Information and Management system of the national education

New vision of national Education Management
CONTEXT

• **The orientations of the school of the future layed out**

• **PAQUET (Quality, Equity and Transparency Improvement Program)**
  - the need to take advantage of the emerging information society with the increasing important capabilities to produce, share and disseminate information everywhere in time; ICT can enable the education sector to make enormous progress in the areas of access, quality and governance.

• **The 11 presidential decisions from the education and training consultation**
  - the reorientation of the education system towards science, mathematics, ICT, technology and entrepreneurship,
  - improving governance and consolidation of social dialogue for an efficient educational system.

• **The dysfunction and incoherence of the former information system**

urged the Minister of National Education to set up SIMEN in July 2016.
SIMEN is a project that aims to a complete recast of the information system of the Ministry of National Education for a better use of ICT in the design, implementation and monitoring-evaluation of the education policies of the Government of Senegal.

The new integrated information system should allow to enhance the management and capacities of the education system, widespread the use of ITC at school and contribute to the improvement of teaching and learning.
Components of SIMEN

- Software Engineering
- Infrastructure-connectivity-equipment
- Digital Resources
- Support for Change
Standardized academic software package for institutions and schools
PETTAO (Electronic interface for collaborative work, processing, document archiving and organization)
• Implementation of an electronic portal that combines all applications
• Implementation of a single sign on (SSO) allowing users to have access to a bundle of services with a single login and a single password to remember; anywhere and with any device.
Outcome: 1) Identification of every user 2) A unique access point 3) Database consistency 4) Centralized information- 5) Simplification of processes 6) Access to SIMEN Wi-Fi 7) Multiplatform access.
Office365, to strengthen collaborative use
INFRASTRUCTURE

• Servers (Tests & Backups),

• Cloud (AZURE – ORANGE – ADIE),

• Workstations cluster,

• Tablets,

• Cellphones.
Connectivity

• Connecting schools to the national optical fiber of the Government of Senegal

• Setting up another connectivity solution (Satellite or TV White Space)

• Setting up Wifi networks in schools

• Using the 3G/4G of all operators
Connexion haut débit des structures du MEN - Etablissements et Écoles

Antenne UBIQUITI

Liaison Point A Point

Fibre optique de l'Etat

Internet Backbone

ISP Network

Services centraux

Services déconcentrés

Etablissements

Écoles

Point d'accès Wifi
Hostesses/Hosts (Personal mobile devices)

One student/One laptop (managed by Propos)

One teacher/laptop (managed by Propos)

Thin Client, Laptops; mobile devices
Digital and educational resources for all

Accomplished by experienced teachers:

Chemistry: 55 Videos
Physics: 83 Videos
Philosophy: 38 Videos
Mathematics: 14 Videos

www.youtube.com/c/edunumeriquesn

Use with Media:
2000 Tablets
240 Teaching cases
190 Raspberry mini-server
10 Multisite mini-servers
20 Interactive Digital Classes

Beneficiaries:
240/321 High Schools
Perspectives: Digital Education
All schools in Senegal
All levels
All disciplines

www.edunumerique.education.gouv.sn

SenProf accessible via Play Store
Support for Change

Communication

Trainings

Impact and accompanying studies

Management of human resources and behaviours

Management of changes

Change Management
Support for Change

COME-Operations Center of the Ministry of Education

● Ensure availability and accessibility of SIMEN resources
● Single point of contact
  o Incidents
  o Requests
  o General Communications of SIMEN
● Restore normal operation in case of disturbance
● Promote appropriate use of IT resources
● To be distinguished by reactivity, proactivity and prevention of failures
● Means of contact
  o Hotline
  o Skype For Business
  o Email address
Directions and Perspectives

- To promote a very high-speed connection for all institutions, schools, facilitate secure access
- Enable secure access to networking partners
- Manage new cyber crime threats
- National coverage
- Adaptation to national languages for some applications,
- Train focal points dispatched in Academic Inspections for support and security
A new vision of the Management of national education

Thank you for your attention!