



ICT Initiatives & Research Capacity in Senegal

by

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E-Senegal Vision

E-Vision Senegal aims to :

1. Put the citizens and businesses within the concerns of the government,
2. Allow access for all citizens to information,
3. Meet the performance needs of the State and the needs of information for decision makers.

→ **Double transition**

1. **Government to e-government**
2. **Citizen to e-citizen**



E-Senegal Vision

Strategic axis	Creation of Implemented Agency
Infrastructures & Information System	Agence De l'Informatique de l'Etat
ICT policy	Ministère des Technologies de l'Information et de la Communication
Regulatory & Legal Framework	Agence de Régulation des Télécommunications et des Postes
Promotion of investments	Agence Nationale chargée de la Promotion des Investissements et des Grands Travaux
ICT & Teleservices as cluster growth	Secrétariat Permanent Stratégie de Croissance Accélérée



Selected ICT Indicators & Outcomes

- Telecoms operator : 3 (Orange, Tigo & Expresso)
- International Bandwidth : 4,2 Gbps (june 2009)
- Internet users: 1.020.000 (30 juin 2009)
- Number of mobile subscribers : 6.901.492 (31 décembre 2009)
- Mobile Penetration rate : 56,70% (31 décembre 2009)

Population (in millions): 12,2 in 2008

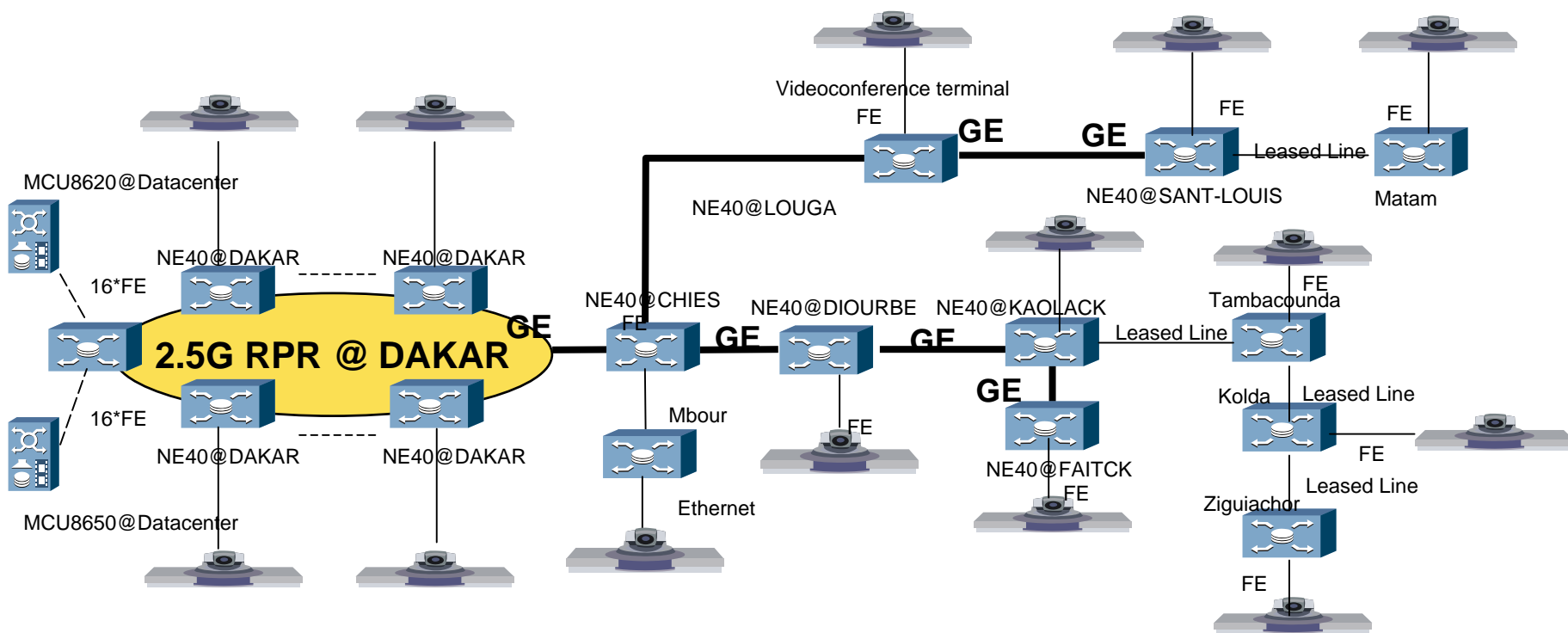


Selected ICT Indicators & Outcomes

- **Physical Interconnection of Government and administration buildings**
 - Interconnect by WIMAX 665 administrative building located in 35 departments
 - Local Network (LAN) in all 665 buildings using WiFi or Ethernet.
 - Videoconference platform between 11 regions
 - Interconnection of the 5 public universities.
 - Data centre building in the Cybervillage
 - 3000 km of own Fiber Optic Cables
- **Universal Service Fund : Consider Internet and telephony as integral part of a universal service**



VideoConference Architecture





Selected ICT Indicators & Outcomes

Legal framework :

- **Law No. 2008-08 on electronic transactions**
- **Law No. 2008-12 on the Protection of Personal Data**
- **Law No. 2008-11 on Cybercrime**
- **Law No. 2008-10 on the orientation law on the Information Society**
- Draft decree on electronic communications made for the implementation of law no. 2008-08 of January 25, 2008 ON ELECTRONIC TRANSACTIONS
- DRAFT decree on the implementation of law no. 2008-12, dated january 25, 2008 on the protection of personal data
- Draft decree on electronic commerce made for the implementation of law no. 2008-08 of january 25, 2008 on electronic transactions
- Draft decree on the electronic certification made for the implementation of law no. 2008-08 of january 25, 2008 on electronic transactions



ICT constraints over the period 2006-2010

- Absence of an observatory to monitor ICT sector;
- **Absence of a reference document for the national strategy for ICT development;**
- Low public financial resources allocated to the ICT sector (lack of access of local private sector to public, inadequate budgets for public structures in charge of ICT);
- Absence of a single strategic framework for ICT governance (authority, human and financial resources);
- Delay in the implementation of the Development Fund of the Universal Service;
- High rates of access to services and facilities Telecoms / ICT;



ICT Capacity Research & Initiatives

1. eGovernment (policies, etc.)
2. eHealth (telemedicine)
3. eScience : Grid Computer (Unesco, HP);
4. e-Infrastructure : National Research and Education Network (ongoing project) ;
5. eLearning
5. Cybervillage project started
6. ICT incubator project with Infodev
7. Science & Technology Park project with ICT as main activity sector



ICT constraints over the period 2006-2010

- Low level of education and equipment for households and individuals in Senegal;
- Difficult access to finance for enterprises in the ICT sector outside Telecom Operators;
- **Virtual absence of research and development of the ICT sector;**
- **Inadequacy of the framework of implementation of Public Private Partnership (PPP) in the ICT sector;**
- Lack of support and promotion of local expertise;
- Absence of forward-looking approach in training;
- insufficiency in the energy supply at national level.



ICT Strategic Axis 2011-2015

1. Establish a strategic framework for development of ICT in the digital economy;
2. Improving the functioning of the administration and facilitation of access to public services in an integrated and secure system;
3. Creating conditions for development of the ICT industry and human resource capacity adapted to market needs;
4. Use of ICT in all sectors to accelerate economic and social development.



Merci
Thank you
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