2014
- ✓ OIJ online course systems (Moodle and video servers) on the NII academic cloud
- ✓ Phase 1: Metrics and Learning Activity Log Store (Current stage)
 - ✓ Sensors: Moodle log data
 - ✓ Cleanse (anonymize) and standardize the data (e.g. IMS Caliper Analytics)
 - ✓ Store Learning Activity Log Store
- ✓ Phase 2: Analytics and visualization (Next step)
 - ✓ Analyze the course data (in the limited courses)
 - ✓ Customizable dashboards (for learners, teachers or administrators)
- ✓ Phase 3: Comprehensive analysis and recommendation to students
 - ✓ Federation of academic databases (Student Information System, E-portfolio, Library system and so on)

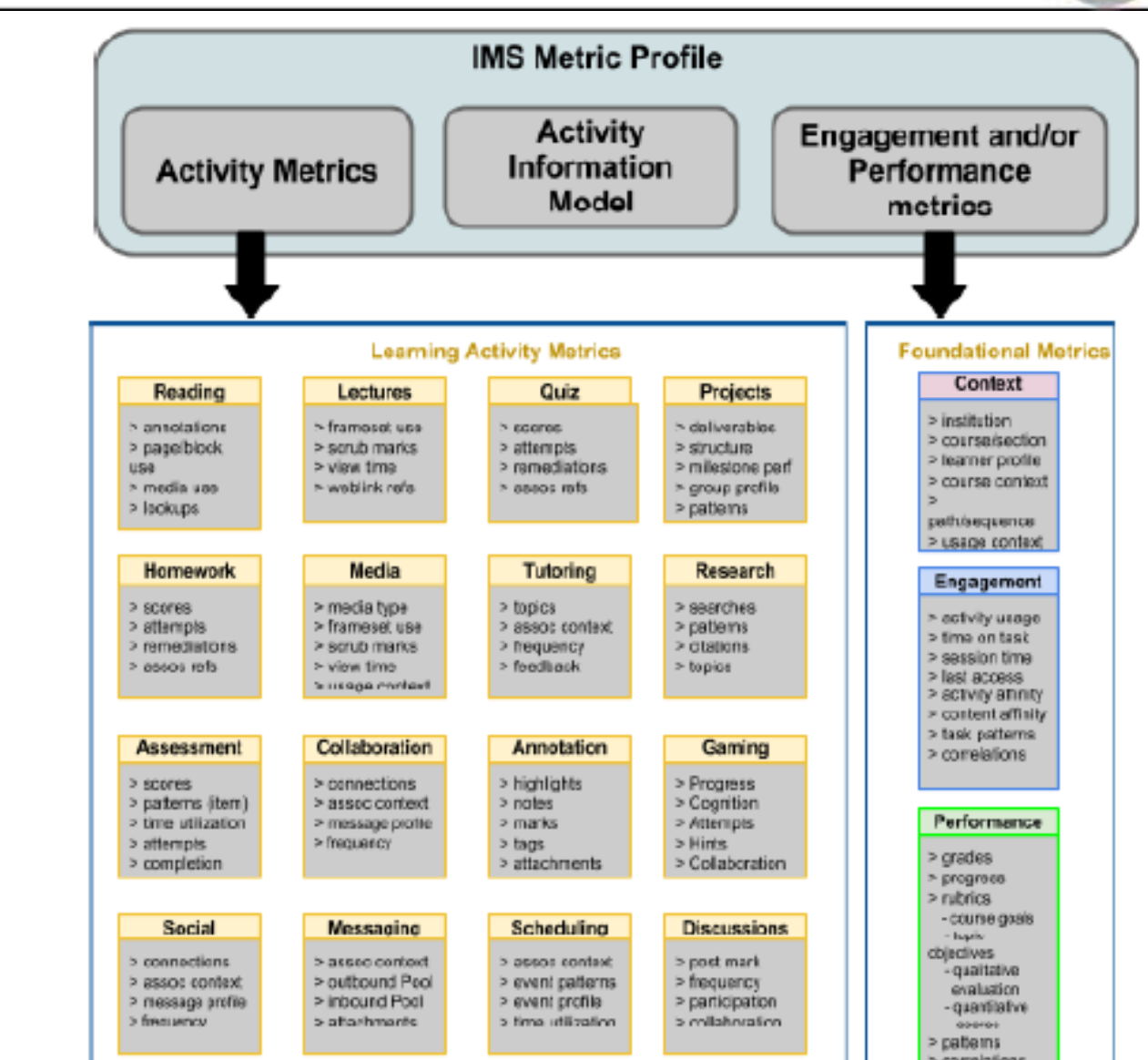
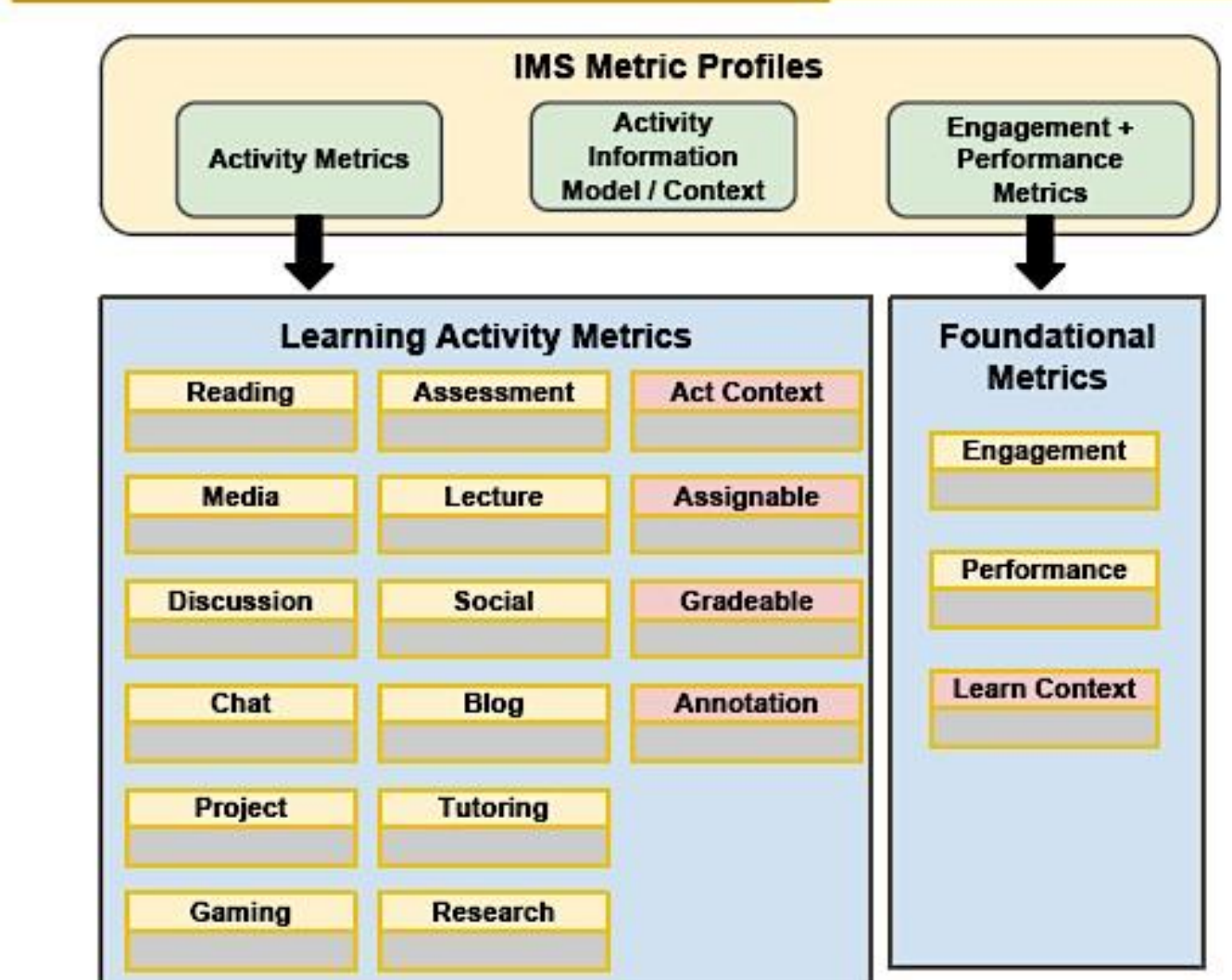
OUJ MOOC: A test-bed for Next Generation Digital Learning Environments

- (<http://www.jmooc.jp/>)
- ✓ An official JMOOC platform
- ✓ From April 2014
- ✓ 4 courses
- ✓ TIES-CHILO based (Mash-up of e-textbook, LMS and SNS)



IMS Caliper

Sensor API Metric Profiles Contextualize Events



OUJ is a member of IMS Global Learning Consortium and IMS Japan Society