



Recommendation on STI to Achieve the SDGs and its Guiding Tool, the STI Roadmap

~ To Think, Proceed and Create Together with the World ~

1 Objective and background: The position of STI in the pursuit of achieving the SDGs

- The SDGs are a master plan that seeks to realize a sustainable society by 2030 under the slogan, “no one left behind.” STI is a “deciding factor” for making the best use of the limited resources for achieving the SDGs.
- International community pointed out the necessity that multi-stakeholders (government, academia, industry, civil society, NGOs and funding organizations) should promote STI for SDGs systematically and develop the “STI roadmap.”

2 International trends on STI, and the SDGs

- Key viewpoints; the role of STI (resolving the social issues addressed by the SDGs), and the role of the SDGs for STI (setting the future course of STI)
- Efforts to achieve the SDGs in a Public Private Partnership will foster new investment/business, open new frontiers in science & technology.
- Tackling a problem as a unified “plane”, not as “dots” or “lines”, stakeholders can clarify their current positions, goals and direction of activities.
- Gaining broad understanding of citizens in STI for SDGs is needed.
- Need for a circular flow (grasping of the local needs, gap analysis between the ideal and the real, R&D, practical realization, thereby, social changes).
The roadmap and online platform are effective methods to bring this cycle to life.

3 Three notes for an STI Roadmap

- Need for “knowledge structuring” (put into order elements and analyze: national policies and plans, the trend of science and technology, bottlenecks, R&D, system design, investment)
Need for a bird’s-eye view of the actions by each stakeholder and monitoring.
- ➔ Roadmap = “shared communication tool” to visualize what must be done, by when.
- 3 notes for an STI Roadmap
 - (1) Through “knowledge structuring” need to bind goals together, maximize synergies and minimize trade-offs.
 - (2) 3-layer approach (policy level, goal sector level, individual project level)
 - (3) Share the lessons learned and good practices on the online platform.

4 Extracting “Common Elements” from STI Roadmap

- STI Roadmap differs by the development stage, social/economic/political situations, goals. BUT there should be essential elements common to the roadmap.
- Sharing the formulation process of the STI roadmap (commonization) is beneficial.
It must be adapted to their social/economic/cultural circumstances (customization).
- For international advancement of the roadmap, need to match resolutions (technology seeds) to needs.

5 The next step, and the Japan’s role to fulfill

- Japan should promote each stakeholder’s initiatives towards the formulation of the STI roadmap including in the context of the Osaka G20, TICAD7 and 2019 SDGs Leaders’ Meeting.
- Japan launched its STI for SDGs roadmap initiatives. As a contribution to the international community, Japan can share a common perspective with everyone and develop the STI roadmap together.