

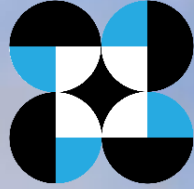


Global Innovation Index (GII):

Tool to Change Policy and Enhance Innovation Capacity

ROWENA CRISTINA L. GUEVARA, Ph.D.
Undersecretary for Research and Development

24 February 2022

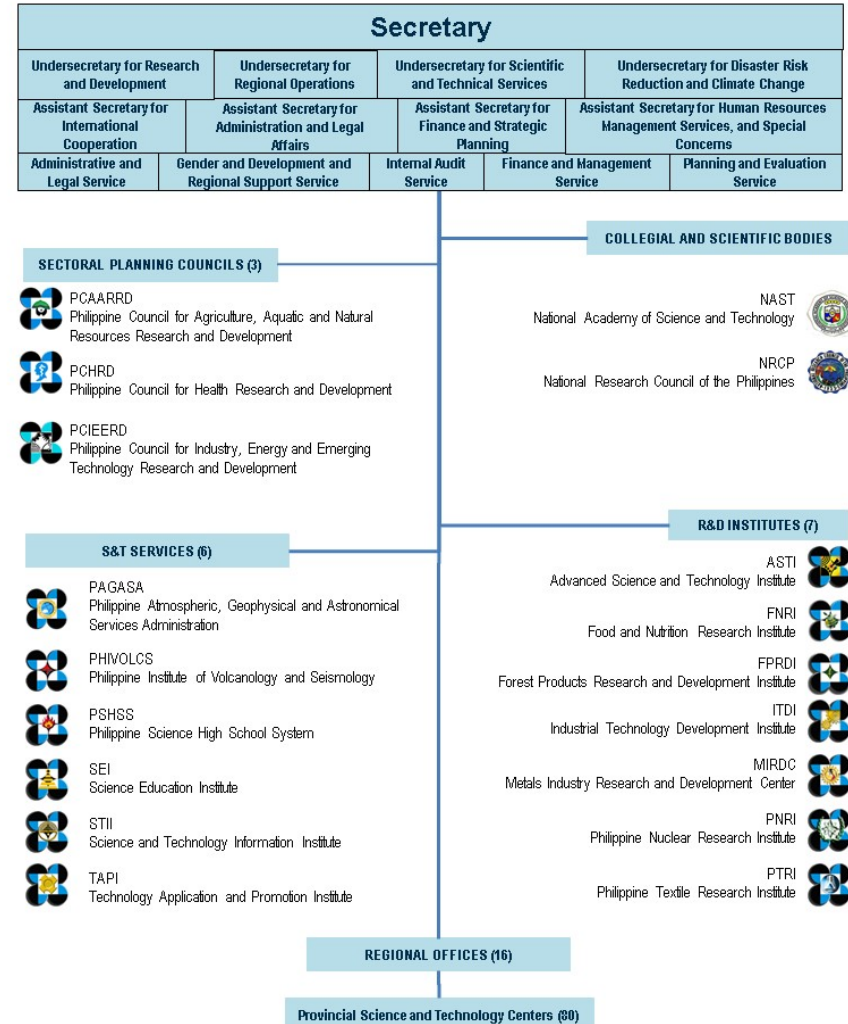


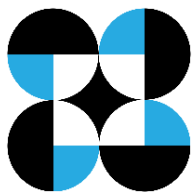
Department of Science and Technology

MANDATE

To provide central direction, leadership and coordination of scientific and technological efforts and ensure that the results therefrom are geared and utilized in areas of maximum economic and social benefits for the people.

DOST Organizational Chart





Metrics of Evaluation

6Ps + **2Is**

1. Publications
2. Patents
3. Products
4. People Services
5. Places and Partnerships
6. Policies

- ✓ **S**ocial Impact
- ✓ **E**conomic Impact

ASEAN Committee on Science, Technology & Innovation

From ASEAN SOCIO-CULTURAL COMMUNITY: contribute to realising an ASEAN Community that is people-centred and socially responsible with a view to achieving enduring solidarity and unity among the nations and peoples of ASEAN by forging a common identity and building a caring and sharing society which is inclusive and harmonious where the well-being, livelihood, and welfare of the peoples are enhanced.

To ASEAN ECONOMIC COMMUNITY: the realisation of the region's end goal of economic integration. It envisions ASEAN as a single market and production base, a highly competitive region, with equitable economic development, and fully integrated into the global economy.

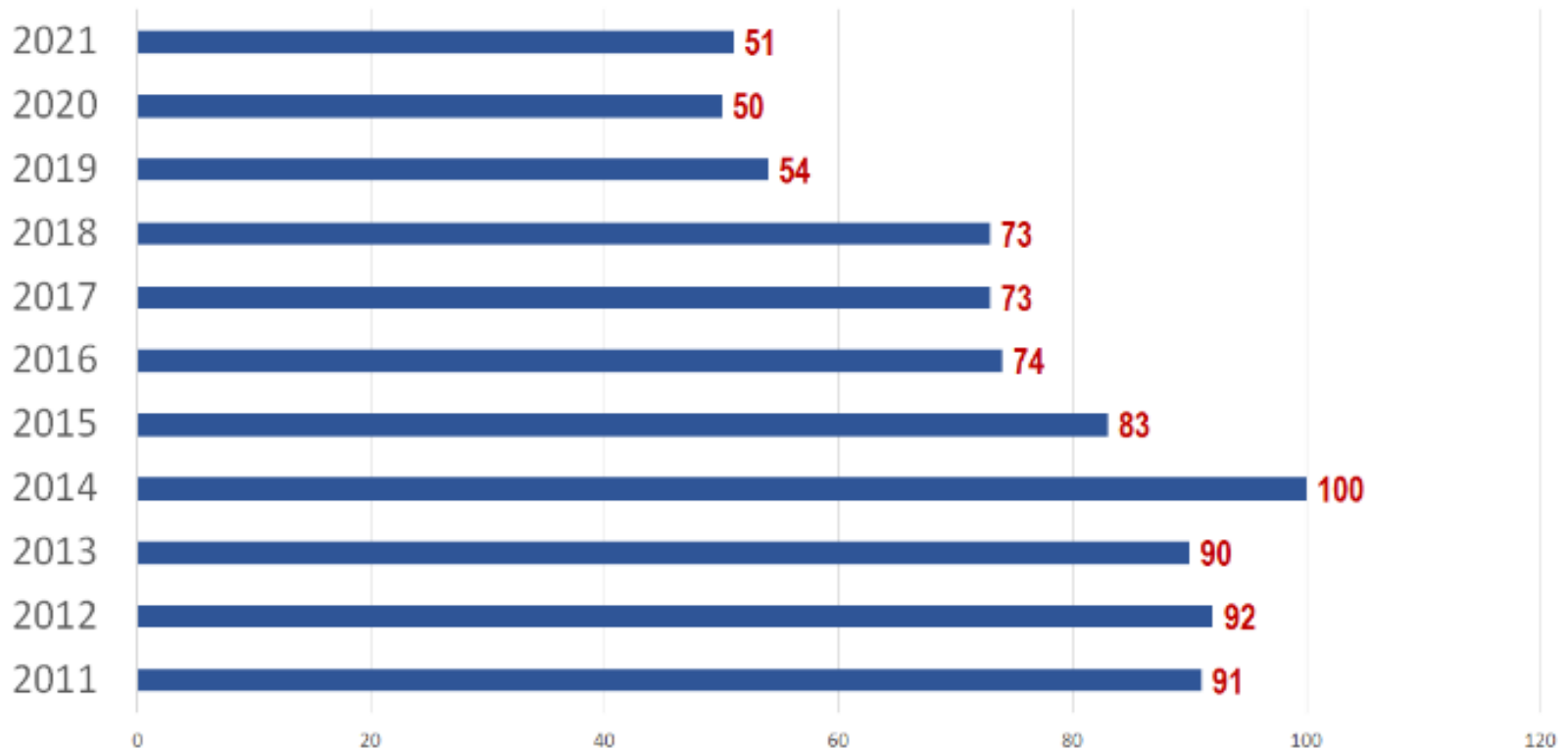
How is innovation measured?



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Philippines progress in the GII

PH Ranking in Global Innovation Index (GI) 2011 to 2021



Philippine Innovation Index

Rankings for Philippines (2019–2021)

| | GII | Innovation inputs | Innovation outputs |
|------|-----|-------------------|--------------------|
| 2021 | 51 | 72 | 40 |
| 2020 | 50 | 70 | 41 |
| 2019 | 54 | 76 | 42 |

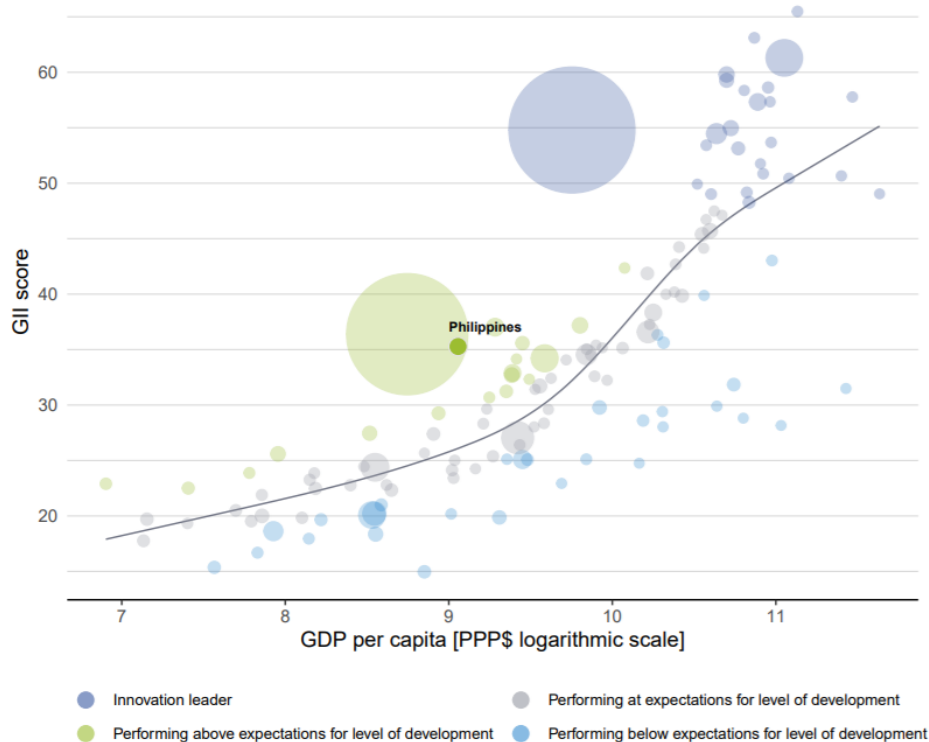
Philippines ranks **4th** among the 34 lower middle-income group economies.

Philippines ranks **11th** among the 17 economies in South East Asia, East Asia, and Oceania.

Philippine Innovation Index

EXPECTED VS. OBSERVED INNOVATION PERFORMANCE

The positive relationship between innovation and development



*Relative to GDP,
Philippines's
performance is above
expectations for its level
of development.*

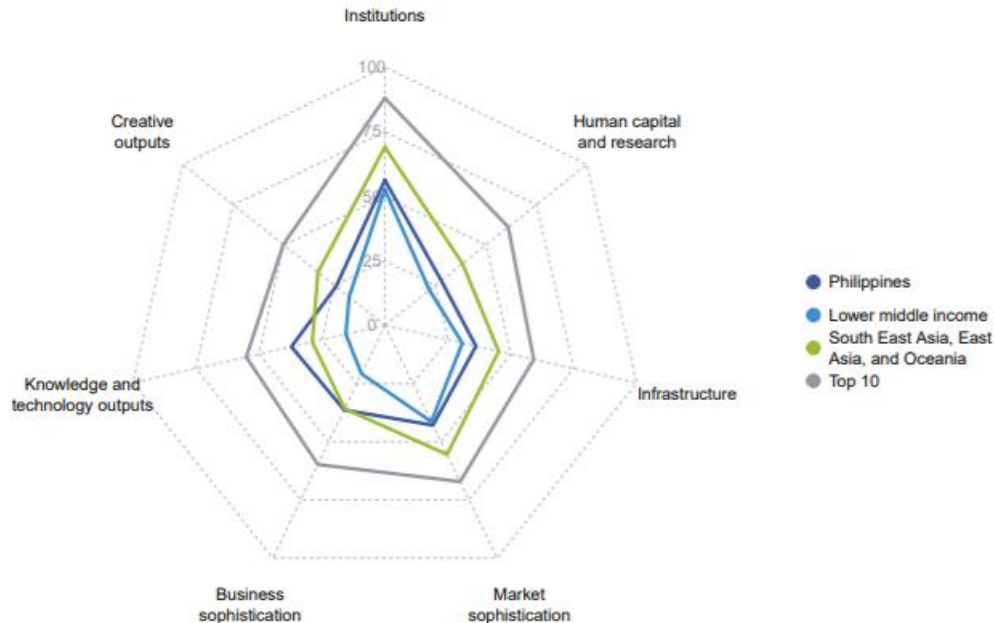


**Global
Innovation
Index 2021**

Philippine Innovation Index

BENCHMARKING AGAINST OTHER LOWER MIDDLE-INCOME GROUP ECONOMIES AND SOUTH EAST ASIA, EAST ASIA, AND OCEANIA

The seven GII pillar scores for Philippines



Lower middle-income group economies

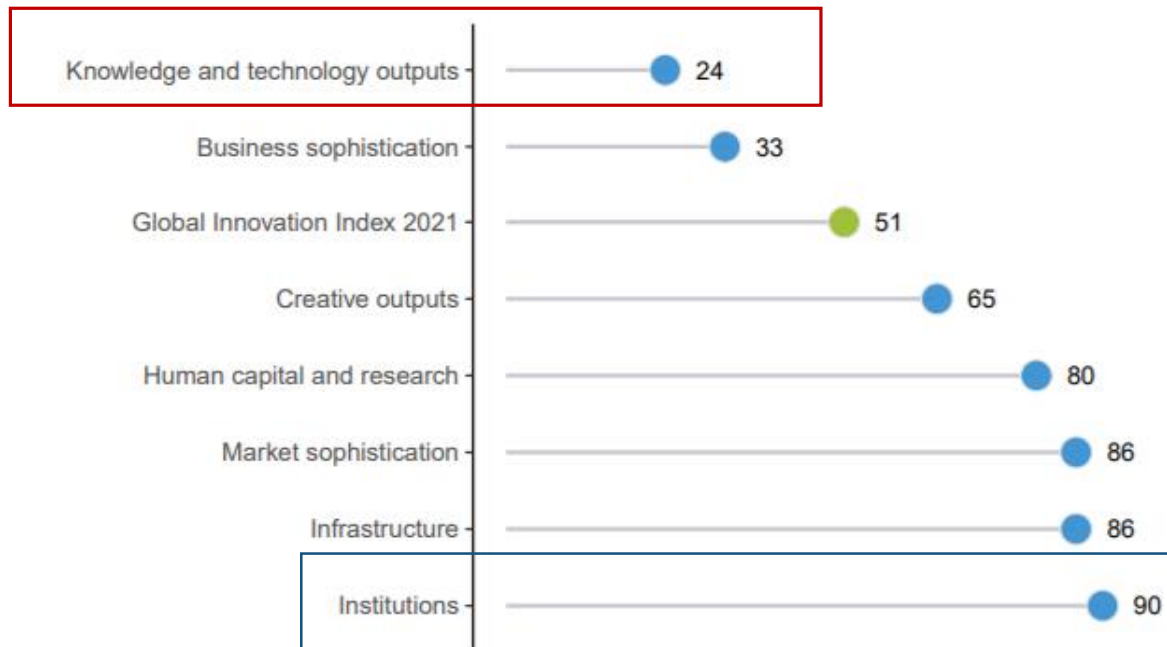
Philippines performs above the lower middle-income group average in all GII pillars.

South East Asia, East Asia, and Oceania

Philippines performs above the regional average in two pillars, namely: Business sophistication; and, Knowledge and technology outputs.

Philippine Innovation Index

The seven GII pillar ranks for Philippines



Note: The highest possible ranking in each pillar is one.

Philippines performs **best in Knowledge and technology outputs** and its weakest performance is in **Institutions**.

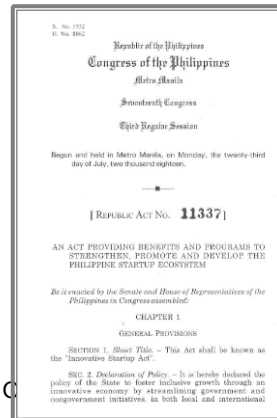
Philippine Innovative Startup Act

Republic Act No. 11337

Providing Benefits and Programs to Strengthen, Promote and Develop the Philippine STARTUP Ecosystem



*Philippine Startup Development Program is set to offer “**programs, benefits, and incentives**” for both startups and enablers.*



Strengths of Philippines in GII 2021

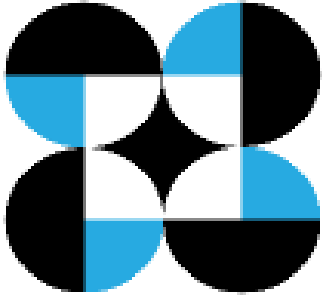
- ❑ 5.3.2 High-tech imports, % total trade (1)
- ❑ 6.3.3 High-tech exports, % total trade (1)
- ❑ 6.3 Knowledge diffusion (5)
- ❑ 5.1.2 Firms offering formal training, % (8)
- ❑ 6.1.3 Utility models by origin/bn PPP\$ GDP (8)
- ❑ 5.3 Knowledge absorption (10)
- ❑ 7.2.5 Creative goods exports, % total trade (10)
- ❑ 6.3.4 ICT services exports, % total trade (13)
- ❑ 2.2.2 Graduates in science and engineering, % (19)
- ❑ 3.3.1 GDP/unit of energy use (21)
- ❑ 4.3 Trade, diversification, and market scale (21)
- ❑ 4.3.1 Applied tariff rate, weighted avg., % (22)
- ❑ 4.3.3 Domestic market scale, bn PPP\$ (27)

Weakness of Philippines in GII 2021



- ❑ 1.3.1 Ease of starting a business (125)
- ❑ 6.1.4 Scientific and technical articles/bn PPP\$ GDP (124)
- ❑ 4.1 Credit (119)
- ❑ 1.2.3 Cost of redundancy dismissal (114)
- ❑ 4.1.1 Ease of getting credit (113)
- ❑ 6.2.2 New businesses/th pop. 15–64 (109)
- ❑ 5.2.3 GERD financed by abroad, % GDP (92)
- ❑ 7.2.4 Printing and other media, % manufacturing (87)
- ❑ 2.1.4 PISA scales in reading, maths and science (78)
- ❑ 4.2.3 Venture capital investors, deals/bn PPP\$ GDP (77)
- ❑ 2.3.3 Global corporate R&D investors, top 3, mn US\$ (42)


Action of Philippines

1. Dialogue with other government agencies on the submission of **updated data** to UNESCO Institute for Statistics.
2. Submission of particular **items under Weaknesses** to appropriate government agency.
3. Science for Change Program bill



**House of Representatives OKs
DOST - Science for Change Bill
on the 3rd and final reading**

www.s4cp.dost.gov.ph  [dost.s4cp](https://www.facebook.com/dost.s4cp)



S4CP Bill was approved in the lower house on September 21, 2021, but no hearing yet in Senate



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