



Aperreo Open Analytics

An open platform for optimising learning

Learning Analytics is a new field. It's about the measurement, collection, analysis and reporting of data about learners and their contexts, to better understand and optimise learning and the environments in which it occurs. Learning Analytics is a hot topic in education. Everywhere you look, vendors of proprietary software are bundling analytics capability into products - and persuading you to bet the farm on their solution.

There is an alternative - a partnership of the *Aperreo Foundation* and the *Society for Learning Analytics Research (SoLAR)* is developing an **open analytics platform**. We don't have all the answers - but we do have some proven software, and an open approach that will let your school test the water without getting in over its head.

Components of the Aperreo open learning analytics platform have been used by a number of institutions. These include Marist College, North Carolina State University, Savannah State University and several community colleges. An initial field pilot involved over 2200 students across four institutions, two community colleges and two Historically Black College and Universities (HBCUs), over two semesters. Through controlled randomized studies, the pilot found statistically significant evidence that our early alert and intervention system had a positive impact on student success factors such as final course grades.



100% Open

An Emerging Platform

Learning Activities

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

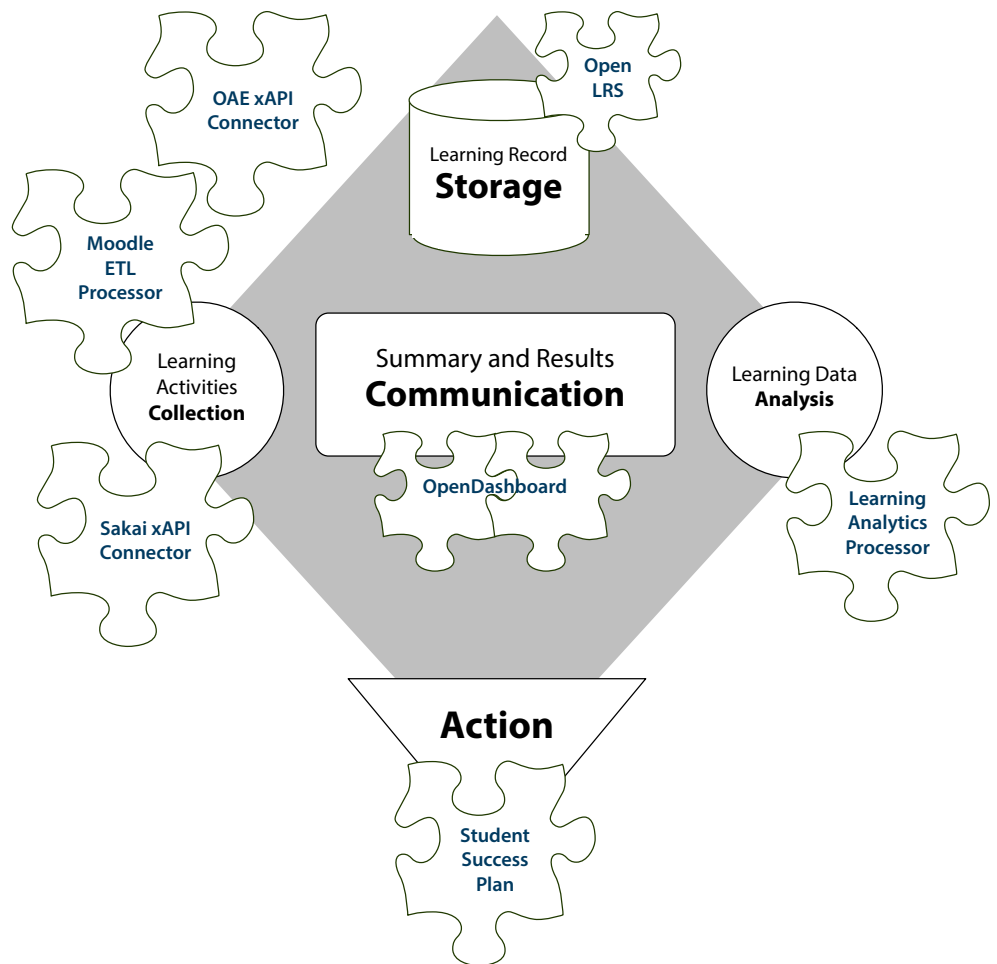
Storage – Single repository for all learning-related data using Learning Record Store (LRS) standard.

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.

Apereo members are building software around this platform. OpenLRS, Learning Analytics Processor, OpenDashboard and Student Success Plan are early examples of the benefits of a platform-based approach.



What's Next?

Marist College, Uniformed Services University (USU), North Carolina State and the UK's Jisc are contributing to the further development of the Apereo Open Analytics Platform. Currently, much work is being undertaken to further test the portability of algorithms and approach, and to ensure that the platform operates at the scale of a state system, or, in the UK, as a national service.

Interested in more information? Visit <https://www.apereo.org/communities/learning-analytics-initiative> or email analytics-coordinator@apereo.org

