

# **Apereo: State of the Foundation Update: Sakai 10 and Beyond**



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**Nagoya University - March 2014**  
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*" ... collaborate to foster, develop,  
and sustain open technologies and  
innovation to support learning,  
teaching, and research... "*

APEREO - APEREO+ESUP



ONE YEAR OLD

Math



# Maths

# Maths



115

# Maths



115

**ESUP** Portail

73



**188**

uPortal 4<sup>SM</sup>

Sakai

 bedework

CAS

uMobile<sup>SM</sup>



« opencast »

Portlets

OpenRegistry



# FOUNDATION ROLE





02/09 Année (Dates comprises) | AU 02/09 Jour Mois Année | F/181/ | 4. Numero de la C... | Numéro du Contrat

5. N° d'immatriculation ou en l'absence de N° d'immatriculation N° de châssis ou N° du moteur. | 875 XB 75

(Rayer les pays dans lesquels cette carte n'est pas valide)

A	B	D	DK	E	F	FIN	GR
EST	H	HR					

7. Nom

8. C...  
M...  
32...  
750...

REPUBLICQUE FRANÇAISE  
MINISTERE DES TRANSPORTS  
D'IMMATRICULATION

Le titulaire du présent certificat est...  
La préfecture de son domicile...  
tout changement de domicile...  
domicile à lieu à l'unité...  
reçu par la préfecture...  
modification...  
dans...  
vous...  
du véhicule...  
et la...  
supérieur droit...  
vendu le... ou "cédé le..." suivie de sa  
sans les quinze jours... par l'acquéreur. En  
dans le domicile... cette déclaration doit  
certificat... coin supérieur droit aura  
est soumise aux formalités  
3-969 du 30 septembre 1953  
véhicule d'occasion, la production  
et de non opposition est  
à votre vendeur.

# IPR & LICENSING

RÉPUBLIQUE FRANÇAISE

**F**

Permis de conduire  
Führerschein  
Άδειά οδήγησης  
Driving Licence  
Ajokortti  
Ceadúnas Tiontaíochas  
Patente di guida  
Rijbewijs  
Carta de Conducătoare  
Körkort

Modèle des  
COMMUNAUTÉS EUROPÉENNES







# INFRASTRUCTURE







# FINANCIALS





# OUTREACH







# EVENTS

US, JAPAN, PAN-EUROPE, SOUTH AFRICA, SPAIN, MEXICO





MIAMI JUNE 1ST-4TH  
**CONFERENCE**







# A BETTER UMBRELLA



DIVERSITY

ROBUSTNESS





# INNOVATION



DIVERSITY



# INCUBATION

INNOVATION TO SUSTAINABILITY - OR NOT





# SCAFFOLDED PROCESS

## OPEN AND TRANSPARENT





GENERAL AND SPECIFIC EXPERTISE  
**MENTORED**



A photograph of several international flags flying on tall poles against a clear blue sky. The flags are in motion, creating a sense of global unity. The word 'INTERNATIONALISATION' is overlaid in large, white, bold, sans-serif capital letters across the center of the image.

# INTERNATIONALISATION

voice  
nt Sentence  
"minute jargon"

**ACCESSIBLE**

judge

use  
style

white  
space

Align left

Choose wisely  
(12-14pt)

#	Alpha	
1	a	
2	b	
3	c	
4	d	
5	e	

Use  
Tables  
for  
DATA  
not  
for  
formatting

pr  
w

your  
V  
Caf

ACCESSIBILITY

# ACCESSIBILITY

Choose wisely  
(12-14pt)

#	Alpha	
1	a	
2	b	
3	c	
4	d	
5	e	

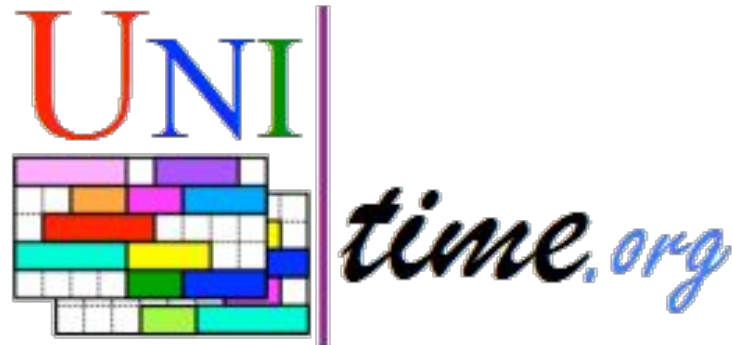
Use  
Tables  
for  
DATA  
not  
for  
formatting

# Lecture Capture (and more)

((( openncast )))



# University Timetabling





# KARUTA



NEXT GENERATION EPORTFOLIO INITIATIVE



A close-up, sepia-toned photograph of two young men looking down at a device. The man in the foreground is wearing a white shirt and a black lanyard with 'SONOMA STATE UNIVERSITY' printed on it. The man in the background is also looking down. The text 'ANALYTICS' is overlaid in large white letters on a dark grey horizontal band.

# ANALYTICS

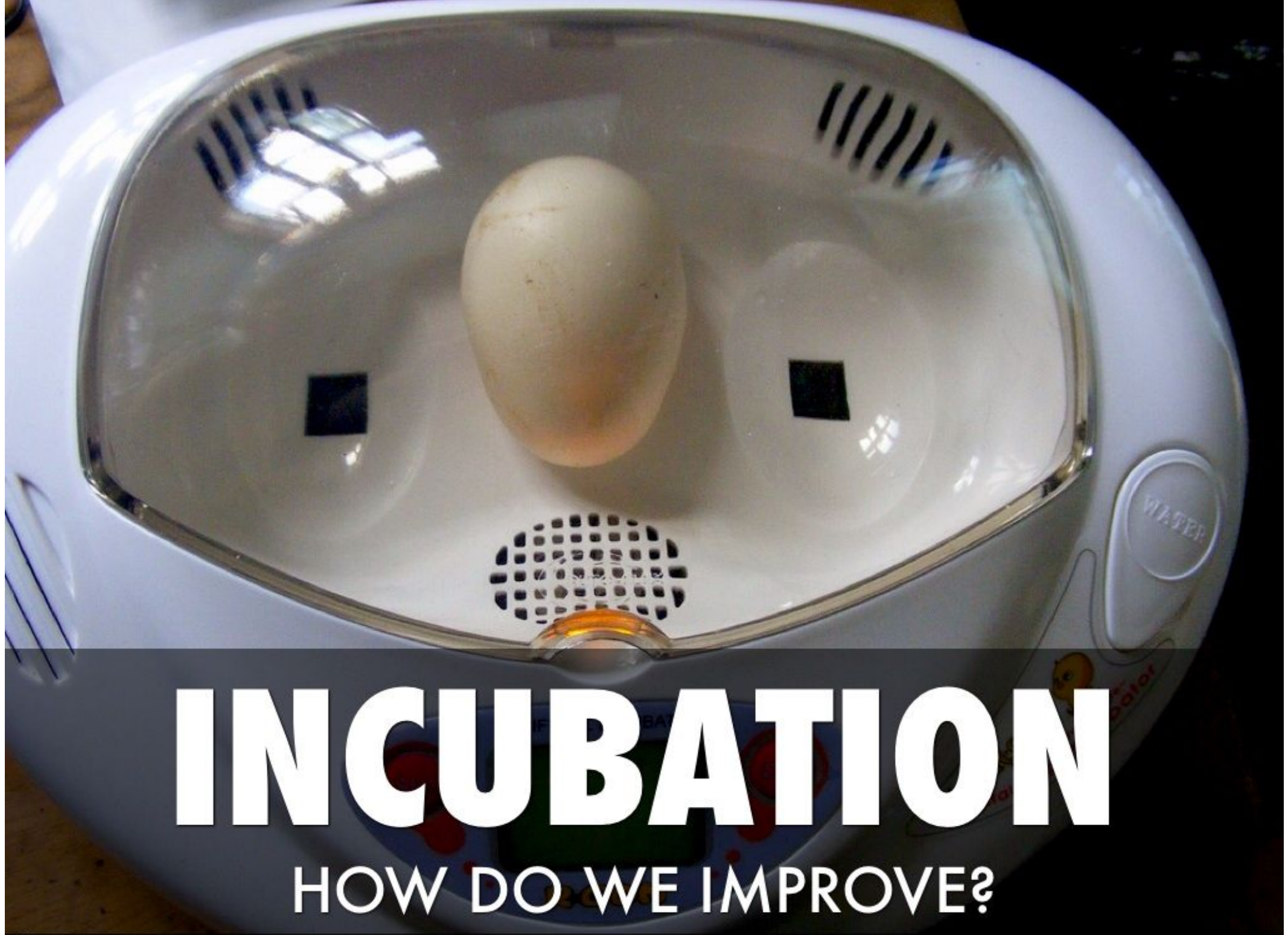
STANDARDS SUPPORT + PRACTICE



# TRANSPARENCY

## FOR PROJECT AND ADOPTER





# INCUBATION

HOW DO WE IMPROVE?



bela eskola  
escuela de vela



gune teknikoa  
area técnica



Kapitania  
Capitania

**LANGUAGE BARRIERS?**

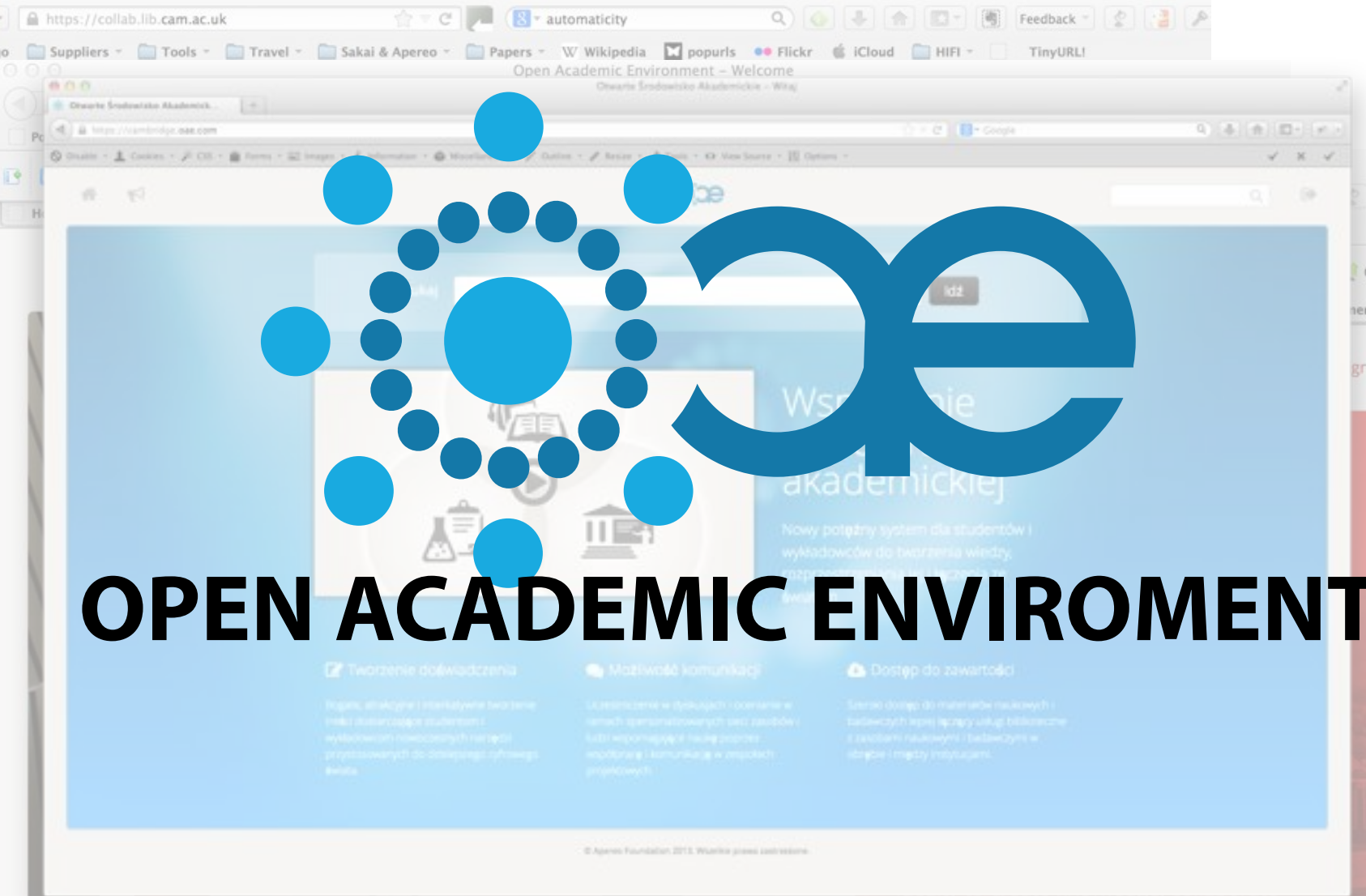




# DESIGN ISSUES?



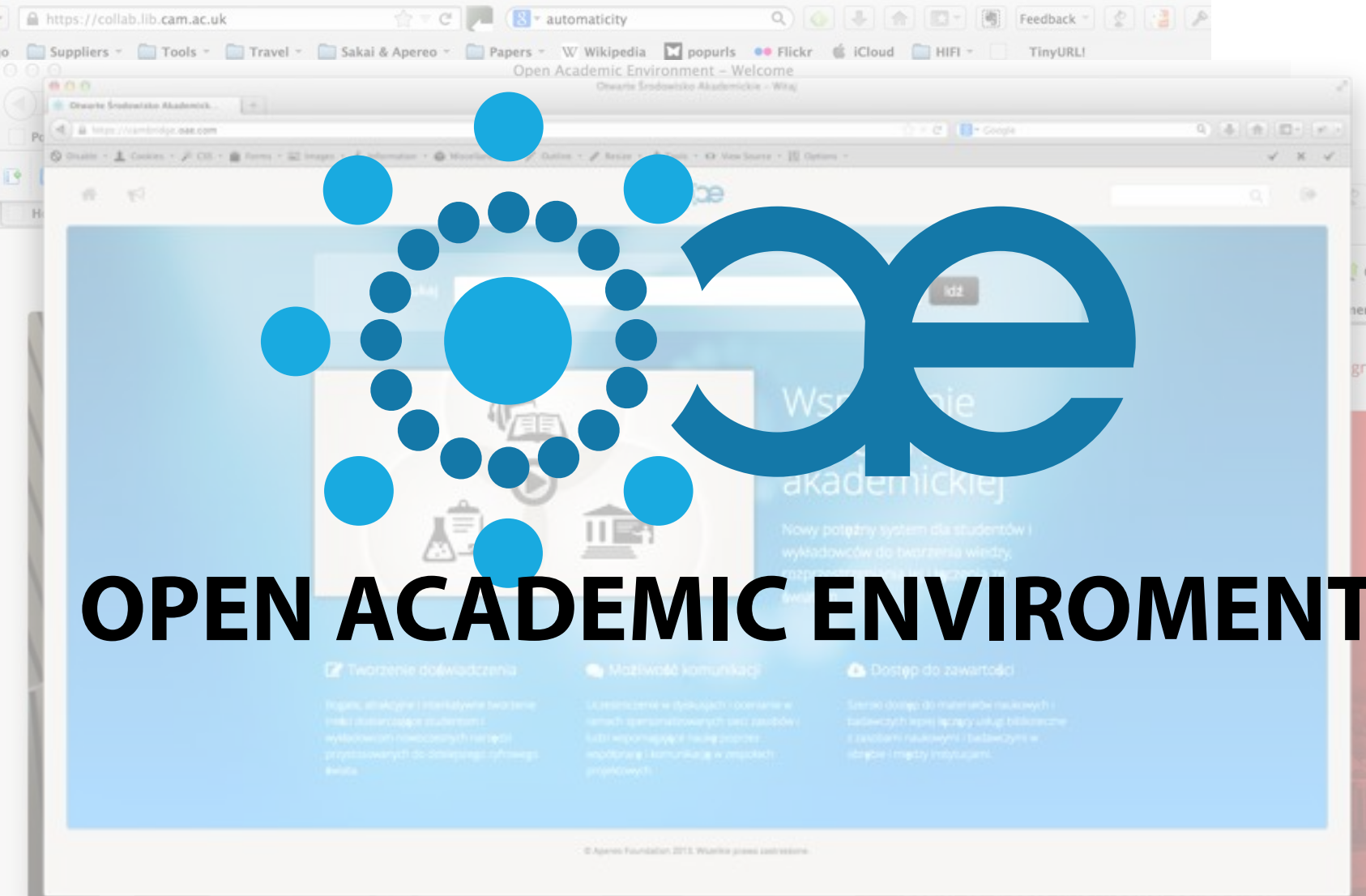




# OPEN ACADEMIC ENVIROMENT

Authoring Experiences Channels of Communication Access to Content

# NEXT GEN ACADEMIC COLLABORATION

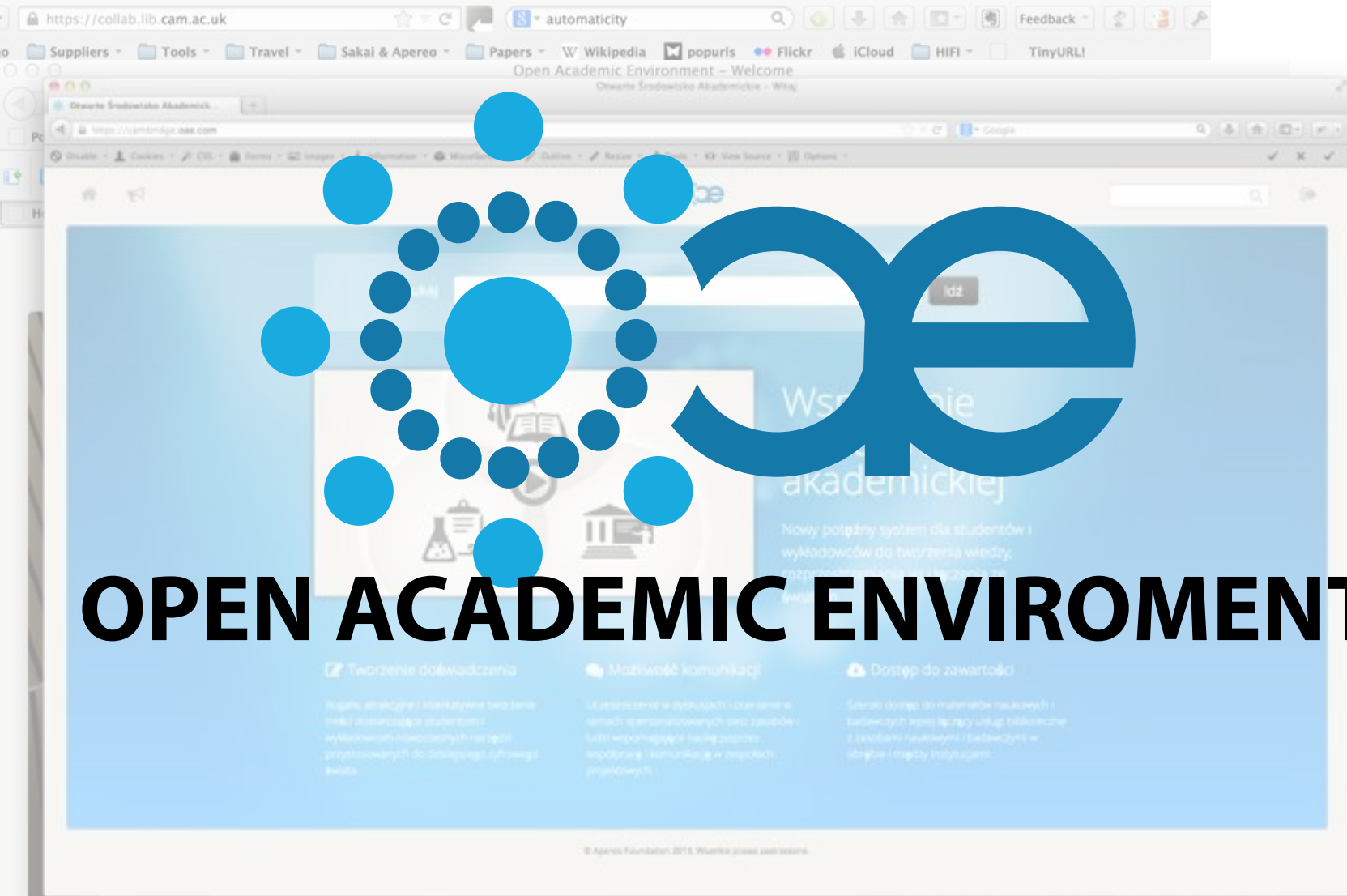


# OPEN ACADEMIC ENVIROMENT

Authoring Experiences Channels of Communication Access to Content

# DESIGN LED PROJECT

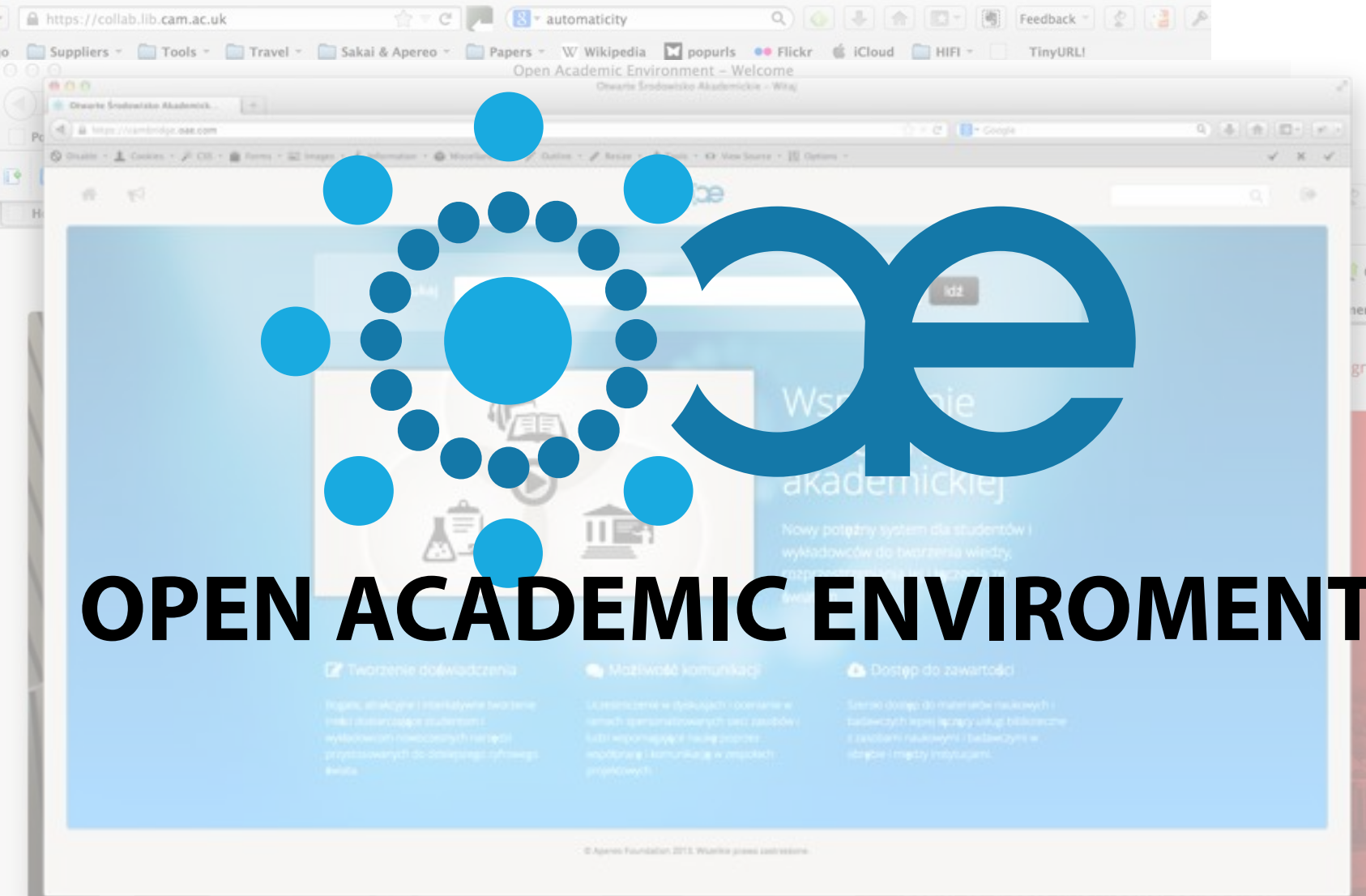




# OPEN ACADEMIC ENVIROMENT

Authoring Experiences Channels of Communication Access to Content

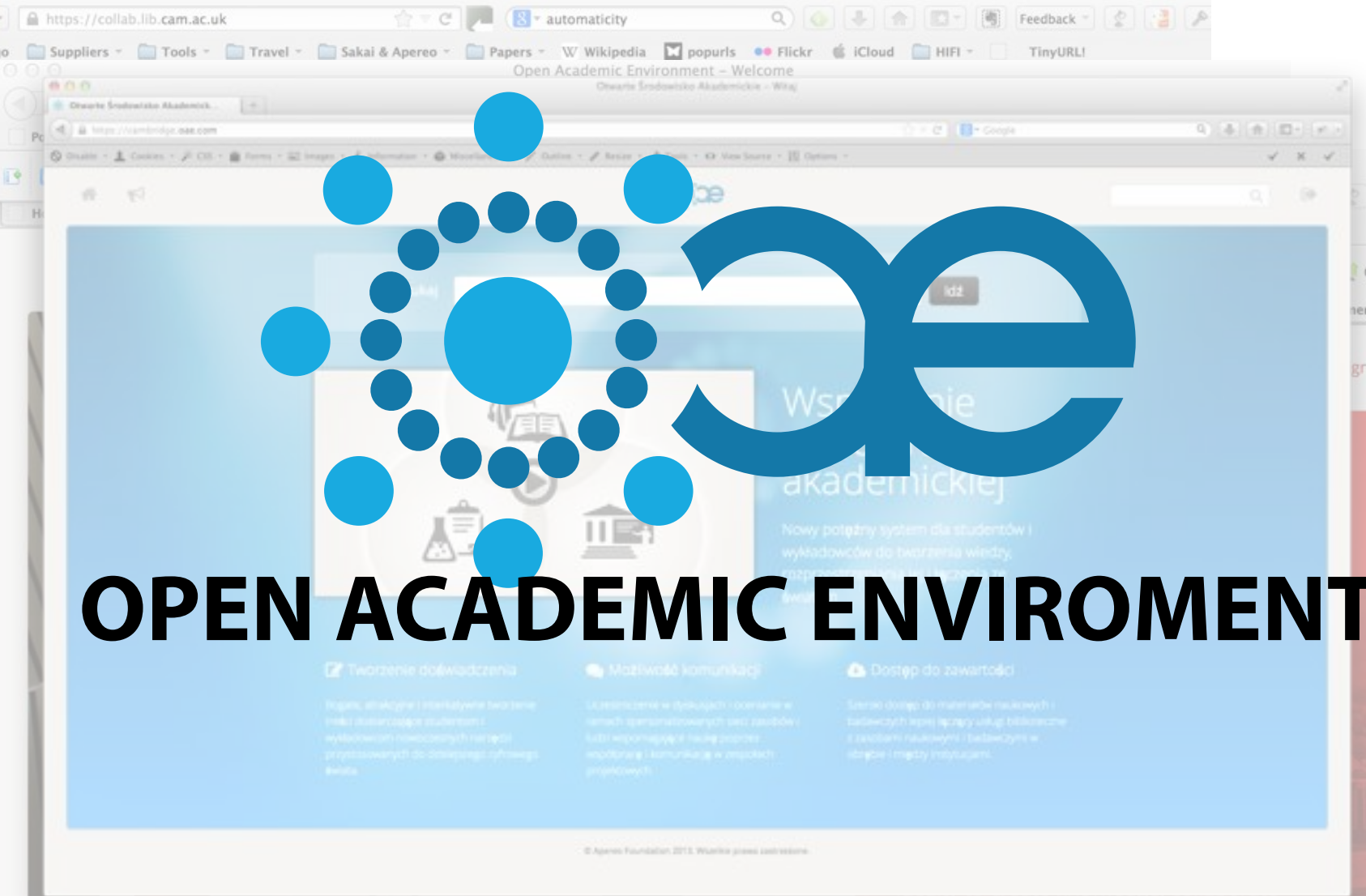
# HIGHLY SCALEABLE



# OPEN ACADEMIC ENVIROMENT

Authoring Experiences Channels of Communication Access to Content  
**MULTI-TENANT, HOSTED**





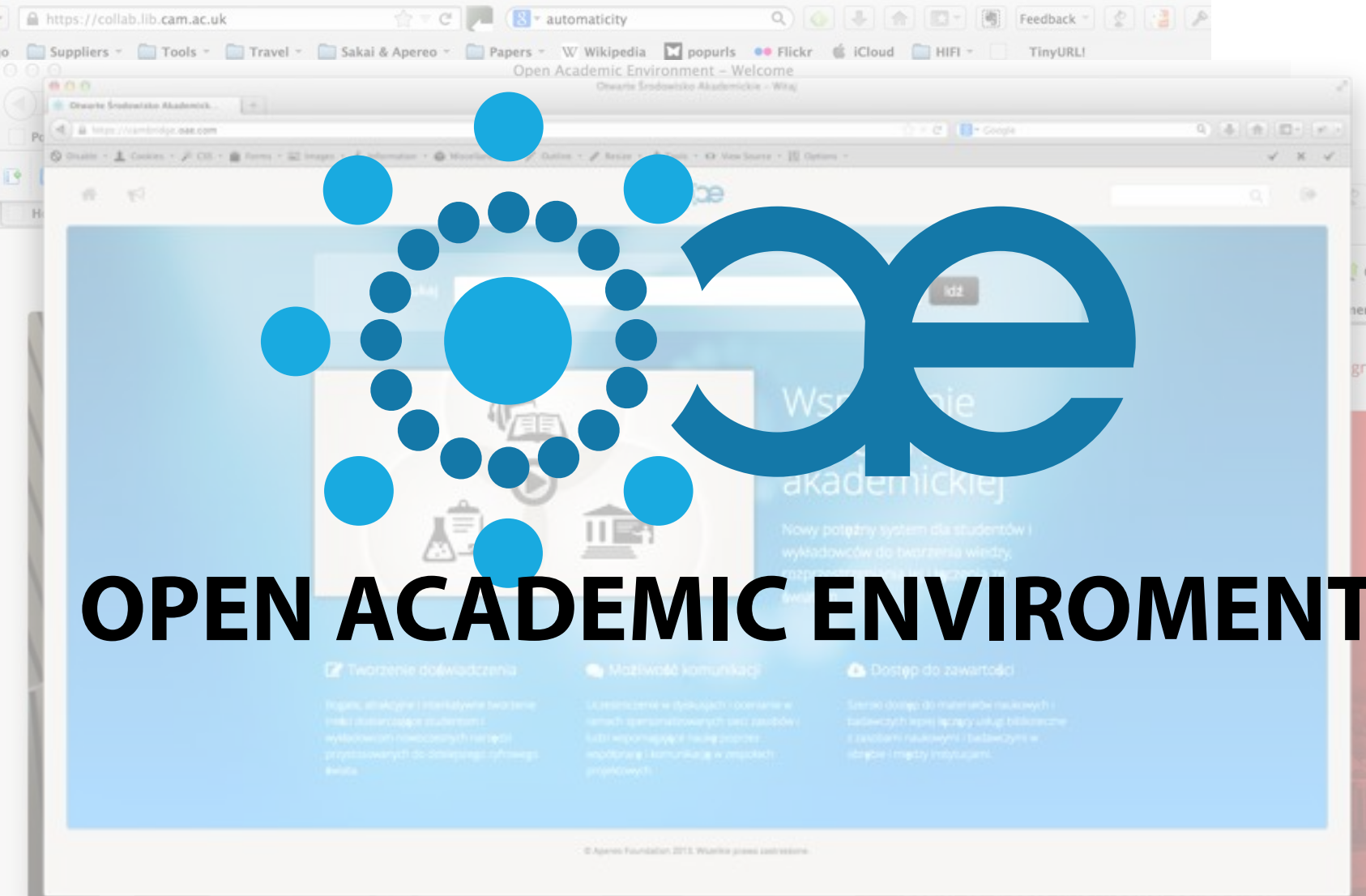
# OPEN ACADEMIC ENVIROMENT

Authoring Experiences

Channels of Communication

Access to Content

# OPTIONAL TENANT PERMEABILITY



# OPEN ACADEMIC ENVIROMENT

Authoring Experiences Channels of Communication Access to Content

# WEB SCALE ARCHITECTURE



# NETWORK



# COLLECTIONS

The screenshot displays a user interface for 'Open Academic Environment'. At the top, there is a navigation bar with icons for home, a megaphone, a briefcase, and the 'oe' logo. A search bar and a share icon are also present. Below the navigation bar, the user's profile 'Sarah Smith' is shown with a dropdown arrow and the text 'Open Academic Environment'. To the right of the profile are 'Upload' and 'Create' buttons. On the left side, there is a sidebar menu with options: 'Recent activity', 'My library', 'My groups', 'My discussions', and 'My network'. The main content area is titled 'Library' and contains a toolbar with 'Upload', 'New document', and 'Create folder' buttons. Below the toolbar is a list of items in a library, each with a checkbox, a folder or file icon, a name, and a file type or status indicator. The items are: 'Research group materials' (folder icon, lock icon, '0'), 'File name 1.pdf' (file icon, lock icon, PDF), 'File name 2.pdf' (file icon, lock icon, PDF), 'File name 3.pdf' (file icon, lock icon, PDF), 'Detection of antibiotic-resistant bacteria and their resistance genes in wastewater...' (file icon, lock icon, PPT), and 'Fast detection and identification of bacteria in portable water' (file icon, lock icon). A mouse cursor is hovering over the 'Research group materials' folder, and a green '5' icon is visible next to it.

Sarah Smith ▾  
Open Academic Environment

Upload Create ▾

Recent activity  
My library  
My groups  
My discussions  
My network

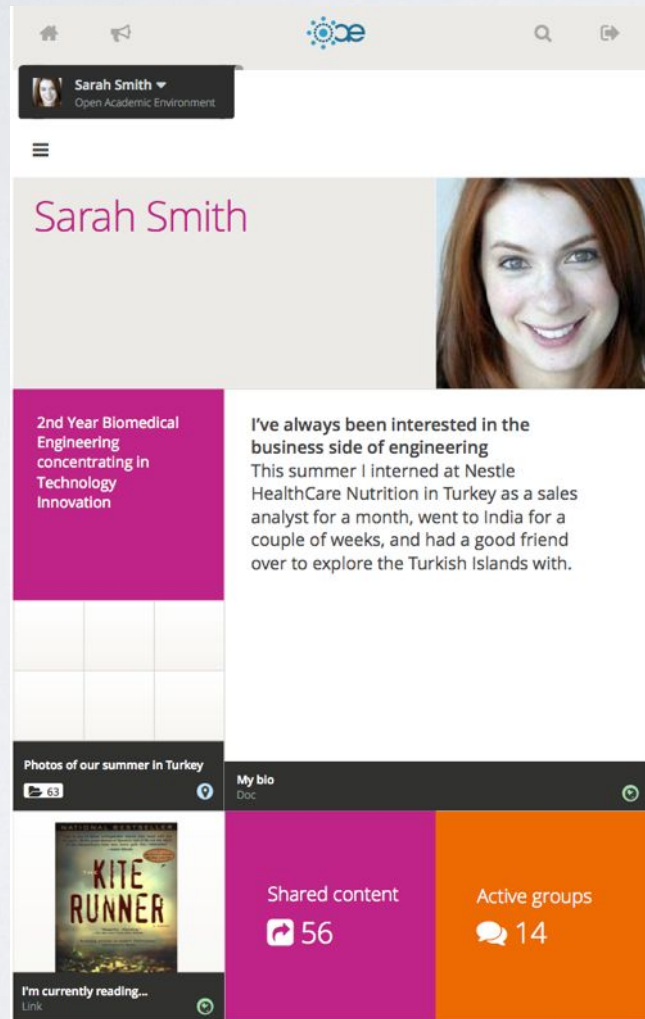
Library

Upload New document Create folder ▾

- Research group materials 0
- File name 1.pdf PDF
- File name 2.pdf PDF
- File name 3.pdf PDF
- Detection of antibiotic-resistant bacteria and their resistance genes in wastewater... PPT
- Fast detection and identification of bacteria in portable water



# USER / GROUP PROFILES



oae

Sarah Smith  
Open Academic Environment

Sarah Smith

2nd Year Biomedical Engineering concentrating in Technology Innovation

I've always been interested in the business side of engineering  
This summer I interned at Nestle HealthCare Nutrition in Turkey as a sales analyst for a month, went to India for a couple of weeks, and had a good friend over to explore the Turkish Islands with.

Photos of our summer in Turkey 63

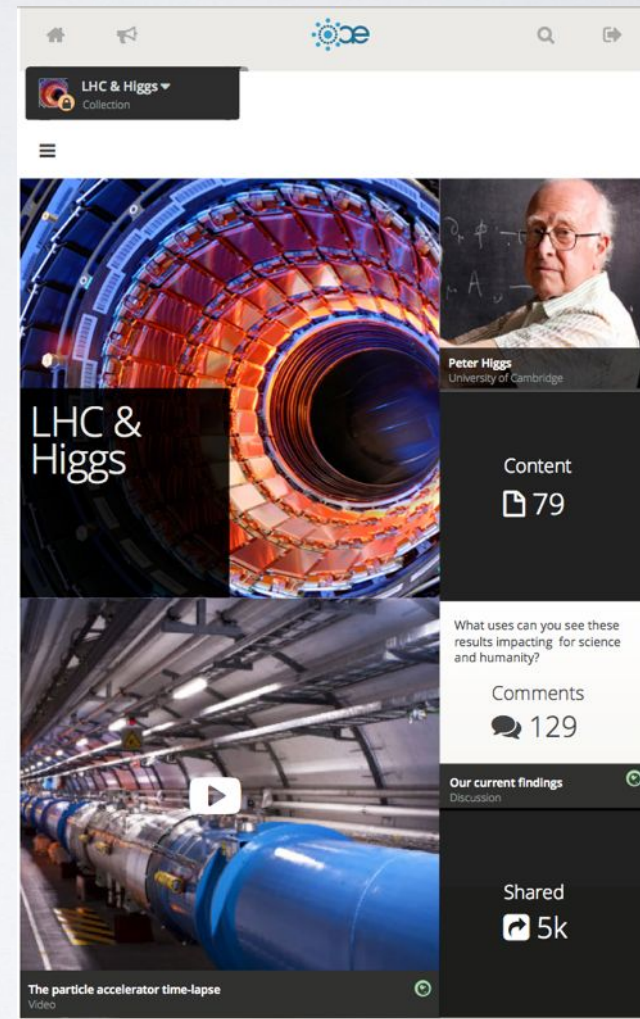
My bio Doc

KITE RUNNER

I'm currently reading... Link

Shared content 56

Active groups 14



oae

LHC & Higgs  
Collection

LHC & Higgs

Peter Higgs  
University of Cambridge

Content 79

What uses can you see these results impacting for science and humanity?

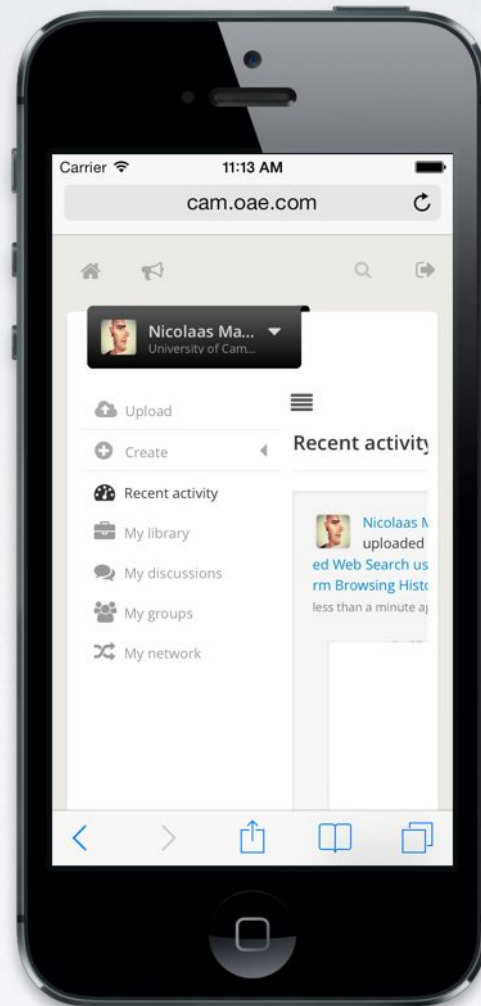
Comments 129

Our current findings Discussion

Shared 5k

The particle accelerator time-lapse Video

# RESPONSIVE UI





Sakai 10

The logo for Sakai 10 features the text "Sakai 10" in a sans-serif font. The word "Sakai" is in black, and the number "10" is in a light blue color. Below the text, there are three concentric, light blue circular ripples, suggesting water or a splash, centered under the letter 'i' in "Sakai".



# ASSIGNMENTS

GROUP AND PEER REVIEWED ASSIGNMENTS



# SIGN-UP

SCHEDULING OFFICE HOURS, STUDY GROUPS ETC



# TESTS / LESSONS

NEW QUESTION TYPES / INTERFACE IMPROVEMENTS



A photograph of a classroom desk. In the foreground, a hand with a gold watch and ring is writing on a spiral notebook. The notebook is open to a page titled "SQUIBB'S CLASS RECORD BOOK". The page has a header and some handwritten text, including "50" and "mentary". On the desk, there are several colored pencils, a blue pen, and some white paper. In the background, there are red chairs and a white desk. The text "GRADEBOOK / SYLLABUS" is overlaid in large white letters on a dark grey background across the middle of the image.

# GRADEBOOK / SYLLABUS

EXTRA CREDIT OPTION/TOC+TOOL LINKS

# ELASTICSEARCH AND SOLR OPTIONS

A close-up photograph of a woman's face, looking through a magnifying glass. The magnifying glass is held over her right eye, which is significantly enlarged and in focus. Her left eye is visible and looking towards the camera. The lighting is dramatic, with strong highlights and deep shadows, creating a serious and investigative atmosphere. The background is dark and out of focus.

# SEARCH



LAST TO LEAVE ?  
PLEASE CLOSE  
WINDOWS

Good	English	Spanish
Yasou	Hello	Hola
Adio	Goodbye	Adios
How are you?	How are you?	Como estas ?
(I am fine, thank you)	(I am fine, thank you)	Estoy bien, gracias



# LEARNING TOOLS INTEROPERABILITY



# LTI PRODUCER

SUPPORT IN CORE DISTRIBUTION



# VIDEOCHAT

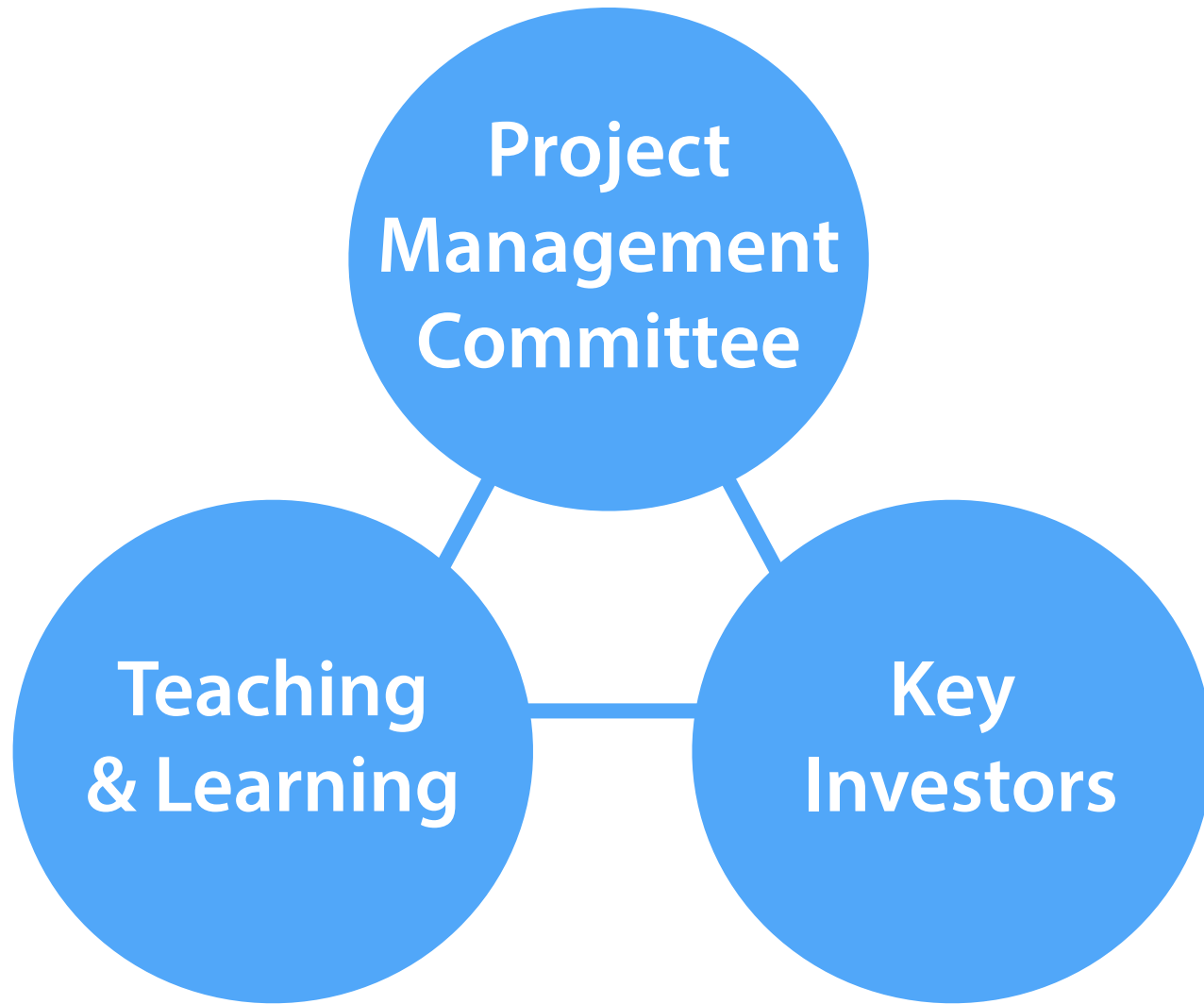


OFF BY DEFAULT, EXPERIMENTAL



# **Beyond Sakai 10: A Scenario**





# The Tripod



# UX IMPROVEMENT









# DISAGGREGATION

SAKAI + ENTERPRISE SERVICE BUS



A smiling woman with dark hair and sunglasses on her head is sitting on a blue wicker chair. She is wearing a grey halter top and a denim skirt. A black and white dog is sitting on a red wicker chair next to her. The background shows a white wall, a doorway, and a yellow bucket. The text "ADOPTION IS NICE CONTRIBUTION IS ESSENTIAL" is overlaid in white on a dark grey background.

ADOPTION IS NICE  
**CONTRIBUTION IS ESSENTIAL**