

EMIS

Developing modern Education Management Information Systems

Education Management Information System (EMIS) is a system designed to manage information about an education system. An EMIS is a repository for data collection, processing, analysing, and reporting of educational information to provide an integrated set of relevant, reliable, explicit, and timely data to Ministries of Education, NGOs, researchers, donors, and other education stakeholders, used to create indicators, statistical approaches, and monitoring tools to better access progress of an education system.

EMIS will support a community of leading education systems to develop modern data architectures for national and global education reporting and analytics.

What is it?

- An international community with collective views in which world-leading organizations explore common data requirements and to co-ordinate data collections from various education stakeholders.
- To empower data-driven improvement in schools, built on global open data standards, delivered by an EMIS to automate, and manage all relevant aspects and activities within an institution with a centralised interface.
- The data platform integrates with existing siloed data sources or/and management systems for aggregation and insights.

How will Microsoft help?

Microsoft Education is committed to helping education systems develop modern data architectures for national and global education reporting and analytics. Microsoft will offer:

- Coordination of the community of education authorities engaging in EMIS.
- Education system analytics for low costs through existing deployments of Microsoft O365 platform and standardized data schema instituted on global open data standards, security, governance, and ethics.
- Driving digital identities and digital learning records for every student and educator.
- Coordination of a data platform with modern data architecture, engineering, management, collection, transfer, and ingestion.
- Demonstrate research through data access, reporting, visualizations, and data science.

What can the cohort achieve together?

Modern EMIS must be positioned in a conventional place of a national education information system, covering other areas different to the traditional ones with technology integrated to the relevant data sources.

The community will bring together education authorities, the industry ecosystem, and educational institutes together.

Expected deliverables:

- Support to strengthen the capacity of ministries of education on modern EMIS, to produce high-quality and timely education and finance data to reach their specific targets and goals.
- Support the development of common data model for education, aligned to SDG4 indicators.
- Lower costs of national education data collection, management, while increasing national and global reporting and analytics.
- Case studies of pilot implementations using modern data architectures for national and global education reporting.

Research and co-innovation opportunities for EMIS

- Strengthen EMIS – Standardized data schema on global open data standards.
- Innovate data collection – Shift to real-time data, using modern app creation tools to enable modern data collection and leveraging tech activity data for education engagement measures.
- Leverage modern data tools using AI for data integration, data visualization tools and data lakes.