



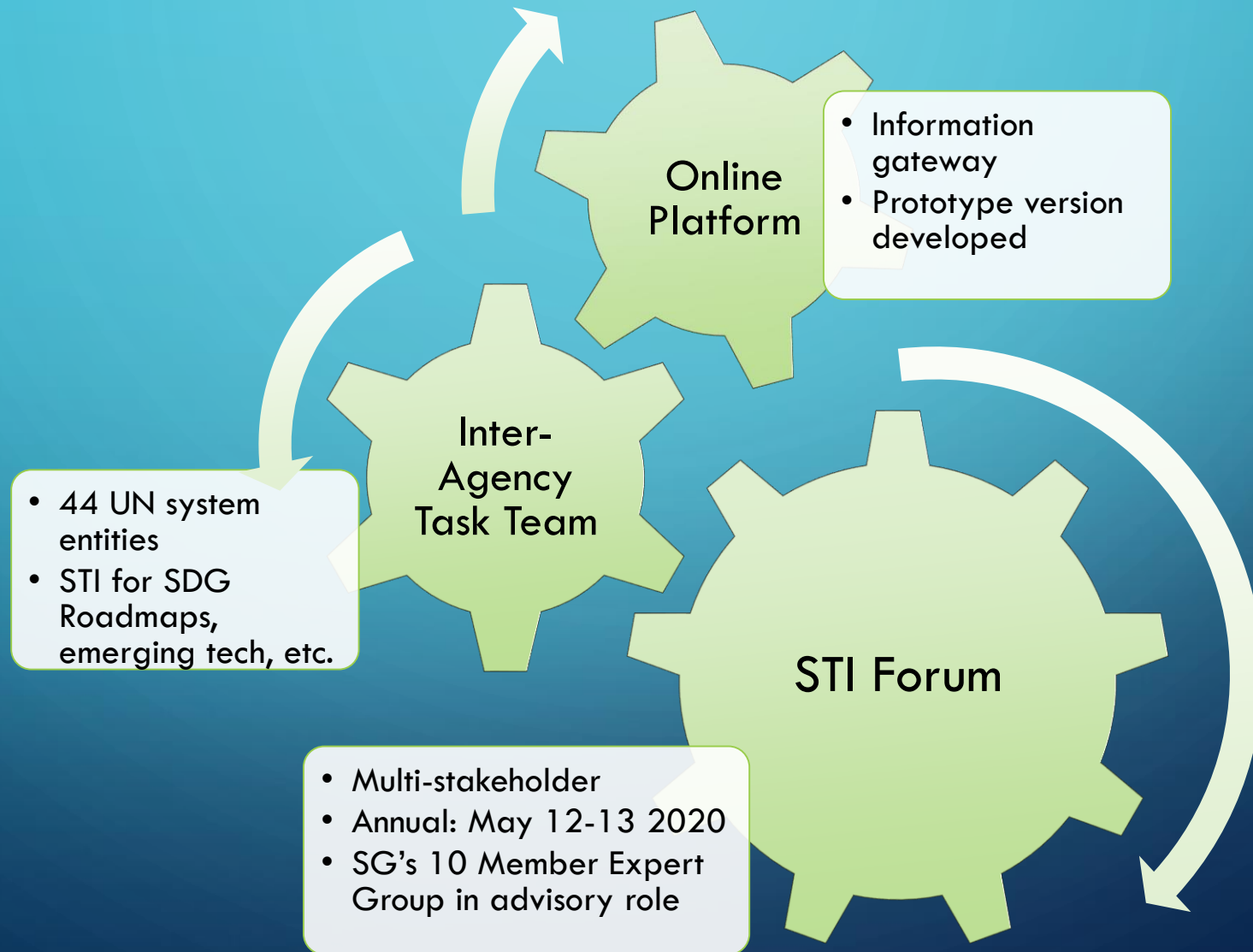
SCIENCE, TECHNOLOGY AND INNOVATION (STI) ROADMAPS FOR THE SDGS

UN JOINT CAPACITY BUILDING WORKSHOP ON STI FOR SDGS

GUILIN, CHINA, DEC 9-17, 2019

WEI LIU, UN-DESA, NEW YORK (LIUW@UN.ORG)

TECHNOLOGY FACILITATION MECHANISM





STI FOR SDG ROADMAPS @ TFM

2016

- Suggested by 10MG expert group
- Background IATT research

2017

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

2018

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

2019

- Guidebook
- Country pilots
- Connect to OLP
- Expert consultations (2)
- STI Forum Chairs: Barbados, Czech Republic

2020

- Guidebook
- Country pilots
- 2030 CONNECT
- STI Forum Chairs:
 - Israel and Ghana

Online Platform

The screenshot displays the user interface of the United Nations Technology Facilitation Mechanism. At the top left, the United Nations logo is followed by the text "United Nations - Science, Technology and Innovation". On the top right, there is a "My Profile" link and a "Demo" label. The main header features a stylized logo of a person with a gear, followed by the word "TECHNOLOGY" in large, bold, dark blue letters, and "FACILITATION MECHANISM" in smaller, light blue letters below it. A descriptive paragraph reads: "A gateway to information on existing Science Technology and Innovation initiatives, mechanisms and programs for Sustainable Development." Below this, three large blue circular buttons are arranged horizontally. The first button contains a magnifying glass icon, the text "Search", and a search input field with a magnifying glass icon. The second button contains a pencil icon, the text "Request / Offer", and a button labeled "Make a request or offer". The third button contains a person icon, the text "Get Recommendations", and a button labeled "Subscribe".

United Nations - Science, Technology and Innovation


My Profile

Demo

 **TECHNOLOGY**
FACILITATION MECHANISM

A gateway to information on existing Science Technology and Innovation initiatives, mechanisms and programs for Sustainable Development.

 Search

 Request / Offer

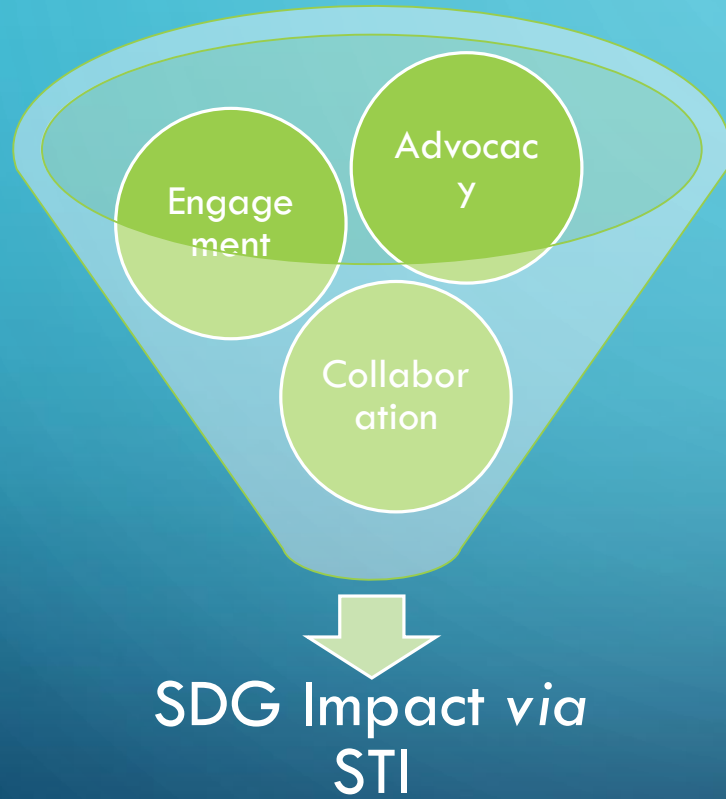
Make a request or offer

 Get Recommendations

Subscribe



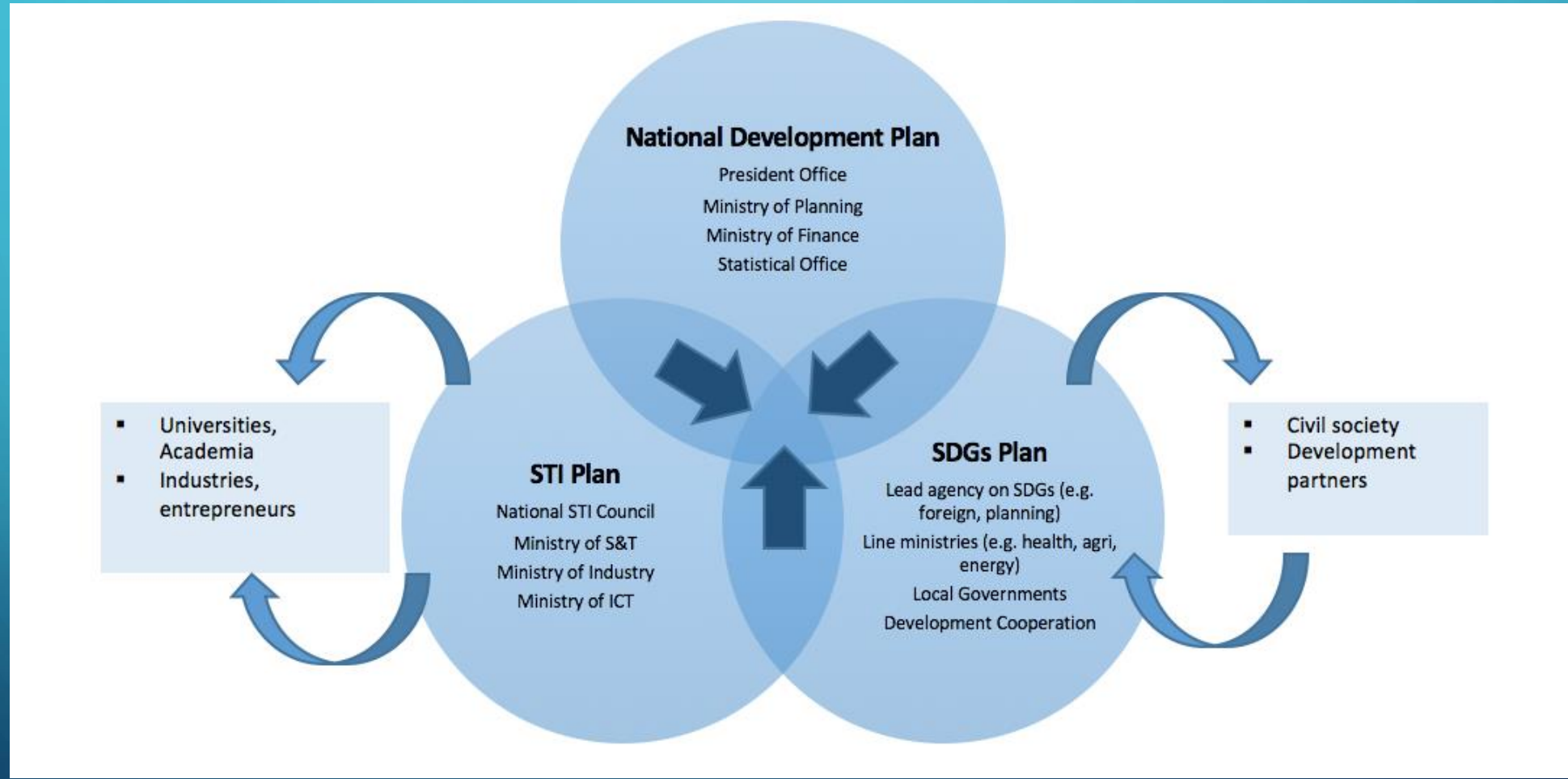
ROADMAPS: A SHARED UNDERSTANDING



- Implementation focused instruments
- Vary by context and level – subnational to global
- Connect STI ‘demand’ to ‘supply’
- Deploy solutions based on existing, new and emerging tech
- Multi-stakeholder approach with emphasis on equitable participation
- Identify concrete collaboration, financing, capacity, international cooperation interventions
- Stimulate global search for effective solutions

National STI for SDGs Roadmaps – Key Actors

Intersection of Development, STI and SDG Plans and Key Actors

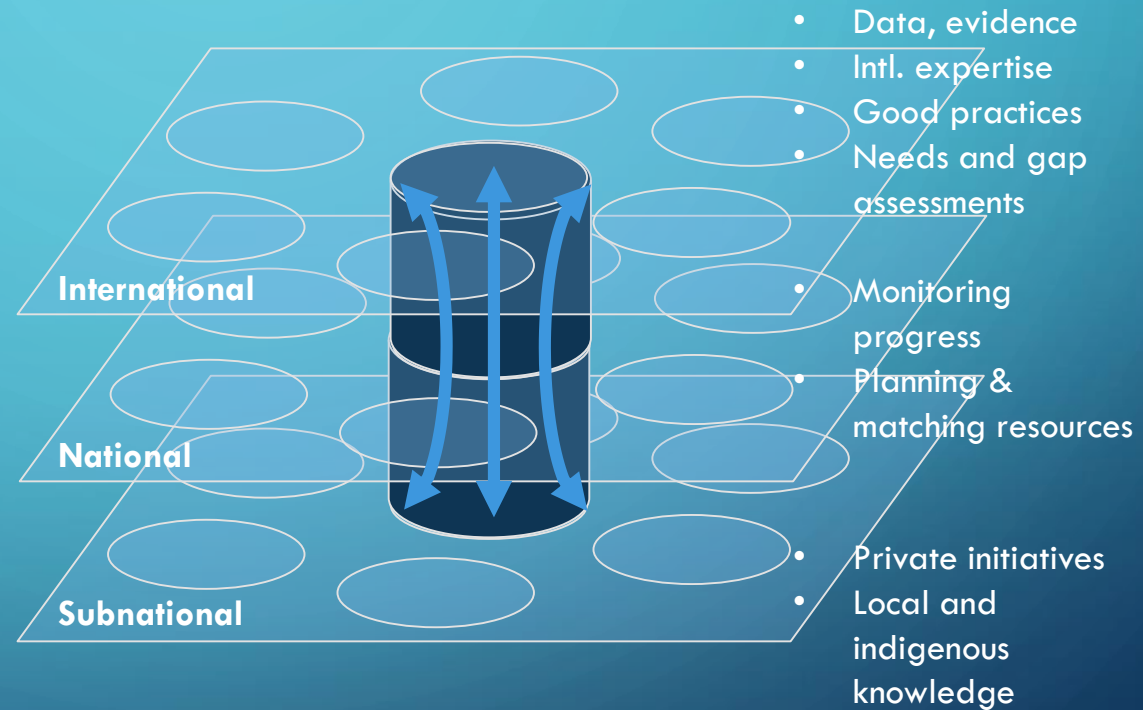




INTERNATIONAL SUPPORT – 1ST PHRASE

- DESA – Global Programme Coordination and Follow ups with Global Processes/ Operational Notes
- World Bank: Coordinate the inputs to the Guidebook, Kenya (together with UNESCO and FAO) and India (together with ESCAP and UNDP) pilot
- UNESCO: Ghana (together with World Bank)
- UNCTAD: Ethiopia (together with World Bank)
- European Commission Joint Research Center: Serbia (together with UNIDO)

GUIDEBOOK ON DEVELOPMENT OF STI ROADMAPS



Global Pilot Programme Objectives

- **Test out the draft 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**

Timeline of the Global Pilot Programme



Countries with the Submission of Expression of Interests

Africa (8):

(Botswana), Chad, **Ethiopia**, **Ghana**, **Kenya**, Rwanda, South Africa, (Tunisa)

Asia (5):

Cambodia, China, **India**, Indonesia, (Oman)

Latin America (3):

Brazil, (Mexico), and Guatemala

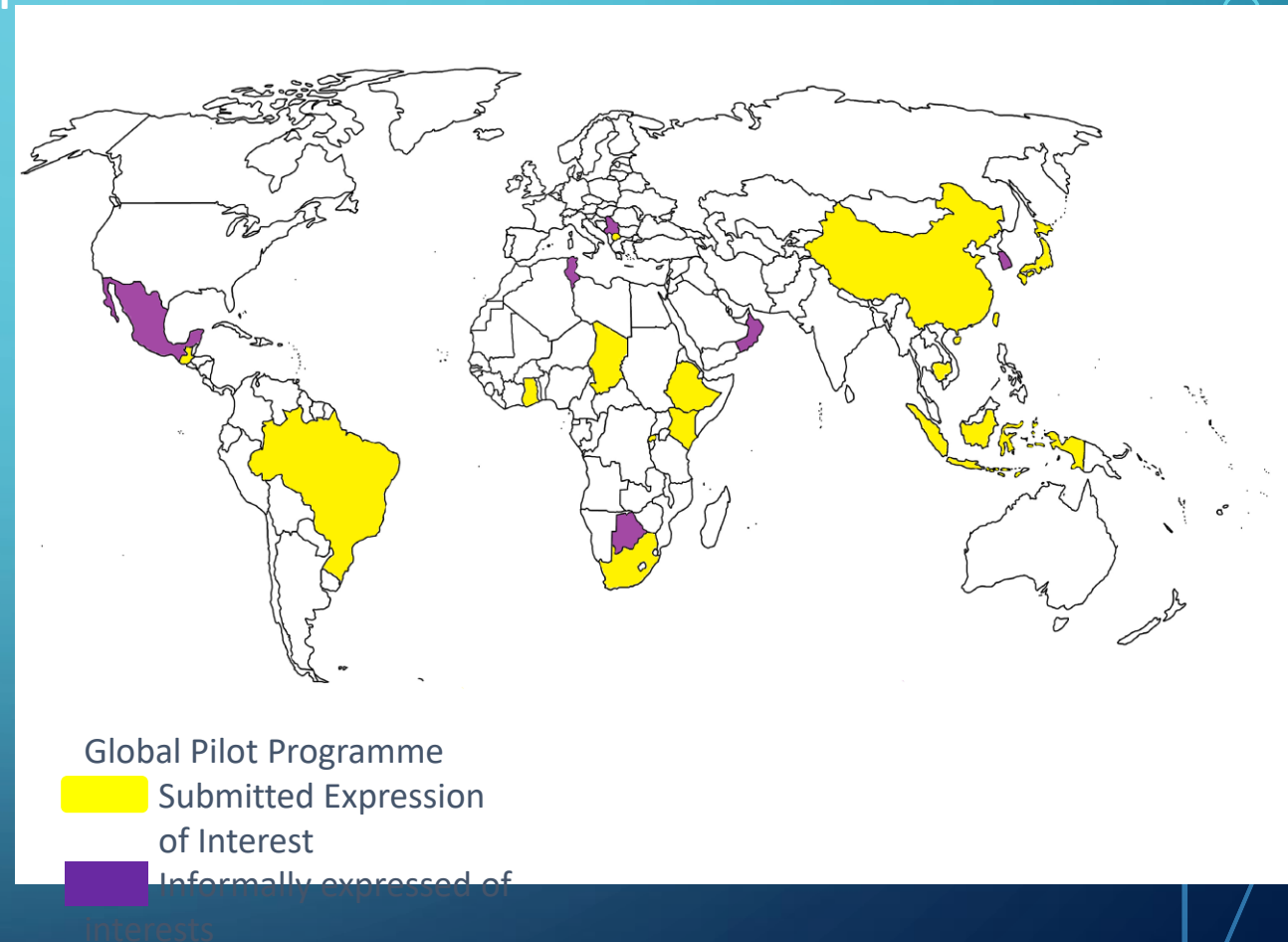
Eastern Europe (2):

Macedonia (the former Yugoslav Republic of), **Serbia**

Developed Countries (2):

Japan, (Republic of Korea)

Total: 20 countries as of July 1st 2019.



Global Pilot Programme (GPP) – DESA's Recent Support Overview

- **Upto STI Forum 2019 – Guidebook, operational note, GPP proposal and national mobilization**
- **July 2019 –GPP launch, country EoI and expectations**
- **Aug 2019 – promote private sector contribution; initiate joint message for TICAD7, Japan**
- **Sep 2019 – drafting joint workplan in consultation with co-leads; collecting key methodologies for STI roadmaps**
- **Sept. 2019 –initiating preparation of selected country profiles on national policies and strategies regarding rapid technological changes**
- **Oct. 2019 –STI Roadmaps working group meeting**
- **Dec. 2019 (and beyond) – STI Capacity Building Workshop in Guilin**

Ongoing Work - Joint Template on Development of STI for SDGs Roadmap

1

A successful STI for SDGs Roadmap contains several key components. The IATT aims to promote a common approach by developing a framework to examine gaps, synergies and trade-offs, and prioritize actions

2

Our goal is to strengthen national STI systems, promote cross-sectoral collaborations and goal specific “deep dives” for the SDGs

3

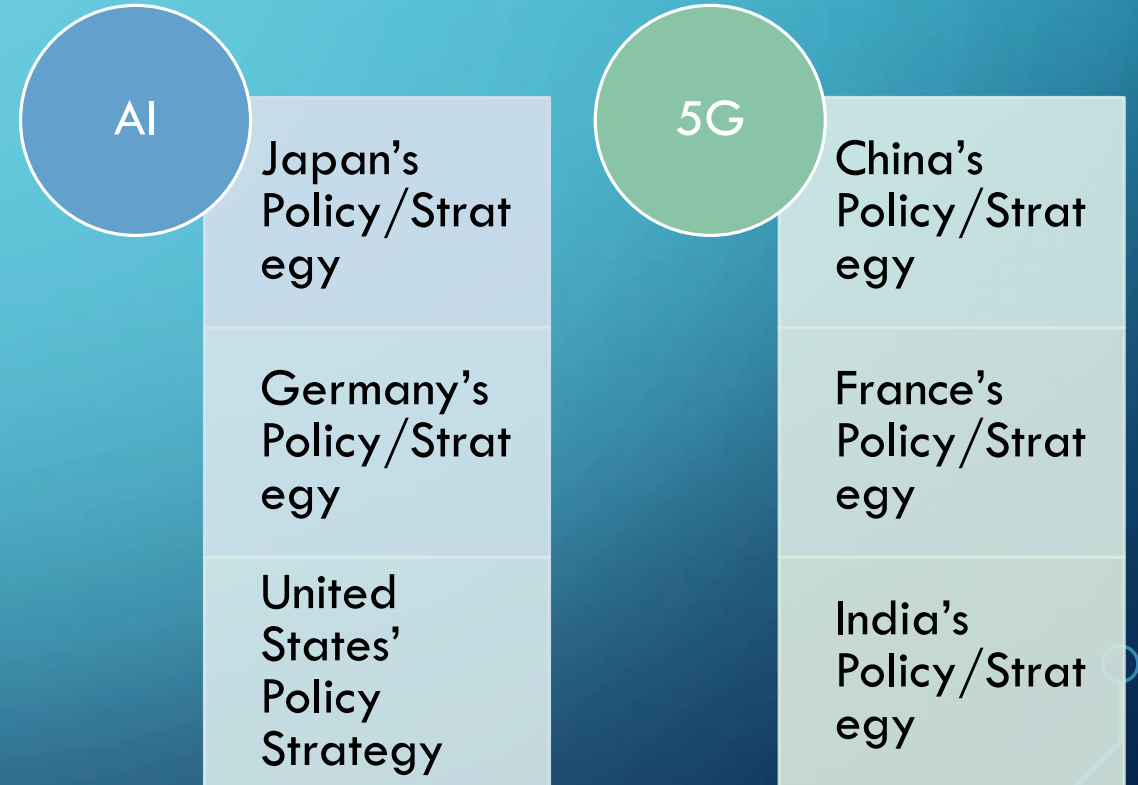
The joint template (work in progress) aims to be a tool that can facilitate the development of an STI for SDGs roadmap by providing a step-by-step process and presenting key questions that need to be addressed for a successful roadmap

Ongoing work - Joint Template Current Structure

Country/Region	<ul style="list-style-type: none">• Define scope of the roadmap (local, national, international, etc.)
Overview of National Technology and Innovation Ecosystem	<ul style="list-style-type: none">• Assess the current STI landscape (what, if any, STI initiatives are already in place?)
Vision and Goals	<ul style="list-style-type: none">• Outline the goals and objectives that the roadmap will aim to achieve
Milestones	<ul style="list-style-type: none">• Establish metrics to monitor progress towards vision/goal
Gaps and Barriers	<ul style="list-style-type: none">• Brainstorm any possible barriers/gaps that could hinder progress
Action Items	<ul style="list-style-type: none">• Assign responsibilities and delegate action items to achieve goals• Helpful examples that can be used to help develop roadmaps for different industries (energy, education, health and well being, etc.)
Case Studies	
International Cooperation (Optional)	<ul style="list-style-type: none">• Designate any help that will be received from international organizations for the roadmap

Ongoing work - Country Profiles of National Policies and Strategies on Rapid Technological Change

- Background work for the Guidebook's online resources (work in progress)
- Provides an overview of different policies/strategies that leading countries on rapid technological change (e.g. AI, 5G, etc.) are taking to maximize the potential and benefit of new emerging technologies
- The policies/strategies provide a starting point and can be adapted to develop new policy/strategies to fit the unique needs of countries interested in adopting new emerging technologies





ROADMAPS: NEXT STEPS

- **Completion of a guidebook for national roadmaps**
- **Operationalization through country pilots (Eol from 14)**
 - Demand driven
 - Multi-stakeholder collaborations including non-IATT members
- **Outreach, validation and learning through global and regional fora**
 - STI Forum/HLPF/SDG Summit 2020
- **Complementary guidance for international roadmaps**
 - Support towards capacity building, knowledge sharing, implementation and global public goods



ANY FEEDBACK, PLS
CONTACT: LIUW@UN.ORG

THANK YOU