STI Roadmaps for SDGs - Expert Group Meeting International Workshop

8 – 9 May 2018
Conference Room "Mars", Miraikan, Tokyo, Japan

Keywords in Introduction(1)

Dr. Teruo Kishi
- The importance of the STI Roadmaps for organizing this potential into actions.

Mr. Shantanu Mukherjee
- STI can play a unique role in minimizing the tradeoffs and maximizing the potential of sustainable development. To that end collaboration among multiple stakeholders, international cooperation and the convergence of different technologies are vital.

Keywords in Introduction(2)

Dr. William Colglazier

- **Careful thinking and planning is required to ensure that the Agenda inspires actions. Developing STI Roadmaps that add value is essential for that purpose. This work will involve not only governmental actors but also non-governmental actors and stakeholders at all levels.**

Dr. Michiharu Nakamura

- **It is necessary to develop Roadmaps that are executable, multidisciplinary and incorporate past experience. The implementation and development of the Roadmaps should be cyclical and interlinked.**

Keywords in Session 1

- **Prioritization based on the identification of interlinkages, strengthens and weakness,**
- **Trust among stakeholders (private, academia/ universities, government, NGOs, and others)**
- **Balancing short-term and long-term goals for the public-private partnerships**
- **Coherency and consistency of roadmaps from regional and national to subnational levels**
- **Coordination across the ministries and diverse stakeholders to overcomes silos**
- **Integration vision with existing and new policies**

Keywords in Session 2

- **Political leadership, societal preparedness, and learning from international experience**
- **Importance of STI literacy for policy making**
- **Data collection and indicators for diagnostics and deep-dives**
- **Need results and monitoring for STI policy**
- **Transforming STI ecosystem for SDGs**
- **Pilot projects for scaling up**

Keywords in Session 3

- **Dealing with uncertainty through adaptive approaches**
- **Concrete vision and flexible roadmaps**
- **Importance of science-policy interface**
- **Need for global roadmaps**
- **Training of scientists and engineers with stakeholders**
- **Forward looking regulatory framework**
- **Impact of new technologies on jobs, production and firm capabilities**

Keywords in Session 4

- **Importance of philosophy, values and visions**
- **Importance of identification of nodes (or leverage points) for prioritization, assessment, planning policies**
- **Development of integrated assessment tools through analysis of generic interlinkages, contextualization and synthesis & follow-ups**
- **Visualization of qualitative and quantitative information of the SDGs at national levels**
- **Systematic integration of national plans, strategies, interlinkage analysis and road maps are necessary**

7

Proposed Priority Actions for Discussion

Next 30 Days:

- **Finalize Background Paper (drawing on STI Questionnaire)**
- **Shape Key Messages around Importance and Benefits of STI Roadmaps**
- **Call for Participation to further Joint Work**
- **Showcase 'Emerging Practices'**
- **Explore Joint Action / Pooling of Expertise by IOs**

UN STI 2019 / UNGA 2019:

- **Peer Learning / EGMs**
- **Adopt Common Principles for STI Roadmaps**
- **Pilot STI Roadmaps**
- ***Expand to Larger Group of Countries***
- **Communicate & Raise Awareness**
- **Joint Action by IOs; Envision support mechanisms, with pooled resources, for STI roadmaps at scale**

By Mr. Klaus Tilmes

8

Why we care the STI Roadmaps for SDGs?

Key elements to develop STI Roadmaps for SDGs

Challenges to develop STI for SDGs

Thank you for your contribution.

Reference

Opening

- Welcome remarks by **Dr. Teruo Kishi**, Science and Technology Advisor to the Minister for Foreign Affairs of Japan
- Welcome remarks by **Mr. Shantanu Mukherjee**, Chief, Policy and Analysis Branch, Division for Sustainable Development, United Nations Department of Economic and Social Affairs
- Opening remarks by **Dr. Bill Colglazier**, co-chair of the 10-Member Group 2016/17, Senior Scholar, Center for Science Diplomacy, American Association for the Advancement of Science
- Opening remarks by **Dr. Michiharu Nakamura**, Former President and Advisor, Japan Science and Technology Agency (JST)

Session 1: Introduction to the STI Roadmaps for the SDGs

This session will take stock of the STI Forum discussions so far on STI Roadmaps for the SDGs; introduce a possible framework on common elements and approaches; provide an overview analysis of the submitted questionnaire responses from presenting countries; and reflect on early experiences of STI Roadmaps for the SDGs.

Guiding questions:
- Why do we care about STI Roadmaps for the SDGs?
- How do STI Roadmaps for the SDGs look like? What are their possible common elements?
- What are challenges and lessons from formulating and implementing STI Roadmaps for the SDGs in line with national development plans, and possible recommendations to countries to maximize STI contribution to accelerate progress toward the SDGs?

Session 2: Countries' Visions and Practices: Foundation

This session will illustrate countries' STI policy frameworks, action plans and strategies as foundational enabling conditions to build on to formulate STI Roadmaps addressing opportunities and challenges to achieve all the SDGs, and learn from current state of thinking and planning to extend such foundational frameworks toward the SDGs.

Guiding questions:
- What key elements constitutes countries' strategy, policy framework and implementation arrangements related to science, technology and innovation?
- To inform, formulate and strengthen the current STI policy framework, what analytical, diagnostic or benchmarking exercises, policy reviews, and/or financial and technical support can contribute?
- To formulate and implement STI policy framework, how domestic stakeholder groups can best be consulted, in which fora?

Session 3: Countries' Visions and Practices: Adaptation

This session will illustrate how countries are anticipating rapid technological changes and their domestic and international socioeconomic implications, and discuss visions, strategies and policy mix to maximize benefits and minimize risks of technologies to growth and competitiveness, human welfare, environmental sustainability, stability and security, by building skills, renewing institutional capabilities, strengthening societal resilience and smoothing transitions.

Guiding questions:
- What visions, strategies and/or sets of policy responses do countries have, to lead on, adapt to, and/or leapfrog with, rapid technological changes?
- What trend analysis, foresights, scenario exercise, consultations or roundtables to consider policy implications of emerging technologies can usefully inform policy responses?

Session 4: Countries' Visions and Practices: Integration

This session will illustrate national strategies to achieve the SDGs, both by addressing individual Goals/Targets as well as identifying and prioritizing pathways to address trade-offs and maximize synergies, and discuss STI both as science-policy interface to provide evidence-based policy advice and as policy response through STI Roadmaps as integrated elements of national sustainable development plans.

Guiding questions:
- What sector-/domain-specific strategies or plans do countries have to advance and/or utilize STI, such as to strengthen scientific research, promote technology development, regulations or technical standards for adoption or diffusion?
- What integrated assessments of countries' status against the SDGs, inter-linkages analysis of country-level Goals and Targets can help find desirable pathways and formulate policies to resolve trade-offs and maximize synergies using STI? How should scientific information be shared and incorporated into durable action plans implemented by multi-stakeholders?
- What is countries' state of deliberation and policy formulation to position economy-wide STI policy framework as well as sectoral STI strategies to contribute to plans, strategies and priorities to achieve the SDGs and leave no one behind?