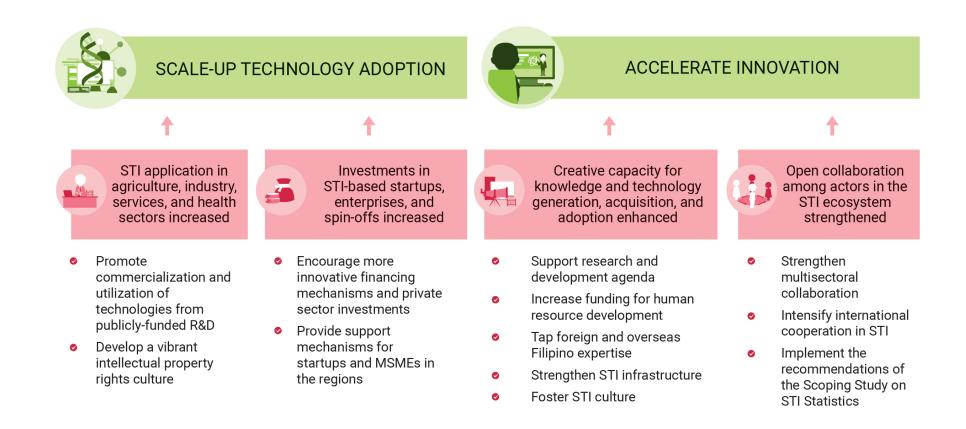
Vigorously Advancing Science, Technology, and Innovation





Objectivee/Peculte	DG Tier 1 Indicator		Basel	ine ^a			Annual Pl	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
In	dicators	Y	/ear	Value	2017	2018	2019	2020	2021	2022	Target ^b	Verification	Agency ^c	Entity ^d	Assumptions and Risks
ocietal Goal															
healthy and resilient Ph	ilippines														
ntermediate Goal															
creasing growth potentia	al														
hapter Outcome 1															
cale-up Technology Ado	ption														
ubchapter Outcome 1.	1														
cience, Technology nd Innovation (STI) pplication in griculture, industry, ervices, and health ectors increased	Proportion of private Agricultural Forestry Fisheries (AFF), and and Services Resear Development (R&D) sectoral Gross Value (GVA) increased (in p AFF	and Industry ch and to Added percent)	2016	0.11	Increasing	Increasing		Increasing	Increasing		Increasing	PSA and DOST reports	DOST	DOST	
	Industry	2	2016	0.13	Increasing										
	Services		2016	0.11	Increasing										
	Proportion of public A Industry and Services sectoral GVA increas (in percent)	R&D to	2015	0.08	Increasing	PSA and DOST reports	DOST	DOST							
	AFF	2	2015	0.25	Increasing										
	Industry	2	2015	0.11	Increasing										
	Services	2	2015	0.05	Increasing										
	Proportion of intellect property products expenditures to GDP increased (%)		2016	0.46	Increasing	National Income Accounts	IPOPHL	IPOPHL							
Aggregate Outputs						•					•		·		
	Number of technolog adoptors increased (incremental)	y 2	2015	2,700	3,000	3,300	3,700	4,000	4,500	5,000	5,000	CHED reports	CHED	CHED	

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

bjectives/Results	SDG Tier 1	Indicator	Bas	eline ^a	Annual Plan Targets						End of Plan	Means of	Responsible	Reporting	Assumptions and Risk
bjectives/Results	Indicators	Indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target ^b	Verification	Agency ^c	Entity ^d	Assumptions and Risks
		Number of Filipino patents	2016	30	33	34	36	38	30	38	38	IPOPHL reports	IPOPHL	IPOPHL	
		granted increased													
		(incremental) ^e													
		NCR	2016	19	N/A	N/A	N/A	N/A	8	14	12				
		CAR	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Region I	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Region II	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Region III	2016	0	N/A	N/A	N/A	N/A	5	5	5				
		Region IV-A	2016	4	N/A	N/A	N/A	N/A	1	2	2				
		Region IV-B	2016	1	N/A	N/A	N/A	N/A	1	1	1				
		Region V	2016	2	N/A	N/A	N/A	N/A	1	1	1				
		Region VI	2016	2	N/A	N/A	N/A	N/A	1	1	1				
		Region VII	2016	1	N/A	N/A	N/A	N/A	1	1	1				
		Region VIII	2016	1	N/A	N/A	N/A	N/A	1	1	1				
		Region IX	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Region X	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Region XI	2016	0	N/A	N/A	N/A	N/A	2	5	5				
		Region XII	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Caraga	2016	0	N/A	N/A	N/A	N/A	2	2	2				
		BARMM	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Not Specified	2016	-	N/A	N/A	N/A	N/A	-	-	-				
		Number of Filipino utility	2016	552	594	635	680	727	584	750	750	IPOPHL reports	IPOPHL	IPOPHL	
		models registered increased	2010	552	334	033	000	121	504	750	750		IFOFTIL		
		(incremental) ^e													
		· /	0010	0.50						400	400				
		NCR		253	N/A	N/A	N/A	N/A	143	182	182				
		CAR	2016	41	N/A	N/A	N/A	N/A	22	28	28				
		Region I	2016	30	N/A	N/A	N/A	N/A	19	24	24				
		Region II	2016	27	N/A	N/A	N/A	N/A	29	38	38				
		Region III	2016	27	N/A	N/A	N/A	N/A	29	38	38				
		Region IV-A	2016	16	N/A	N/A	N/A	N/A	22	29	29				
		Region IV-B	2016	1	N/A	N/A	N/A	N/A	3	5	5				
		Region V	2016	27	N/A	N/A	N/A	N/A	20	26	26				
		Region VI	2016	42	N/A	N/A	N/A	N/A	71	92	92				
		Region VII	2016	24	N/A	N/A	N/A	N/A	112	144	144				
		Region VIII	2016	21	N/A	N/A	N/A	N/A	37	47	47				
		Region IX	2016	0	N/A	N/A	N/A	N/A	5	7	7				
		Region X	2016	8	N/A	N/A	N/A	N/A	19	24	24				
		Region XI	2016	10	N/A	N/A	N/A	N/A	12	15	15				
		Region XII	2016	22	N/A	N/A	N/A	N/A	26	33	33				
		Caraga	2016	2	N/A	N/A	N/A	N/A	12	15	15				
		BARMM	2016	1	N/A	N/A	N/A	N/A	3	3	3				
	1	Not Specified	2016	-	N/A	N/A	N/A	N/A	-	-	-				

bjectives/Results	SDG Tier 1	Indicator	Bas	eline ^a			Annual Pl	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Jeenvesikesuits	Indicators	mulcator	Year	Value	2017	2018	2019	2020	2021	2022	Target ^b	Verification	Agency ^c	Entity ^d	Assumptions and Kis
		Number of Filipino industrial	2016	508	542	569	597	627	494	622	622	IPOPHL reports	IPOPHL	IPOPHL	
		designs registered increased													
		(incremental) ^e													
		NCR	2016	375	N/A	N/A	N/A	N/A	325	413	413				
		CAR	2016	1	N/A	N/A	N/A	N/A	5	6	6				
		Region I	2016	0	N/A	N/A	N/A	N/A	7	8	8				
		Region II	2016	6	N/A	N/A	N/A	N/A	7	8	8				
		Region III	2016	24	N/A	N/A	N/A	N/A	17	21	21				
		Region IV-A	2016	51	N/A	N/A	N/A	N/A	48	61	61				
		Region IV-B	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Region V	2016	12	N/A	N/A	N/A	N/A	25	31	31				
		Region VI	2016	7	N/A	N/A	N/A	N/A	10	13	13				
		Region VII	2016	24	N/A	N/A	N/A	N/A	23	27	27				
		Region VIII	2016	1	N/A	N/A	N/A	N/A	2	2	2				
		Region IX	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Region X	2016	1	N/A	N/A	N/A	N/A	4	5	5				
		Region XI	2016	4	N/A	N/A	N/A	N/A	13	17	17				
		Region XII	2016	2	N/A	N/A	N/A	N/A	3	4	4				
		Caraga	2016	0	N/A	N/A	N/A	N/A	2	3	3				
		BARMM	2016	0	N/A	N/A	N/A	N/A	1	1	1				
		Not Specified	2016	-	N/A	N/A	N/A	N/A	-	-	-				
		Number of Filipino patents	2016	245	N/A	N/A	325	348	353	394	394	IPOPHL reports	IPOPHL	IPOPHL	
		filed increased ^e		-									-	-	
		NCR	2016	115	N/A	N/A	N/A	N/A	141	154	154				
		CAR	2010	3	N/A	N/A	N/A	N/A N/A	3	4	4				
		Region I	2010	0	N/A	N/A N/A	N/A	N/A N/A	6	4	4				
		Region II	2016	0	N/A	N/A N/A	N/A	N/A N/A	3	4	4		-		
		Region III	2016	18	N/A	N/A N/A	N/A	N/A N/A	23	26	26		-		
		Region IV-A	2016	26	N/A N/A	N/A N/A	N/A N/A	N/A N/A	 50	20 54	20 54		1		
		Region IV-A	2010	3	N/A	N/A	N/A	N/A N/A	9	10	10				
		Region V	2016	14	N/A	N/A N/A	N/A	N/A N/A	28	31	31		1		
		Region VI	2010	14	N/A	N/A	N/A	N/A	16	19	19				
		Region VI	2010	10	N/A	N/A	N/A	N/A	28	32	32				
		Region VIII	2010	26	N/A	N/A	N/A	N/A N/A	7	8	32 8				
		Region IX	2016	20	N/A N/A	N/A	N/A	N/A N/A	7	8	8		-		
		Region X	2010	1	N/A	N/A	N/A	N/A	8	9	9				
		Region XI	2016	10	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0 10	12	9 12		-		
		Region XI	2016	0	N/A N/A	N/A N/A	N/A N/A	N/A N/A	3	4	4		+		
		~	2016	7	N/A N/A	N/A N/A	N/A N/A	N/A N/A	8	4 9	4 9				
		Caraga BARMM	2016	0	N/A N/A	N/A N/A	N/A N/A	N/A N/A	3	3	3				
			2016	-		N/A N/A	N/A N/A		3	3					
	1	Not Specified	2010	-	N/A	IN/A	IN/A	N/A	-		-		1		

pjectives/Results	SDG Tier 1	Indicator	Bas	eline ^a			Annual P	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
jectives/Results	Indicators		Year	Value	2017	2018	2019	2020	2021	2022	Target ^b	Verification	Agency ^c	Entity ^d	
		Number of Filipino utility	2016	1,100	N/A	N/A	1,662	1,862	1,380	1,848	1,848	IPOPHL reports	IPOPHL	IPOPHL	
		models filed increased ^e													
		NCR	2016	313	N/A	N/A	N/A	N/A	266	356	356				
		CAR	2016	63	N/A	N/A	N/A	N/A	16	22	22				
		Region I	2016	35	N/A	N/A	N/A	N/A	42	56	56				
		Region II	2016	45	N/A	N/A	N/A	N/A	57	76	76				
		Region III	2016	25	N/A	N/A	N/A	N/A	35	47	47				
		Region IV-A	2016	35	N/A	N/A	N/A	N/A	74	99	99				
		Region IV-B	2016	6	N/A	N/A	N/A	N/A	13	17	17				
		Region V	2016	46	N/A	N/A	N/A	N/A	49	66	66				
		Region VI	2016	68	N/A	N/A	N/A	N/A	214	288	288				
		Region VII	2016	79	N/A	N/A	N/A	N/A	238	319	319				
		Region VIII	2016	29	N/A	N/A	N/A	N/A	140	187	187				
		Region IX	2016	8	N/A	N/A	N/A	N/A	9	12	12				
		Region X	2016	10	N/A	N/A	N/A	N/A	95	126	126				
		Region XI	2016	16	N/A	N/A	N/A	N/A	27	37	37				
		Region XII	2016	25	N/A	N/A	N/A	N/A	32	42	42				
		Caraga	2016	14	N/A	N/A	N/A	N/A	72	96	96				
		BARMM	2016	1	N/A	N/A	N/A	N/A	1	2	2				
		Not Specified	2016	282	N/A	N/A	N/A	N/A	-	-	-				
		Number of Filipino industrial	2016	959	N/A	N/A	893	910	675	873	873	IPOPHL reports	IPOPHL	IPOPHL	
		designs filed increased ^e											-		
		NCR	0040	570	N/A	N/A	N/A	N/A	440	559	559				
		CAR	2016 2016	578 19	N/A	N/A N/A	N/A N/A	N/A N/A	2	4					
			2016	19	N/A	N/A N/A	N/A N/A	N/A N/A	8	4	4				
		Region I	2016	5	N/A	N/A N/A	N/A N/A	N/A N/A	29	38	38		-		
		Region II	2016	40	N/A	N/A N/A	N/A N/A	N/A N/A	31	40	40		-		
		Region III	2016	40 91	N/A	N/A N/A	N/A N/A	N/A N/A	48	40 62	62				
		Region IV-A	2016	91	N/A	N/A N/A	N/A N/A	N/A N/A	40	3	3				
		Region IV-B	2016	31	N/A	N/A N/A	N/A N/A	N/A N/A	11	3 15	15				
		Region V	2016	7	N/A	N/A N/A	N/A N/A	N/A N/A	28	36	36		-		
		Region VI	2016	28	N/A	N/A N/A	N/A N/A	N/A N/A	18	24	24				
		Region VII Region VIII	2016	20	N/A	N/A	N/A	N/A N/A	2	4	4		-		
		Region IX	2016	0	N/A	N/A	N/A N/A	N/A N/A	2 1	4	4		-		
		Region X	2010	1	N/A	N/A	N/A	N/A N/A	21	28	28				
		Region XI	2016	9	N/A	N/A	N/A N/A	N/A N/A	30	39	39		-		
		0	2016	9	N/A	N/A N/A	N/A N/A	N/A N/A	3	5	5		-		
		Region XII Caraga	2016	9	N/A	N/A N/A	N/A N/A	N/A N/A	3	2	2		+		
		BARMM	2016	9	N/A	N/A N/A	N/A N/A	N/A N/A	1	2	2		+		
				138	N/A N/A	N/A N/A	N/A N/A	N/A N/A	-	2	-				
		Not Specified	2016			-		-							
		Number of Filipino patents	2018	2	N/A	N/A	2	3	3	4	4	IPOPHL reports	IPOPHL	IPOPHL	
		filed under Patent Cooperation Treaty (PCT) increased													
		meany (PCT) increased													

Objectives/Results	SDG Tier 1	Indicator	Bas	elineª			Annual Pl	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Objectives/Results	Indicators	indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target ^b	Verification	Agency ^c	Entity ^d	Assumptions and Risks
Subchapter Outcome	e 1.2														
Investments in STI-based startups, enterprises, and spin-offs increased		Global Innovation Index (GII) - Investment Index percentile rank improved [†]	2016	17	18	19	20	22	24	25	25	WIPO reports	DOST	DOST	
Aggregate Outputs		•	•			•		•	•						
		Number of technology business incubators (TBI) graduates increased (i.e., enterprises and spin-offs)	2016	41	Increasing	Increasing	Increasing	Increasing	230	270	1000 ^g	DOST reports	DOST	DOST	
		Number of innovation hubs increased (e.g., TBIs, innovation centers, niche centers, etc.) (cumulative) ^h	2016	23	33	43	53	63	108	128	128	DOST and DICT reports	DOST and DICT	DOST and DICT	
		R&D expenditure of business enterprises increased (in PHP Billion) ⁱ	2015	8.1	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing	DOST and PSA reports	DOST	DOST	
		Total Funding and Investments received by STI- based startups and spin-offs ^j	2016	N/A	N/A	N/A	N/A	Increasing	Increasing	Increasing	Increasing	DTI, DOST, DICT reports, and SEC	DTI, DOST, DICT	DTI, DOST, DICT	
Chapter Outcome 2			•												
Stimulate Creativity ar															
Subchapter Outcome	e 2.1														
Creative capacity for knowledge and		Overall Global Innovation Index (GII) rank improved ^k	2016	Top 58%	N/A	N/A	N/A	Top 38%	Top 35%	Top 33%	Top 33%	WIPO report	DOST	DOST	
echnology generation, acquisition, and adoption enhanced		GII - Knowledge and Technology Outputs percentile rank improved ¹	2016	66	Top 34%	Top 34%	Top 33%	Top 33%	Top 33%	Top 33%	Top 33%	WIPO report	DOST	DOST	
adoption enhanced		GII - Creative Outputs percentile rank improved ^m	2016	Top 75%	N/A	N/A	N/A	Top 44%	Top 42%	Top 40%	Top 40%	WIPO report	DOST	DOST	
 ^g The end of Plan target of ^h The targets were revised ⁱ The PSA and DOST are ^j The total funding and involution 	1,000 is the sum upwards by the I requested to pro- estments receive	t 17 percent of the countries in the WIPO ra of all targets from 2017 to 2020. Said target DOST on 2020 to 2022 due to the need to es duce this data annually instead of every two of dy startups and spin-offs will provide a mei- e there are no targets from 2017 to 2019.	s are attainab tablish more i years.	innovation hubs	are within the DO to support ecor	DST's capacity to nomic recovery.	o produce TBI g In addition, this	iraduates. Arour indicator has no	nd 1,000 enterpr w become a co	ises and spin-off mbination of the	fs are expected to gra DOST's innovation he	duate from TBIs from 2017 to ubs and the DICT's Digital Tra	ansformation Center	. ,	

^k On computation of overall GII rank targets, given that the end of Plan target of 2022 is at top 33 percent, 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.

A percentile rank of top 34 percent in 2017 means that the Philippines is targeted to be at 66 percentile rank or even higher.

^m 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.

Objectives/Results	SDG Tier 1	Indicator	Bas	eline ^a			Annual Pl	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Objectives/Results	Indicators	Indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target ^b	Verification	Agency ^c	Entity ^d	Assumptions and Risks
Aggregate Outputs		·													
	9.5.1 (Research and	R&D expenditure as a proportion of GDP increased (in percent, incremental) ⁿ	2015	0.16	0.20	0.25	0.30	0.35	0.40	0.50	0.50	DOST and PSA reports	DOST	DOST	
	(R&D)	Number of Researchers per million population increased (incremental) ⁿ	2015	200	275	280	285	290	295	300	300	DOST and PSA reports	DOST	DOST	
	proportion of GDP)	Number of Science, Technology, Engineering, and Mathematics (STEM) enrollees in higher education institutes (HEIs) increased (in million, incremental)	AY 2015/ 2016	1.29	1	0.94	1.09	1.7	1.59	2.03	2.03	CHED reports	CHED	CHED	
		Number of STEM graduates in HEIs increased	AY 2015/ 2016	183,000	270,000	280,100	331,800	50,000	113,000	318,000	318,000	CHED reports	CHED	CHED	
		Number of STEM enrollees in high school increased ^o	2016	220,590	-	-	-	Increasing	516,272	542,650	542,650	DepEd reports	DepEd	DepEd	
		Number of STEM graduates in high school increased ^o	TBD	TBD	-	-	-	Increasing	225,261	231,084	231,084	DepEd reports	DepEd	DepEd	
		Number of scientific articles published in Web-of-Science (Social Science and Science Citation Indexes) by researchers affiliated with Philippine institutions ^p	2016	TBD	N/A	N/A	N/A	Increasing	Increasing	Increasing	Increasing	CHED reports	CHED	CHED	

^o The new targets are based on a 2 percent attrition to account for the annual school leaver rate in Secondary level.

^p Since this indicator was only added in 2020, it has no targets from 2017 to 2019. Meanwhile, the baseline data of 2016 is yet to be determined.

Objectives/Deculte	SDG Tier 1	Indicator	Base	eline ^ª			Annual Pl	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Objectives/Results	Indicators	Indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target ^b	Verification	Agency ^c	Entity ^d	Assumptions and Risks
		Number of <i>Balik</i> Scientists Engaged increased (incremental) ^q	2016	25	39	41	44	46	101	151	151	DOST reports	DOST	DOST	
		Number of government Chief Information Officers (CIO) trained and employed in government agencies ^r	2016	N/A	N/A	N/A	N/A	N/A	200	Increasing	Increasing	DICT reports	DICT	DICT	
		Number of government employees with certifications in intermediate to advanced digital skills ^r	2016	N/A	N/A	N/A	N/A	N/A	200	Increasing	Increasing	DICT reports	DICT	DICT	
		Number of ICT Innovation Networks established fostering STI culture ^r	2016	N/A	N/A	N/A	N/A	N/A	20	35	35	DICT reports	DICT	DICT	
Subchapter Outcom	e 2.2		1			1	•			1					
Open collaboration among actors in the STI ecosystem strengthened		GII University-Industry Collaboration percentile rank improved	2016	52.5	Top 50%	Top 50%	Top 50%	Top 49%	Top 49%	Top 49%	Top 49%	WIPO report	CHED/ IPOPHL	CHED/ IPOPHL	
Aggregate Outputs													1		
		Number of collaborations between HEIs and industries increased (incremental)	2014	70	80	90	100	120	130	150	150	CHED reports	CHED	CHED	
		Number of collaborations between HEIs and government increased (NGAs and LGUs) (incremental)	2015	300	340	380	420	450	480	500	500	CHED reports	CHED	CHED	
		Number of STI-related international cooperations of HEIs increased (incremental) ^s	2015	40	50	60	70	80	95	100	100	CHED and DICT reports	CHED and DICT	CHED and DICT	
		Number of initiated multi- stakeholder partnerships between HEIs, government, and/or private sector firms developed through the Regional Inclusive Innovation Centers (RIICs) ^t	2016	N/A	N/A	N/A	N/A	90	100	110	110	DTI reports	DTI	DTI	

^q 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 increase the increase of the Balik Scientists.

^r The pilot year for this initiative is only in 2020. Thus, there are no targets from 2017 to 2020 but there are targets for 2021 and 2022. There is also no baseline data in 2016. ⁵ The DICT's targets on the "partnerships of the Philippine ICT Academy with foreign HEIs" have been combined with this indicator.

t The RIICs is a platform that links stakeholders from government, academe, and industry in the regions to bridge the gaps in the innovation and entrepreneurship system. It is a partnership initiative between DTI and DOST in cooperation with other national government agencies and regional stakeholders.

This indicator was only added in 2020. Thus, there are no targets from 2017 to 2019 but there are targets from 2020 to 2022. There is also no baseline data in 2016.