

**Sixth SG13 Regional Workshop for Africa on
“Standardization of future networks: What opportunities for Africa?”
(Abidjan, Côte d’Ivoire, 26-27 March 2018)**

**Zambia National Standardization
Organization Audit**

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Presentation Outline

- Country Location and Statistics
- Overview of ICT sector
- Standardization Legal Mandate
- NSO Structure and TC Topics
- Legal Framework and other Issues
- TC Performance
- International Participation
- Challenges
- Future Outlook

Country Location



Overview of the ICT Sector

2017 Q3

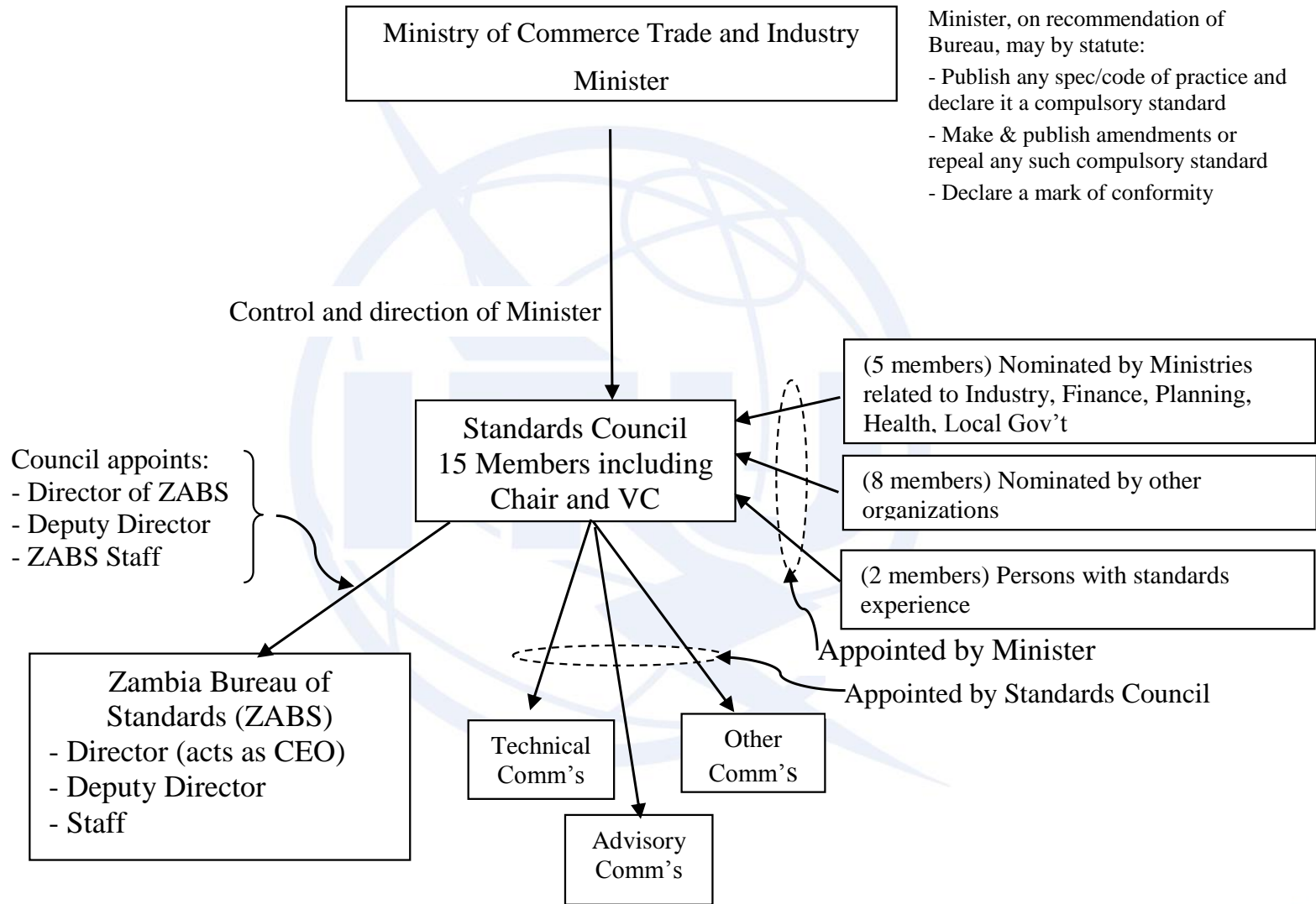
<u>Indicator</u>	<u>Number</u>	<u>Penetration Rate</u>
Mobile Subscription	12,971,354	79.07%
Fixed Line Subscription	100,448	0.61%
Mobile Internet Users	7,148,325	43.57%
Fixed Internet Subscription	18,913	0.12%



Standardization Legal Mandate

- ZABS
 - The Standards Act of 1997
 - National Quality Policy 2010
- ZICTA
 - ICT Policy of 2006
 - ICT Act No. 15 of 2009
 - ICT Standardization Policy of 2011 (By ZICTA)

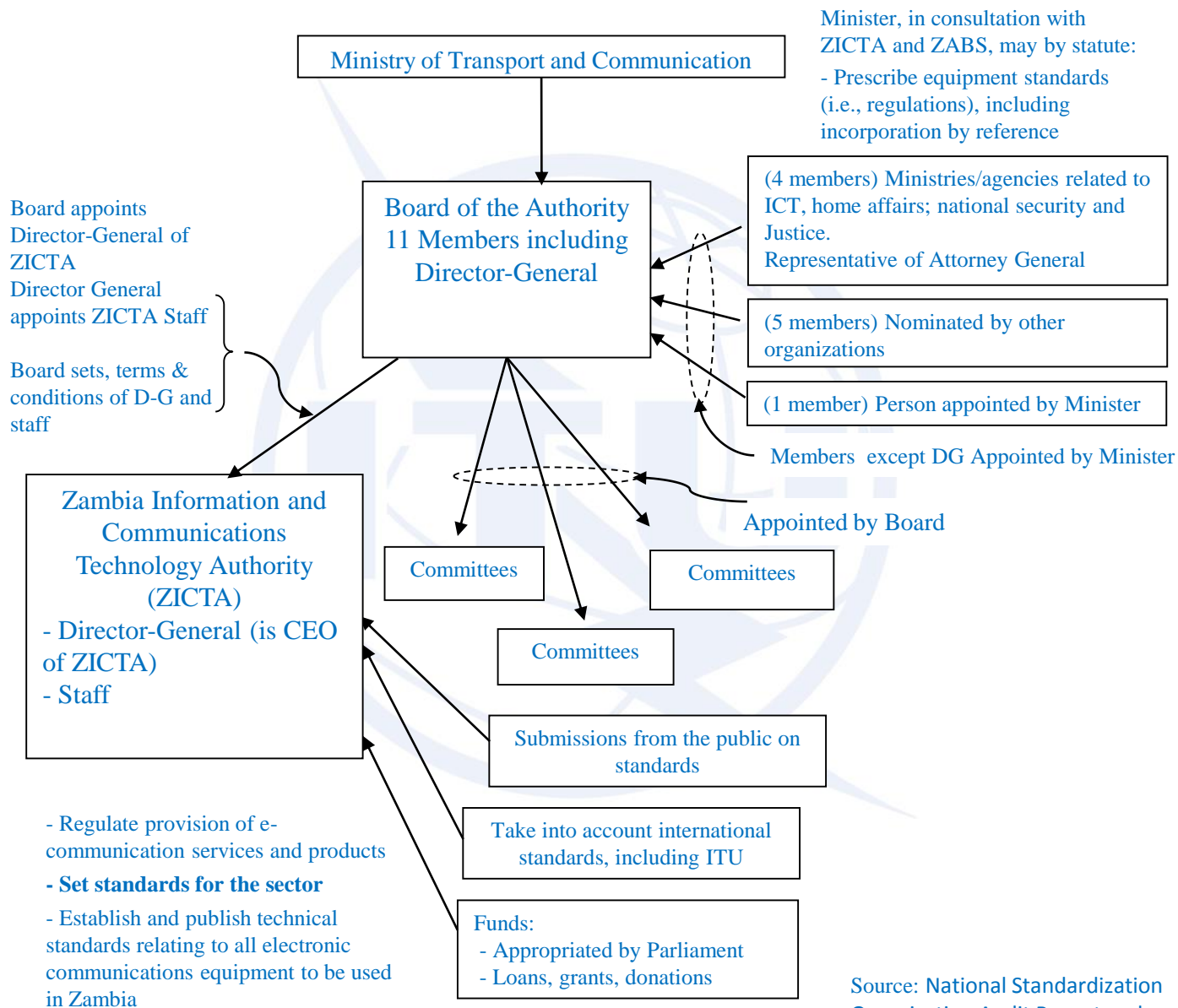
Legal Framework ZABS



Source: National Standardization Organization Audit Report and Recommendations for Zambia by Gary Fishman



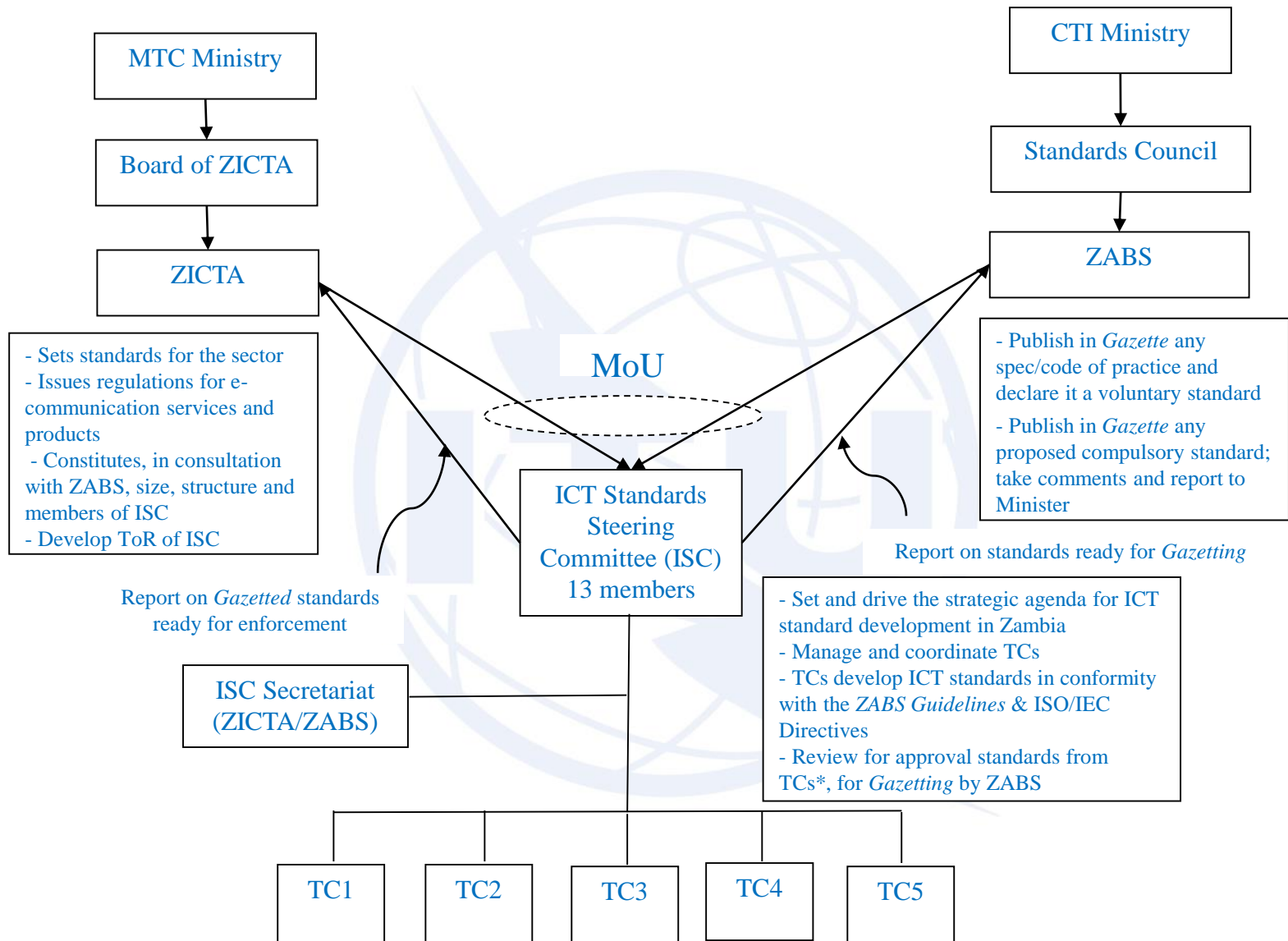
Legal Framework - ZICTA



Source: National Standardization Organization Audit Report and Recommendations for Zambia by Gary Fishman



MoU – ZABS & ZICTA



* Developed, Adopted or Adapted by TCs



NSO Structure and TC Topics (2015-2016)

ICT Standardisation
Steering Committee

ISC Secretariat
(ZICTA/ZABS)

TC1 - ICT
Environment &
Climate Change

TC2 – IoT
Applications
and Multimedia
Services

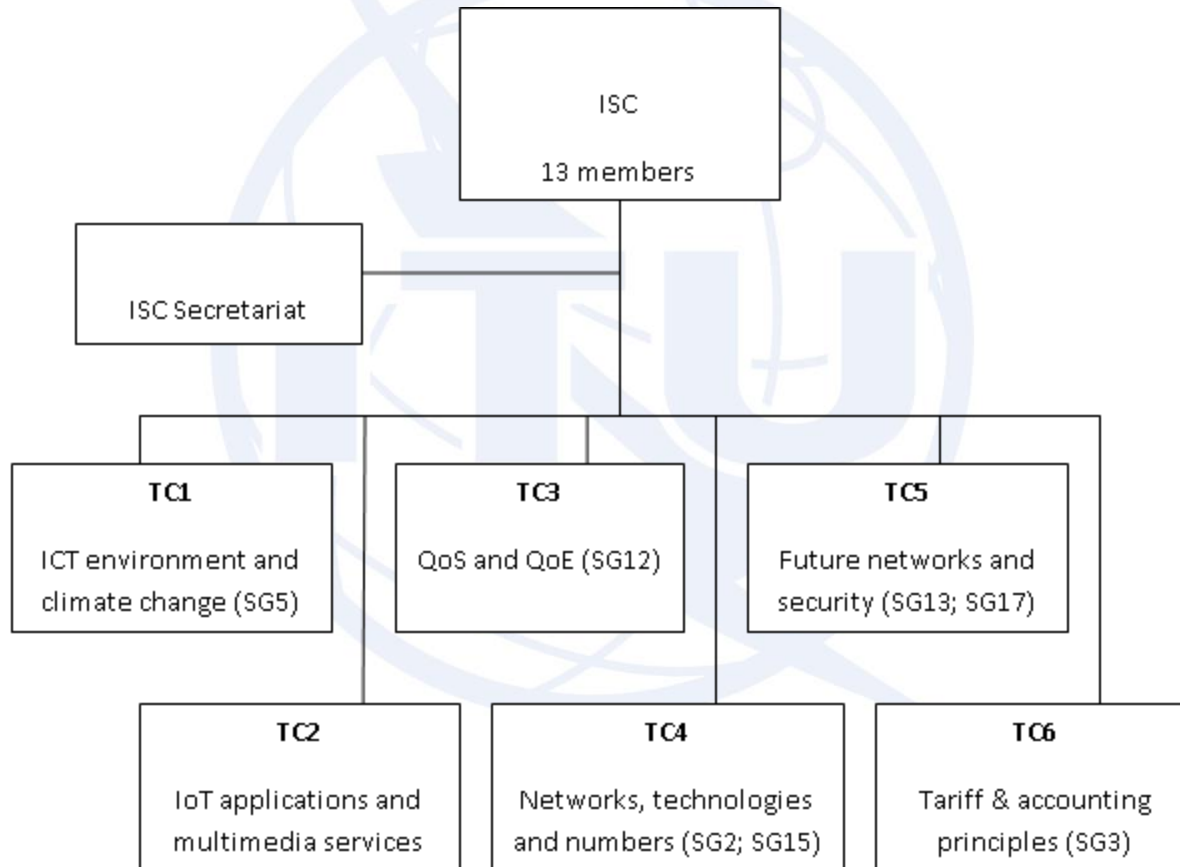
TC3 - QoS &
QoE

TC4 – Networks,
Technologies
and Numbering

TC5 – Future
Networks &
security



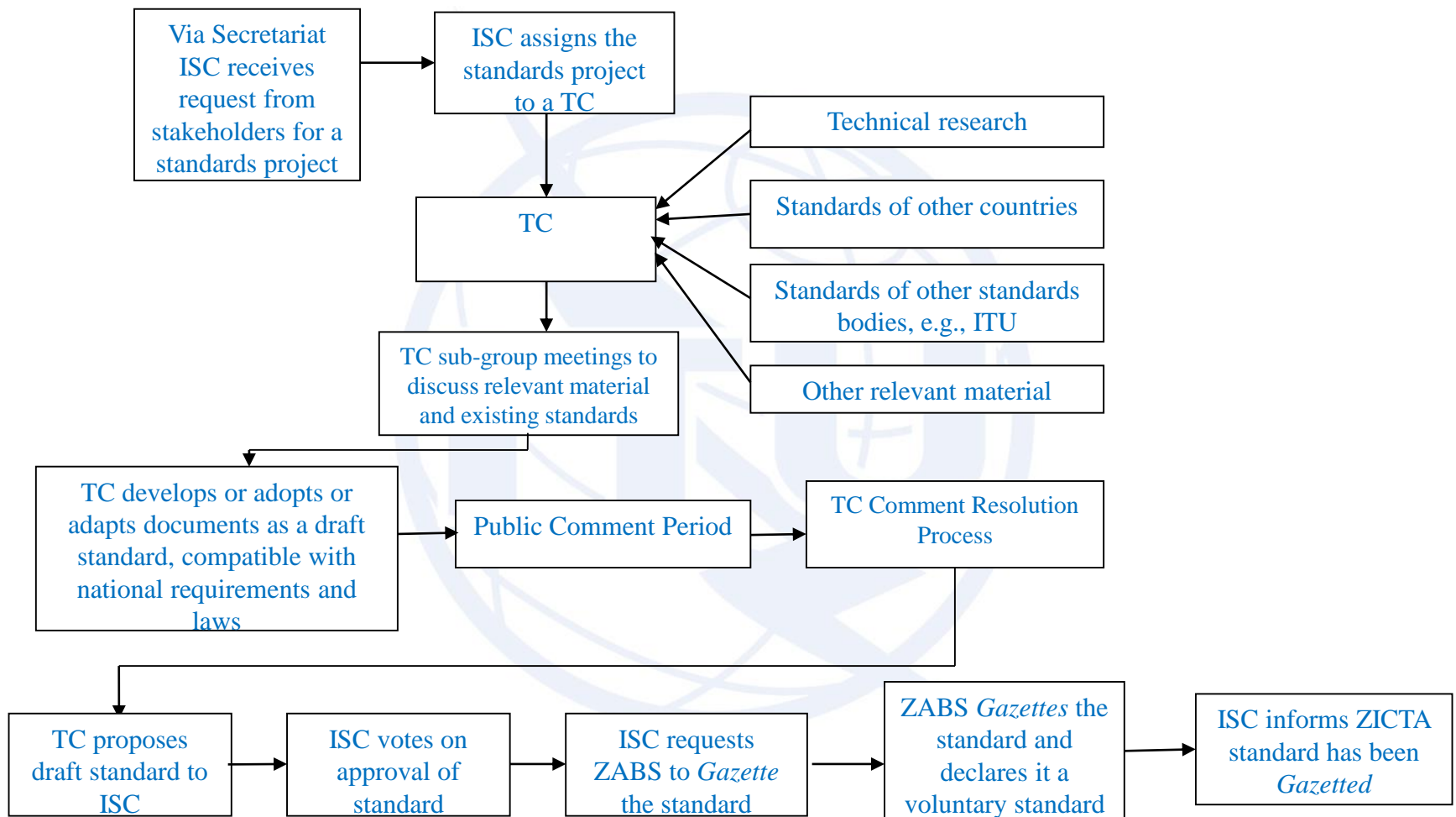
Recommendation TC Structure



Source: [National Standardization Organization Audit Report and Recommendations for Zambia by Gary Fishman](#)



Down Stream Standardization Process



Participation in ITU Meeting

- There is current no procedure for TC members to participate in ITU meetings.
- However, ZICTA has in the past sponsored TC members to ITU meetings held in Zambia
- Standardization is currently downstream (from SDOs to National)
- ZICTA participate in ITU meetings and attend Study Groups of interest



International Participation - ZICTA

- The key study groups that have since been identified as being appropriate to the Zambian ICT environment include:
 - ITU-T SG2: Operational Aspects
 - ITU-T SG3: Economic and policy issues
 - ITU-T SG5: Environment and Climate
 - ITU-T SG12: Performance, Quality of Service (QoS) and Quality of Experience (QoE)
 - ITU-T SG13: Future Networks Including cloud computing
 - ITU-T SG15: Transport, Access and Home
 - ITU-T SG16: Multimedia Services
 - ITU-T SG17: Security
 - ITU-T SG20: Internet of Things (IoT) and its Applications including Smart Sustainable cities



Challenges

Human Resources

- Standardisation know how
- Immediate, short and long term HR needs?

Infrastructure

- Resources & Investment
- Technical Infrastructure (R & D)
- Inadequate internet connectivity

Awareness

- Information availability and access
- Rapid Technology and Changes
- Standards Maintenance & Management

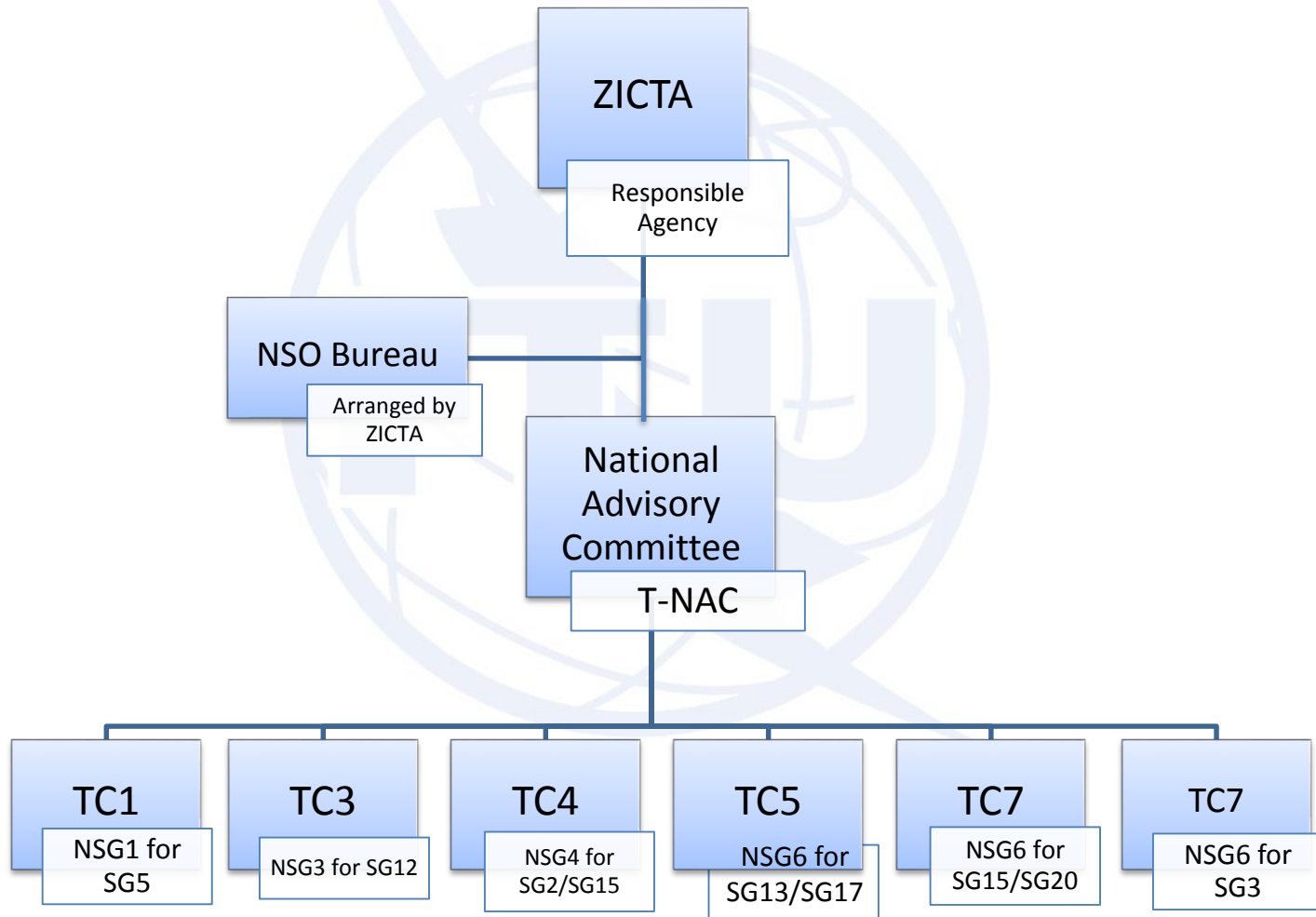
Collaboration

- Local / National level [No Industry Participation]
- Regional [SADC & COMESA]
- International [Participation in Intl orgs]

Budgetary Resource

Upstream Standardization Process

Proposed Zambian National Standardization Organization for ITU-T (NSO)



Achievements

- Established legal structure that can easily be recognized as an NSO
- Aligned TC activities with those of the ITU-T
- Established ties accounts for TC members
- Final stages of establishing NSO website
- Regulatory Authority impose certain standards such as those for Security



Outstanding Steps

- More effort is required by Zambia in standards development participation
 - Skills Training
 - Set up National Standards Organizations (NSOs)
 - Establish autonomous funding for NSO
 - More participation at international level
- Target standards that are relevant to local needs
- Strengthen sensitization





CCITT / ITU-T