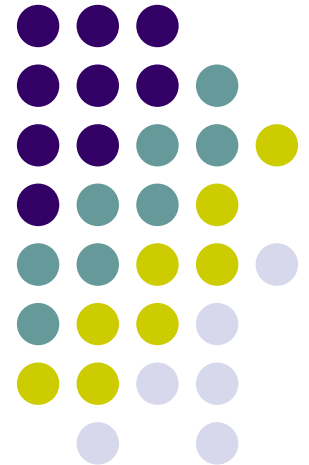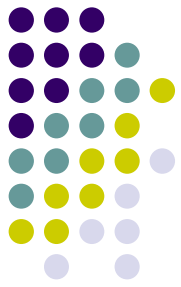# NUR:
ICT Infrastructure, Initiatives and the way forward

NKURIKIYIMFURA K. Didier

Director, ICT Center

National University of Rwanda
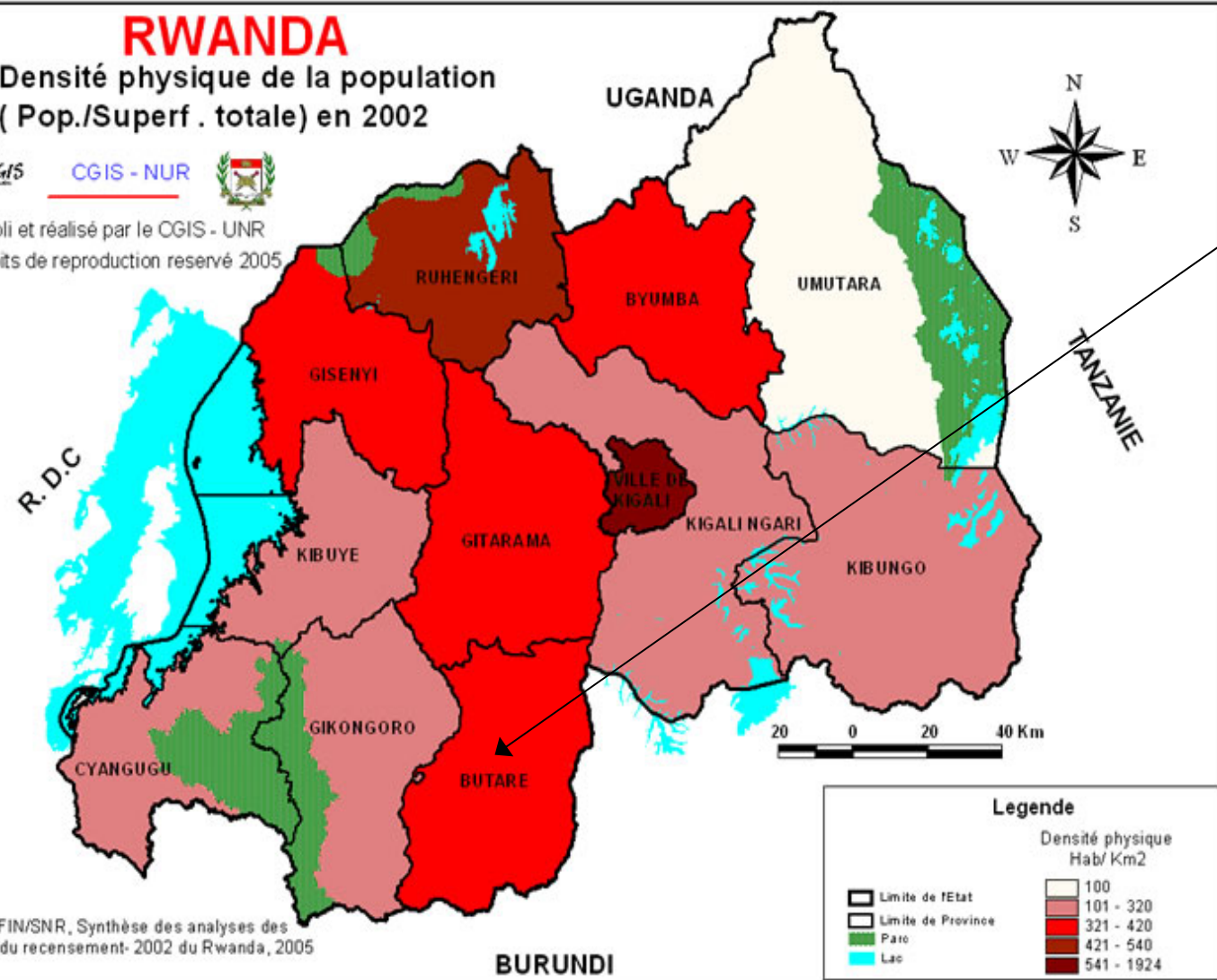
NUR

- **Located at the South Province in Huye District.**
- **Founded in November 1963**
- **7 faculties and 3 schools**
- **450 Teaching Staff.**
- **9000 students**

Bâtiment centrale view from Dept. of Computer Science location

Bâtiment Centrale at NUR Campus

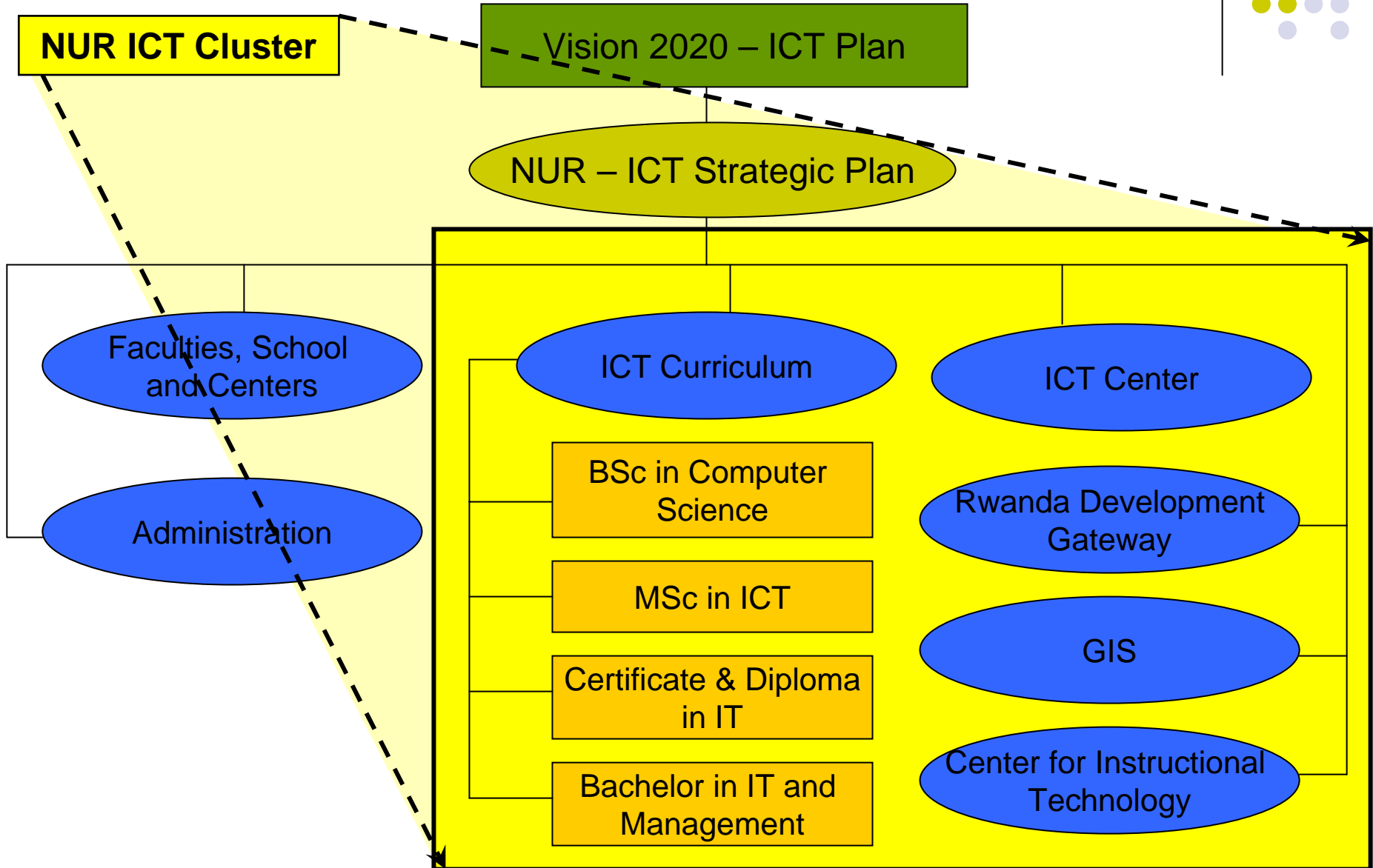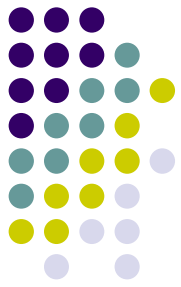
Mamba House - Faculty of Science and Technology

Bâtiment Centrale NightLights

Mamba Building

ICT Initiatives in NUR

NUR ICT Cluster

Vision 2020 – ICT Plan

NUR – ICT Strategic Plan

Faculties, School and Centers

Administration

ICT Curriculum

ICT Center

BSc in Computer Science

Rwanda Development Gateway

MSc in ICT

GIS

Certificate & Diploma in IT
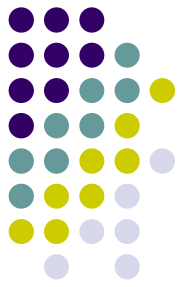
Bachelor in IT and Management

Center for Instructional Technology

The NUR ICT Center

- Established in the NUR in 1995 with a main aim of promoting ICT for teaching and research purposes.
- In charge of:
  - Infrastructure Development (LAN and WAN setup)
  - Acquisition and Deployment of new ICT equipments
  - Database and Software Development
  - Capacity Building (Cisco Regional Academy, Sun Technology lab)
  - Service to the Collectivity:
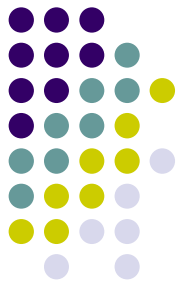   - Telecenters
    - Training
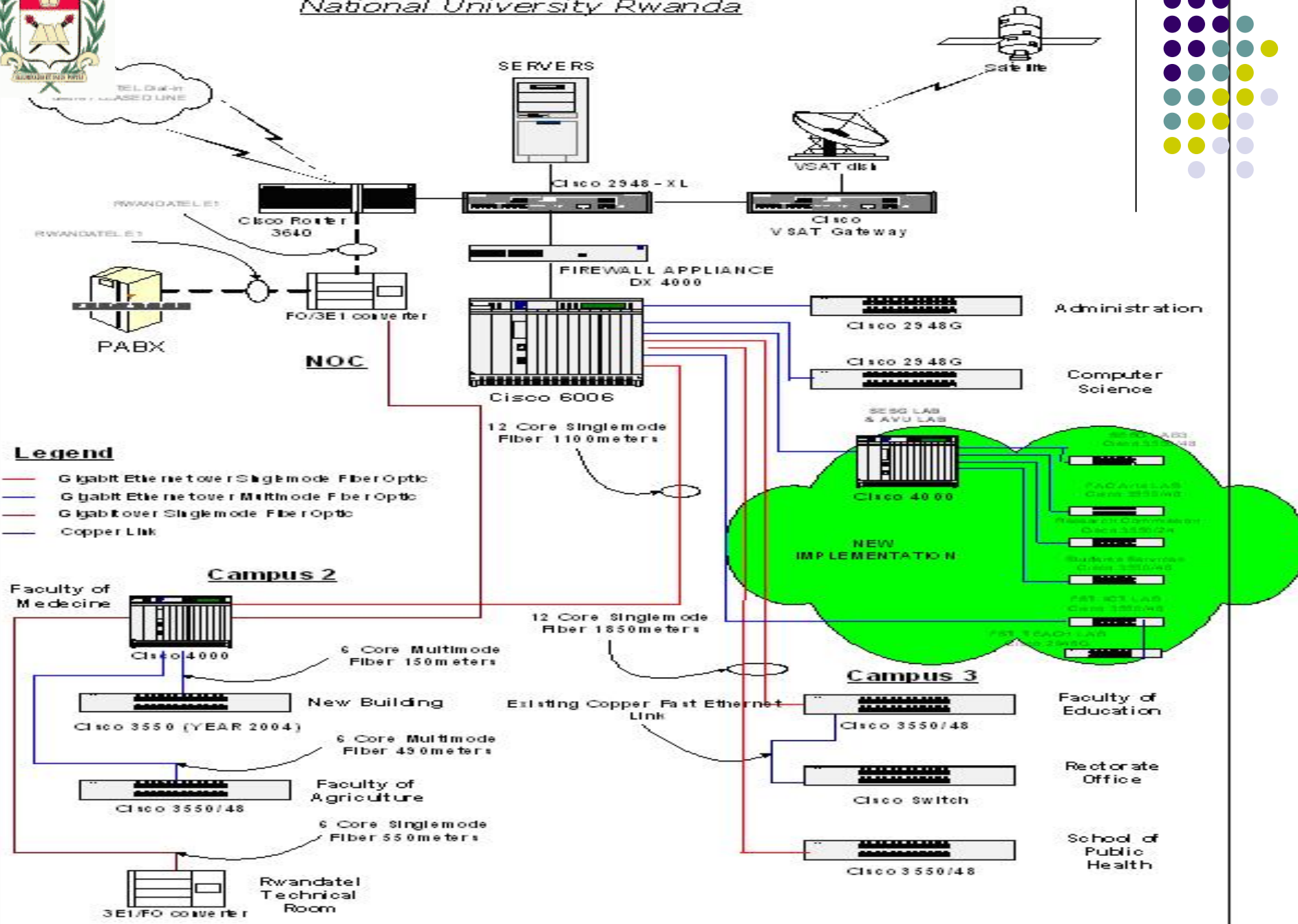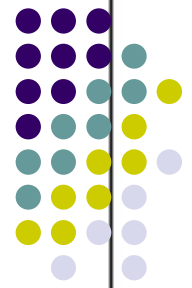
National University Rwanda

NUR Campus Area Network

- 3 main sites and buildings connected trough Monomode and Multimode Optic Fiber
- Wired LAN (Cat 5, Cat 6)
- 1000 Computers and 160 Sun Ray Thin Clients
- More than 35 servers mostly running the Unix Operating System.
- Bandwidth: 2 Mbps Up / 768 Kbps Down
- More than 10 small remote sites

Wireless local loop Access for the NUR
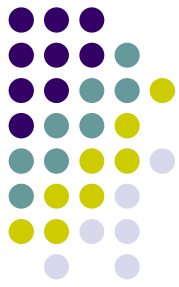
- Why?
  - Increase accessibility (Strategic plan)
  - More cabling request (420 points of connection during the last past 6 months)
  - To provide connectivity to remote NUR sites
  - Service to collectivity: Providing connectivity to 2 pilot sites (1 secondary school, 1 dispensary)
  - Extend the service to the South Province for some private and public institutions, schools, local business and homes.

Expected Outcomes

- Increased access to knowledge and information for the NUR community.

- Better productivity of NUR remote sites.

- Enhanced linkage in the overall process of delivering services to the community.

- Extension of the network using inexpensive and easy to setup networks.

- Contribute to bridge the digital divide by providing Internet access and empower local communities

Further steps

- Wireless:
  - Project Proposal
  - Project funding
  - Project implementation:
    - Site Surveying
    - Deployment
    - Measurements
- Voice over IP for the NUR and the Rwandan Education Network trough Optic fiber

THANK YOU