































Objectives/Results	Indicator	Baseline ^{a/}							Plan Target ^{b/}	Likelihood of Achieving the PDP target	Responsible Agency ^{c/}	Reporting Entity ^{d/}
CHAPTER 14: VIGOROUSLY ADVANCING SCIENCE, TECHNOLOGY, AND INNOVATION												
Societal Goal												
A healthy and resilient Philippines												
Intermediate Goal												
Increasing growth potential												
Chapter Outcome 1												
Scale-up Technology Adoption												
Sub-chapter Outcome 1.1												
Science, Technology and Innovation (STI) application in agriculture, industry, services, and health sectors increased	Proportion of private Agricultural Forestry and Fisheries (AFF), and Industry and Services Research and Development (R&D) to sectoral Gross Value Added (GVA) increased (in percent)	0.11		0.21					Increasing		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
	AFF	0.07		0.13					Increasing		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
	Industry	0.13		0.42					Increasing		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
	Services	0.11		0.09					Increasing		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
	Proportion of public AFF, and Industry and Services R&D to sectoral GVA increased (in percent)	0.08		0.13					Increasing		DOST	DOST
		2015	2017	2018	2019	2020	2021	2022	2022			
	AFF	0.25		0.53					Increasing		DOST	DOST
		2015	2017	2018	2019	2020	2021	2022	2022			
	Industry	0.11		0.03					Increasing		DOST	DOST
		2015	2017	2018	2019	2020	2021	2022	2022			
Services	0.05		0.15					Increasing		DOST	DOST	
	2015	2017	2018	2019	2020	2021	2022	2022				
Proportion of intellectual property products expenditures to GDP increased (%)	0.46	0.57	0.65	0.73	0.73	0.78	0.75	Increasing		IPOPIL	IPOPIL	
	2016	2017	2018	2019	2020	2021	2022	2022				
Aggregate Outputs												
Number of Filipino patents granted increased (incremental) ^{e/}	30	25	28	35	23	44	62	38			IPOPIL	IPOPIL
	2016	2017	2018	2019	2020	2021	2022	2022				
Number of Filipino utility models registered increased (incremental) ^{e/}	552	542	1,051	965	942	859	614	750			IPOPIL	IPOPIL
	2016	2017	2018	2019	2020	2021	2022	2022				

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	Number of Filipino industrial designs registered increased (incremental) ^{e/}	508	1014	955	729	341	258	295	622		IOPHIL	IOPHIL
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of Filipino patents filed increased ^{e/}	245	284	464	432	411	454	490	394		IOPHIL	IOPHIL
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of Filipino utility models filed increased ^{e/}	1,100	1,337	2,103	2,167	1,238	1,553	1,357	1,848		IOPHIL	IOPHIL
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of Filipino industrial designs filed increased ^{e/}	959	725	875	1,018	583	647	528	873		IOPHIL	IOPHIL
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of Filipino patents filed under Patent Cooperation Treaty (PCT) increased	2	2	0	3	7	4	2	4		IOPHIL	IOPHIL
		2016	2017	2018	2019	2020	2021	2022	2022			
Sub-chapter Outcome 1.2												
Investments in STI-based startups, enterprises, and spin-offs increased	Global Innovation Index (GII) - Investment Index percentile rank improved ^{f/}	17	13	6	8	35	23	59	25		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
Aggregate Outputs												
	Number of technology business incubators (TBI) graduates increased (i.e. enterprises and spin-offs)	41	33	40	72	80	81	30	1,000 ^{g/}		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of innovation hubs increased (e.g. TBIs, innovation centers, niche centers, etc.) (cumulative) ^{h/}	23	42	61	100	115	135	190	128		DOST and DICT	DOST and DICT
		2016	2017	2018	2019	2020	2021	2022	2022			
	R&D expenditure of business enterprises increased (in PHP Billion) ^{i/}	8.1		32.6					Increasing		DOST	DOST
		2015	2017	2018	2019	2020	2021	2022	2022			
Chapter Outcome 2												
Stimulate Creativity and Innovation												
Sub-chapter Outcome 2.1												
Creative capacity for knowledge and technology generation, acquisition, and adoption enhanced	Overall Global Innovation Index (GII) rank improved ^{j/}	Top 58%	Top 57%	Top 58%	Top 41%	Top 38%	Top 38%	Top 44%	Top 33%		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
	GII - Knowledge and Technology Outputs percentile rank improved ^{k/}	66	Top 33%	Top 39%	Top 24%	Top 19%	Top 18%	Top 31%	Top 33%		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			

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	GII - Creative Outputs percentile rank improved ^{l/}	Top 75%	Top 74%	Top 73%	Top 49%	Top 43%	Top 49%	Top 44%	Top 40%		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
Aggregate Outputs												
	R&D expenditure as a proportion of GDP increased (in percent, incremental) ^{m/}	0.16		0.3					0.5		DOST	DOST
		2015	2017	2018	2019	2020	2021	2022	2022			
	Number of Researchers per million population increased (incremental) ^{m/}	200		356					300		DOST	DOST
		2015	2017	2018	2019	2020	2021	2022	2022			
	Number of Science, Technology, Engineering, and Mathematics (STEM) enrollees in higher education institutes (HEIs) increased (in million, incremental)	1.29	1.02	1.13	1.29	1.37	1.55		2.03		CHED	CHED
		AY 2015-2016	2017	2018	2019	2020	2021	2022	2022			
	Number of STEM graduates in HEIs increased	183,000	247,608	275,038	194,499	215,120			318,000		CHED	CHED
		AY 2015-2016	2017	2018	2019	2020			2022			
	Number of Balik Scientists Engaged increased (incremental) ^{n/}	25	36	27	57	34	33	35	151		DOST	DOST
		2016	2017	2018	2019	2020	2021	2022	2022			
Sub-chapter Outcome 2.2												
	Aggregate Outputs											
Open collaboration among actors in the STI	Number of collaborations between HEIs and industries increased (incremental)	70	161	164	288	214	238	220	150		CHED	CHED
		2014	2017	2018	2019	2020	2021	2022	2022			
	Number of collaborations between HEIs and government increased (NGAs and LGUs) (incremental)	300	310	451	321	301	359	320	500		CHED	CHED
		2015	2017	2018	2019	2020	2021	2022	2022			

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	Number of STI-related international cooperations of HEIs increased (incremental) ^{o/}	40	78	104	151	149	159	100		CHED and DICT	CHED and DICT	
		2015	2017	2018	2019	2020	2021	2022	2022			

^{a/} Actual data as of December 2016, or latest available.

^{b/} May either be cumulative or incremental target value at the end of the Plan period.

^{c/} Concerned NEDA Board Committees/Cabinet Cluster/Inter-Agency Committees responsible for delivering the outcomes and the concerned implementing agencies for delivering the outputs

^{d/} Lead/responsible agency for reporting progress on indicator targets.

^{e/} There are regional targets from 2020 to 2022 but there are no regional targets from 2017 to 2019. This is because the regional targets were only introduced in 2020.

^{f/} A percentile rank of 17 in 2016 means that 17% of the countries in the WIPO ranking scored equal to or lower than the Philippines. It also indicates that 83% of the countries in the WIPO ranking scored higher than the Philippines.

^{g/} The end of Plan target of 1,000 is the sum of all targets from 2017 to 2020. Said targets are attainable since these are within the DOST's capacity to produce TBI graduates. Around 1,000 enterprises and spin-offs are expected to graduate from TBIs from 2017 to 2022.

^{h/} The targets were revised upwards by the DOST on 2020 to 2022 due to the need to establish more innovation hubs to support economic recovery. In addition, this indicator has now become a combination of the DOST's innovation hubs and the DICT's Digital Transformation Center (DTC) Innovation Hubs.

^{i/} The PSA and DOST are requested to produce this data annually instead of every two years.

^{j/} On computation of overall GII rank targets, given that the end of Plan target of 2022 is at top 33%, the Philippines is expected to rank in increments of 4 percentiles each year. Since this indicator has only been added in 2020, it has no targets from 2017 to 2019. But there are targets from 2020 to 2022. There is also a baseline data for 2016.

^{k/} A percentile rank of top 34% in 2017 means that the Philippines is targetted to be at 66 percentile rank or even higher.

^{l/} Since this indicator was only added in 2020, it has no targets from 2017 to 2019. But there are targets from 2020 to 2022. There is also a baseline data for 2016.

^{m/} The PSA and DOST are requested to produce this data annually instead of every two years.

^{n/} The targets from 2020 to 2022 were adjusted upwards in anticipation of the increase in the number of Balik Scientists engaged due to the signing into law of the Republic Act No. 11035, also known as "An Act Institutionalizing the Balik Scientist Program." Said law increased the incentives for the Balik Scientists.

^{o/} The DICT's targets on the "partnerships of the Philippine ICT Academy with foreign HEIs" has been combined with this indicator.

List of Acronyms:

CHED - Commission on Higher Education

DICT - Department of Information and Communications Technology

DOST - Department of Science and Technology

IPOPIL - Intellectual Property Office of the Philippines