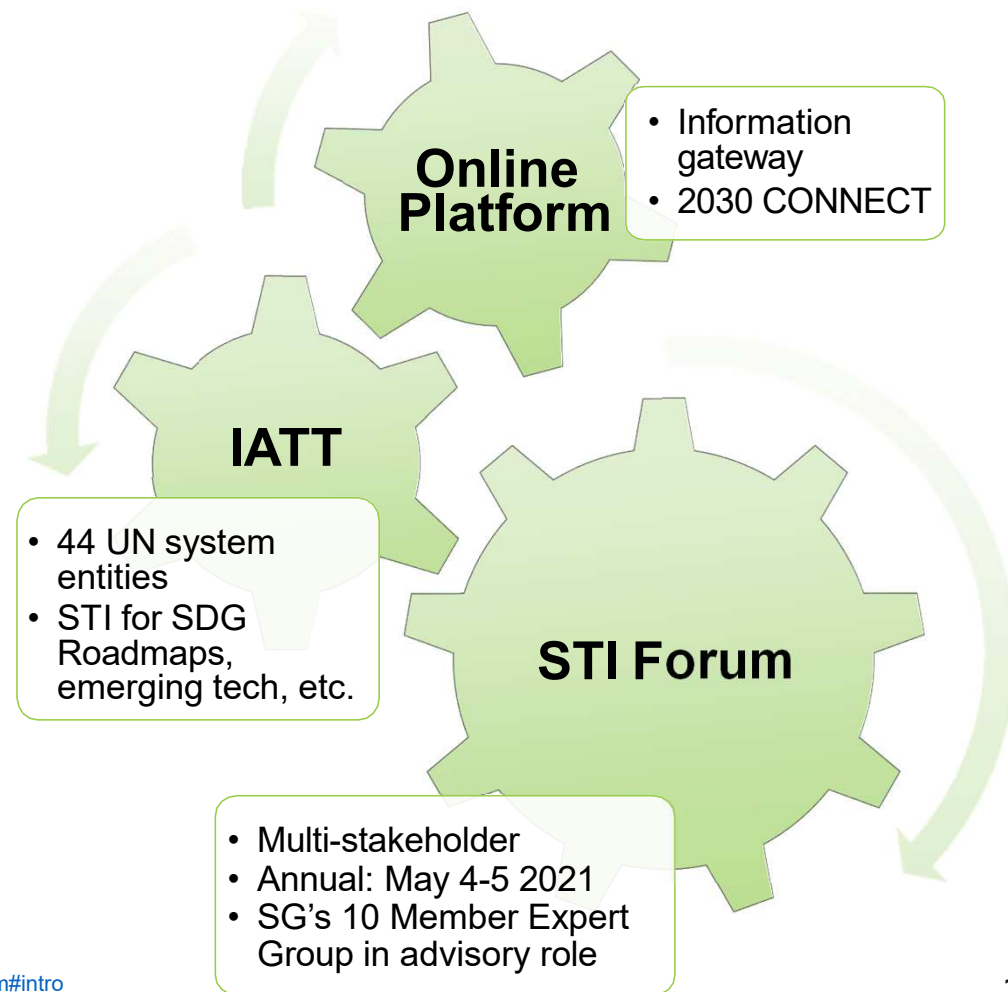# The Achievements of the UN Working Group for STI Roadmaps for the SDGs

Michiharu Nakamura

UN Secretary's General 10-Member Group to Support the Technology Facilitation Mechanism
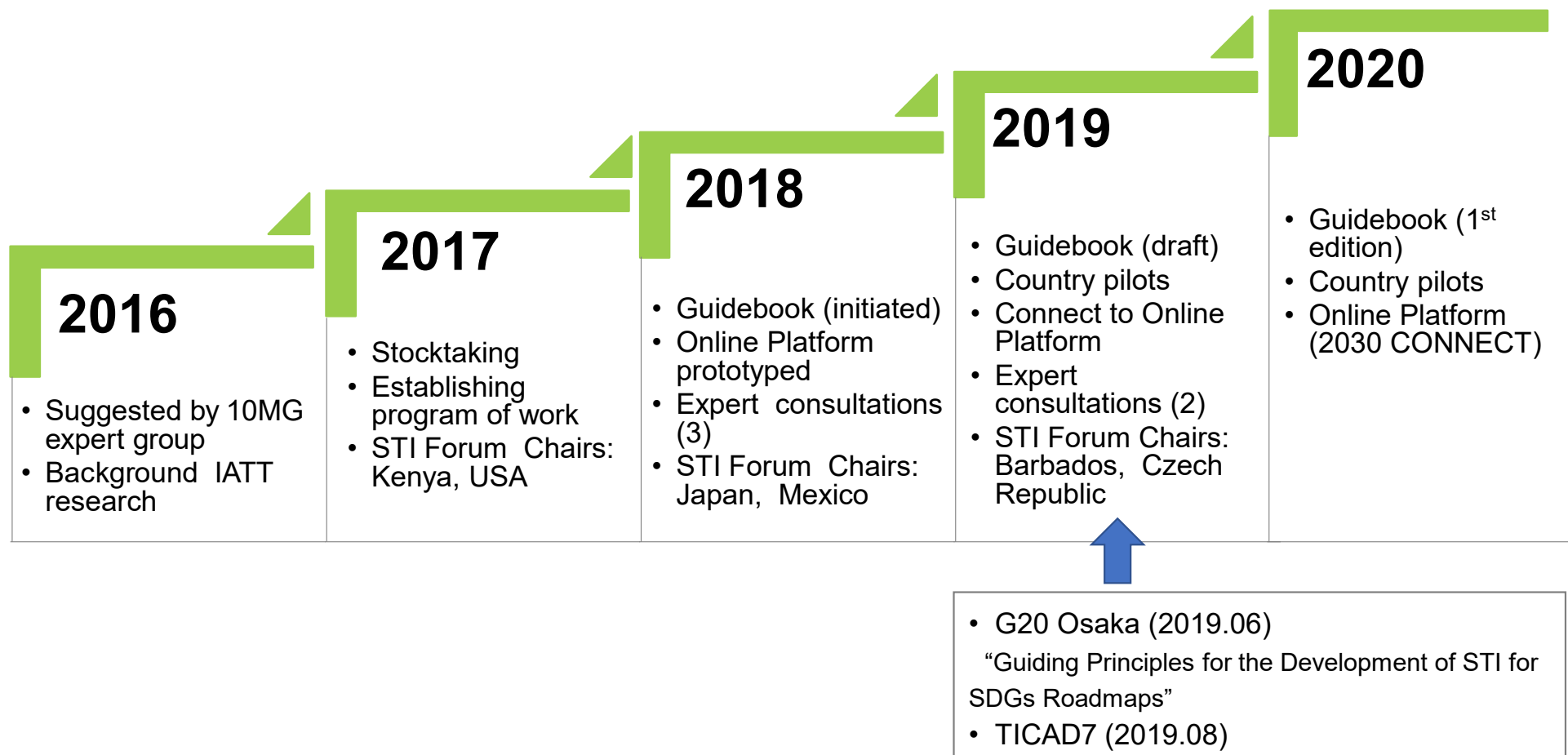
The "Technology Facilitation Mechanism" (TFM) has three components:

1. A United Nations **Interagency Task Team on Science, Technology and Innovation for the SDGs (IATT)**, including the 10-Member Group of representatives from civil society, the private sector and the scientific community

2. A collaborative **Multi-stakeholder Forum on Science, Technology and Innovation for the SDGs (STI Forum)**

3. An **online platform** as a gateway for information on existing STI initiatives, mechanisms and programs

https://sustainabledevelopment.un.org/tfm#intro

Online Platform
- Information gateway
- 2030 CONNECT

IATT
- 44 UN system entities
- STI for SDG Roadmaps, emerging tech, etc.

STI Forum
- Multi-stakeholder
- Annual: May 4-5 2021
- SG's 10 Member Expert Group in advisory role

STI for SDGs Roadmaps workstream and progress

2016
- Suggested by 10MG expert group
- Background IATT research

2017
- Stocktaking
- Establishing program of work
- STI Forum Chairs: Kenya, USA

2018
- Guidebook (initiated)
- Online Platform prototyped
- Expert consultations (3)
- STI Forum Chairs: Japan, Mexico

2019
- Guidebook (draft)
- Country pilots
- Connect to Online Platform
- Expert consultations (2)
- STI Forum Chairs: Barbados, Czech Republic

2020
- Guidebook (1st edition)
- Country pilots
- Online Platform (2030 CONNECT)

- G20 Osaka (2019.06)
  "Guiding Principles for the Development of STI for SDGs Roadmaps"
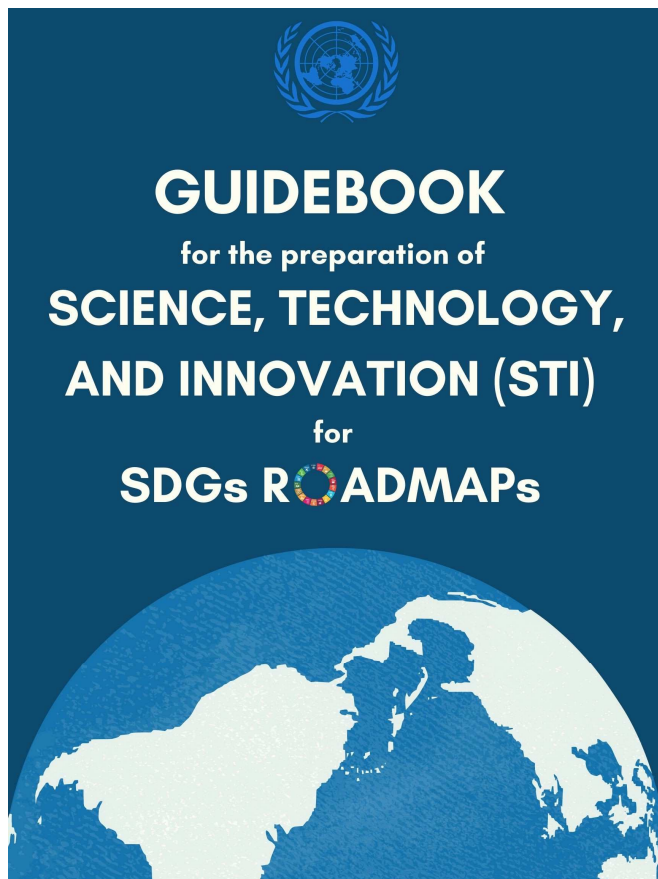- TICAD7 (2019.08)

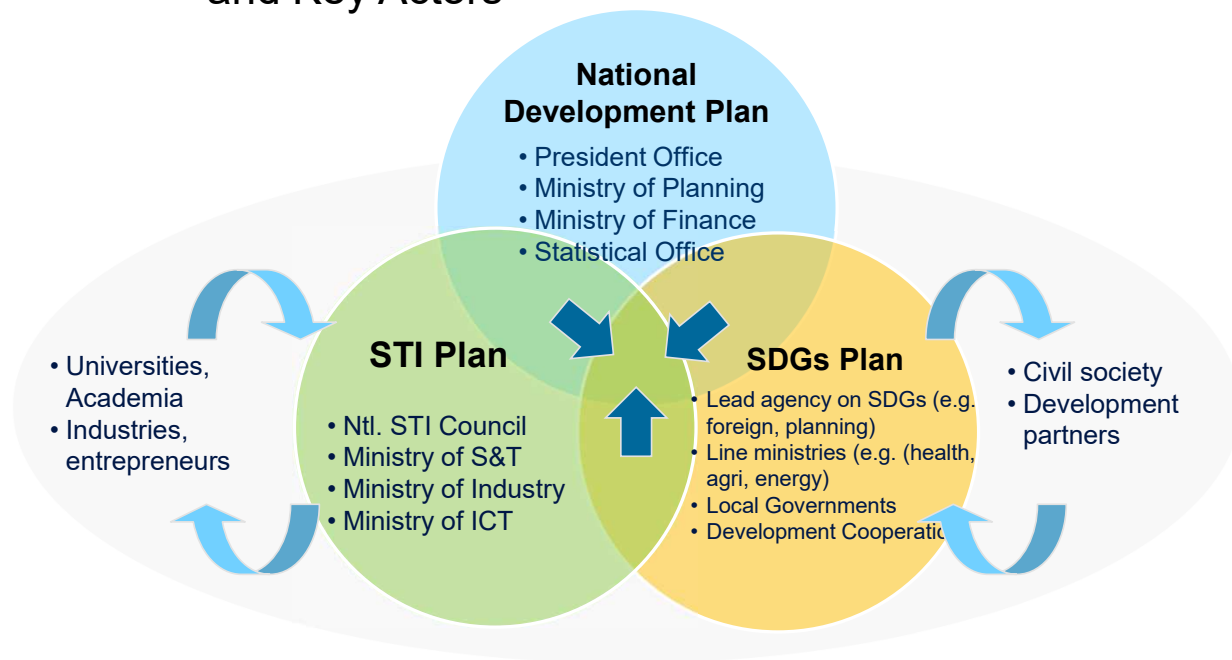# What are STI for SDGs Roadmaps?

SDG Impact
via
STI
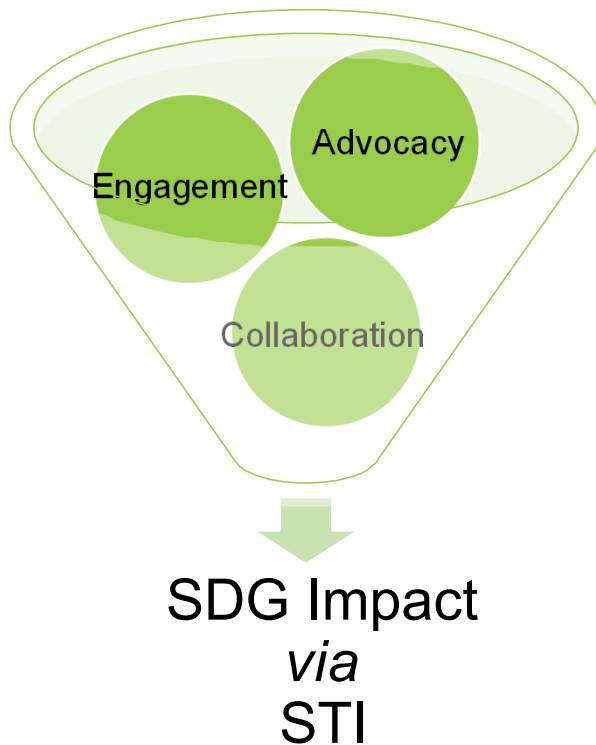
- Implementation focused instruments

- Vary by context and level – subnational to global

- Connect STI 'demand' to 'supply'

- Deploy solutions based on existing, new and emerging technologies

- Multi-stakeholder approach with emphasis on equitable participation

- Identify concrete collaboration, financing, capacity, international cooperation interventions

- Stimulate global search for effective solutions

- Monitor and evaluate the progress of STI for SDGs

The Guidebook for the Preparation of Science, Technology and Innovation for SDGs Roadmaps

GUIDEBOOK
for the preparation of
SCIENCE, TECHNOLOGY,
AND INNOVATION (STI)
for
SDGs ROADMAPs

Intersection of Development, STI and SDG Plans and Key Actors

National Development Plan
- President Office
- Ministry of Planning
- Ministry of Finance
- Statistical Office

STI Plan
- Ntl. STI Council
- Ministry of S&T
- Ministry of Industry
- Ministry of ICT

SDGs Plan
- Lead agency on SDGs (e.g. foreign, planning)
- Line ministries (e.g. (health, agri, energy)
- Local Governments
- Development Cooperation

- Universities, Academia
- Industries, entrepreneurs

- Civil society
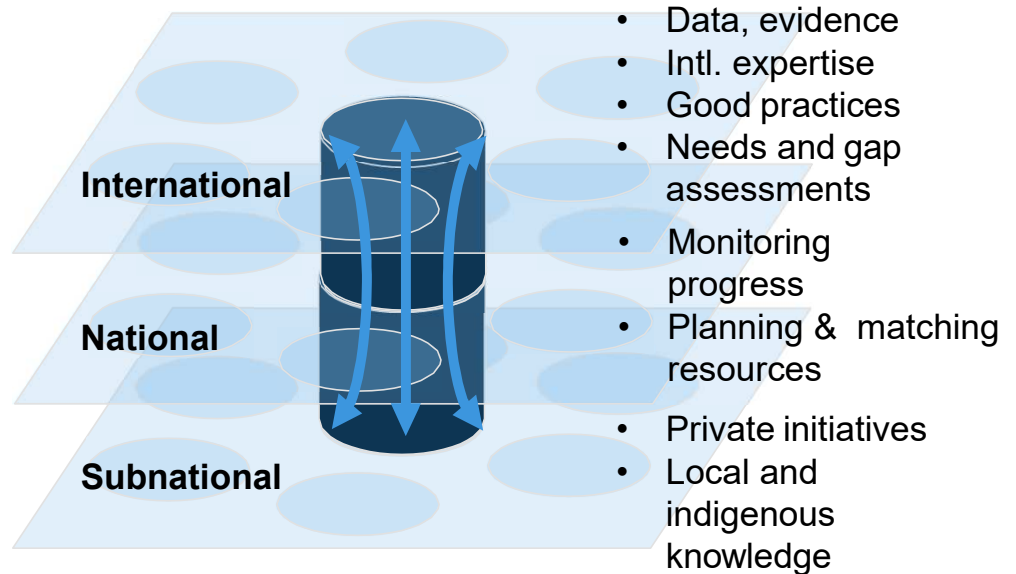- Development partners

SOURCE: A Guidebook for the Preparation of STI for SDGs Roadmaps

The Framework of STI for SDGs Roadmaps

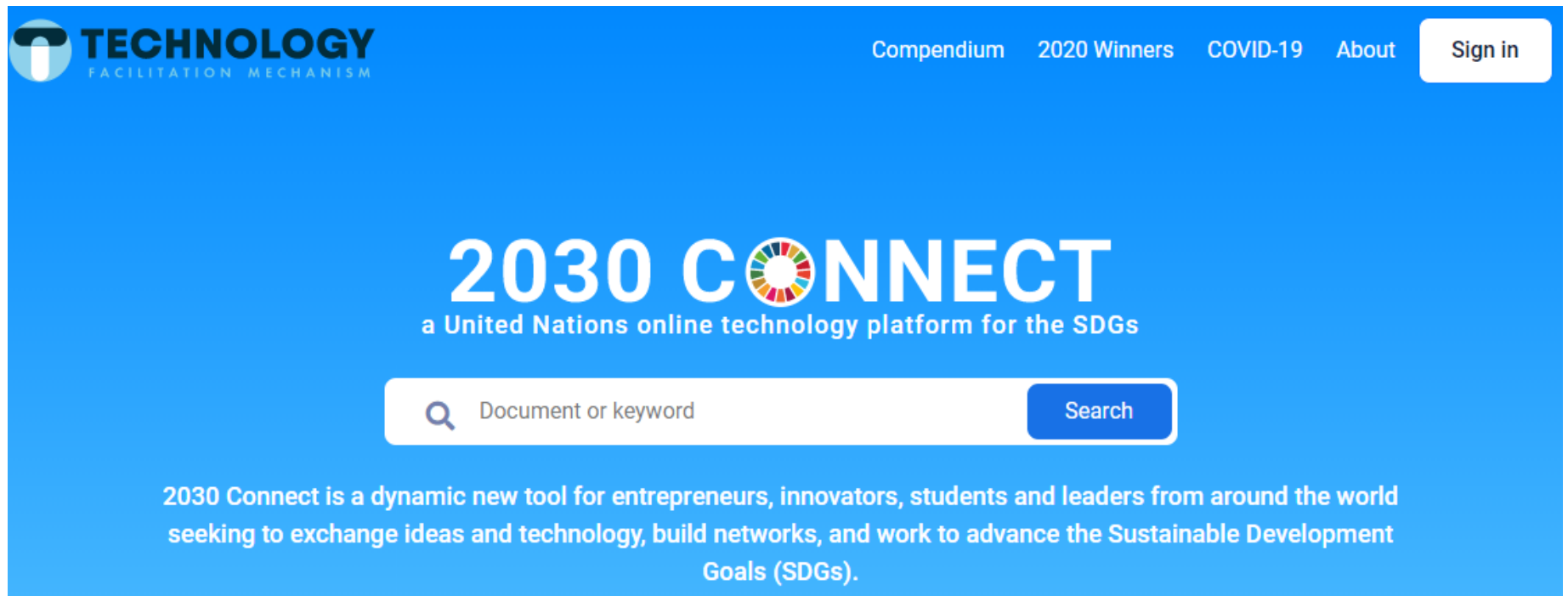Process flow of six key steps in the development of STI for SDGs roadmaps

Three levels of STI For SDGs Roadmaps

- Data, evidence
- Intl. expertise
- Good practices
- Needs and gap assessments
- Monitoring progress
- Planning & matching resources
- Private initiatives
- Local and indigenous knowledge

SOURCE: A Guidebook for the Preparation of STI for SDGs Roadmaps

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Online platform: 2030 CONNECT

https://tfm2030connect.un.org/

7

Global Pilot Programme on STI for SDGs Roadmaps

1st Phase Pilot Programme

- **Pilot Countries : Ethiopia, Ghana, India, Kenya, and Serbia**
- **Partner Countries : Japan and the European Union**
- **Supporting Organizations : DESA, World Bank, UNESCO,UNCTAD, FAO, ESCAP, UNDP**

Objectives:

- **Test out the guidebook** on building STI for SDGs Roadmaps as a policy-making and communication tool for Member States;
- **Build capacity** for and scale up adoption of the Member States' STI for SDGs Roadmaps;
- **Promote good practices**, knowledge sharing, peer learning, international cooperation and partnerships on design and implementation of such roadmaps;
- **Maximize opportunities and mitigate risks** of STI and frontier technologies to accelerate achievement of the SDGs; and
- **Leveraging and mobilizing resources**

Three pillars for international STI collaborations for the SDGs

1. Build country STI capacity

2. Boost international STI flows

3. Broker STI coalitions

- Develop human, institutional and policy capabilities of key STI actors, build STI infrastructures
- Help design STI for SDGs Roadmaps

- Support market and non-market flows of STI across countries
- Support cross-country STI collaboration to address local challenges

- Mobilize ambitious STI collective actions to address global critical gaps
- Transform global STI system toward acceleration of SDGs

SOURCE: A Guidebook for the Preparation of STI for SDGs Roadmaps

Lessons learned from COVID-19

- Preparedness for pandemic risks –resilient society

- Speed of science, technology, innovation, and delivery

- Leveraging digital technologies and data

- Open science for global public goods

- Transdisciplinary approach

- International STI cooperation

- Science-policy-society interfaces

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- Science-policy-society interfaces

Thank you for your cooperation

The UN Working Group of the STI for SDGs Roadmaps:

UN-DESA, UNCTAD, World Bank, UNESCO, UNIDO, ESCAP, ESCWA, WIPO, UNU, 10 Member Group, OECD, G-STIC, EU-JRC, JST