

ANALYSIS OF THE PRESENTATIONS – PANEL 4

Terminology

- Science and Technology (S & T)
- Research and Development (R & D)

Kenya

- Science, Technology, Innovation and Technical Education (STI & TE).

Presentation 3 – Dr. Muriisa Robert

Topic: Institutional Capacity

Points raised	Strategic Issue
<ul style="list-style-type: none">-Identification of right institutions-Definition / mandate of right institutions	Policy Policy
<p>Types of Institutions</p> <ul style="list-style-type: none">-Coordination-Reward systems-Legal / quality control	Policy
<p>Governance and accountability institutions</p> <p>Supportive environment</p>	Governance

Cont'd

Points raised	Strategic issue
Budgetary capacity	Investment on STI & TE
Co-ordination among institutions	Collaboration / Linkages
■ Demand driven Science ■ Community utilization of indigenous knowledge and Research findings	Communication

Presenter : Mr. Abraham Owino

Topic: Statistics in STI

1. Expand / clarify on application of statistics on STI in Africa.

Modelling sciences

- Disease modelling
- Population models
- Predictive models
- Diagnostic modes (ECF-X-pert)
- Vet-Test kit)
- Manufacturing and Processing Industry
- Natural catastrophe prediction
- Tourism Industry Management

Cont'd

2. Points raised	Strategic Issue
Types of Institutions <ul style="list-style-type: none">■ Global■ Regional■ National■ Stakeholders■ Coordination	Collaboration / Linkages
Statistical Associations Conferences	Collaboration / Linkages

Cont'd

Points Raised	Strategic Issue
Infrastructure Active Dynamic Committees	Capacity building <ul style="list-style-type: none">■ Human■ Physical facilities including equipment■ Financial
Legal Framework and structure of NSS	Policy Governance
Data Quality and dissemination	Investment on STI

Cont'd

Points Raised	Strategic Issue
Decentralisation of Uganda's NSS Decision Making procedures	Governance
Strengthening Uganda's NSS Gender Issues in Statistics	Governance and Policy

Presenter: Prof. Ragen Aduma

Most points raised were similar to the previous presentations

New Points	Strategic Issue
Political will	Governance Policy
Training and retention of staff (Good enumeration)	Investment on STI

Missing ideas from the 3 presentations

Bench marking and Global competitiveness
Centres of excellence or thematic areas e.g.

- Biomedical statistics
- Agricultural statistics
- Meteorological data analysis
- Criminology / military

Kenyan Example

Institution arrangements should be explicit / succinct

Split into:

- Primary (Science and Mathematics)
- Tertiary
- Higher Education

Tertiary:

- Polytechnics
- Institutes of technology

Universities:

- Broad based
- Universities of Science and Technology

Centres of Science and Technology based on the regions major economic activity, e.g.

Agriculture	Central Rift valley
Dairy	Central Rift valley
Manufacturing and Processing	New Industrial towns
ICT	In cities and major towns

JKUAT – experience – Initially – Agricultural Technology – now offers commerce related courses

Kenya's Revised Institutional Research Management Structure

1. Permanent Secretary
2. Director of Administration
3. Science and Technology Secretary
4. Directorate of Research Coordination, Management and Development
5. Directorate of Technical, Industrial, Vocational and Entrepreneurship training (TIVET)
6. Directorate of STI Accreditation and Standard Assurance
7. Corporate relations office

Cont'd

8. Semi- Autonomous Government Agencies / Public corporations

- a. National Council for Science and Technology
- b. TIVET Authority
- c. STI Foundation (Ksh 200m Endowment fund already allocated)
- d. Centre for STI Education and Training
- e. Centre for Innovation

Conclusion

1. SWOT ANALYSIS of all the presentations should be done by the secretariat

1. **Questions**
 - a. What advantages of the pre-CHOGM conference recommendations can we take to convert the current STI weakness in Africa to strengths?
 - b. How can we utilise the opportunity of hosting CHOGM in Uganda to manage the threats on STI in Africa and convert them to strengths?

A.O. B. – Yesterdays Panel 3

1. STI – Trait Identification from an early age. e.g.
 - a. Selection of footballers
 - b. Performers
 - c. Musicians
2. Impact of Free Primary and Secondary education on STI with respect to teacher / student ratio and contact in science practicals.

MAIN SPEAKER – Prof. Sospeter Muhongo

Points Raised	Issues addressed
1. Linkages between	Research and STI
2. Communication	From African Publication
3. Competitiveness	Types of journals for publication Curriculum change
4. Governance	Institutional arrangements Location of President's office
Linkages Investment on STI	Public – Private sector partnership