



# **NIGERIA'S SCIENCE, TECHNOLOGY AND INNOVATION INDICATORS**

## **How, Lessons Learnt & Sustainability in Nigeria**

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# PRESENTATION OUTLINE



- Nigeria Facts File
- Background
- How it was done
- Lessons Learnt
- Institutionalisation & Sustainability
- Conclusion



# A BRIEF ABOUT NIGERIA



## Nigeria – Some fact file

- Political Independence: 1960
- Population: Est. 150 million (2008)
- Land area 923,000 sq km
- Governance Structure: Presidential System
- No of States: 36 + FCT

## Economy

- 6th largest oil producer (OPEC)
- GDP per capita: US\$ 2400 (2010)
- Literacy: 80% (2008)
- Telecom Subscribers: 110 million (Dec 2010)
- Tele-density: 63% (Dec. 2010)
- External reserves: US\$37b (2010)
- Consumer Inflation: 11.8% (2010)
- Unemployment: 19.7% (2009)





# BACKGROUND



- Conceived by NACETEM in 2005 to serve as the basis for the effective management of Nigeria's STI system
- Integrated into NEPAD ASTII in 2008
- 1st edition in R&D/Innovation surveys completed; 2nd edition to begin in September 2011

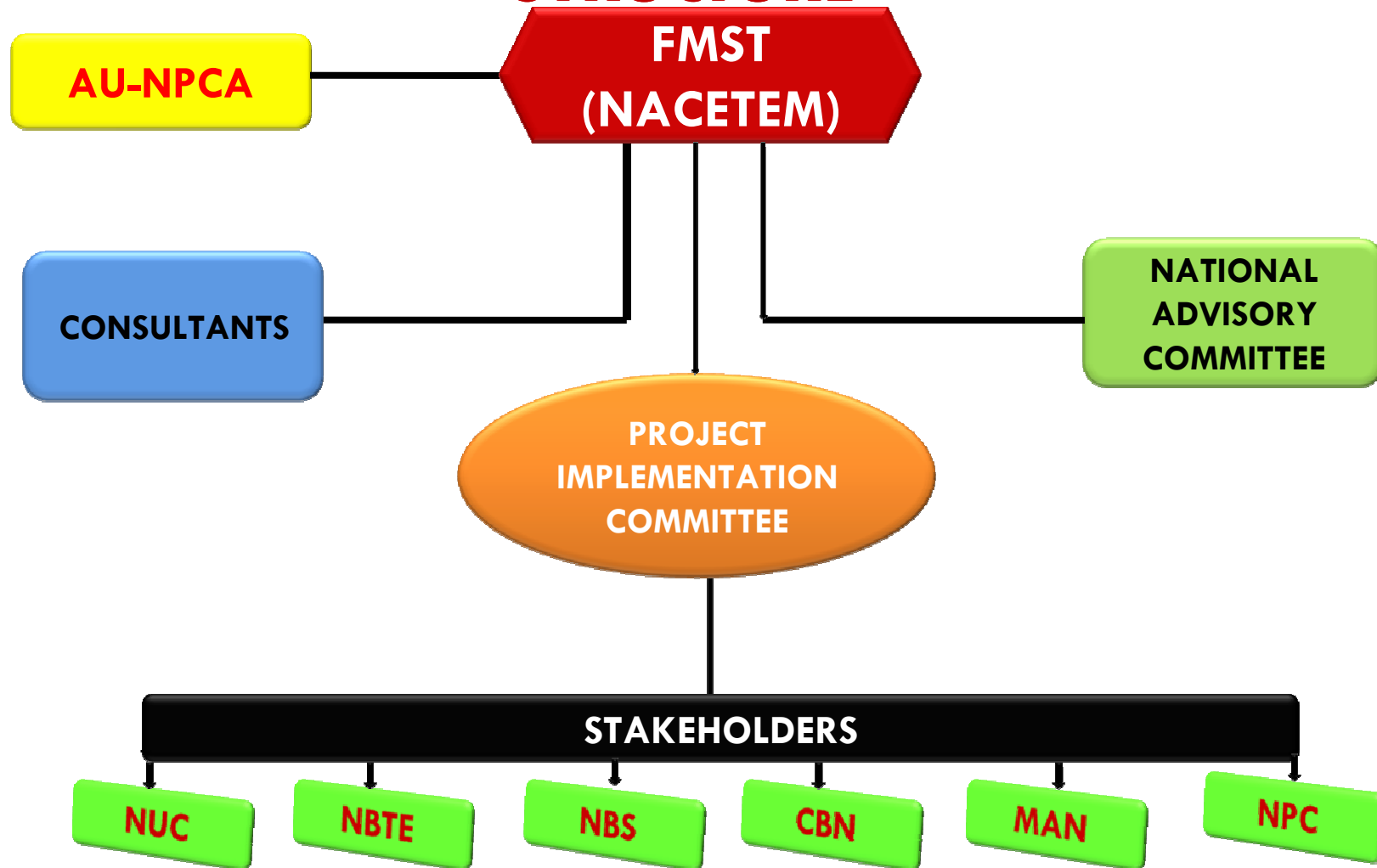


# BACKGROUND

- Conducted both the R&D and Innovation Surveys
- R&D Survey conducted in two sectors:
  - Government: 2007 Financial Year
  - Higher Education: 2006/07 Academic Year
- Innovation Survey: 2005-2007
  - Service sector
  - Manufacturing sector



# STI INDICATORS PROJECT MGT STRUCTURE





# Nigeria's Higher Education and Research System



- 117 Universities
- 71 Polytechnics
- 61 Monotechnics/Colleges of Agriculture
- 75 Research Institutes and Centres



# Innovation Survey



## 1 500 firms

- Manufacturing sector: 1 000 firms
- Service sector: 500 firms
- Response rate: 48.5%



# Conduct of the Surveys



- Structured questionnaire with open and closed-ended questions.
- Letters of support from the HMST, ES-NUC and SG-NBS
- Questionnaires were delivered by hand and lodged at the office of the Heads of the institutions/companies
- Follow –up was through repeated phone calls and personal visits to the designated respondent in each institution



# Lessons Learnt



## Capacity Building

- Better understanding of R&D/Innovation terminologies e.g. researchers, R&D, innovation types, etc.
- Clear understanding of methodology of measuring R&D/Innovation
- Better understanding of estimation of Full Time Equivalent (FTE)



# Lessons Learnt



## Capacity Building:

- Capacity building on methodology of measuring R&D output e.g. bibliometrics analysis
- Rigorous training of enumerators for the 2nd edition to address some of the shortcomings in the first edition.



# Lessons Learnt



## Need for:

- Stakeholders Workshop before next round
  - Discussion of results of first round
  - Sensitisation for second edition
- Partnering with the NUC, relevant research institutes and the private sector on proper and detailed record keeping with regards to R&D and Innovation.
- Inclusion of polytechnics/monotechnics in R&D Survey



# Sustainability & Institutionalization of ASTII



- Commitment to regular conduct of the surveys
- Funding - Annual Budgetary Provision



# Sustainability & Institutionalization of ASTII



- Establishment of a dedicated department within NACETEM (FMST) to manage the project
- Completion of ongoing process with the NBS of making the STI indicators part of the National Statistical System
- Mainstreaming STI Indicators outcomes into National Planning Processes: FMST (STI policy), NPC (vision 20-2020) & NBS (NSS)



# THANK YOU