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Current Status of the Kenyan National Science, Technology and Innovation System - 22nd March, 2012

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Agenda

- ❑ Role of Science and Technology in the achievement of Kenya Vision 2030
- ❑ The Current Kenya National Innovation System
- ❑ Characterization of the proposed Kenya National Innovation System
- ❑ Policy Priorities for Reforming Kenya's National Innovation System
- ❑ The Institutional Framework
- ❑ The Layout of the Institutional Framework

The role of ST&I in the achievement of the Kenya Vision 2030

- ❑ Creating a Knowledge Economy
- ❑ Promoting Competitiveness in Productive Sectors of the Economy
- ❑ Creating Enterprises and Employment
- ❑ Expanding Industrialization
- ❑ Enhancing the Quality of Life through Innovation.
- ❑ Developing Scientific Human Resources
- ❑ Expanding National Infrastructure
- ❑ Promoting an Information Society
- ❑ Optimizing on the Sustainable use of the Natural and Environmental resources
- ❑ Commercializing Research Findings

The Current Kenya National Innovation System

- ❑ The existing policy framework -Elaborate institutional arrangement for public R&D.
- ❑ Conceived in line with most international practices in the 1970s. (Science and Technology Act Cap 250 of 1977)
- ❑ Researchers working 'silos' losing the benefits of synergy and networking.
- ❑ Inadequate funding from the Exchequer - Overreliance on external funding donor driven projects at the expense of the national needs.
- ❑ Existing policy framework does not provide guidance on priorities for S&T and does not address innovation.

Characterization of the Proposed Kenya National Innovation System

- **Demand for Science and Technology**-enhanced competitiveness, pressure of competition “technology deepening” and increased interaction.
- **Education and Research System** - Relevant and adequate available for absorption into the economy.
- **The Business System**-Localized innovation critical in targeting Kenya specific challenges.
- **Intermediate Organizations** - purveyor or developers of knowledge transmit feedback to the education and research system on the priorities of the business system.
- **Infrastructure** - finance, IPR, information, incubation and commercialization infrastructure
- **Framework Conditions**- Fiscal, taxation policies and levels of trust and (absence of corruption)

Policy Priorities for Reforming Kenya's National Innovation System

- ❑ **The institutional re-engineering :** Filling in the policy formulation and implementation gaps , addressing implementation weaknesses inherent in the current KNIS
- ❑ **The strategic resource mobilization:** Harnessing the resources needed to support the mainstreaming of ST&I in the Kenyan economy.
- ❑ **The strategic knowledge and technology governance:** Generation and management of IPR, technology development, transfer and diffusion, modernization of indigenous resources, practices and knowledge.
- ❑ **The cross-cutting issues:** Strategic partnerships for enhanced linkages and collaboration, integrated Environment and Natural Resources Management and the application of effective public communication and advocacy for ST&I.

The Institutional Framework

Ministry responsible for Science, Technology and Innovation (National Government)

- Policy planning and funding of the ST&I sector
- coordinate the implementation of flagship programmes across all sector ministries, universities and research institutes and centres with respect to science, technology and innovation.

The Institutional Framework

National Commission for Science, Technology and Innovation (NCSTI):

- Regulate and assure quality in the ST&I sector and advise Government on matters of science, technology and innovation.
- ST&I offices in Counties to carry out the key mandates (communicating R&D issues to National Government, promoting STI in the Counties, forming partnerships with local industries and institutions of learning).

The Institutional Framework

Kenya National Innovation Agency (KENIA):

- ❑ Develop and manage the National innovation system.
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- ❑ Branches in Counties to promote innovation, scouting for innovations, protecting IP, and facilitate incubation and commercialization.

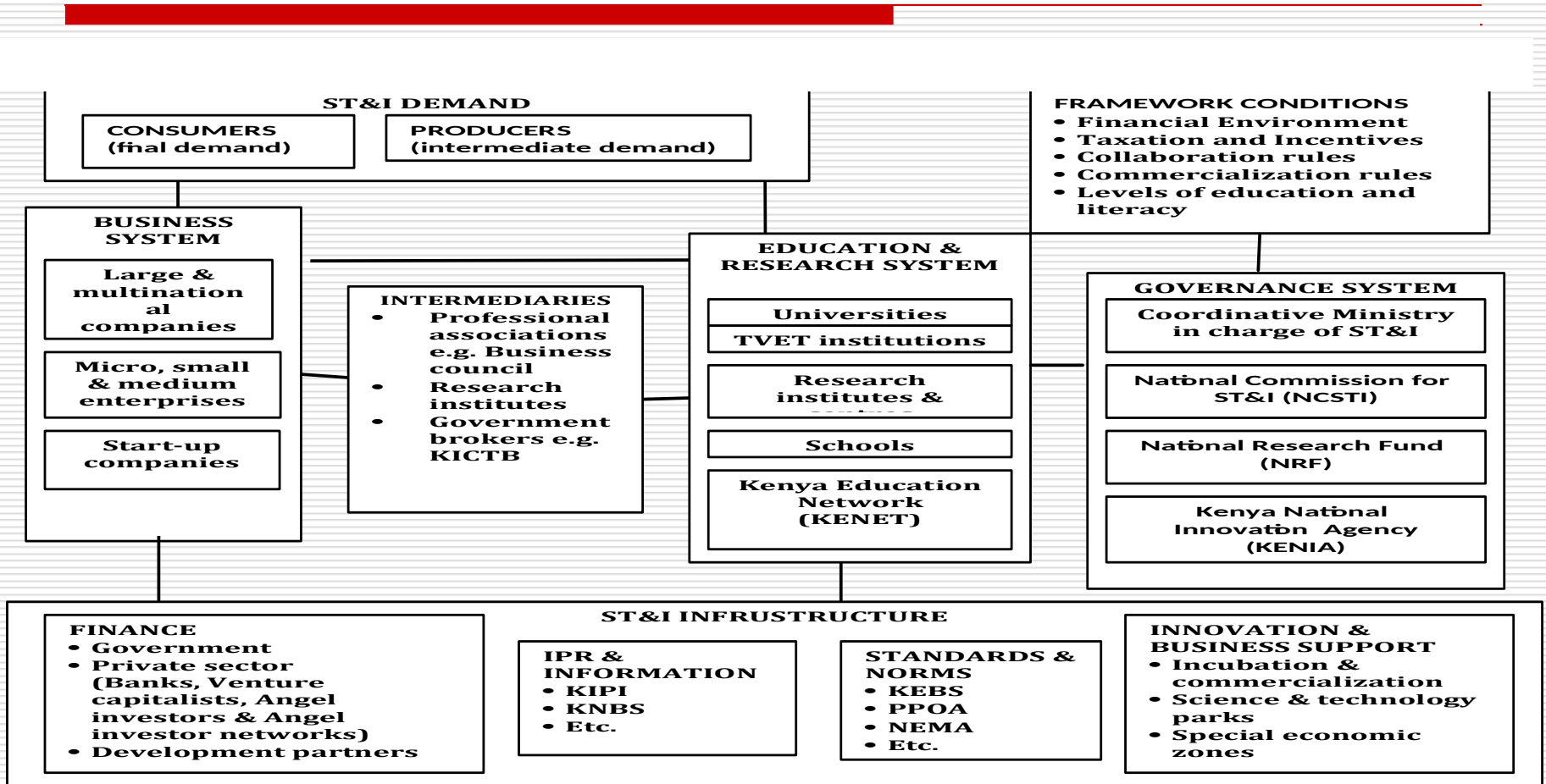
The Institutional Framework

National Research Fund (NRF):

- Mobilize and manage financial resources for the Kenya National Innovation System
- Currently, the NCST manages a research fund which by 2011/2012 financial year had been allocated Kshs 400 million (5,128,205.13 USD)

The funds will be transferred to NRF to form the seed capital for funding research.

Layout of the Institutional Framework



Thank You

**MINISTRY OF HIGHER EDUCATION, SCIENCE
AND TECHNOLOGY - KENYA**

