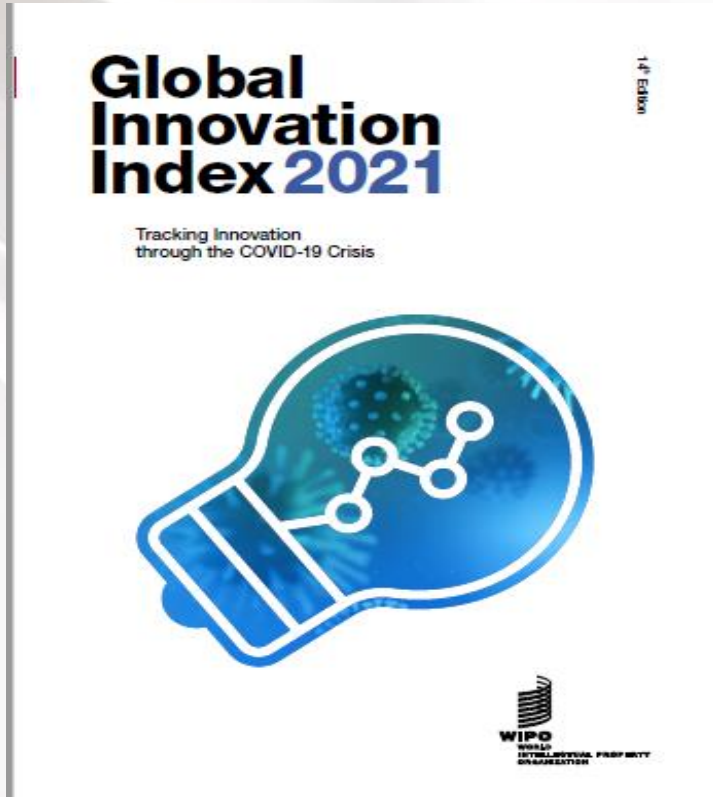


WIPO/WTO/WHO Workshop Innovation in, and Access to, COVID-19 Technologies

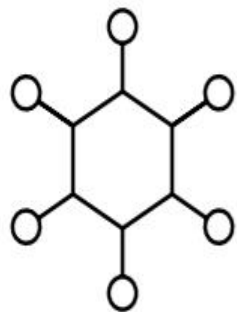
September 27, 2021

**Olga Spasic, Head, Technology Transfer Section
IP for Innovators Department (IPID)
IP and Innovation Eco Systems Sector
WIPO**

Context – Post COVID 19 Status of Innovation



- Despite human losses and economic shock - scientific output, expenditures in research and development, IP filings and venture capital deals continued to grow in 2020, building on strong peak pre-crisis performance.
- **Recovery packages** continue to be deployed across major world economies.
- **The fields of health, green and digital technology** are attracting increased attention and funding.



Science and innovation investments

		R&D expenditures				
Short term	Scientific publications	Total	Business	International patent filings	Venture capital deals	
	7.6%	8.5%	7.2%	3.5%	5.8%	
	2019 → 2020	2018 → 2019	2018 → 2019	2019 → 2020	2019 → 2020	
Long term	5.4%	4.9%	5.2%	5.3%	3.6%	
	2010 → 2020 (annual growth)	2009 → 2019 (annual growth)	2009 → 2019 (annual growth)	2010 → 2020 (annual growth)	2010 → 2020 (annual growth)	

Source:
Global Innovation Index Database,
WIPO, 2021.

Innovation in the Post COVID-19 Period

Advances and innovations can be expected in critical areas, such as:

Health (such as genetic engineering)

Pharmaceuticals (especially vaccines)

Energy production (with a focus on renewables)

Logistics and urban design

Artificial intelligence and quantum computing

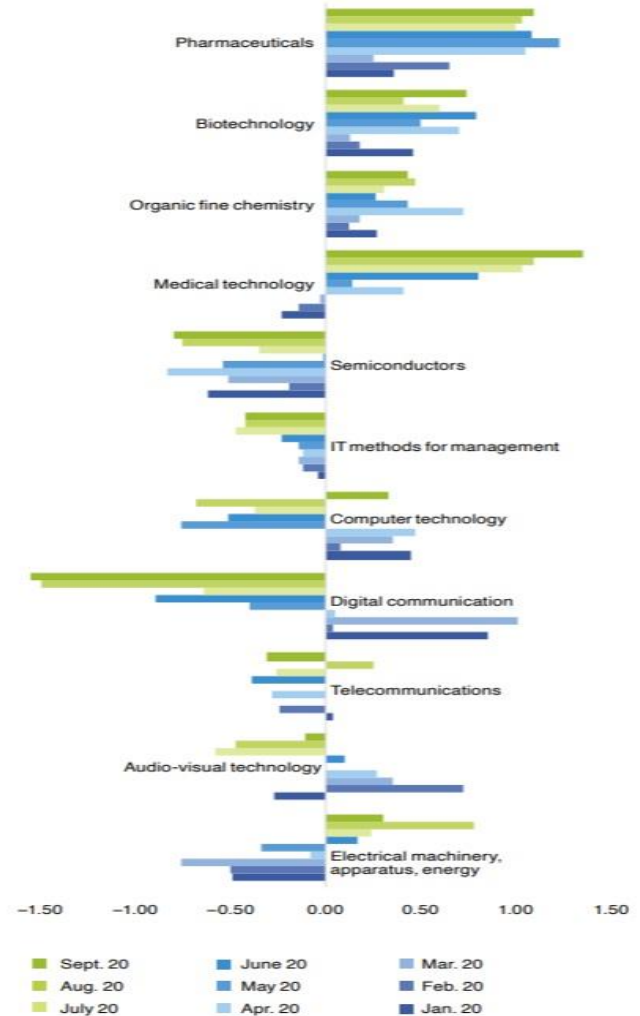
Increase of PCT applications for 3,5% in 2020

Growth in medical technology, pharma and biotechnology

Inventions predate pandemic and does not fully reflect COVID response

Source:
Global Innovation Index Database,
WIPO, 2021.

Figure 6
Percentage point changes in share of PCT applications in 2020



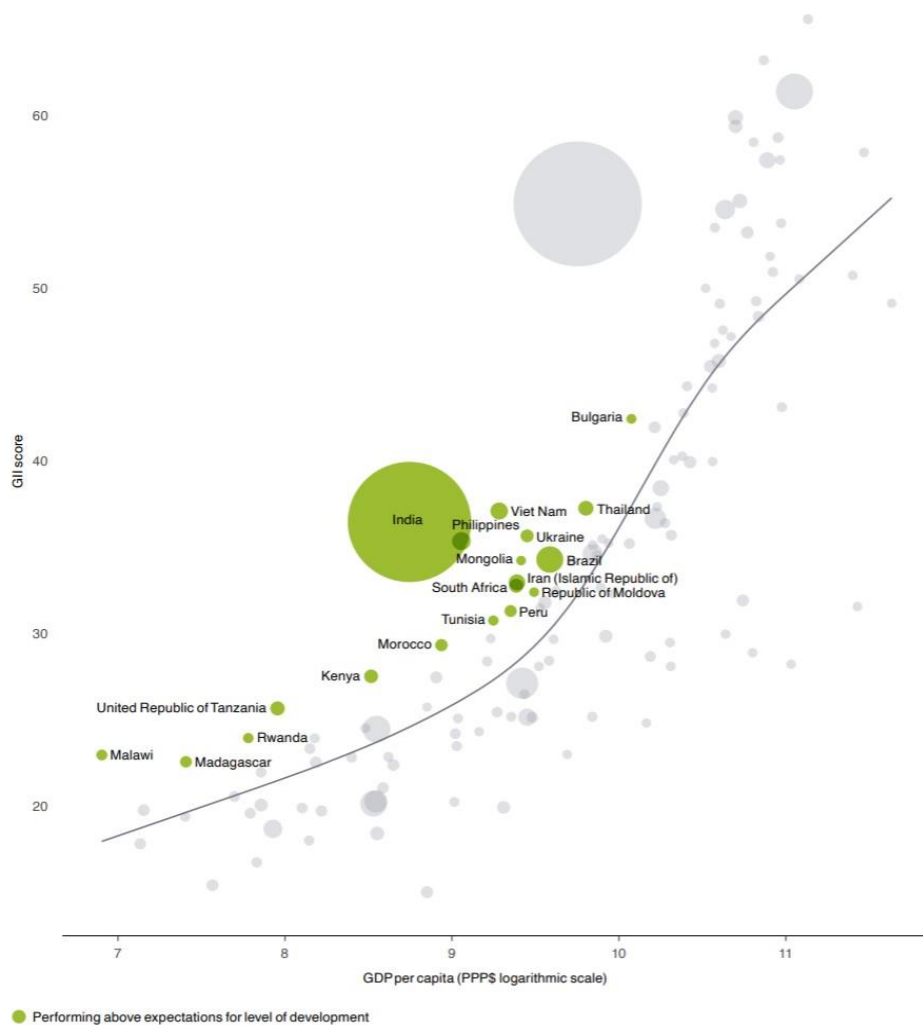
Innovation influences and is
inter – related to economic growth

19 developing economies are
performing in 2020 above expectation on
innovation and relative to
their level of economic development.



Figure 10

The positive relationship between innovation and development

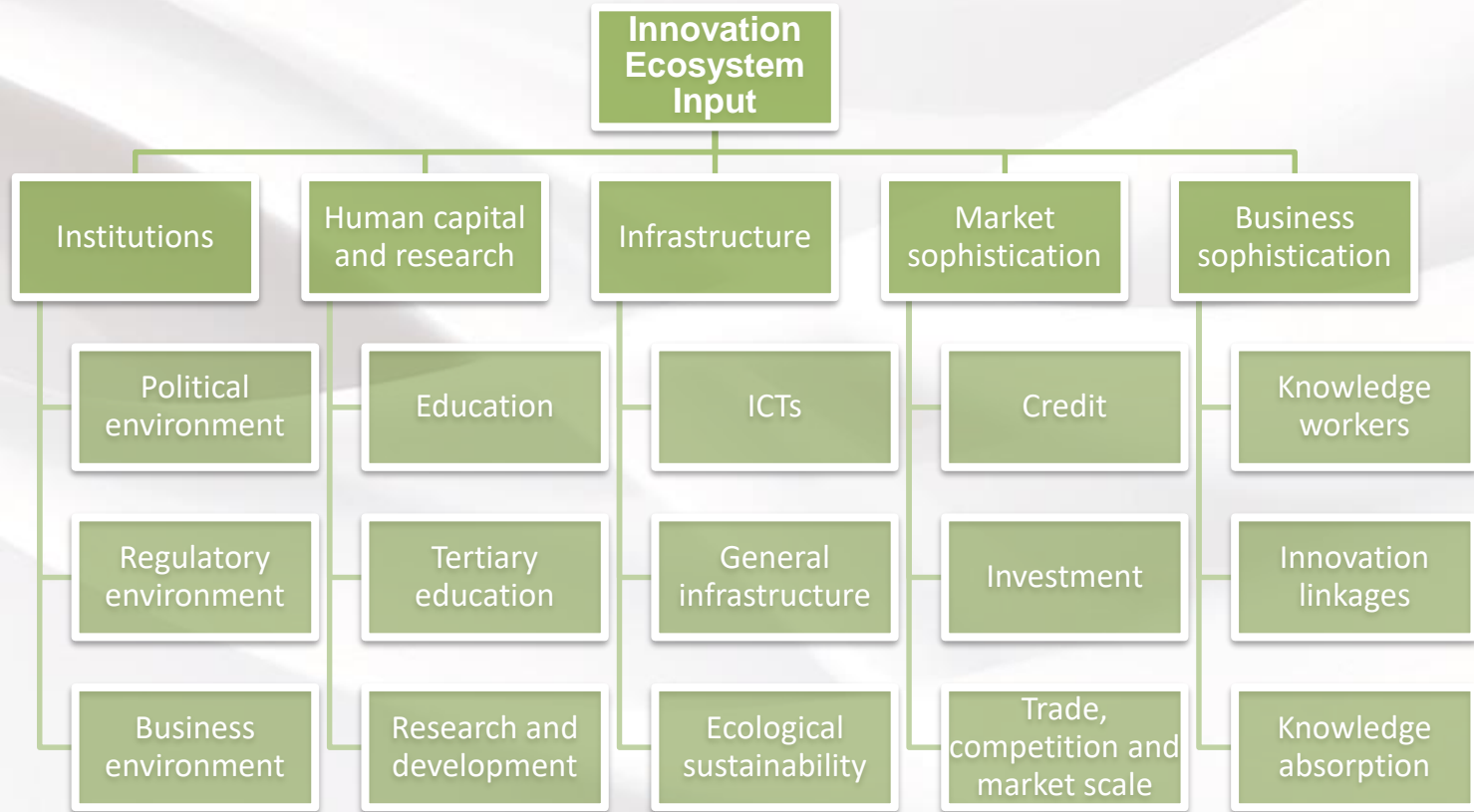


Source:
Global Innovation Index Database,
WIPO, 2021.

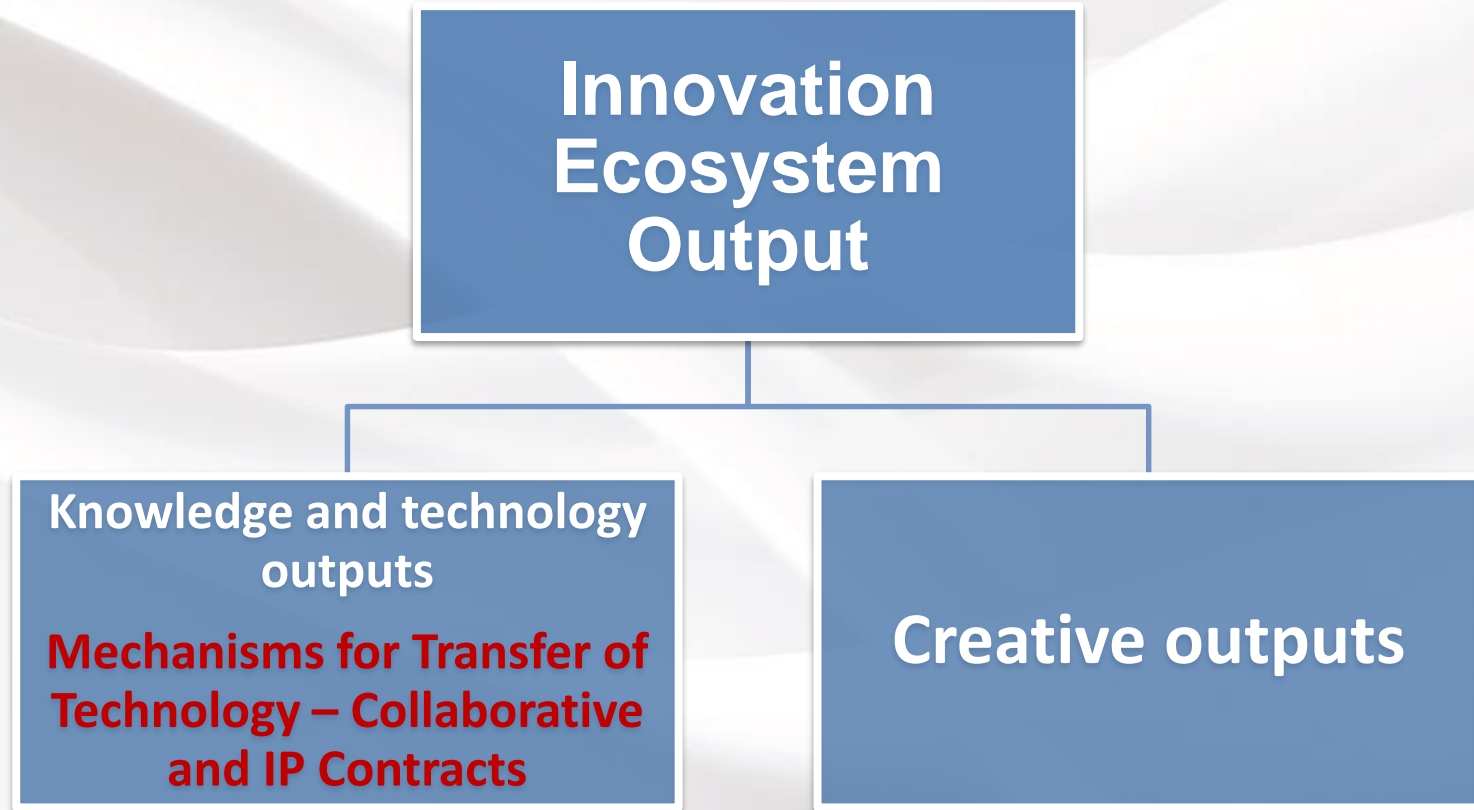
Innovation in the Post COVID-19 Period

- Innovation **divides will be accentuated in the coming years**, across economies, sectors and companies;
- Innovation ecosystems in many emerging economies have become **fragile** and would **need recovery measures**.
- **Challenge for policy makers** - to adopt strategic policies to sustain innovation eco systems as enabling framework for creation, transfer and use of innovation;
- **How to assure Input** in order to **harvest necessary technical and cultural development** – as an output?

Selecting Strategies and other Input Measures – Challenge for Policy Makers



Harvesting Successful Innovation Output



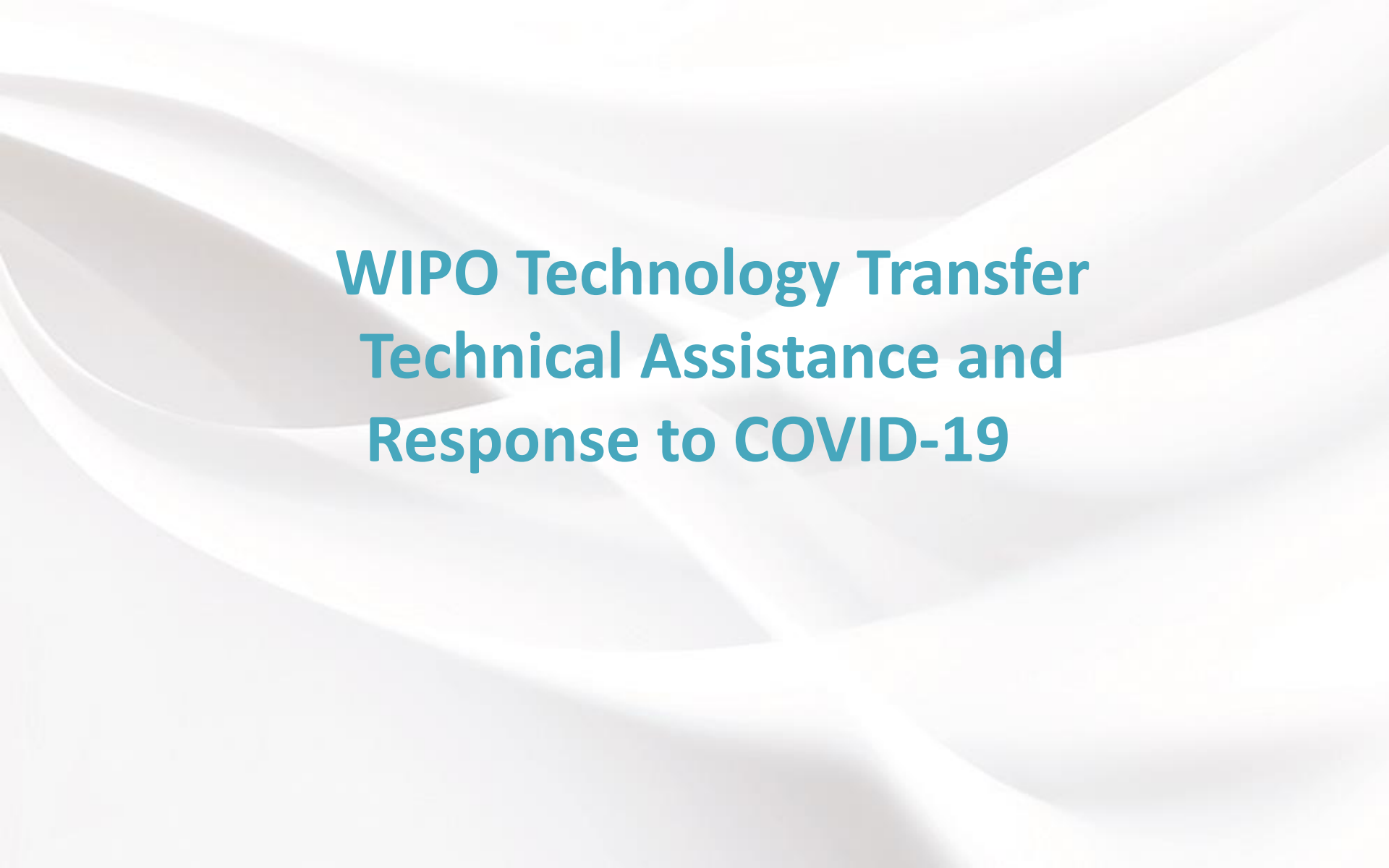
Innovation in, and Access to, COVID-19 Technologies

Sustainable Solution

- Understanding **technology transfer (TT) as a collaborative process** – not one way road;
- **TT** creates long term relations based on mutual interest;
- **Empowering developing countries to become partners and owners;**
 - **Developing preconditions** - innovation eco systems;
 - **Sustainable Commitment** – international and local;
 - Special attention – investment in pools of **skilled professionals** ;
 - **Focused International Collaboration;**
 - **Sustainable Resources;**
 - **Transparent Innovation Markets;**
 - **Enhanced Coordination** among partners – in particular International Organizations and Development Banks,

WIPO COMMITMENT

- Now and during the biennium 2022/23, toward **an effective and global response to the pandemic** ; and
- To continue to support governments to **use IP as a tool, to build back their economies through sustainable development.**



**WIPO Technology Transfer
Technical Assistance and
Response to COVID-19**

Pillars of Institutional IP Eco System – Base for Technical Assistance

DONE!

**Legal
Framework**

DONE!

**IP
Management
Infrastructures**

DONE!

**Human
Capital -
People**



**TT and Commercialization of
Research Outcomes**

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Technology Transfer Legal Framework

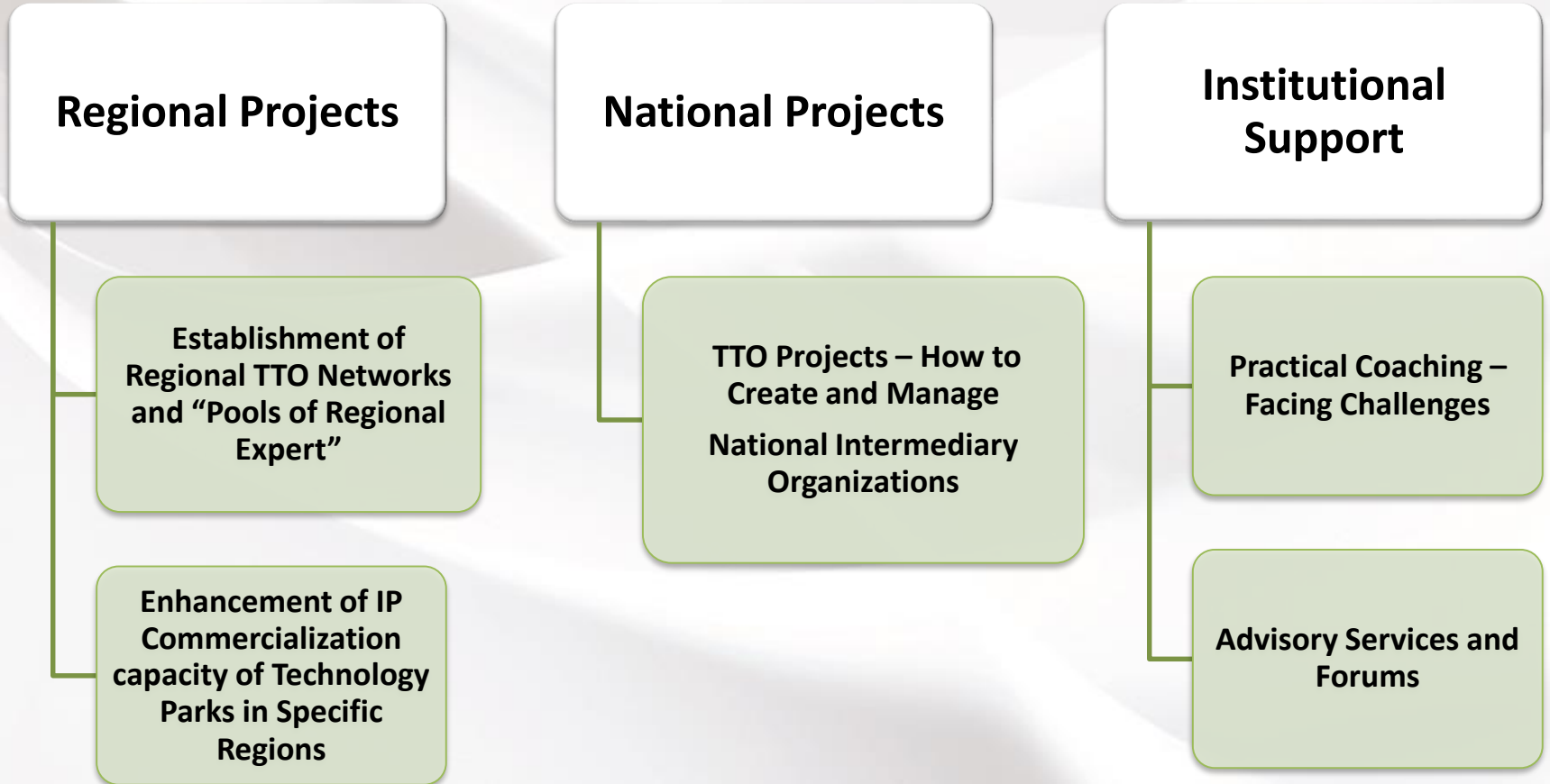
National Level

- Review of national legislation with focus on specific technology transfer policies and guidelines;
- Policy related advisory services in the framework of the longer term national projects such as Projects on the Assessment of Technology Transfer Status with Recommendations for Improvements.

Institutional Level

- Assistance for Development of the National Model of IP Policy for academic institutions – National IP Policy Template;
- Expert coaching services for professionals working on definition of Institutional IP Policies based on WIPO IP Toolkit for Universities and R&D Institutions.

Establishment and Enhancement of Technology Transfer Structures



Development of Human Capital



Standard Modules

- Technology Transfer and IPR Management,
- IP Institutional Policies,
- IP Marketing – how to bring invention from lab to market,
- IP Valuation,
- Development of Negotiation Skills - Successful Technology Licensing (STL) Training Program,
- Case Study Based Coaching Programs.

Special Programs - adjusted to specific sectors and stakeholders – licensing for agro - industry of IP valuation for bio technology sector.

Upcoming:

1. **NEW STL Guide**
2. **IP Valuation Guide**
3. **Incentives for Researchers**

WIPO's Response to COVID-19



WIPO Program and Budget 2022 – 2023

- WIPO, through this proposed Program of Work and Budget, is **committed and resourced to support and facilitate the partnerships and collaboration necessary to scale up vaccine production globally, provide an enabling environment for innovation and technology transfer and to support its members' use of technology to drive good health outcomes.**
- WIPO envisages a number of specific activities during the **2022/23** biennium, building on a strong foundation of working with its members on health and IP issues, including the TRIPS flexibilities, spanning across each of its Strategic Pillars. WIPO will also look beyond the immediate crisis, supporting preparations to combat future pandemics.

WIPO's Response to COVID-19

Envisaged Programs and Activities

- **WIPO will provide a package of technology transfer resources** related to pandemic preparedness – based on eco system needs.
- **Creation of technology transfer structures in developing countries** - special consideration will be given to Technology and Innovation Support Centers (TISCs) and other technology transfer structures in developing countries to ensure that the situation and needs of such countries can be effectively taken into account in project outputs.
- **Patent landscape report will be prepared in 2021** on trends in patenting activity related to vaccines and therapeutic agents specifically targeting COVID-19), and a more complete and **comprehensive report will be issued in 2022**. The report will cover bio-analytics, bioinformatics and other technologies contributing to accelerated development of prophylactics and therapeutics.
- A portal in **PATENTSCOPE** will be made available to improve access to the findings.
- **SMEs and implications of COVID 19** – support in 2022-23 use of IPR management to support the return to the “new normal” business practices;

WIPO's Response to COVID-19

- Study on **IP intensive industries and national economic resilience** - whether countries with a strong reliance on R&D, innovative SMEs and IP intensive industries have proven to be more resilient to the pandemic and even witnessed sector-specific economic;
- **Greater use of trademarks by SMEs and start ups** – better access to Madrid and Hague system to promote branding of enterprises – building economies back better;
- Recognizing the **role of women** in SMEs who have been particularly affected by the COVID-19 pandemic, assistance on **collective branding** (e.g. using collective trademarks and geographical indications) will be reinforced for SMEs and communities, including women entrepreneurs;
- WIPO will develop **sectoral specific capacity building programs** for SMEs;
- New educational programs on **Knowledge Building and Knowledge Sharing**;
- Other programs – as needed;
- **Particular focus on LDCs.**

Thank you!
Fully at your disposal for questions!