

Thematic Session 4: The evolution of science systems as a prerequisite for the six transitions

My reflections for panel session questions and with a focus on systemic inequalities in global scientific practices

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- First, appreciation to the ongoing science related efforts both at national and global levels (UNDESA, UNECA, EC/JRC, Horizon Europe, etc...)
- Why systemic inequalities in global scientific practices globally: Reasons could be both internal and external
 - Internal reasons related to Ethiopia/Africa
 - ✓ Most developing nations with **poor R&I landscape ecosystem**
 - ✓ **Little Gov focus to S&T and R&I in African context**
 - ✓ **Little incentive mechanisms and STI financing** (Ethiop GERD: 0.27%)
 - ✓ **Poor national science data repository system**
 - ✓ **System problem at African universities**
 - Traditional and comprehensive universities
 - Limited entrepreneurial approach (support to UNECA's effort in establishing Entrep Uni in Africa....)
 - Little actionable academic research
 - Poor University-Industry-Linkage
 - Academic program and curricula related matters
 - Little focus to indigenous knowledge and linking it with modern science
 - Poor S-S collaborations within country or Africa
 - External reasons
 - ✓ Little **demand driven science collaborations and science funding initiatives**
 - ✓ **Limited support in strengthening evidence-based SDG reporting and data sharing platforms**
 - ✓ Little support in resource mobilization and empowering **youth and women**
 - ✓ **Little focus on reforms at TVETs, Entrepreneurial universities**
 - ✓ Unpractical implementation of open science principles and little access to data and science infrastructure (journal subscription fees difficult for researchers from South)

In summary

- **Science could be a preferred way to address** political, economic, social and environmental problems.
- STI is a means of **addressing almost the 17 goals. Therefore, we need to:**
 - ✓ Continue support to STIP. Eg. Ethiopia one of the 6 pilot countries but little progress in implementing the new STIP and gap in support or promises

- ✓ Strengthen initiatives that enhance strong stakeholders engagement and empower academicians
- ✓ Capacity strengthening initiatives in scienceEthiop STIP
- ✓ S-S and N-S collaborations are instrumental for our STI4SDG roadmaps