

The Uganda Pre-CHOGM Symposium on S & T

Theme: S & T as a Mechanism for Societal Change

Sub-theme: Engagement between the Tertiary
Education Sector and the Private Sector in S&T

Articulation of Supply and Demand; Industry
Perspectives

THE EDUCATION SYSTEM

- Tertiary
- Secondary
- Primary

TERTIARY EDUCATION

HIGHER EDUCATION

VOCATIONAL TRG

TECHNICALEDUCATION

UNIVERSITY
DEGREE
PROGRAMMES

ADVANCED
DIPLOMA
PROGRAMMES

Skills Development

- Vocational Training
- Technical Education

Higher Education

- Search and Acquisition of Knowledge
- Generation of new Knowledge [Research]
- Technology Development [Products and Services]
- Innovation
- Technology Transfer [acquisition adoption, assimilation, internalisation, adaptation and innovation]

SCIENCE AND TECHNOLOGY

- Science
 - Natural science
 - Social Science
- Technology
 - Goods
 - Services

The R & D System

- R & d
- r & D
- R & D
- Public enterprise in colonised countries
- Investment: 3% GNP in rich countries and less than 1% GDP in poor countries [0.18 % GDP in Tnzaniain 2005].

Public/Private Sectors

- Meaning
- Role
- Transformation
- Partnership

INDUSTRY

- Knowledge user to produce goods and services
- Skills-utilisation and development
- Innovation-Demand & Supply: Marketing
- Apprenticeship-internship, pupilage, attachment
- Field testing of prototypes
- Generation of new knowledge by research

Role of Engineering-based Tertiary Education Institutions

- Human resource development
- Generation of new knowledge
- Search for knowledge
- Management of knowledge
- Technology development
- Technology innovation
- Technology transfer
- Technology supply
- Response to technology demand

Demand Driven Tertiary Education

- Prerequisite for the development process
- Traditional public sector drivers
- Proven and emerging role of private sector
- Private sector demand for output of tertiary education
- Synchronising curricula with demand
- Emerging role of private sector in industry
- Linkage between industry and tertiary education for domestic and foreign markets

Globalisation and the Private Sector

- Response to market economic policies
- Competition for markets
- Profit incentives
- Borderless trade; WTO

Industry and the Private Sector

- Growing attractiveness in investing in industry
- Growing demand for skills in industry
- Enlarging markets
- Public policy support

Private Sector and Tertiary Education

- Traditionally an exclusive domain of the Public sector
- Availability of clientele from failed public services
- Attractiveness in social sciences; arts, management commerce, law and religion
- Constraints in natural sciences; capital, operations, lack of incentives
- Increasing number of small private sector universities
- Conversion of schools/colleges into universities

Private Sector in R&D

- Limited participation
- Lack of incentives
- High cost investments
- No guarantee on return
- Drive for short term gains

CONCLUSION

- S&T is the currency for development
- Tertiary education is a prerequisite for development
- Tertiary education is a fountain for knowledge
- Tertiary education output for application of knowledge
- Tertiary education has the potential to create supply and meet demand

Conclusion...

- Linkage between tertiary education and industry is a necessity
- Globalisation and the role of the private sector for development is reality
- Private sector investment in tertiary education is a necessity to complement the public sector
- Incentives for private sector participation in tertiary education is a necessity