



# **THE ROLE OF GOVERNMENT INSTITUTIONS IN FOSTERING INSTITUTIONAL ICT RESEARCH CAPACITY AT UNIVERSITY IN UGANDA**

**Dr. Dick M. Kamugasha**

**Director, Technology Development Centre  
Uganda Industrial Research Institute**

**20<sup>th</sup> October 2008**

## IMPORTANCE OF ICT'S AT UNIVERSITIES

---

- Mechanism to stimulate development and commercialization of new knowledge, technologies, products and services
- Supporting development and growth of ICT sector in the country through application and contribution to government policy guidance on investment in ICT related research and innovation
- Building an integrated knowledge economy
- Enhancing research capacities
- Creating a sustainable information infrastructure

## ROLE OF GOVERNMENT INSTITUTIONS

---

- Leadership in spearheading application of ICT
- Advocacy through political circles (parliamentary committees & MICT)
- Effective policies for exploitation of ICT (parliamentary committees & MICT)
- Establishment of complementary legal framework (MOJ, parliamentary committees & MICT)

## ROLE OF GOVERNMENT INSTITUTIONS ...

---

- Ensuring information security (MOJ)
- Regulation of service providers e.g. (tariff controls)
- Monitoring of end user needs
- Funding
- Capacity building for enabling environment
- Identification of ICT gaps and needs
- Infrastructure development through budgetary allocations and development partner financing

## RELEVANT GOVERNMENT INSTITUTIONS

---

- PRESIDENTS OFFICE
- PARLIAMENT
- MINISTRY OF EDUCATION AND SPORTS
- MINISTRY OF ENERGY AND MINERAL DEVELOPMENT
- MINISTRY OF FINANCE, PLANNING AND ECONOMIC DEVELOPMENT
- MINISTRY OF ICT
- MINISTRY OF JUSTICE
- MINISTRY OF LOCAL GOVERNMENT
- MINISTRY OF FOREIGN AFFAIRS
- UGANDA COMMUNICATIONS COMMISSION
- SCIENCE TECHNOLOGY AND INNOVATION INSTITUTIONS

## BENEFITS OF ICT AT UNIVERSITIES

---

- On-line learning
  - Enables provision of education services to more people
  - Financially affordable
  - Will assist in offering off-site graduate and post-graduate education to the large number of students coming through UPE and USE programmes

# BENEFITS OF ICT AT UNIVERSITIES

---

- Digital libraries
  - Enables provision of information resource services to more people
  - Financially affordable
  - Building archive of modern journals and periodicals which solves problem of limited access to books
  - Timely delivery of information in digital format

# BENEFITS OF ICT AT UNIVERSITIES

---

- Information Databases
  - Archive of digital teaching materials
  - Inventory of academic experts
  - Inventory of funding agencies
  - Research papers, patents and innovations
  - University statistics

## BENEFITS OF ICT AT UNIVERSITIES

---

- Financial management and administration
  - Dynamic staff and student archives
  - Electronic staff payrolls
  - One stop centre for receipt of tuition fees
  - Automatic generation of certified transcripts
  - Efficient management of individual departments
  - Rational allocation of financial resources
  - Efficient management and dispensation of project funds
  - Improved institutional accountability through digitised transactions and records (Important in donor funded projects)

## BENEFITS OF ICT AT UNIVERSITIES

---

- Facilitation of contact with other universities
  - For effective information and knowledge sharing
  - With local, regional and international dimension
  - Building archive of modern journals and periodicals which solves problem of limited access to books
  - Timely delivery of information in digital format
  - Allows for institutional benchmarking (curriculum and research agenda)

## OUTPUTS

---

- More relevant R & D and innovations through access to global information
- Increased private sector interaction and involvement in applied research agenda, ideally through university website portals
- Timely delivery of research outputs
- Efficient financial management and administration
- Improved transparency in project management

## ROLE OF GOVERNMENT STI INSTITUTIONS

---

- Identification of ICT gaps and needs
- Partnerships in incubation of university ICT startups
- Partnerships in technical and hands on ICT Training
- Sharing of specialized information and expertise
- Sharing ICT derived research outputs
- Performing collaborative ICT based research



**Uganda Industrial Research Institute**  
*A Lead Agency in Industrialization of Uganda*

# INDUSTRY INFORMATION SERVICES (IRC)





# BUSINESS DEVELOPMENT SERVICES (BDC)





# E-BUSINESS PROMOTION