Chair of the Session Guidelines

As Chair, please note some guidance on managing the session

- There will be presentation made as indicated in the revised program.
  o Kindly invite presenters to make their presenting for 5-10 minutes.
  o Remind presenters to introduce themselves.
- After all presenters delivered their presentations, invite insights form the panelists.
  o Introduce the panelist briefly
  o Critical areas that you could consider interrogating further from the panelists relates your session;
    ▪ Policy insights, gaps and opportunities.
    ▪ Current status; comments on statistics, data or initiatives by state and non-state actors.
    ▪ Opportunity for further research and/or interrogation.
    ▪ Any country or best practices of relevance.
- Following insights from panelists invite questions from the audience
  o Invite participants to raise their hands (for physical participants) if they have a question or to text their question or comment on the digital platform. Inform participants to indicate who their question or comment is addressed to.
  o Coordinate this question session; consider taking three questions at a time.
  o Invite the MC to read out any comments provided in text
  o Taking note on the questions and who they are addressed to, coordinate the answer session by inviting the presenter and/or panelist to respond.
- On successful conclusion of the session, kindly thank the presenter, panellists and contributing participants then handover the session to the MC.

PANEL QUESTIONS FOR SESSIONS 1.1, 3.2, and 6.1—KARC 2021

Plenary Session	Title and questions
1.1	*Status of ST&I in Kenya*
	i. Could you discuss the current status of ST&I in Keya?
	ii. Could you identify specific gaps that need intervention in Kenya ST&I environment?
	iii. What specific interventions are needed to address current gaps i the ST&I ecosystem?
3.2	*Health systems*
	i. What is the status of Kenya's health systems?
	ii. Are there gaps in Kenya's policy, regulatory, and institutional framework as regards health systems?
	iii. What should be done to strengthen the health system in Kenya?
6.1	*Building Resilience*
	i. What is the role of ST&I in building resilience?
	ii. What are the inherent risks in building resilience through ST&I?
	iii. What particular interventions are needed to support capacity of ST&I to build resilience?

Plenary sessions 1.2	**Policy, Institutional and Legislative Framework** • What makes a good ST&I policy objective? • What specific interventions are needed to address current policy gaps in promoting, coordinating, and mobilizing resources in the ST&I ecosystem? • STI mainstreaming still faces quite a number of challenges. What needs to be done to ensure that STI is mainstreamed in all sectors of the economy including the national & county governments? • What needs to be done to ensure adequate promotion of local STI innovations & inventions? • What needs to be done to ensure we have appropriate and powerful structures to execute ST&I • How can Kenya Transform the institutional landscape towards identifying key gaps, opportunities and challenges in current ST&I investment approaches • What are the policy opportunities for increasing investments in research and development? • What needs to be done to be able to address the issue of low funding for research leading to non-alignment of the research agenda with national development goals and market needs
4.1	**ST&I Infrastructure** • What needs to be done towards facilitating, renewal, upgrading and creation of supportive infrastructure for science, technology and innovation. • How can we leverage on the special economic zones infrastructure to promote ST&I • What kind of infrastructure and equipment is needed to support ST&I overall national development objectives? • How can we leverage on ICT infrastructure to support ST&I intervention in strategic priority areas? • What needs to be done to ensure the network of existing infrastructure is adequate to facilitate the achievement of the national objectives? • Could you identify the policy gaps in the ST&I infrastructure and the possible interventions that are needed to address the issues identified
6.2	**Agriculture** • What is the role of ST&I in Agriculture Sector Growth and Transformation? • How can we be able to identify and leverage on appropriate agricultural technologies towards building effective and efficient research and development support systems?

Plenary Session 2.1

Panellist Questions:

1. Is the education system in Kenya ready for ST&I?
2. How can curriculum review promote ST&I?
3. What can TVETS do in propelling STI?
4. What are the challenges on the supply and demand of human capital in critical ST&I areas?
5. What strategies do you propose for extensive utilization and preservation of indigenous resources and traditional Knowledge for national development?
6. Increased funding for Research and Development as well as sound policies that promotes generation and application of emerging and future technology. What are your views on the best strategies for mobilizing funds for ST&I?
7. What are the challenges faced by Universities and TVET institutions in promoting research and Development? Propose some of the solutions to address these challenges?
8. How can we establish structures in the education system to promote the advancement and use of ST&I in all productive sectors of the economy?
9. What lessons and good practices can Kenya borrow across the regional and global level in promotion of ST&I for human capital development?

Plenary session 5.1

Panellist Questions

1. How can we promote the empowerment and full participation of women, youth and disadvantaged persons in all ST&I activities to address gender parity in the ST&I sector?
2. How can we assist PWDs to access technologies?

Theme 6.1

Panellist Questions:

1. What are the challenges in adopting technology in affordable housing and possible solutions?
2. Can mortgages play a role in provision of affordable housing?
3. How can we use technology to promote environmentally friendly housing?

PLENARY SESSION 3.1: INNOVATION SYSTEMS

Presentation title	Questions to be asked
Investing in Research and Development (R&D) for quality innovation in Kenya	1. Given that investment in R&D in Kenya has been perennially low, what are the prescriptive measures you would suggest for improving this? 2. What practical lessons can Kenya borrow from countries that invest at least 5% of their GDP on R&D?
Media coverage of ST&I for PWDs	1. What challenges does the media face while covering issues related to ST&I particularly for PWDs? 2. Has the media in Kenya been sensitive enough to the needs of PWDs when broadcasting/ airing innovations done by PWDs or for PWDs? 3. What practical steps can the media industry in Kenya take to ensure that coverage of ST&I for or by PWDs is made better?
Innovation in assistive technology	1. What has been the evolution and status of assistive technology in Kenya? 2. What does it take to innovate and invest in assistive technology? 3. How would you rate the demand for vis-à-vis the supply of assistive technology in Kenya? Where do you envisage the gaps are and which opportunities can we tap into?
Technology and innovation process	1. What is your take on our technological innovation in Kenya? – would you say it is based on technological push or market pull forces? 2. Based on your estimation, would you say there is a missing link or disjoint from innovation to technology? – and if yes, what would you propose to address the missing link?

PLENARY SESSION 5.2: ST&I DATA AND STATISTICS

Presentation title	Questions to be asked
Availability and use of ST&I Statistics	1. What is the status of data availability on ST&I statistics in Kenya? 2. What are some best practices of countries with available and quality data or statistics related to ST&I – and what can we borrow as country from them, if any? 3. What challenges exist to statistics bodies in ensuring availability of quality ST&I data? 4. What can Kenya, and other countries in the region, do to build up their ST&I statistical capability, which would complement other regional and international practices?
Role of data protection in the ST&I sector	1. What are the provisions or guidelines of the Data Protection Act of Kenya, especially to those that relate to the ST&I field? 2. From your estimation, how sensitive is ST&I data and what does this imply for the nature of its security and protection? 3. What would be the skills requirement or capacity for ensuring data in the ST&I sector is well protected? 4. What other critical aspects of data protection for ST&I data have been put in place elsewhere, and what can we borrow?
Big data and its role in ST&I	1. What would you consider as the link or nexus between big data and ST&I? 2. Is Kenya taking advantage of big data to the potential? Does the country have capacity for big data utilization? – and if not, where would you envisage the constraints are? 3. How can firms leverage on big data analytics to improve their performance and generate value? 4. What is potential role of big data for enhancing the availability and/or use of quality ST&I data in Kenya?

PLENARY SESSION 6.4: INDUSTRIALIZATION AND ST&I

Presentation title	Questions to be asked
Are we ready for the 4th Industrial Revolution?	1. What is the status or level of preparedness of Kenya for the 4th IR? 2. What would you consider as the key challenges that accompany readiness or achievement of the 4th IR for a country? – and what are the opportunities that come with it? 3. What practical steps should we take to ensure we not only achieve the 4th IR, but that we get the maximum from it?
Artificial intelligence	1. What have been some of the valued applications of artificial intelligence in Kenya? 2. Does Kenya have a strategy or framework in place for artificial intelligence (AI)? 3. By tapping or making use of AI, what would you consider as the possible opportunities and associated risks? 4. What mechanisms are needed to ensure that AI is used to achieve development, in a responsible and ethical manner?
SMEs and ST&I	1. What would you consider as the main constraints that have hindered majority of SMEs in Kenya from being innovative? – Does innovativeness of SMEs spur or hinder employment? 2. For SMEs that are utilizing ST&I, which areas of business operation has this happened, and where are the gaps or opportunities? 3. How does innovativess of MSEs take place – that is the chain from not innovative to innovative? 4. What public support or investment is necessary to assist SMEs to exploit ST&I?

Launch of Kibo Satellite	1. What are the capacity requirements for building and launching a satellite, and how can Kenya position herself in attaining this capacity?
	2. What have been the practical applications of the kibo satellite launched in 2018, and what would you consider are other possible applications that we need to take care of?
	3. What potential exists for Kenya to invent and innovate in space technology?
	4. How can satellite and other space applications be utilized to help achieve the Big 4 development agenda; perhaps drawing from lessons from other parts of the world?