



Apereo Learning Analytics

Community Problem Solving in Practice

Ian Dolphin - Executive Director -
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Agenda

About Apereo

Why an open platform for learning analytics

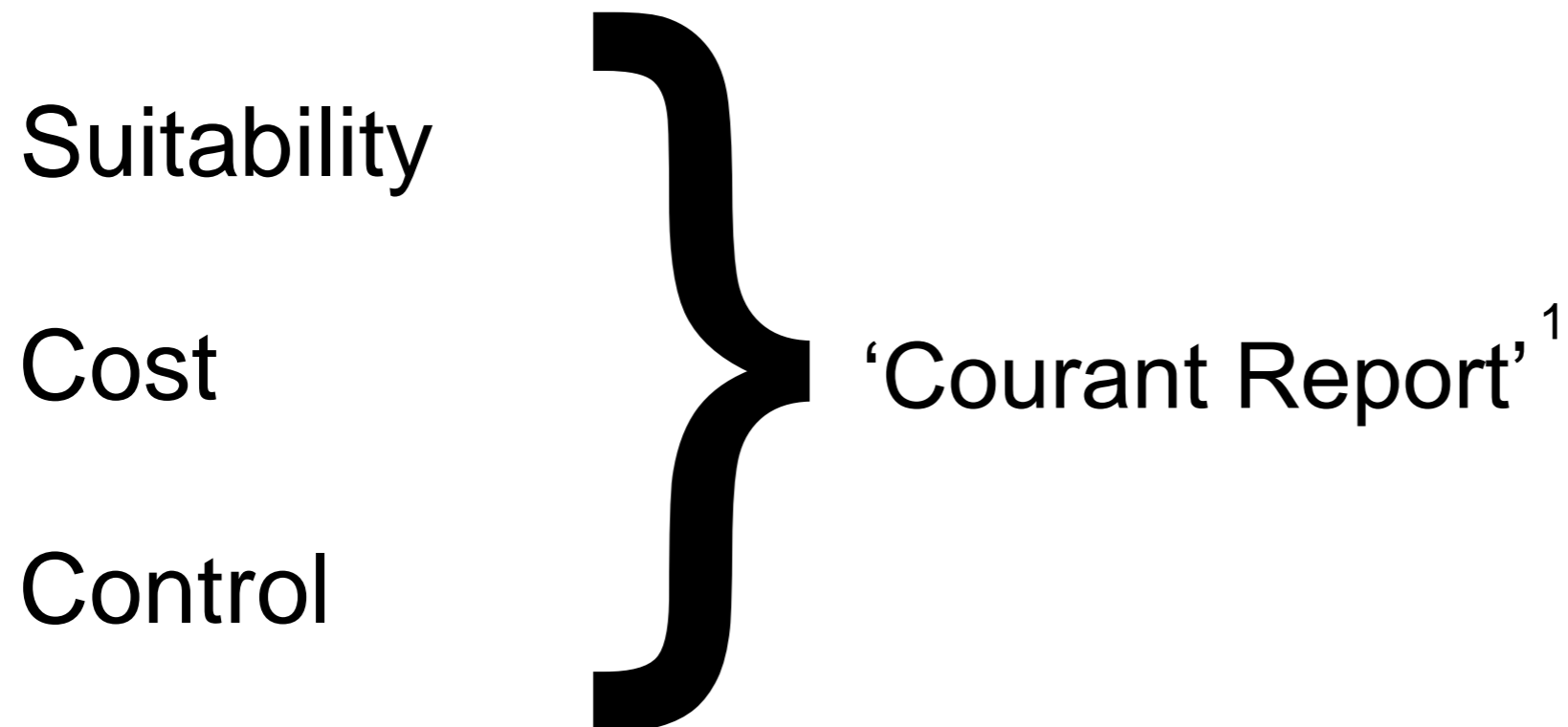
A community effort

“...to help educational organizations collaborate to foster, develop, and sustain open technologies and innovation to support learning, teaching, and research.”

– Apereo Mission

– The Apereo Foundation is a non-profit [501(c)(3)] registered in New Jersey

Why Open-Source?



Ability to collaborate in order to innovate

¹ Software and Collaboration in Higher Education - A Study of Open Source Software
www.campussource.de/opensource/docs/OOSS_Report.pdf

Apereero: what we do ...

... for our software communities & communities of interest

1. **Licensing** and management of **intellectual property**
2. **Technical & community infrastructure**; events, lists etc.
3. **Programs**; Fellows, Teaching Innovation Awards
4. **Banking, Accounting, Administration**
5. **Incubation**; helping develop new communities

Deliberately minimal - we want to save edu money, not remove it!

Apereo Foundation

Non-profit entity - 501.c.3 (New Jersey)

Membership organization.

Elected Board of Directors (+ small number of appointees)

Around 80 higher ed and commercial members worldwide
Close partnership with ESUP-Portail in France

Constituent communities have significant autonomy
- devolve decision making to those closest to the problem

How we see ourselves ...

Series of interrelated communities

Key component of a broader network

... part of an answer, not “the answer”

Society for Learning Analytics Research
SoLAR

Software Communities

Bedework

CAS

Karuta

Opencast

Open Academic Environment

Sakai

Student Success Plan

UniTime

uPortal/uMobile

Xerte

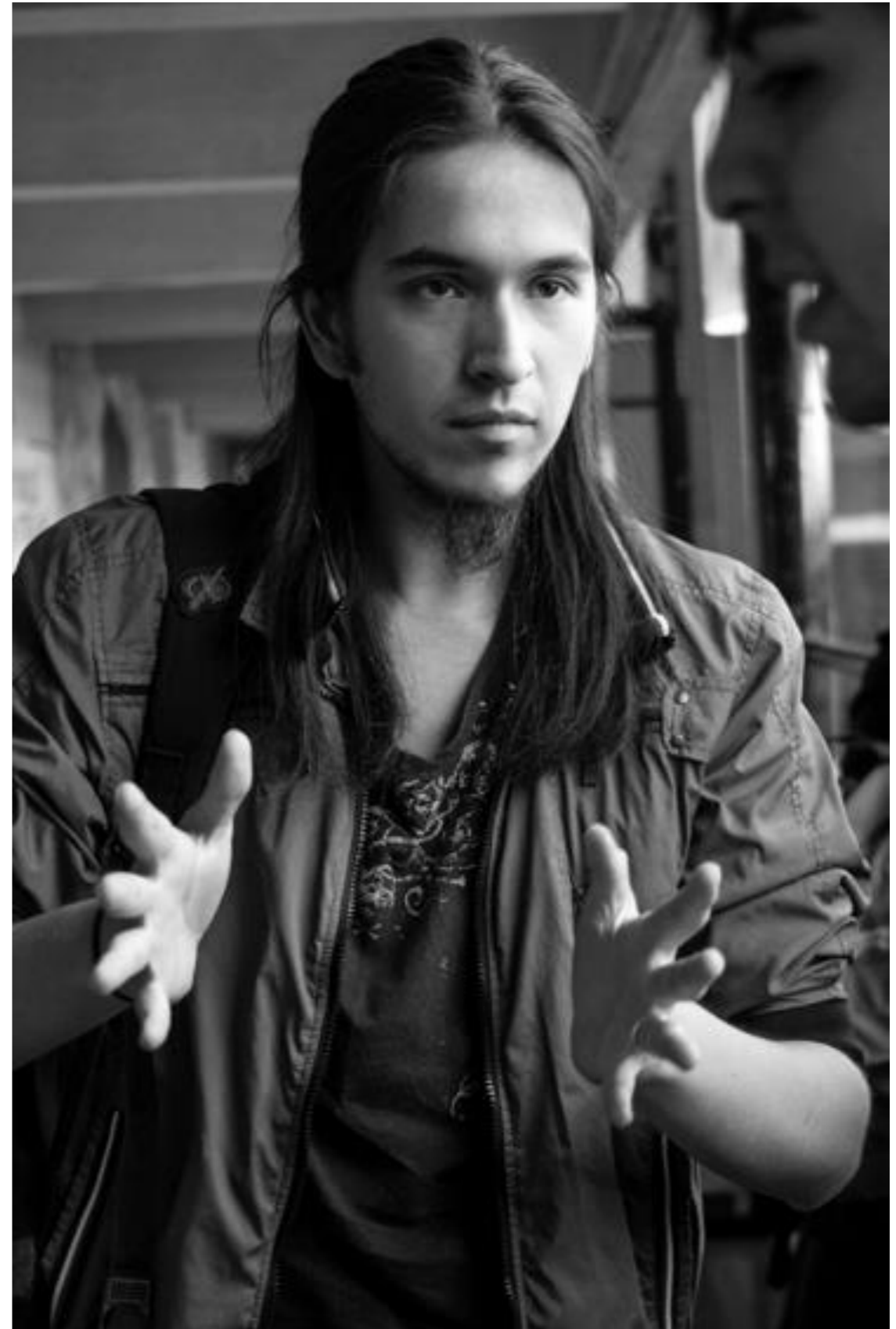
EDexchange

POET

Learning Analytics Processor

OpenDashboard

OpenLRS



Communities of Interest

Purpose

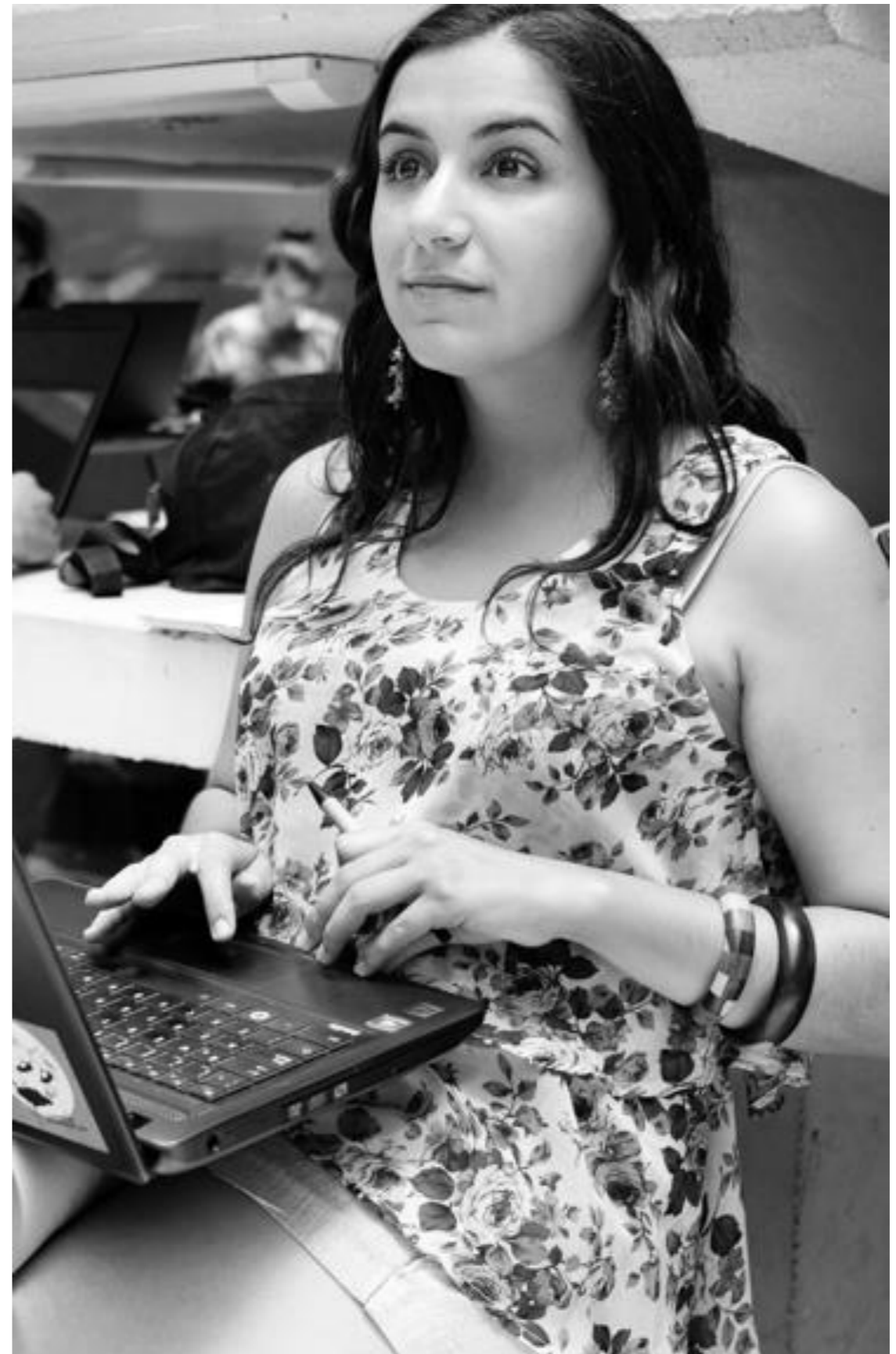
Teaching & Learning
ePortfolio
Learning Analytics

Software Development

Internationalization
Accessibility
Security
Licensing

Geographical

South Africa
Europe
Japan
Spain



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Apereo Learning Analytics Initiative - An Open Learning Analytics Platform



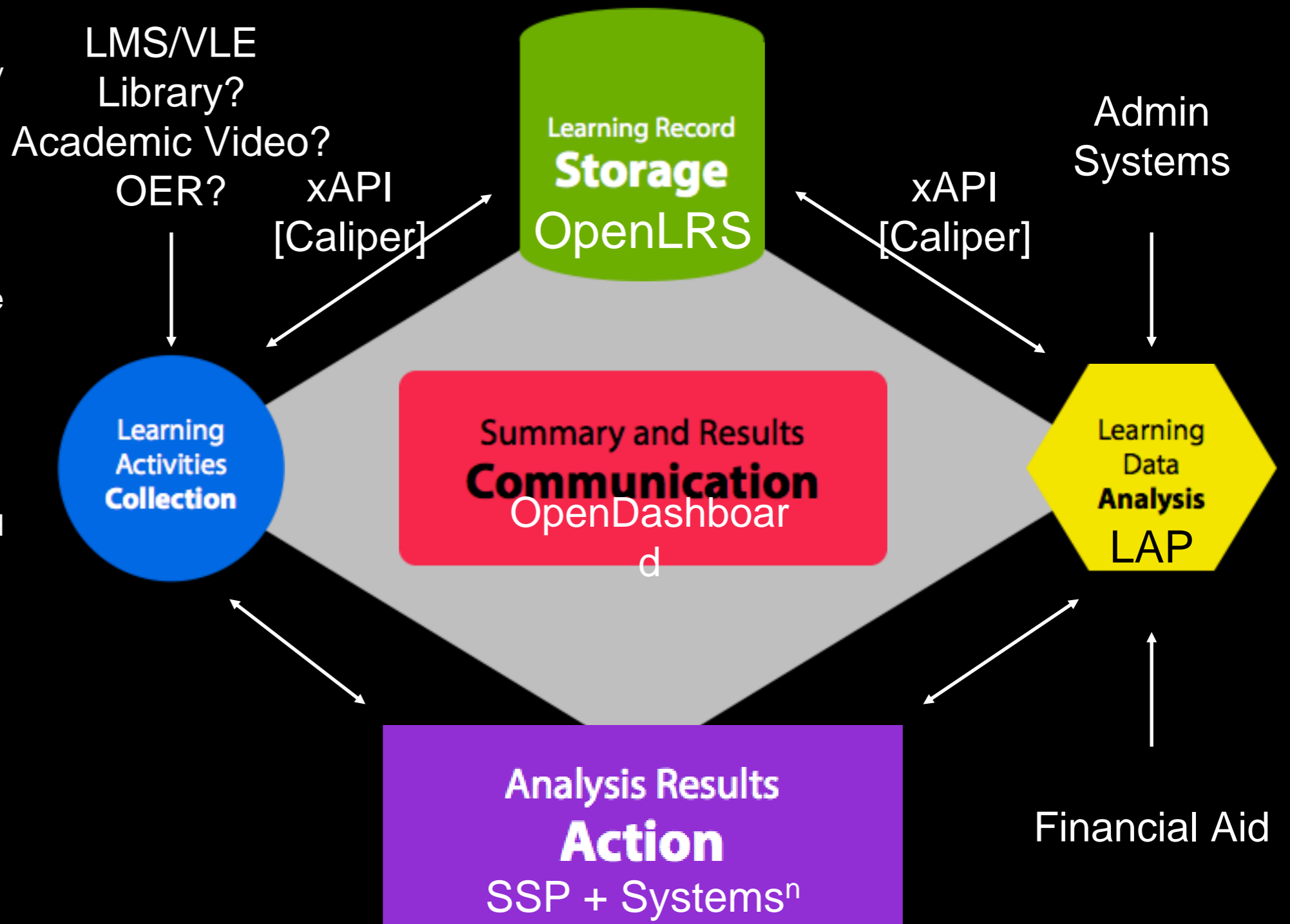
Collection – Standards-based data capture from any potential source using Experience API and/or IMS Caliper/Sensor API

Storage – Single repository for all learning-related data using Learning Record Store (LRS) standard.

Analysis – Flexible Learning Analytics Processor (LAP) that can handle data mining, data processing (ETL), predictive model scoring and reporting.

Communication – Dashboard technology for displaying LAP output.

Action – LAP output can be fed into other systems to trigger alerts, etc.



Why a platform based approach?

Commercial-Proprietary Landscape

Vendors are building capability into products ...

...Which then become “the solution”

Closed and proprietary

Products such as the VLE/LMS and SIS don't “own” analytics

Data required from across education landscape

Library systems, media players...

Open Platform

Neutral place to gather data

Flexibility and choice for adopters

Jisc Learner Record Store example

Openness enables shared experience, understanding

Open source software, open standards, open algorithms

Future Platform Benefits

Going beyond “early alerts”

Example: learner focused content sequencing

Open approach facilitates many actors
engagement

Learning Analytics Initiative

Community of interest

Open calls, events, hackathons, dissemination

Open Source Software communities around components

Apereo Incubation Process

Partnership with SoLAR

Research into practice

On the web:

Initiative -

<https://www.apereo.org/communities/learning-analytics-initiative>

Projects

<https://www.apereo.org/content/projects-communities>

Mailing list:

analytics@apereo.org

Subscribe by sending a message to:

analytics+subscribe@apereo.org

Wiki Page: https://confluence.sakaiproject.org/x/rIB_BQ

GitHub: <https://github.com/Apereo-Learning-Analytics-Initiative>



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2016

100% OPEN

22-25 MAY - NYU

OPEN SOURCE SOFTWARE SERVING EDUCATION



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