

*open*apereo2013

Serving the Academic Mission

Portfolios for the Future of Sakai

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Overview

- Current Status of the Portfolio Tools in Sakai
- Origins, Development, and Future of the Project
- Kyoto Project
- MATI Montréal
- WAD
 - Portfolio Requirements
 - Step by Step
 - Road Map
 - Development Team
- Next steps for Sakai Portfolio Community



Current Status of the Portfolio Tools in Sakai

- The Open Source Portfolio (OSP) tools in Sakai
 - Have reached a significant level of maturity.
 - Have taught us a great deal about how to do portfolios.
 - Have significant issues with usability, quality of code, and performance.
- We want to continue to offer portfolios in Sakai while upgrading their capabilities and usability.



Origins of the Project

- **Portfolio Visioning for Sakai**

- Began with **Blue Sky Discussion** in Amsterdam and continued with each subsequent Sakai conference.
- Continued with **Portfolio Visioning Group** meetings resulting in the creation of portfolio action verbs defining high level requirements for Sakai portfolios.
- Partnered with the **Sakai Teaching and Learning Group** resulting in the creation and approval of the **Sakai Teaching and Learning Design Lenses**.



Options for the Project

- Choices for continuing portfolio functionality in Sakai include:
 - Improve the code, performance, and usability of the Open Source Portfolio tools.
 - Use LTI to bring new portfolio functionality into Sakai.
 - Do nothing and watch Sakai portfolio users eventually choose other platforms.



Development of the Project

Portfolios for the Future of Sakai

- Three years of work by **MATI Montréal** (University of Montréal) resulting in WAD: a new application for assessment portfolios. (We intend to rename WAD.)
- Portfolio needs identified by several new cutting edge graduate programs at **Kyoto University**.
- **Three Canoes LLC** has developed an **LTI integration of WAD with Sakai** along with a portfolio assessment workflow in WAD for Kyoto University.



Kyoto University's Use of WAD

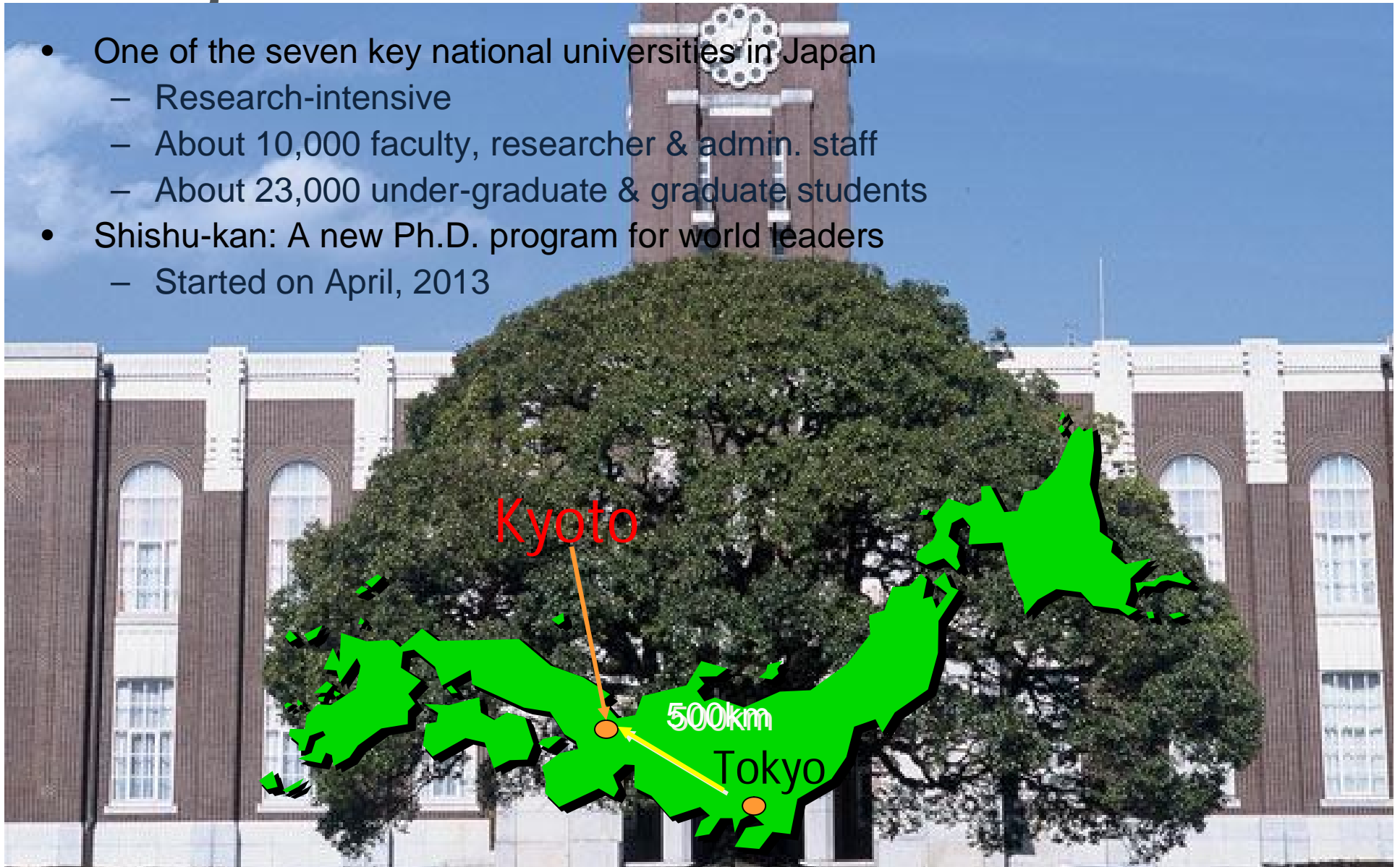
Kyoto University is implementing WAD with:

- LTI integration in Sakai with appropriate sites, roles, permissions
- Portfolio assessment workflows for each graduate program
- Rubrics representing program outcomes integrated into each step
- A copy of the portfolio for each student and his/her faculty mentors
- Reports based on semantic tagging
- Mobile devices to access the portfolio

MATI Montréal's WAD and Kyoto University's LTI integration of WAD with Sakai will be licensed as open source contributions through Apereo.

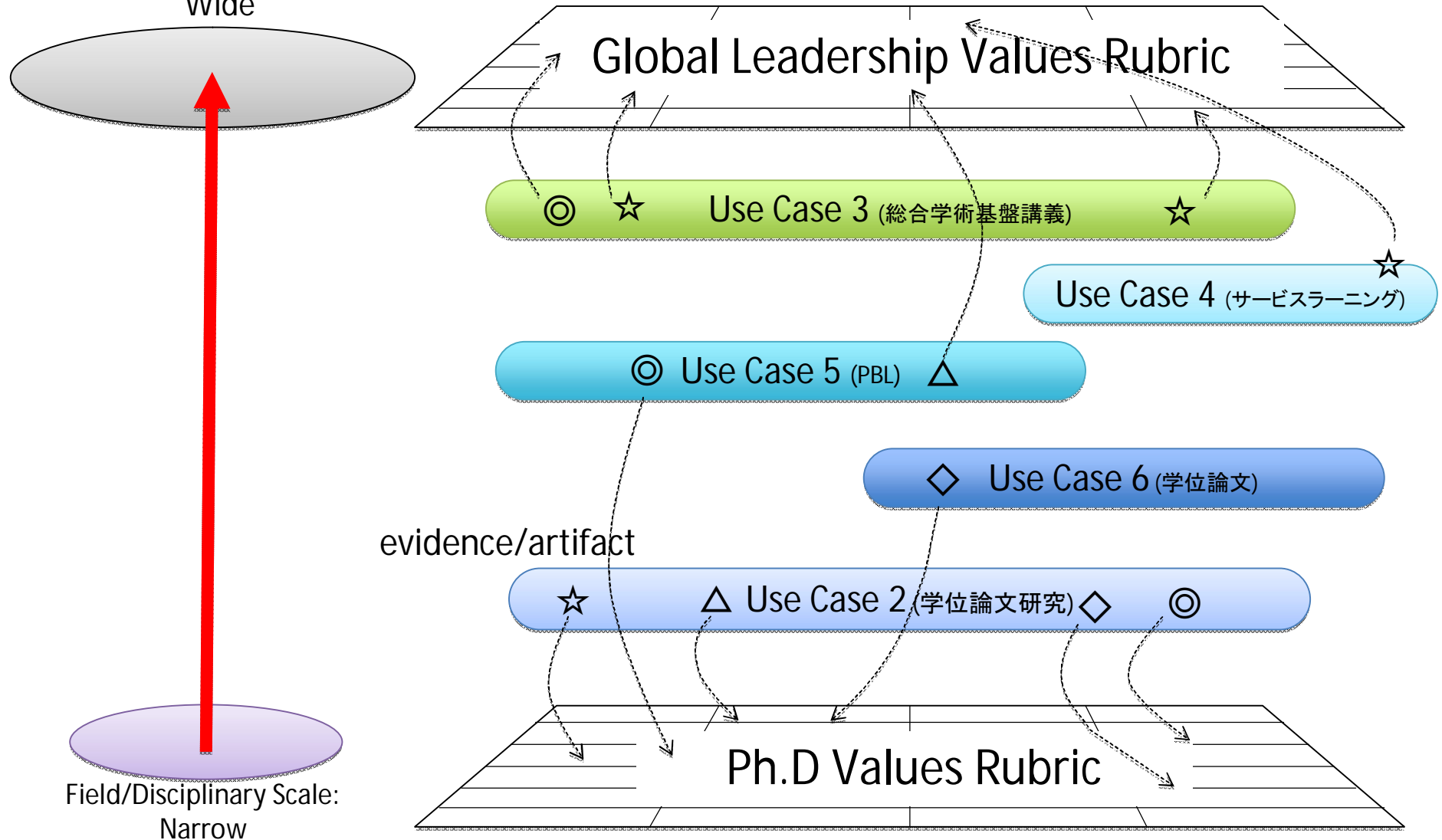
Kyoto University (Japan)

- One of the seven key national universities in Japan
 - Research-intensive
 - About 10,000 faculty, researcher & admin. staff
 - About 23,000 under-graduate & graduate students
- Shishu-kan: A new Ph.D. program for world leaders
 - Started on April, 2013



Field/Disciplinary Scale:
Wide

Shishu-kan Rubrics and Use Cases



Rubric Matters: Mountain Climbing using “Rubrics”

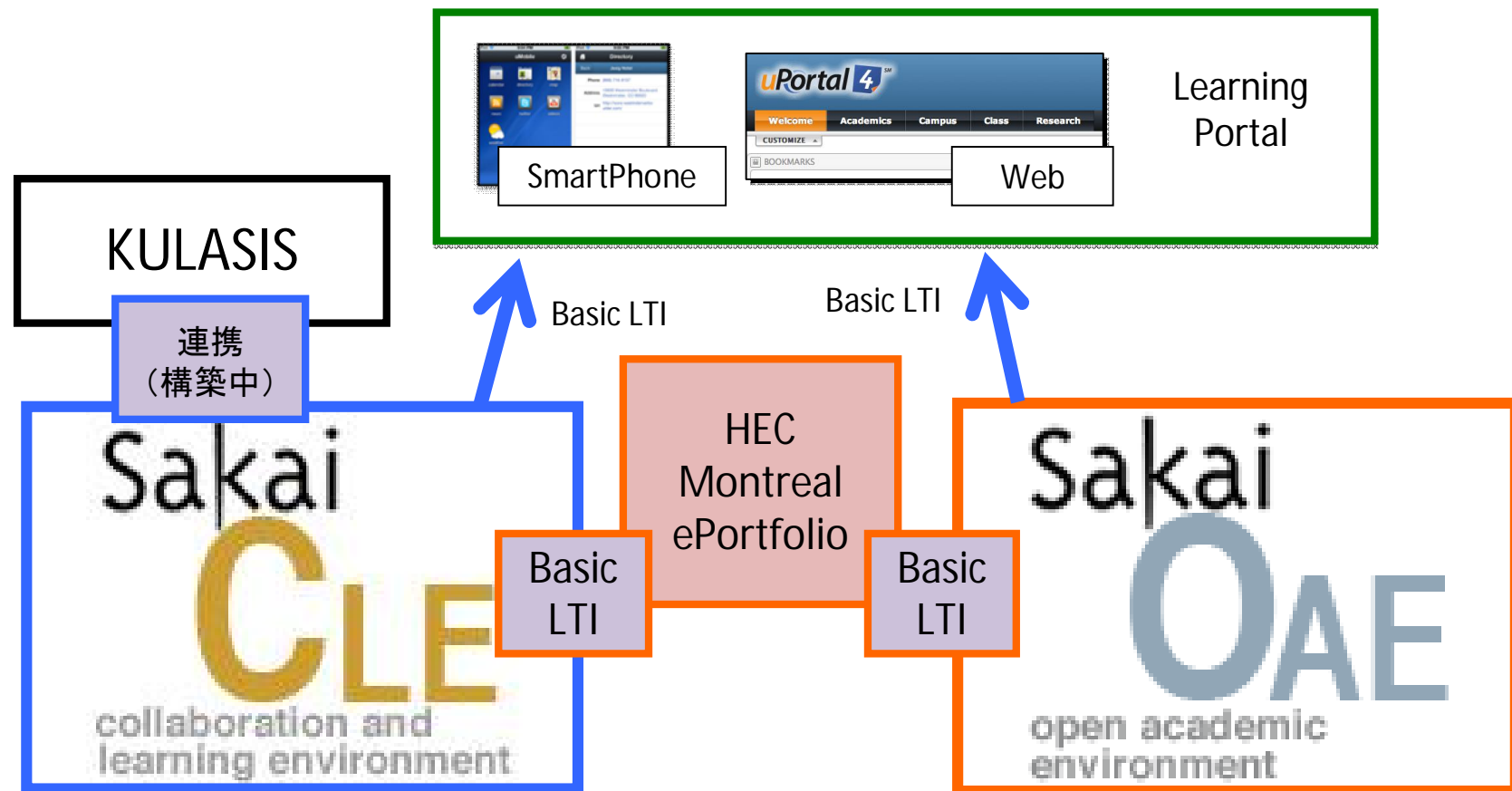
Extensive disciplinary knowledge and range of skills; Comprehensive and up to date understanding of a broad array of literature in the field.

Disciplinary Knowledge and Skills

Limited disciplinary knowledge; lack of required skills; and/or insufficient understanding of literature relevant to one's dissertation topic.

Sufficient disciplinary knowledge and range of skills; Sufficient understanding of the literature relevant to one's dissertation topic.

Shishu-kan Learning Environment Using e-Portfolios



連携統合: 情報環境機構



Why an e-Portfolio system developed by HEC Montreal?

1. No technical expertise required
 - Easy to customize
2. Well-defined backend
 - Easy to extend functionality through API

- A teaching and learning research center on the University of Montréal campus
- Partner colleges at the University of Montréal include the Business School, School of Education, School of Medicine, and School of Engineering.
- Partner universities include the University of Grenoble and the University of Savoie.



Partner needs:

- Not all U of Montréal schools use the Sakai CLE
- Need for portfolios for assessment, accreditation, educational guidance, and self-presentation.
- Several years spent studying user needs, developing numerous use cases, participating in OSP conference calls, and developing Sakai mini-specs.
- Development is very much in the spirit of OSP, but with more flexibility and reporting.



Portfolio Requirements

- No one portfolio is the same – There are **very diverse needs** to be addressed.
- Portfolio tools have to be flexible **very flexible.**
- Users do not have a clear understanding of their exact portfolio needs.
- Portfolio tools have to support **rapid prototyping**



Portfolio Requirements

- A portfolio framework that permits the organization of different resources (text, documents, rubrics, comments, etc.)
- ... according to a workflow for different users (students, teachers, etc.) ...
- ... for assessment, reporting, and self-presentation.
- **Fine granularity with semantics**
 - **similar to LEGOs.**





WAD Step by Step: Logging In

Web Application Designer

Mati Montréal

☐ Fill in the email and check the box below if you forget your password, you will receive an email with a new password.



WAD Step by Step: Roles

Mati Montréal

Select a role-grou

- ☐ concepteur - Concepteurs
- ☐ etudiant - Étudiants
- ☐ superviseur - Superviseurs
- ☐ tuteur - Tuteurs

Submit

General Education

Learning
outcomes

Inquiry and
analysis

Critical thinking
Creative thinking

Inquiry and analysis

Submit and reflect on evidence

Instructions	In the item just below, submit materials demonstrating the completion of this requirement. Then reflect on how this evidence demonstrates your understanding of the learning objective.
--------------	---

Evidence	C:\fakepath\InquiryPaper.pdf
----------	------------------------------

Reflection	This paper has helped me to learn more about how to
------------	--




Evaluation

Evaluation	Capstone. Identifies a creative, focused, and manageable topic that addresses potentially significant yet previously lessexplored aspects of the topic.
------------	---

Comments	Excellent paper that shows that you can
----------	---

General education

General education






Add a "Structure"

General education

Learning outcomes

Learning outcomes

  
Add a "Structure"
Add a "Unit"



WAD Step by Step: Designer Adding a UnitStructure (Part of a Page)

**General
education**

Learning
outcomes

Inquiry and analysis



Add a "UnitStructure"

General
education

Learning
outcomes

Inquiry and analysis

Submit and reflect on evidence

Add a "UnitStructure"

Add a "Text"

Add a "Document"

Add a "Comments"

Add a "Field"

Add a "TextField"

Add a "URL"

Add a "URL2Unit"

Add a "Repository"

Add a "Image"

Add a "XForm"

Add a "Get_Element"

Add a "Get_Resource"

Add a "Get_Get_Resource"

Édition / Sélection

Metadata

WAD metadata - asmResource_Text

Libellé

Label

Instructions

Label

A Normal text ▼

Bold

Italic

Underline

☰

☷

☰

☷

↺

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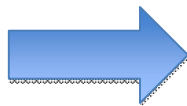


Comments

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Rubric



Édition / Sélection

☐ Metadata WAD metadata - asmResource_Get_Resource

☐ Semantic tags

Libellé

Label

- 1 - Benchmark. Identifies a topic that is far too general and wide-ranging as to be manageable and doable.
- 2 - Milestone. Identifies a topic that while manageable/doable, is too narrowly focused and leaves out relevant aspects of the topic.
- 3 - Milestone. Identifies a focused and manageable/doable topic that appropriately addresses relevant aspects of the topic.
- 4 - Capstone. Identifies a creative, focused, and manageable topic that addresses potentially significant yet previously lessexplored aspects of the topic.

WAD Step by Step: Designer WAD Semantic Tags (Roles, Rubrics, Reports)

Édition / Sélection

Edit Node - roles (U)

Edit Resource- roles (U)

Delete - roles (D)

Comments - roles

Annotation - roles

Submit - roles

Show - roles

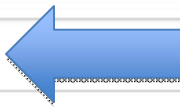
Show - To roles

Query

Verification function

tuteur

GeneralEducationParts.RubricAi

 **Teachers can edit
resources.**

 **To include
a rubric**

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POLYING3

Learning Outcomes Visual Summary

Summary

My assessments

Assessments of the current semester

[New structure](#)

Summary

Qualité	CAF1	CAF2	CAF3	CAS
Q1	CAF1			
Q2		CAF2	CAF3	
Q3				
Q4	CAF1			
Q5				
Q6				
Q7				



WAD Benefits

- Very flexible in accommodating user needs
- Quick prototyping
- Strong guidance for users
- Effective use at the course and program level
- Reports based on semantic tagging
- Summary tables to inform users of their progress in mastering learning outcomes



Road Map

- WAD6 will be available at the end of June 2013
- Additional pilots in September
- IMS LTI integration
- Apereo incubation project?



WAD Technical Specifications

- Front-End / Back-End Architecture
- Well-Defined Set of REST APIs
- Sophisticated Group-Role Security
- MySQL (but could be NoSQL)
- XML, XSLT, Javascript
- Twitter Bootstrap, CSS
- LEAP2A (Export) + PDF
- IMS LTI Integration
- Bilingual



MATI Montréal Team

- Olivier Gerbé, Faculty Member, Architecture
- Claude Coulombe, Senior Developer, Software Architect
- Nobry Ouk, Developer, GWT, Backend
- Lan Anh Dinh, Developer, Javascript
- Nicole Teta Nokam, T&L Support, Q&A
- Mathieu Cournoyer and Bruno Cloutier, UI Designers
- Jacques Raynauld, Faculty Member, Project Leader



Portfolio Discussion at Open Apereo 2013

- Appreciation of what has been learned from OSP
- Growing need to move away from OSP to improved portfolio functionality in Sakai
- Need for a flexible portfolio assessment process with reporting
- Need for a showcase portfolio that promotes self-expression
- Willingness to participate in and contribute resources to the project



Next Steps

- Complete project for two graduate programs at Kyoto University.
- Rename WAD and continue to develop it.
- Determine how to add a showcase portfolio.
- Develop mobile device capabilities for WAD.
- Enter and follow the Apereo incubation process.
- Contribute WAD to open source community.



Next Steps

- Attract additional universities as participants
- Secure additional resources
- Use LTI-2 to develop services linking to other Sakai tools.
- Document WAD, LTI integration, and user experience.
- Plan for “migration” from OSP to new functionality.
- Plan for maintenance and future improvements.



Thank you. Questions?

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