

Open Apereo 2019

参加報告

畠山 久 (首都大学東京)

常盤祐司 (法政大学)

梶田将司 (京都大学)





Photo by David Mark from Pixabay

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- 国内のSakai導入校における利用事例
- Sakaiの開発動向
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- Karuta



カンファレンス概要

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- 2019/6/2-6 @ Los Angeles
- セッション内訳
 - 6/2 : Pre-Conference Workshop (8件)
 - 6/3-7 : Session (58件)

		2016	2017	2018	2019
参加者数 (日本からの参加)		300 (6)	191 (6)	165 (6)	(5)
セッション数		100	79	79	66
セッション テーマ	Sakai	22	27	19	32
	uPortal	6	12	7	7
	Learning Analytics	5	4	3	2
	LTI / Tsugi	3	0	0	3
	Portfolio	3	3	3	2

YouTubeで公開されているセッション

- The Future of Ed Tech in Higher Education When Open Source is a Radical Solution
- The Future of Ed Tech in Higher Education -- Q&A
- Five Years and Counting
- Sakai Community Update
- uPortal State of the Project 2019
- My online practices for second language teaching: scalable or not? (ATLAS Winner)
- Lightning Talks - Round 1
- Lightning Talks - Round 2
- Platforms and Privacy - Open Approaches
- ATLAS and Fellow Award Presentations
- Opencast State of the Project
- Tsugi At Five Years Old - An Update
- Three strategies for your next gen learning technology ecosystem
- Project X: OpenAssessment
- What is all the Fuss About Python?
- Looking at LTI 1.3 in Sakai-19
- A Deep Dive into Market Data: Sakai in the LMS Marketplace

国内のSakai導入校における利用事例

Photo of Griffith Observatory provided by Los Angeles Tourism & Convention Board





Photo by David Mark from Pixabay



Sakai



HOSEI University



TOKYO METROPOLITAN UNIVERSITY

首都大学東京



名古屋大学

NAGOYA UNIVERSITY



京都大学

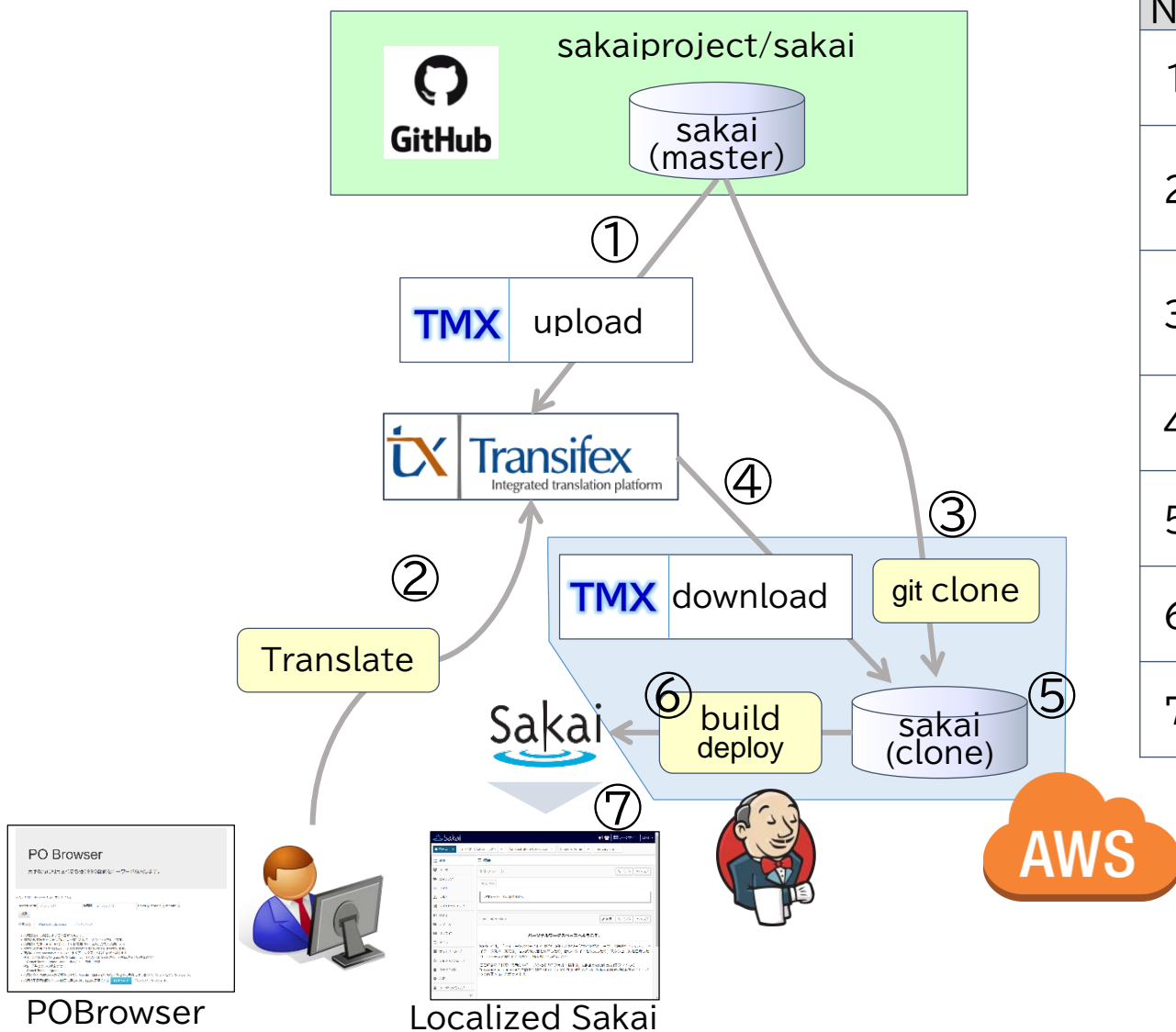
KYOTO UNIVERSITY





Photo by David Mark from Pixabay

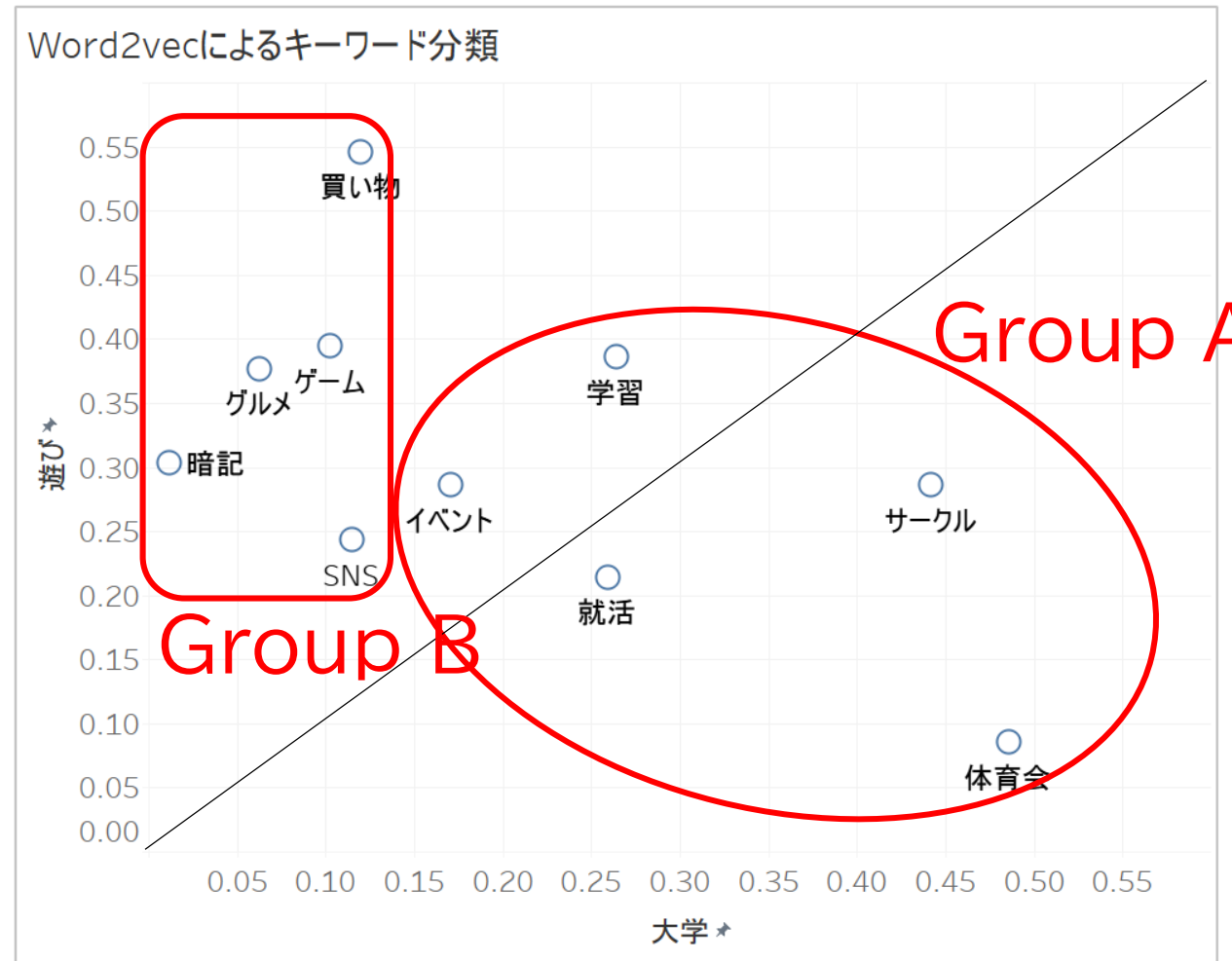




No	Workflow	Tool
1	Upload source code from Sakai master on Github to Transifex	JaSakai/l10n
2	Translate source code by Transifex	Transifex, JaSakai/POBrowser
3	Download source code from Sakai master on Github to Ja Sakai QA server	git
4	Download PO files from Transifex to QA server	JaSakai/l10n
5	Extract PO files and deliver *_ja.properties to source code	JaSakai/l10n
6	Build - Deploy - start Tomcat	Jenkins
7	Check translation by Web Browser	

スペインチームと連携して翻訳システムを運用中
 • 7カ国語の翻訳が進められている

The screenshot shows the Sakai LMS interface. On the left, the TGLE (Tools for Group Learning Environment) tool is visible with the text "Tools for Group Learning Environ". Below it, user information is displayed: "hosei group site", "Course ID : H6057", "User ID : hosei01", "Name : hosei 01", and "email : tokiwa@gamma.ocn.n". A "座席確認" (Seating Confirmation) dialog is open in the center, showing "User : hosei01", "Group : group3", and "Seat : 10B". Below the dialog is a seating chart with columns labeled A, B, C, D and rows numbered 1 through 7. A yellow box labeled "教卓" (Instructor's Table) is positioned above the chart. A chat window labeled "チャット" is visible at the bottom.

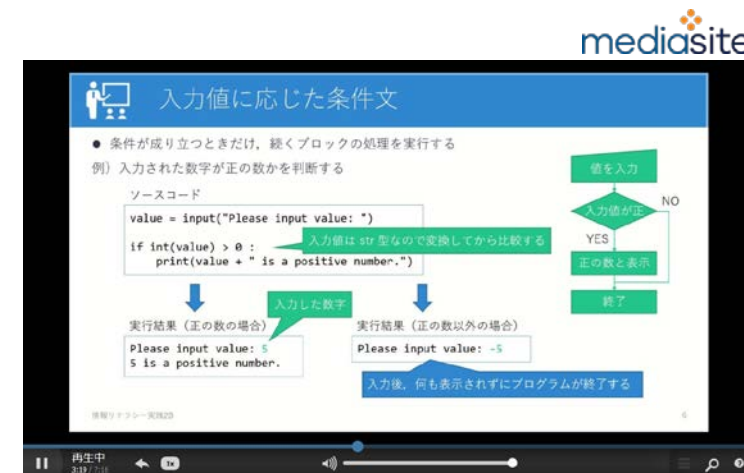


初学者向けのプログラミングを扱う授業で反転授業を実践

- 授業時間中の演習時間の確保
- 学習者間の知識・経験の差が激しいことへの対策

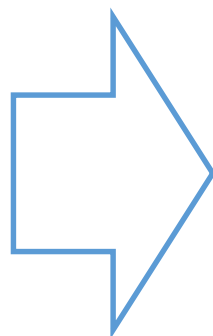
LMSの機能と動画配信プラットフォームを組み合わせる教材を提供

- LMSの一つの機能として振る舞うため、利用者の負担が少ない



学習者

- 予習ビデオの視聴
- 予習課題の提出



Sakai

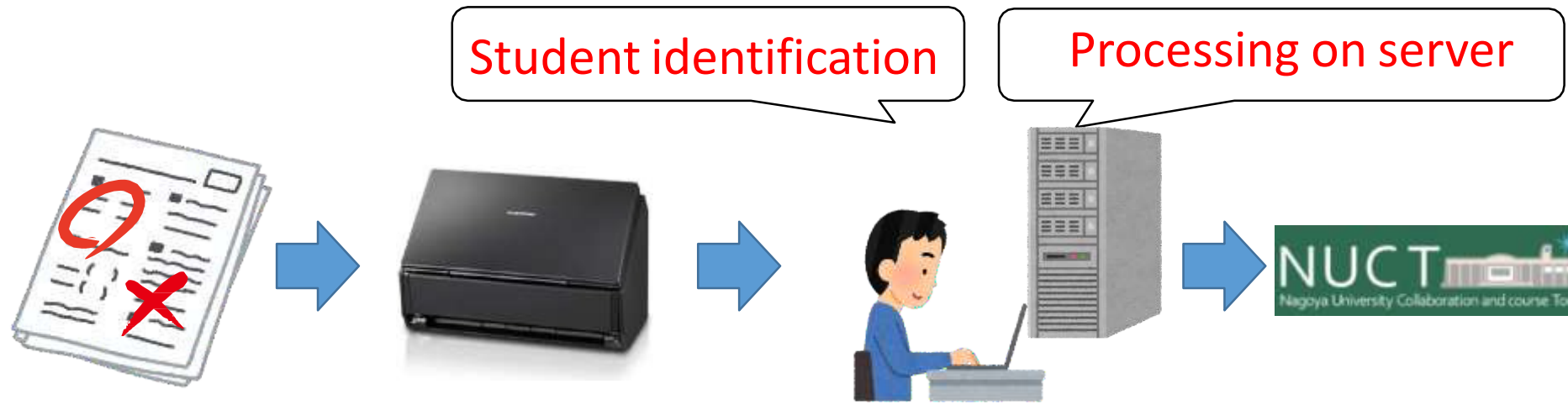
LTI Tool

Assignment

mediasite

Video player

- Can use general purpose scanner anytime and anywhere
- Develop trainable recognition system on server
- Web application to confirm and correct recognition result



Student identification

Processing on server

Handwritten assignment

General-purpose scanner

Confirm and correct on Web app.

Upload to LMS

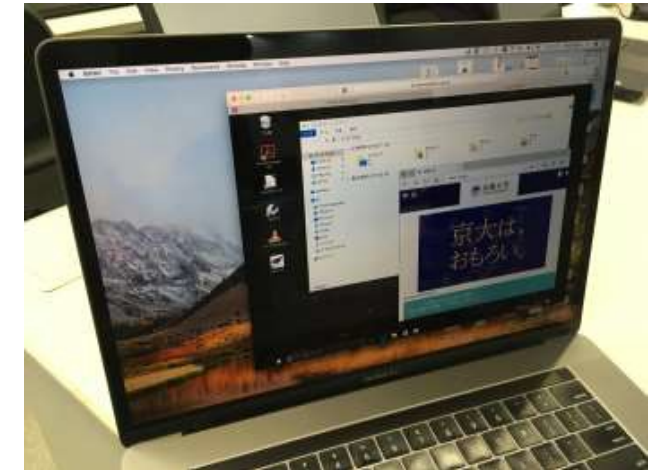
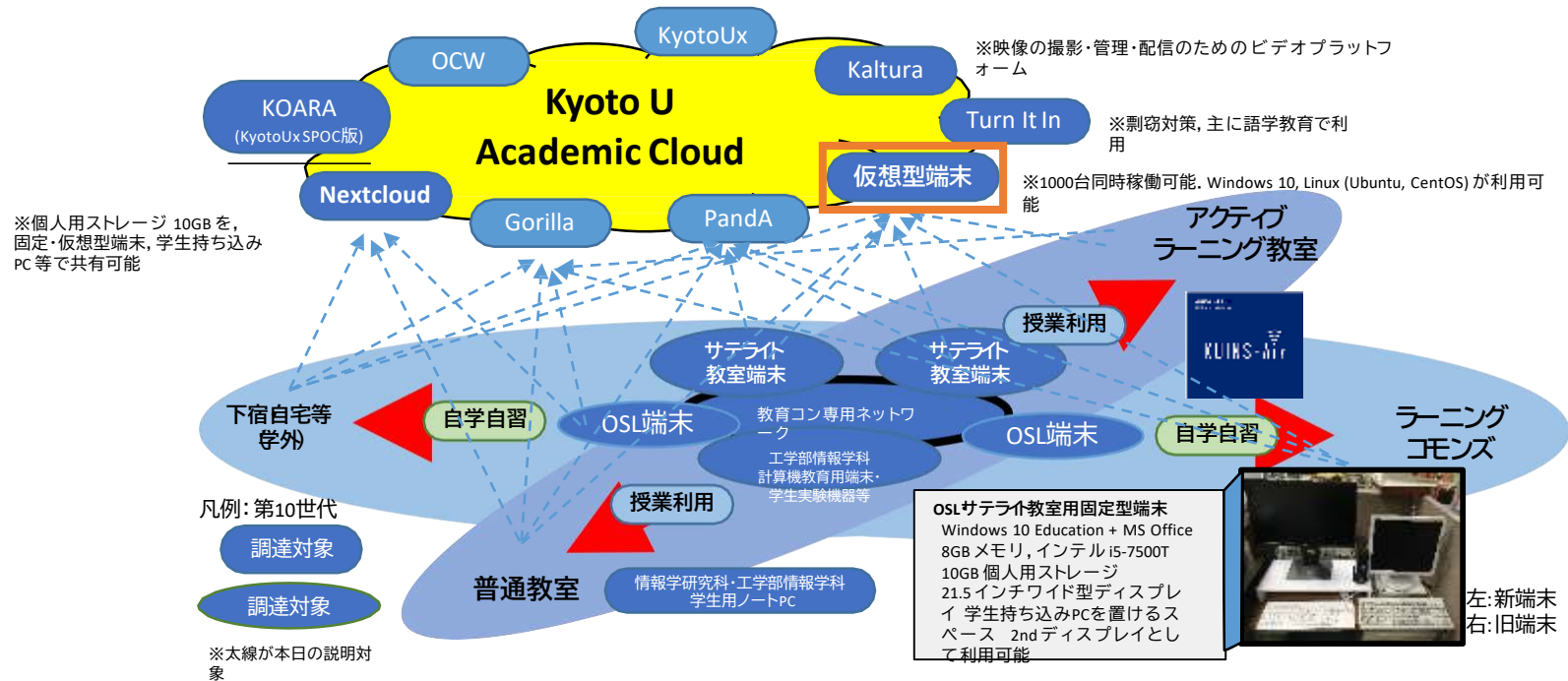
Student recognition accuracy

99.7%

Processing speed

40 pages/min.

京都大学: LMSとLTIで連携したVDIの導入



BYODを想定した教育環境へ移行

- 異なる持ち込みデバイスを使っても同質な授業環境をサポートしたい

ブラウザ上で動作するVDIシステムを導入

- LTIを介してLMSから起動する





Photo of Santa Monica Pier provided by Los Angeles Tourism & Convention Board

Sakaiの開発動向



- 現在の最新バージョン: 19.3
 - 新機能 "Sakai Native Rubrics"
 - ルーブリック表に基づく課題評価を実現する機能
 - 課題 (Assignment) や テスト・クイズ (Samigo) で利用可能
 - 基準項目の選択で評価得点が算出される直感的なインターフェイス
 - 学習者への提示も設定可能
- LTI 1.3 サポート
- 各種機能の追加・改良
 - 課題提出締切が近づいた際にリマインドメールを送信する機能
 - 成績表における統計情報の視覚化機能
 - テスト・クイズの UI 修正 (課題の UI に近づける修正)

Sakai の今後のロードマップ

Release Year	New capabilities	Key improvements	Back-end enhancements
2020	Cloud storage integration Document preview Course site builder	User experience Rubrics Search	Web components
2021	Lessons 2.0 Rapid grading App store	User experience Analytics	Automated QA testing
2022	Tests & Quizzes 2.0 Others, TBD	Notifications Others, TBD	TBD

Sakai 20 (RC Release: 2019/12/1)

- Cloud storage integration : Office365をサポート予定
- Document preview
- Course site builder



LTI, Tsugi, 新たなLMSの提案

EXTERNAL TOOLS

External Tool

Site Id (Leave blank to make tool available in all sites)

*Tool Title (Above the tool)

Allow tool title to be changed

Do not allow

Allow

LTI 1.3設定箇所

If you select LTI 1.3 support, your configuration information should be immediately viewed once the tool record has been inserted. If your tool has provided a public key or keyset for LTI 1.3 enter it, otherwise leave both fields blank and public and private keys will be provided for you. If we generate a private key for the tool, you need to view it and communicate it to the tool immediately because it will be deleted shortly after it is created.

Tool does not support LTI 1.3

Tool supports LTI 1.3

LTI 1.3 Tool OpenID Connect/Initialization Endpoint (provided by the tool)

LTI 1.3 Tool Redirect Endpoint(s) (comma separated and provided by the tool)

Save Cancel

Sakai

by Sakai/Tsugi (An IMS Contributing Member)

Active Certifications

Sakai has certifications for the following versions of this product.

v19

LTI Advantage Complete

LTI v1.3 CONSUMER	2019-02-04
Assignment & Grade Services v2	2019-02-04
Deep Linking v2	2019-02-04
Names & Roles Provisioning Service v2	2019-02-04

IMS GLCにおける認定

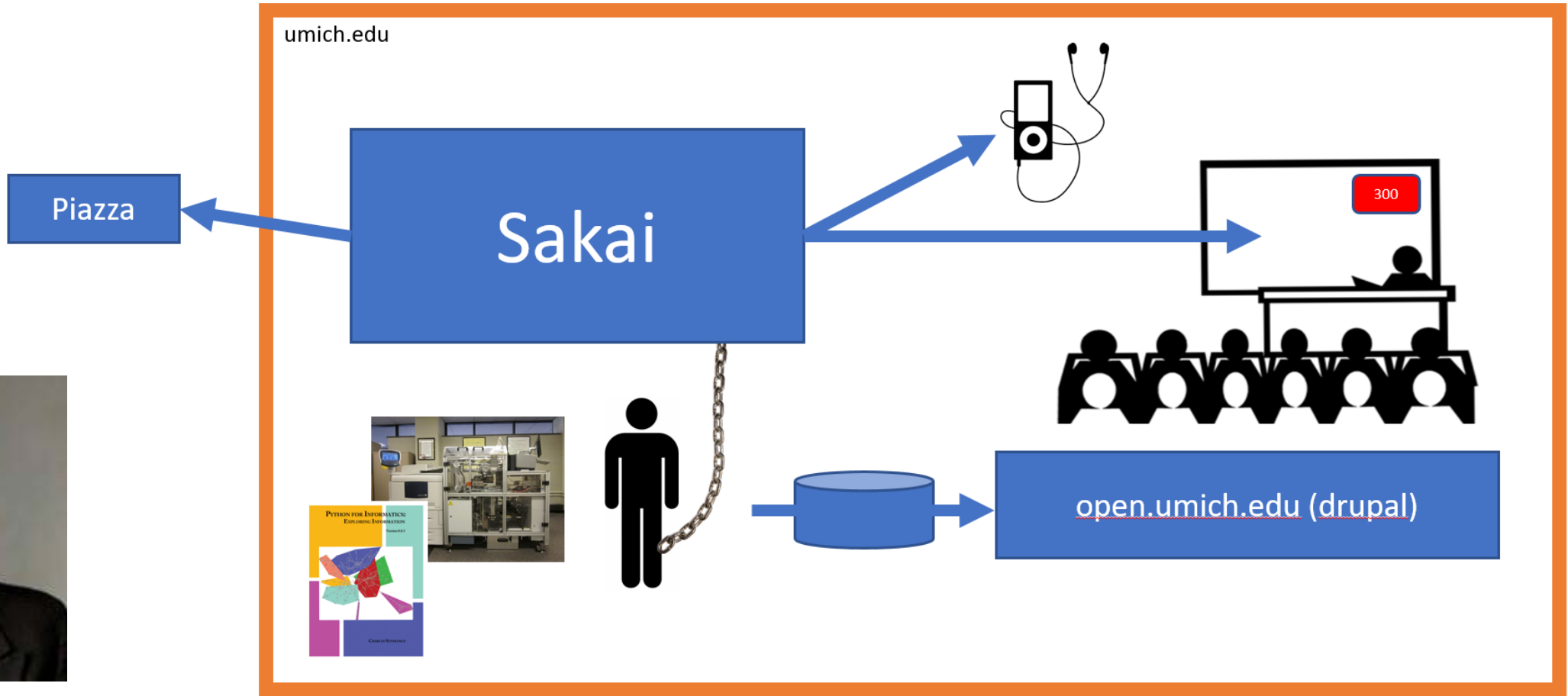
- LTI1.3
- LTI Advantage

Sakai19.2 QAサーバにおけるLTI1.3 実装

LTI: IMS GLCが策定する技術標準

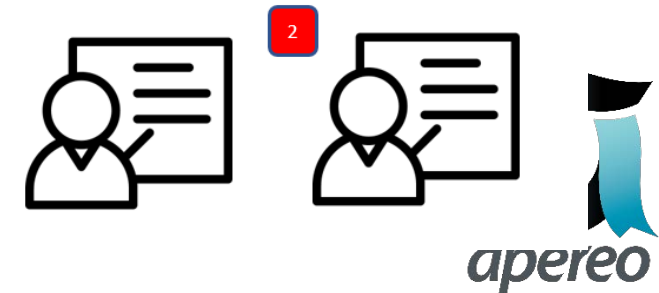
Tsugi: LTIを実装するフレームワーク

LMSを中心とするシステム構成

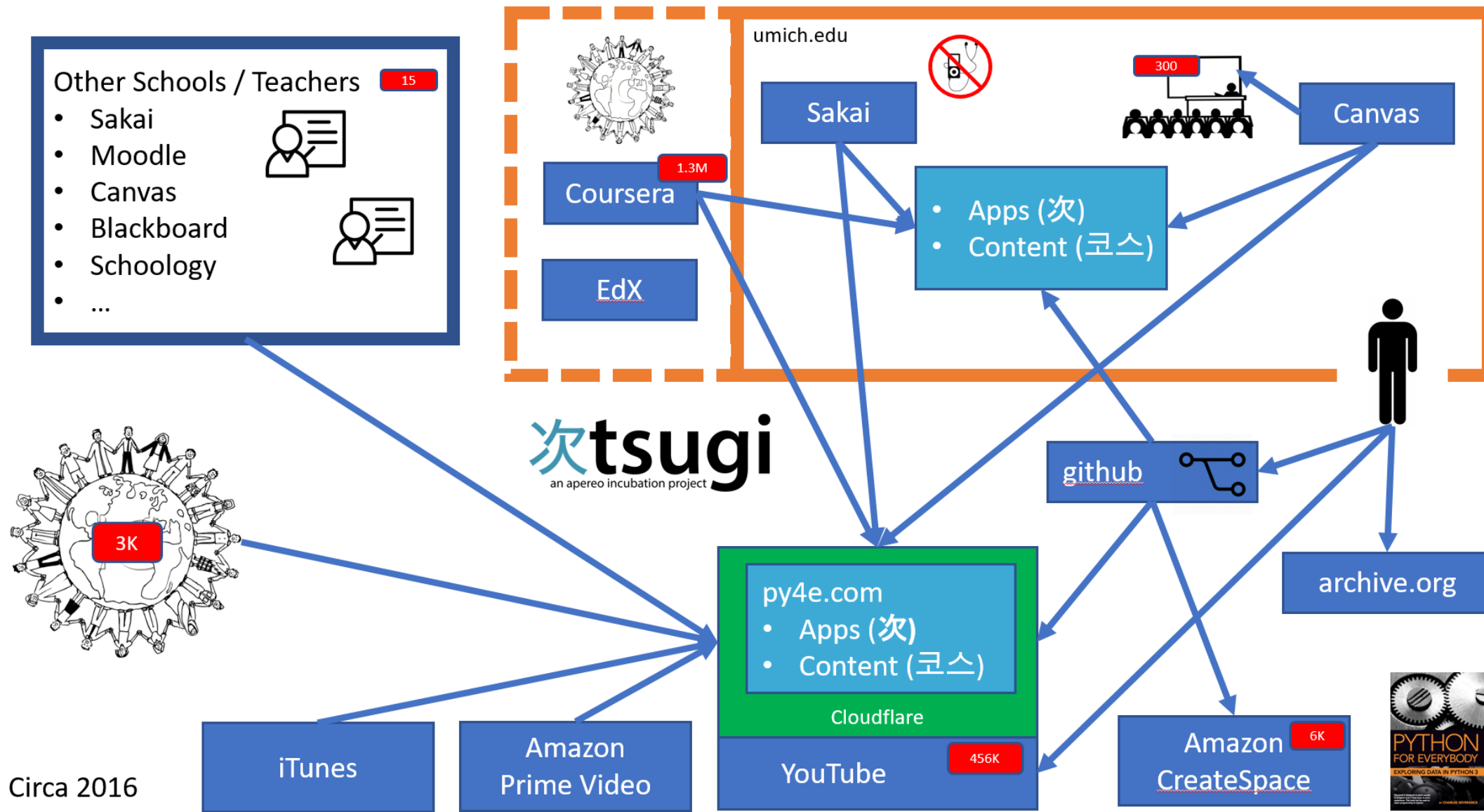


Dr. Chuck
Charles Severance

Circa 2012



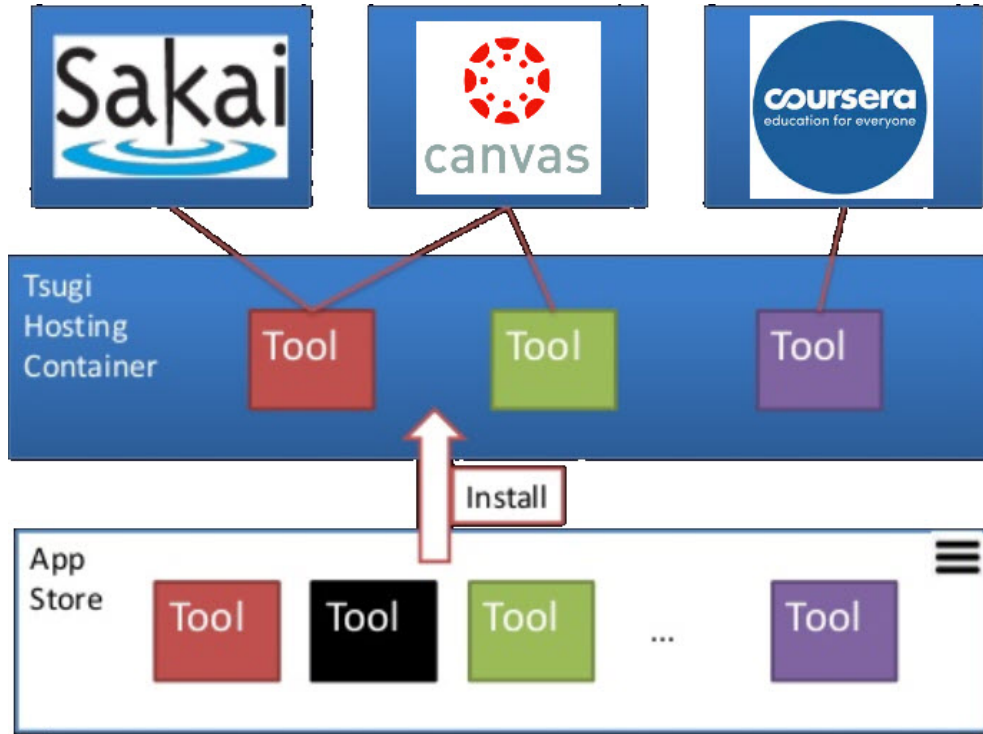
教材を中心とするシステム構成



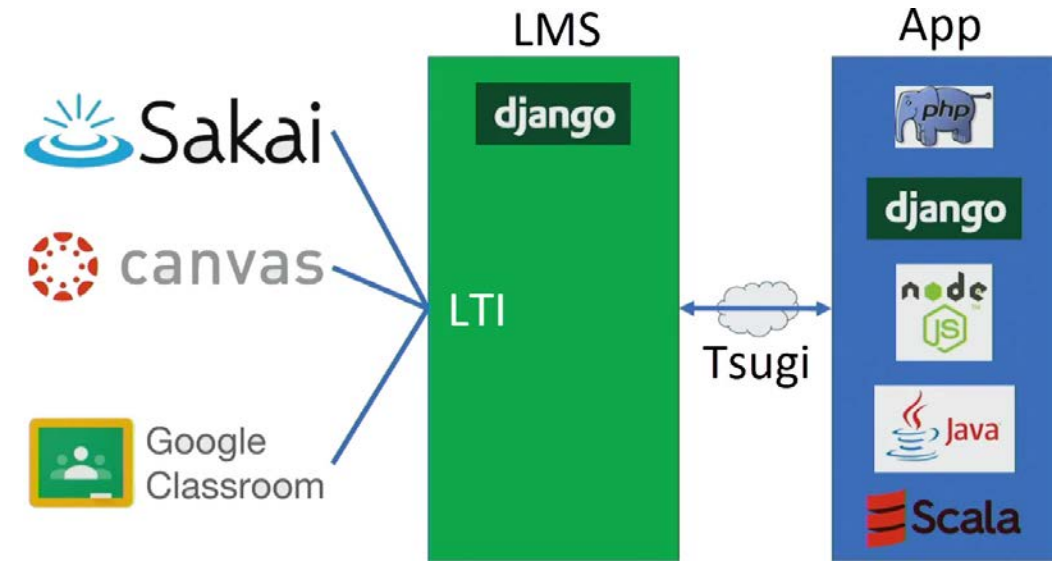
Circa 2016



Tsugiおよび新たなLMSの提案



Tsugi概念図



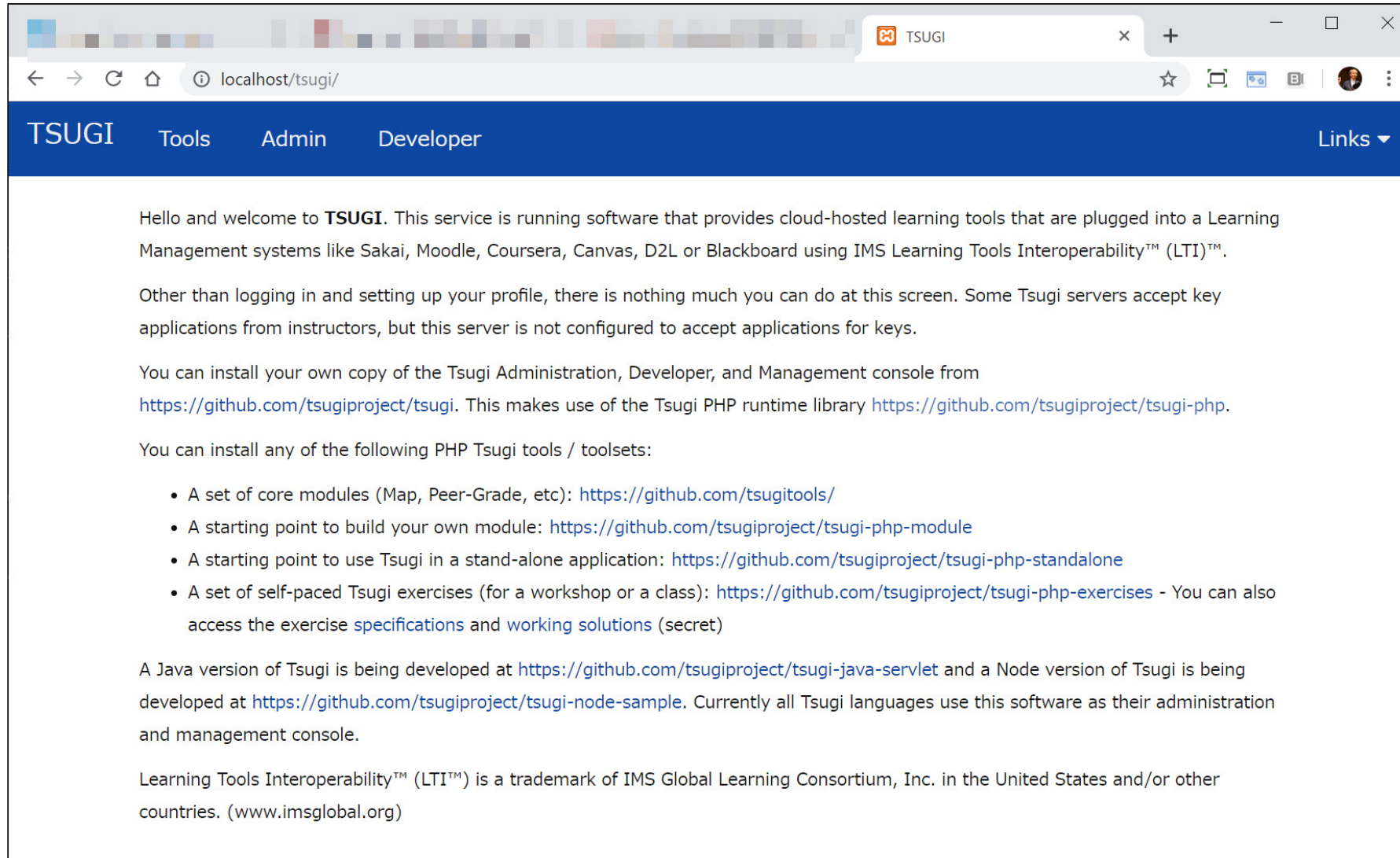
次世代LMSの提案

- Python/Django で開発する
← 35才未満の技術者はJavaを学んでいない
- IMS LTI Advantage を内蔵する
- API はOAuth2.0/JWT をベースとする

LTI Support and Deprecation Schedule

LTI Version		Date of the Last New Certification	Date of the Last Recertification	Market Availability Through*	Comments
1.0.1	Basic Launch with Updated Security	6/30/2020	6/30/2021	6/30/2022	
1.1.2	Basic Outcomes with Updated Security	06/30/2020	06/30/2021	06/30/2022	
1.3	LTI Advantage Core (currently LTI 1.3)	Ongoing	Ongoing	Ongoing	<i>Recommended LTI Version</i>

- LTI1.1 はIMS GLC でCertification を所得できるのが2022 年までとなっているが、初めてのLTI の実装においては設定が簡便なLTI1.1 の実装が望ましい。
- LTI1.1 によってある程度の実績が蓄積された後、2022 年までにLTI1.3 を実装する。
- 教員中心の教育環境が求められ、複数のLMS への対応が必要になった場合、Tsugi による実装を検討する。



The screenshot shows a web browser window with the address bar set to `localhost/tsugi/`. The page has a dark blue header with the text "TSUGI" and navigation links for "Tools", "Admin", "Developer", and "Links". The main content area is white and contains the following text:

Hello and welcome to **TSUGI**. This service is running software that provides cloud-hosted learning tools that are plugged into a Learning Management systems like Sakai, Moodle, Coursera, Canvas, D2L or Blackboard using IMS Learning Tools Interoperability™ (LTI)™.

Other than logging in and setting up your profile, there is nothing much you can do at this screen. Some Tsugi servers accept key applications from instructors, but this server is not configured to accept applications for keys.

You can install your own copy of the Tsugi Administration, Developer, and Management console from <https://github.com/tsugiproject/tsugi>. This makes use of the Tsugi PHP runtime library <https://github.com/tsugiproject/tsugi-php>.

You can install any of the following PHP Tsugi tools / toolsets:

- A set of core modules (Map, Peer-Grade, etc): <https://github.com/tsugitools/>
- A starting point to build your own module: <https://github.com/tsugiproject/tsugi-php-module>
- A starting point to use Tsugi in a stand-alone application: <https://github.com/tsugiproject/tsugi-php-standalone>
- A set of self-paced Tsugi exercises (for a workshop or a class): <https://github.com/tsugiproject/tsugi-php-exercises> - You can also access the exercise [specifications](#) and [working solutions](#) (secret)

A Java version of Tsugi is being developed at <https://github.com/tsugiproject/tsugi-java-servlet> and a Node version of Tsugi is being developed at <https://github.com/tsugiproject/tsugi-node-sample>. Currently all Tsugi languages use this software as their administration and management console.

Learning Tools Interoperability™ (LTI™) is a trademark of IMS Global Learning Consortium, Inc. in the United States and/or other countries. (www.imsglobal.org)

<https://github.com/tsugiproject/Tsugi> のlocalhostでの実行事例





Karuta

Photo of Griffith Observatory provided by Los Angeles Tourism
& Convention Board



OPEN APEREO

2019

The Higher Education Open-Source Conference

Los Angeles, CA June 2-6

Photo of View Towards Malibu provided by Los Angeles
Tourism & Convention Board



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