List of Priority Programs and Projects in the 2017-2022 Public Investment Programs (PIP)*
Chapter 14: Vigorously Advancing Science, Technology, and Innovation

Nr	Project Code	Project Title	Implementing Agencies		PDP Chapter	Description	Spatial Coverage		Mode of Implementation	Implementation Period		Investment Targets (in PhP Exact Amount)						
			Mother Agency	Attached Agency			Main	Region		Start	End	2017	2018	2019	2020	2021	2022	Total (2017-2022)
1	ASTI-0002	ICT and Electronics R&D for Productive Communities	DOST	ASTI	Chapter 14	Provision of advanced technical laboratories and services to support innovation and competitiveness in the electronics industry is one of the objectives of this Program. It also seeks to enhance quality of life through ICT research and development for Education, Agriculture, Environment, Governance, Health, and Enterprise Development. To address such objectives, several projects will be carried out and these will center on Internet of Things; biomedical devices and ICT for Health; Enterprise Resouce Planning and decision support systems; and rapid prototyping, electromagnetic compliance testing, and product safety testing.	Region-Specific	NCR	LFP	2017	2022	15,200,000.00	67,600,000.00	154,500,000.00	114,000,000.00	68,000,000.00	68,000,000.00	487,300,000.00
2	ASTI-0003	ICT and Electronics R&D for Competitive Tech Industries	DOST	ASTI	Chapter 14	This Program aims to establish digital media (audio, images, and video) laboratory to support the move into high value digital animation services. Various component projects under this Program focus on Artificial Intelligence, Augmented Reality, computer generated imagery, interactive simulation and visualization, high performance computing for image rendering and analysis, 3D modeling and animatronix, and signal and image processing.	Region-Specific	NCR	LFP	2017	2022	2,000,000.00	125,000,000.00	71,000,000.00	225,000,000.00	82,000,000.00	50,000,000.00	555,000,000.00
3	DICT-0039	Seed.PH (ICT Enabled Startup Development Program)	DICT		Chapter 14	Seed.PH os a pioneering program of DICT through the eInnovation group, as it serves as the government partner in developing the Startup ecosystem and community in the country. This initiative seeks to promote the spirit of entrepreneurship in leveraging the use of ICT, thru e-commerce and technology startup businesses. The program aims to unify and uplift the Philippine Startup Community and its stakeholders as it produces local technopreneurs and startup companies whose products and services are socially relevant and can be scaled not only throughout the country but worldwide. This initiative is done in collaboration with major players and movers in the industry.	Nationwide		LFP	2018	2018	-	5,089,381.15	-	-	-	-	5,089,381.15
4	PNRI-0011	Upgrading of Tritium Laboratory & IRMS Laboratory	DOST	PNRI	Chapter 14	The project will contribute to the enhancement of national competitiveness through the provision of sufficienct spaces for more efficient conduct of nuclear-based and related analytical techniques for various applications in the country. Nuclear Analytical Techniques offered by NATA include: Gross alpha-beta Spectrometry using Liquid Scintillation Spectrometry. Gammametric counting in Gammametric counting in food stuffs and environmental samples using high purity Germanium detector, elemental analysis using X-ray Fluorescence Spectrometry and stable isotopes ratio analysis using IRMS. Gross-alpha-beta analysis is applied as a compliance testing of drinking water samples to the Philippine National Standards for Drinking Water.. Gammametric Analysis is also for compliance testing of foodstuffs prior to and after export. These two services by NATA are both ISO17025 accredited. In anticipation for the ASEAN, the PNRI Services are envisioned to gain competitive edge.	Nationwide		LFP	2018	2020	-	5,500,000.00	4,500,000.00	2,000,000.00	-	-	12,000,000.00

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5	MIRDC-0002	Conversion of Pelota Court (TBI-1) as Hub for TechnoDemonstration Activities of MIRDC-developed Technologies	DOST	MIRDC	Chapter 14	The renovation of the TBI-1 BUilding/Pelota Court will serve as a Hub for MIRDC-developed technologies and office space for the Technology Advisory and Business Development Section (TABDS) and Technology Information and Promotion Section (TIPS). This will also serve as a one-stop area and easy access to the MIRDC technologies to interested adopters. TIPS and TABDS are the core group of personnel in charge of information dissemination and technology transfer, which are also among the mandate of MIRDC for the metals and engineering sector.	Region-Specific	NCR	LFP	2018	2020	-	5,000,000.00	5,000,000.00	4,000,000.00	-	-	14,000,000.00
6	NORSU-0010	Construction of 2-Storey Science and Technology Center	CHED	NORSU	Chapter 14	The project is aimed at improving the delivery of Science and Technology in NORSU Guihulngan Campus	Region-Specific	Region VII	LFP	2018	2020	-	19,000,000.00	-	-	-	-	19,000,000.00
7	CSU-0030	Metals Innovation & Engineering Research and Development Center (MIERDC)	CHED	CSU	Chapter 14	The MIERDC is a project of Cagayan State University through the College of Industrial Technology and the College of Engineering. It is a center that provides quality metals and engineering services to stakeholders for the upliftment and development of the region.	Region-Specific	Region II	LFP	January 2018	Decembe r 2018	-	20,000,000.00	-	-	-	-	20,000,000.00
8	DOST-0019	Development of Philippine Scientific Earth Observation Micro-Satellite (PHL-MICROSAT)	DOST		Chapter 14	The program is a collaboration of the University of the Philippines, Advanced Science and Technology Institute, PAGASA, Hokkaido University and Tohoku University in Japan. It will construct and launch a sun-synchronous orbiting micro-satellite for Earth observation, which is intended to be a part of 48-micro-satellite constellation that will gather data for climate change adaptation, disaster risk reduction and other research endeavors. Dr. Yukihiro Takahasi of Hokkaido University and his colleagues in Tohoku University will develop the Philippine micro-satellite following the RISING-2 engineering and flight models. It aims to develop and launch the first Philippine Micro-satellite that is robust and efficient in providing on-demand and real-time status of the country's environment particularly for applications such as disaster risk management, land-use (i.e, forest, agriculture/crop) and aquatic resource assessment and monitoring.	Region-Specific	NCR	LFP	2014	2019	250,140,184.93	150,000,000.00	60,000,000.00	-	-	-	460,140,184.93
9	DOST-0026	Upgrading and Enhancing the Capacity of the Packaging Technology Division (PTD) in Packaging Research and Innovation	DOST		Chapter 14	This project will upgrade and enhance the capacity of PTD in developing new packaging technology and innovations addressing the packaging needs of SMEs in the countryside. Capacity buidling includes manpower development & facility upgrading of PTD. The capacity building will also involve setting up of toll packaging service centers in the region.	Region-Specific	NCR	LFP	2016	2018	32,420,784.80	67,290,784.80	-	-	-	-	99,711,569.60

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10	DOST-0028	Business Innovation Through S&T Industry (BIST)	DOST		Chapter 14	This project aims to facilitate the acquisition of strategic and relevant foreign technologies by Filipino companies for immediate incorporation into the company's manufacturing activity. The DOST-BIST shall provide grants to private sectors to acquire and enhance their technological capacity which includes purchase of high-tech equipment and machinery, technology licensing, and acquisition of patent rights. This project is a significant initiative in the technology development value chain as it provides the means for companies to undertake technology acquisition projects.	Nationwide		LFP	2018	2020	-	375,000,000.00	500,000,000.00	2,625,000,000.00	-	-	3,500,000,000.00
11	DOST-0029	Collaboration R&D to Leverage Philippine Economy (CRADLE)	DOST		Chapter 14	This project will bridge the academe and the industry to create a seamless flow of research outputs to practical applications. It will also stimulate collaboration that meets the needs of both academe and industry in one shot.	Nationwide		LFP	2018	2020	-	120,000,000.00	140,000,000.00	171,779,806.20	-	-	431,779,806.20
12	DOST-0030	R&D Leadership Program (RDLead)	DOST		Chapter 14	This project will capacitate and strengthen the institutions and human resources in the regions and upgrade facilities and improve S&T Services. It will also improve and hasten the use of research results that will contribute to the socio-economic development of the country and help address pressing challenges.	Nationwide		LFP	2018	2020	-	80,000,000.00	120,000,000.00	161,217,505.22	-	-	361,217,505.22
13	DOST-0079	DOST Appropriate Support to Start-Ups through Innovation, Science and Technology (DOST ASSIST) Program	DOST		Chapter 14	The success of the DOST Small Enterprise Technology Upgrading Program (SETUP) has encouraged the Department to conceptualize the DOST-ASSIST Program to similarly push microenterprises and aspiring entrepreneurs to the ranks of successful businesses. This program will provide technologies/equipment through a modified grant scheme and also facilitate access to micro-credit, business skills training and hand-holding services.	Nationwide		LFP	2017	2022	80,000,000.00	300,000,000.00	400,000,000.00	500,000,000.00	600,000,000.00	700,000,000.00	2,580,000,000.00
14	DOST-0095	Small Enterprise Technology Upgrading Program (SETUP)	DOST		Chapter 14	The Small Enterprise Technology Upgrading Program (SETUP) is a nationwide strategy encouraging and assisting micro, small, and medium enterprises (MSMEs) to adopt technological innovations to improve their products, services, operations and increase their productivity and competitiveness.	Nationwide		LFP	2017	2020	814,618,000.00	1,023,105,000.00	1,219,690,000.00	1,413,416,000.00	-	-	4,470,829,000.00
15	DTI-0013	Startup Ecosystem Development Program (SEDP)	DTI		Chapter 14	The Startup Ecosystem Development Program (SEDP) is a five-point program developed as the industry cluster program to foster inter-enterprise linkages among MSMEs and strengthen collaborative networks. With this action plan, the Philippine Government aims to create high-growth and high-impact startups that will nurture innovation, sustain economic growth and generate large-scale employment opportunities. The Five-Point Program is divided across the following areas of development: Action No. 1: Increase culture and collaboration Action No. 2: Address legal and regulatory barriers Action No. 3: Support through government services, capital and resources Action No. 4: Create a national startup business council Action No. 5: Establish a Philippine startup economic zone	Nationwide		LFP	2018	2020	-	20,000,000.00	25,000,000.00	30,000,000.00	-	-	75,000,000.00
16	ITDI-0004	Industrial Membrane Program	DOST	ITDI	Chapter 14	The program involves the establishment of a membrane facility for the development of local membrane suitable for water desalination. Different polymeric membrane materials, configuration such as hollow fibers and flat sheet and preparation techniques such as interfacial composite polymerization will be conducted. The program also include researches on the following: Membrane technology development for gas separation application and the Development, Charcaterization and Performance Evaluation of Semi-Permeable Hollow Fiber Membrane from Local Materials for Hemodialysis Application.	Region-Specific	NCR	Others	2017	2018	22,690,499.20	10,000,000.00	-	-	-	-	32,690,499.20
17	ITDI-0008	Science and Technology Innovation Center for Green Composites	DOST	ITDI	Chapter 14	The project will establish a Science and Technology Innovation Center that will enable the country to develop self-sufficient green technology using natural materials abundantly available in the Philippines for industrial applications such as transportation, housing, climate change research and other related areas.	Region-Specific	NCR	Others	2018	2021	-	24,966,500.00	24,966,500.00	24,966,500.00	24,966,500.00	-	99,866,000.00

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18	ITDI-0010	Industrial Corrosion R&D Laboratory	DOST	ITDI	Chapter 14	The laboratory will provide Science Technology and Innovation (STI) relevant to semiconductor & electronics, chemical/petrochemical, energy, aerospace, automotive, communication and transportation industries. It will develop the capabilities of DOST regional offices in the testing & evaluation of corrosion.	Nationwide		TBD	2018	2020	-	38,000,000.00	23,000,000.00	13,000,000.00	-	-	74,000,000.00
19	MIRDC-0045	Competitive Advancement of Technologies, Competencies and human resources Upgrading in the Philippines for Die and Mold Industry	DOST	MIRDC	Chapter 14	The Project is aimed at developing a Competency Framework of Die and Mold Designing and Making technology at MIRDC that is relevant to the needs of the market, aligned with the industry good practices and referenced to national and international competence framework in the metals Industry; and, developing an Experts Capability Development Programme that can be used as a framework for developing a competency based Certification Programme in the metals industry; and developing a Certification Scheme for accrediting the skills of die and mold specialists and practitioners in the Philippines. The objectives of the project are to: 1.Develop a Competency Framework of MIRDC traceable to national and international competence framework 2.Establish an Experts Development Programme to align competence of personnel. 3.Develop a Framework for National Certification Programme for the Metals Industry	Region-Specific	NCR	TBD	2018	2019	-	13,496,891.00	11,508,444.00	-	-	-	25,005,335.00
20	PNRI-0012	Establishment of the Radiation Biology Research Center: Core Facility for Radiobiological Research	DOST	PNRI	Chapter 14	This project aims to establish the Radiation Biology (RadBio) Research Center: Core Facility for Radiobiological Research. Successful establishment of this core facility will offer excellent new possibilities for a wide range of radiation research including but not limited to: immediate and late effects of radiation, radiation oncology, drug discovery and development, studies in DNA repair and radiation dose-lethality and mitigation, cellular radiobiology, tumour radiotherapy, normal tissue response to radiotherapy, and radiobiological basis of radiation protection. Also, the proposed RadBio Research Center is expected to play a key role in further developing the Philippines expertise in Radiation Research and be an active contributor to the advancement of nuclear science and technology. This project will particularly serve the radiation and nuclear workers in the Philippines and Filipinos working overseas (OFWs), radiotherapy and cancer patients, radiation biology researchers, radiation oncologists and other medical practitioners, and will be the center of excellence in providing education and training of students, future nuclear researchers, and Filipino scientists.	Nationwide		LFP	2018	2022	-	30,000,000.00	15,000,000.00	4,000,000.00	3,000,000.00	3,000,000.00	55,000,000.00

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21	PNRI-0005	Establishing PNRI Cytogenetic Biological Dosimetry Capabilities for Nuclear Incident Preparedness and other Health-Related Services	DOST	PNRI	Chapter 14	The project is aligned with the Universal Health Care Program of the government. It will address the gaps in Health Facilities and Services. PNRI is the agency mandated by the Philippine government to protect the health and safety of the general public against the hazards of radiation. This project aims to enhance the technical capability of PNRI to urgently assess absorbed radiation dose of potentially exposed individuals through cytogenetic biodosimetry as part of strengthening its preparedness and response capabilities during radiation emergencies through accurate and expeditious exposure assessment.	Nationwide		LFP	2018	2020	-	53,909,000.00	1,110,000.00	716,000.00	-	-	55,735,000.00
22	ITDI-0006	Establishment of Reference Allergen Laboratory	DOST	ITDI	Chapter 14	The Laboratory will provide STI on allergens to address safety, compliance to regulations, reference methods and validation, and verification techniques for the needs of Philippine pharmaceuticals, food, and cosmetics industries.	Region-Specific	NCR	TBD	2018	2020	-	50,911,710.00	22,113,310.00	18,038,310.00	-	-	91,063,330.00
23	ITDI-0009	Industrial Technology Development Institute - Simulated Computerized Events and Automated Research and Innovation Office (SCENARIO)	DOST	ITDI	Chapter 14	Rapid design and simulation analyses office for conversion of ITDI technologies from laboratory-scale to micro-, small-, medium- and large-scale operations with corresponding business portfolio.	Region-Specific	NCR	TBD	2018	2020	-	55,700,000.00	22,700,000.00	19,700,000.00	-	-	98,100,000.00
24	SSU-0011	Engineering Research Facility	CHED	SSU	Chapter 14	State of the Art Engineering and Research Facility	Region-Specific	Region VIII	LFP	2018	2022	-	10,000,000.00	10,000,000.00	30,000,000.00	-	50,000,000.00	100,000,000.00
25	PCIEERD-0002	Establishment of a National Space Agency (NSA)	DOST	PCIEERD	Chapter 14	The National Space Agency (NSA) will serve as the central government agency addressing all national space issues, promote the development of space science and technology, unify all national space activities by coordinating with existing government units to provide a framework for a cohesive and harmonious cooperation; and be responsible for ensuring the country's space development goals. It will also serve as the Philippines' official representative to the international space community and space organizations. It shall initially be located within the Department of Science and Technology (DOST) Science Complex, Bicutan, Taguig City of in any government location deemed appropriate.	Nationwide		LFP	2014	2020	25,000,000.00	30,000,000.00	34,500,000.00	40,000,000.00	-	-	129,500,000.00
26	MIRDC-0021	Establishment of Digital Prototyping Facility for Manufacturing	DOST	MIRDC	Chapter 14	The project aims to establish a Digital Prototyping Facility that will provide the center its ability to explore complete product life cycle before its mass production. Industrial designers, engineers, and manufacturers use Digital Prototyping to design, iterate, optimize, validate, and visualize their products digitally through the product life cycle. During the project implementation, software and hardware will be acquired/ upgraded, focusing on the following fields of specialization: 1. CAD for Engineering Design 2. Topology analysis 3. Structural, durability, and optimization analysis (Linear and non-linear) 4. Thermal analysis S. Computational Fluid Dynamics (CFD) 6. Fluid Structure Interaction (FSI) 7. Noise, Vibration, and Harshness (NVH) 8. Design of experiments 9. Statistical and reliability tools 10. 3-Dimensional Variation Analysis 11. Product life cycle management	Region-Specific	NCR	TBD	2018	2021	-	19,800,000.00	64,100,000.00	29,100,000.00	23,000,000.00	-	136,000,000.00

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27	MIRDC-0027	Establishment of the Center for Innovation and Advancement of Manufacturing Technologies (CIAMT)	DOST	MIRDC	Chapter 14	The Innovation Center for Advanced Manufacturing Technologies (ICAMT) will be established as a technology hub and knowledge center for SMEs, scientists, technologists, researchers, innovators, inventors, and even university professors and students. A new building will house the ICAMT facilities and provide space for several technology locators involved in different fields of advanced manufacturing such as CNC machining, welding and fabrication, mechatronics and robotics, automation, surface engineering, automotive testing, CAD/CAM/CAE/FEA, rapid prototyping, to name a few. At the core of the facility is a shared service facility which can serve as a training resource, hobby shop, fabrication laboratory, and/or mechanical workshop to help transform ideas into reality in terms of innovative products. The ICAMT facility is primarily intended to be an idea and innovation center and a one-stop shop for SMEs and other prospective customers in sourcing for possible innovative solutions, technology alternatives, data and information, and even manpower sourcing.	Region-Specific	NCR	TBD	2019	2020	-	-	100,000,000.00	50,000,000.00	-	-	150,000,000.00
28	MIRDC-0029	Machine Tool Remanufacturing and Building (MTRB)	DOST	MIRDC	Chapter 14	This project will: - Address the insufficient support facility for our machine tool designers, builders, retrofitters and developers; The valuable ideas, designs, plans of designers, builders, retrofrtters, developers and even inventors will not be wasted but will come into reality because of the support facility. - Provide better solid waste management by providing option to reuse degraded machine tools instead of junking them and eventually lead to re-melting furnace; Tracing the history and energy utilization in producing a single machine bed-way, it will be realized that MTRB will also contribute to Environmental Management because by remanufacturing the bed-way, it will do away with using fuel in mining the metal ore; do away with using fuel for refining the are into metal; do away with using fuel in making patterns and casting the product; and do away with using electricity for bulk of machining works. - Reduce the cost, improve quality and speed up the delivery of machine tools with the use of appropriate manufacturino equipment	Region-Specific	NCR	TBD	2018	2022	-	-	50,000,000.00	75,000,000.00	25,000,000.00	7,000,000.00	157,000,000.00
29	MIRDC-0016	Materials and Product Innovation Using Applied Surface Finishing Technologies	DOST	MIRDC	Chapter 14	A comprehensive research on various materials, products and their properties encompassing different industries using advanced surface techniques. The project will reinforced MIRDC's committed to high-quality, extensive materials research and development for enabling technology platforms which support growth of new industry capabilities. Leveraging on these capabilities several R&D programmes will be established, including research on thin films and advanced surface finishing. The project aims to address innovatively the fundamental physical and chemical problems at the surface level of materials or products.	Region-Specific	NCR	TBD	2019	2021	-	-	134,300,000.00	21,250,000.00	14,450,000.00	-	170,000,000.00
30	MIRDC-0014	Development of Biomedical Castings and Instruments Based on Titanium and Cobalt Alloys	DOST	MIRDC	Chapter 14	The ever increasing population each year expands the range of demand and application of biomedical castings specifically in the medical, dental and healthcare industry. The most common are the surgical implants or devices that are implanted to the human body as substitutes or supplements to its missing or defective parts such as heart stents, artificial joints, screws to repair broken bones, dental implants and etc. Presently, large part of the biomedical casting supply in the Philippines is being imported from India, USA and European countries resulting to a higher cost and limited availability. However, this can be addressed through localized development of titanium and cobalt alloy based biomedical castings. The development of biomedical castings and instruments as applied to the health sector will address one of the priority areas identified in the Department of Science and Technology's Harmonized National R&D Agenda of 2017-2022. The project aims to develop localized biomedical castings and instruments that are tested, evaluated, accredited and ready for technology transfer to the private sector for mass production and commercialization.	Region-Specific	NCR	TBD	2019	2021	-	-	148,848,000.00	12,088,000.00	12,088,000.00	-	173,024,000.00

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31	PCAARRD-0003	Graduate Research and Education Assistantship for Technology Program (GREAT)	DOST	PCAARRD	Chapter 14	Supports qualified graduate students in completing their degree programs by providing sufficient financial and technical support, particularly in the conduct of their research/thesis. Through this research assistantship, grantees can conduct their research/thesis under the umbrella of an identified DOST-PCAARRD funded R&D project.	Nationwide		LFP	2017	2022	4,392,500.00	5,000,000.00	8,400,000.00	9,000,000.00	9,500,000.00	10,000,000.00	46,292,500.00
32	PCAARRD-0004	Publications Incentives Program	DOST	PCAARRD	Chapter 14	Promotes scientific productivity, knowledge sharing, and eventually application of R&D results by encouraging and rewarding NAARRDN researchers and scholars to publish, as principal authors, their research results in approved local and international refereed journals.	Nationwide		LFP	2017	2022	2,200,000.00	3,000,000.00	1,500,000.00	1,500,000.00	1,700,000.00	1,800,000.00	11,700,000.00
33	PCAARRD-0006	Re-Entry Grant Program	DOST	PCAARRD	Chapter 14	Enables newly graduated DOST-PCAARRD scholars to pursue, in their mother agency, an R&D project related to their thesis/dissertation and in support of DOST-PCAARRD research priority areas, as well as their regional and organizational plans.	Nationwide		LFP	2017	2022	1,000,000.00	1,000,000.00	4,000,000.00	10,000,000.00	10,000,000.00	10,000,000.00	36,000,000.00
34	PCAARRD-0086	Valuation of Technologies Generated from PCAARRD-Funded Research Projects	DOST	PCAARRD	Chapter 14	This project forms part of PCAARRD's Technology Transfer Pathway, wherein outputs of which would determine the fate of the subjected research projects and technologies whether they shall be commercialized or can only be disseminated, promoted, or rolled out for free to intended beneficiaries. This project will cater to valuation of IPs in partnership with the private firms conducting technology valuation. Objective: To assess the value of the research outputs from projects that received funding support from PCAARRD	Region-Specific	Region IVA	LFP	2016	2020	2,689,038.80	1,021,732.50	2,500,000.00	2,500,000.00	-	-	8,710,771.30
35	PCAARRD-0128	Enhancing PCAARRD's Intellectual Property Management through Prior Art Search and Patent Landscape Assessment	DOST	PCAARRD	Chapter 14	To enhance PCAARRD's Intellectual Property Management through Prior Art Search and Patent Landscape Assessment	Region-Specific	NCR	LFP	2016	2018	2,363,515.00	2,345,514.40	-	-	-	-	4,709,029.40
36	PCAARRD-0129	Enhancing Promotion of Technologies for Commercialization Through Innovation Seminar Series, Market Matching and Other Initiatives	DOST	PCAARRD	Chapter 14	To enhance promotion of technologies for commercialization through innovation seminar series, market matching and other initiatives	Region-Specific	Region IVA	LFP	2017	2019	3,000,000.00	3,000,000.00	3,000,000.00	-	-	-	9,000,000.00
37	PCAARRD-0133	Enhancing the Capabilities of the Regional Innovation and Technology Centers and Technology Transfer Offices in the Consortia and Selected Member Agencies	DOST	PCAARRD	Chapter 14	To ehancing the capabilities of the Regional Innovation and Technology Centers and Technology Transfer Offices in the consortia and selected member agencies	Region-Specific	Region IVA	LFP	2017	2019	30,000,000.00	30,000,000.00	30,000,000.00	-	-	-	90,000,000.00
38	PCAARRD-0143	Feasibility Studies and Market Research for Selected Technologies	DOST	PCAARRD	Chapter 14	Feasibility Studies and Market Research for Selected Technologies	Region-Specific	NCR	LFP	2017	2022	5,000,000.00	5,000,000.00	5,000,000.00	-	-	-	15,000,000.00
39	PCAARRD-0155	Support to Strengthening the Management and Operations of the Regional R&D Consortia	DOST	PCAARRD	Chapter 14	To provide financial support to the Regional R&D Consortia for operations and basic coordination activities related to the implementation of their banner programs including participation to major exhibits and other promotional activities	Nationwide		LFP	2015	continuing (sub	25,345,855.00	29,147,733.00	33,519,893.00	38,547,877.00	44,330,059.00	50,979,567.00	221,870,984.00
40	PCAARRD-0158	Support to R&D Results Utilization Banner Program	DOST	PCAARRD	Chapter 14	Includes the Farms and Industry Encounters through the Science and Technology Agenda (FIESTA) projects	Nationwide		LFP	2016	2022	4,500,000.00	4,500,000.00	4,500,000.00	4,500,000.00	-	-	18,000,000.00
41	PCAARRD-0210	Management and Commercialization of Technologies Generated from PCAARRD-funded Research Projects in UPLB	DOST	PCAARRD	Chapter 14	Management and Commercialization of Technologies Generated from PCAARRD-funded Research Projects in UPLB/. The general objective of this study is to manage and to commercialize the technologies generated from PCAARRDfunded research projects from Year 2010 to Year 2015. Specifically, the study aims to: 1. To determine the status and level of development of the IP protection of PCAARRD-funded projects from Year 2010 to Year 2015 for prioritization for commercialization; 2. To evaluate the potential of each technologies based on prioritization for IP generation and protection; 3. To determine the different IP protection applications and value of the prioritized technologies generated from PCAARRD-funded projects and; 4. To commercialize the prioritized technologies generated from PCAARRD-funded projects .	Region-Specific	Region IVA	LFP	2016	2018	2,017,405.00	1,008,702.71	-	-	-	-	3,026,107.71
42	PCAARRD-0214	Technology Transfer & Extension Programs for the AANR Sector	DOST	PCAARRD	Chapter 14	To implement programs and projects for roll-out through extension, commercialization, technology business incubation, climate and disaster, agro-aqua ecotourism and the poorest of the poor in the AANR sector for agri-aqua productivity and inclusive growth.	Nationwide		LFP	2018	2020	-	661,100,000.00	-	-	-	-	661,100,000.00

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Nr	Project Code	Project Title	Implementing Agencies		PDP Chapter	Description	Spatial Coverage		Mode of Implementation	Implementation Period		Investment Targets (in PhP Exact Amount)						
			Mother Agency	Attached Agency			Main	Region		Start	End	2017	2018	2019	2020	2021	2022	Total (2017-2022)
43	PCAARRD-0219	R&D on Socioeconomics Sector Contributing to AANR Development	DOST	PCAARRD	Chapter 14	The R&D agenda for the socioeconomic sector focuses on providing an empirical and evidence-based researchers to support an enabling policy environment, provide feedback for good governance and planning and strengthen mechanisms to institutionalize sociological aspects and gender and development in the AANR. Researches developed and implemented are on policy analysis and advocacy, impact assessment, supply and value chain analysis, sociological studies and gender and development. Initiatives will be emphasized on valuation to provide indicative measure of the effects of climate change and non-marketable commodities, goods, and services (e. g. biodiversity, and capability building through the establishment of socioeconomic research centers will be given priority in the development of the AANR sector.	Nationwide		LFP	2018	2018	-	221,000,000.00	-	-	-	-	221,000,000.00
44	MIRDC-0020	Food Processing Equipment Research, Innovation & Engineering for National Development (FRIEND)	DOST	MIRDC	Chapter 14	This project will: - Address the insufficient food processing equipment available for our local food processors - Minimize the importation of food processing equipment - Enable our food processors as well as equipment manufacturers to compete in the foreign market. - Address the cost, quality and delivery of food processing equipment with the use of modern and appropriate machines; training of manufacturers on the best practices in fabrication, instrumentation and reliability testing of products.	Nationwide		TBD	2018	2022	-	40,000,000.00	61,000,000.00	50,000,000.00	30,000,000.00	20,000,000.00	201,000,000.00

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			Mother Agency	Attached Agency			Main	Region		Start	End	2017	2018	2019	2020	2021	2022	Total (2017-2022)
45	TESDA-0024	Korea-Philippines Vocational Training Center	CABSEC	TESDA	Chapter 14	The project aims to provide training opportunities in various technology skills especially to the unemployed and the unskilled, and underprivileged people in the region; and upgrade the training of vocational-technological professionals to meet the required standards of the industry.	Region-Specific	Region VII	ODA-KOICA	2018	2021	-	-	225,000,000.00	-	-	-	225,000,000.00
46	MIRDC-0019	Establishment of Center of Industrial Automatlon (CIA) Facility in Support of the Local Equipment and Manufacturing Industry	DOST	MIRDC	Chapter 14	Generally the project aims to establish center of industrial automation facility for the conduct of R&D activities, common service facility, industrial training to support the technology and manpower improvement and competitiveness of the Metals and Engineering (M&E) industries. Specifically; 1. To conduct at least three (3) Rand D projects related to mechatronics and robotics for various fields such as agricultural, industrial application, food and small scale industries etc; 2. To establish the facility and acquire advanced mechatronics and robotics technologies to serve as common service facility for the local M&E industries; 3. To provide trainings in specialized techniques and procedures on the relevant technologies; 4. To promote Advanced Mechatronics and Robotics Technologies to the academe and M&E Industries	Region-Specific	NCR	TBD	2018	2020	-	130,000,000.00	95,000,000.00	8,500,000.00	-	-	233,500,000.00
47	PNRI-0014	Nuclear Research and Development Program	DOST	PNRI	Chapter 14	This program develops new ideas, products and methodologies through research and development on the peaceful applications of radioactive and nuclear materials, atomic and nuclear techniques and processes. With the increasing diversity and complexity of national problems, nuclear S&T applications offer distinct advantage in areas of food and agriculture, human health and medicine, industrial processing and operation, environmental protection, among others. The PNRI strategically shifts its nuclear R&D competencies to adapt/assimilate new nuclear technologies that would enhance productivity and innovative capacity towards social equity, sustained economic growth, integrity of the environment and climate change adaptation and mitigation.	Nationwide		LFP	2017	2022	86,663,000.00	122,257,000.00	200,000,000.00	220,000,000.00	220,000,000.00	220,000,000.00	1,068,920,000.00
48	PNRI-0015	Nuclear Safety, Security and Safeguards Program	DOST	PNRI	Chapter 14	This program implements regulatory activities in ensuring the safety and security in the peaceful utilization of nuclear and radioactive materials as well as safeguards activities in conformance with international obligations and agreements. It continues to develop regulations and guides; issues licenses for the ownership, possession and utilization of nuclear and radioactive materials; conducts periodic inspections and enforcement actions, nuclear security, safeguards and other associated functions.	Nationwide		LFP	2017	2022	45,775,000.00	49,173,527.00	55,000,000.00	60,000,000.00	100,000,000.00	100,000,000.00	409,948,527.00
49	PNRI-0016	Nuclear Science and Technology Diffusion and Transfer Program	DOST	PNRI	Chapter 14	This program undertakes activities that bring nuclear technologies and services to the stakeholders, end-users and the general public for greater awareness, understanding and appreciation of the various applications of nuclear science and technology. It provides a marketing framework to enhance public awareness, understanding and appreciation of the peaceful applications of nuclear S&T, which is essential for creating a favorable environment for the commercialization/adoption of PNRI technologies and subsequently the use of these technologies by the general public.	Nationwide		LFP	2017	2022	23,166,282.00	35,153,972.00	40,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	248,320,254.00
50	PNRI-0017	Nuclear Science and Technology Services and Advisory Program	DOST	PNRI	Chapter 14	This program enhances product quality, improve processes, ensure radiation protection and generate information derived from the use of nuclear techniques through nuclear and allied S&T services and expertise. It considers the comparative advantage of nuclear techniques over conventional methods in addressing the requirements of local industries, businesses, the academe, medical sector, research and government institutions. Program implementation strategies include the provision of quality S&T services such as nuclear-based analytical services, radiation protection services, irradiation and isotope applications.	Nationwide		LFP	2017	2022	131,275,597.00	199,205,843.00	220,000,000.00	250,000,000.00	300,000,000.00	300,000,000.00	1,400,481,440.00

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			Mother Agency	Attached Agency			Main	Region		Start	End	2017	2018	2019	2020	2021	2022	Total (2017-2022)
51	MIRDC-0017	Establishment of Advanced Welding and Sheet Metal Fabrication Facility in Support to Metals and Engineering Industry	DOST	MIRDC	Chapter 14	General Objective: To establish the facility of advanced welding and fabrication technologies for the conduct of Rand D activities, common service facility, industrial training to local metals and engineering industry Specific Objectives: 1. To upgrade and establish the facility and acquire advanced welding and sheet fabrication technologies 2. To conduct Rand D activities on various welding processes and fabrication methods 3. To conduct industrial training on the advanced welding processes and sheet fabrication technologies	Region-Specific	NCR	TBD	2018	2020	-	151,400,000.00	128,000,000.00	27,000,000.00	-	-	306,400,000.00
52	MIRDC-0026	Engine Research and Development Program in Support to Agriculture, Fishery and Industrial Sectors	DOST	MIRDC	Chapter 14	General Objective: The general objective of this program is to design and develop small power engines for industrial, agriculture and fishery applications. This program also aimed to establish a research facility for the development of small power engines. Specific Objectives: 1. Establish an Engine Research and Development Facility; and 2. Engine Development in Support to Increasing Level of Agriculture & Fisheries Mechanization	Region-Specific	NCR	LFP	2018	2021	-	21,480,000.00	105,000,000.00	104,000,000.00	223,000,000.00	-	453,480,000.00
53	PNRI-0004	Establishment of an Accelerator Facility (Phase 1: Conduct of Feasibility Study) (Phase 2: Establishment of the Accelerator Facility)	DOST	PNRI	Chapter 14	The establishment of an accelerator facility will ensure that the country can undertake programs and projects towards strengthening the utilization of nuclear and isotopic techniques in furtherance of the Post 2015 Development Agenda for Asia and the Pacific including the Sustainable Development Goals (SDG) and the priority areas set by the 2002 World Summit on Sustainable Development (WSSD). It is envisioned to be part of a National Accelerator Center which will enable the PNRI, its consortium universities, other DOST R & D Institutes, to contribute to the country's economic growth with a desired outcome of achieving globally competitive and innovative production sectors and improved adaptive capacities of human communities and resilient natural systems.	Nationwide		LFP	2018	2021	-	83,920,000.00	784,030,000.00	679,780,000.00	-	-	1,547,730,000.00
54	ASTI-0001	ICT and Electronics R&D for Resilient Infrastructures	DOST	ASTI	Chapter 14	This program involves research and development in information, computing and communications technologies towards a resilient and robust society through a nationwide infrastructure of sensors, computing and data analytics for environmental monitoring. It will also focus on the improvement and upgrading of network facilities, better monitoring of wireless/radio resources for improved utilization, and development of applications for increased connectivity and access for more Filipinos nationwide. The program will also deal with the provision of infrastructure for timely and reliable access to optical and radar imagery from various sources, such as satellites and unmanned vehicles. It will help enhance the country's resilience to disasters, improvement of agricultural yield and forestry monitoring, exploration/location of natural resources, upgrading of maritime surveillance, overall enhancement of R&D activities, and other relevant endeavors.	Region-Specific	NCR	LFP	2017	2022	596,193,000.00	450,700,000.00	518,900,000.00	371,000,000.00	345,000,000.00	427,000,000.00	2,708,793,000.00
55	SEI-0001	S&T Education Development Program	DOST	SEI	Chapter 14	With the recent transition of the country to the K to 12 basic education program, SEI recognizes the need to train STEM teachers who will be at the forefront of delivering quality education to the youth. The K to 12 emphasizes a learner-centered and inquiry-based curriculum, thus there is a need to focus on pedagogical approaches that would lead to a deeper understanding of STEM concepts and its application to real-life situations. Making the learning of STEM an enjoyable experience is also seen as a challenge, hence the need to develop innovative learning resources that would engage the students. The program is also directed towards pursuing more vigorously the promotion and development of S&T culture to stimulate interest towards careers in S&T as well as undertakes policy researches and evaluates programs related to Science Education and S&T Human Resource Development. These efforts are geared towards the overarching goal of the Institute, which is the development of a critical mass of scientists and engineers who will undertake significant roles in national development and economic growth.	Nationwide		LFP	2014	2022	23,300,000.00	28,052,000.00	46,271,000.00	69,407,000.00	104,110.00	156,165,000.00	323,299,110.00

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			Mother Agency	Attached Agency			Main	Region		Start	End	2017	2018	2019	2020	2021	2022	Total (2017-2022)
56	SEI-0002	S&T Scholarship Program	DOST	SEI	Chapter 14	The implementation of DOST-SEI S&T Undergraduate Scholarship Programs in the baccalaureate level aim to identify, develop and nurture students with high aptitude in science and mathematics who will steer the country towards economic development and competitiveness. Three (3) major undergraduate scholarship programs are offered, namely: Merit Scholarship (RA2067), S&T Scholarship Act (RA 7687) and Fast-Tracked S&T Scholarship Act (RA 10612) for the pursuance of DOST identified priority fields of study. The school placements are the CHED identified Centers of Development, State Universities and Colleges, and DOST-network Institutions. The Institute also offers Graduate Scholarships for Master's and Doctorate degrees in priority S&T areas in science education (Capacity Building in Science and Mathematics Education); basic and applied science (Accelerated Science and Technology Human Resource Development (ASTHRD) Program); and engineering and related fields (Engineering Research and Development for Technology (ERDT) Program).	Nationwide		LFP	2014	2022	2,881,000,000.00	3,633,459,000.00	7,067,625,000.00	10,601,438,000.00	15,902,157,000.00	23,853,235,000.00	63,938,914,000.00

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			Mother Agency	Attached Agency			Main	Region		Start	End	2017	2018	2019	2020	2021	2022	Total (2017-2022)
57	TAPI-0003	DOST-Academe Technology-Based Enterprise Development	DOST	TAPI	Chapter 14	Develops entrepreneurial competencies among students in selected academic institutions. DATBED supports income generating projects with technological innovation that are not yet tested in the market but with market potential and technically viable when commercialized.	Nationwide		LFP	2017	2022	500,000.00	800,000.00	800,000.00	800,000.00	900,000.00	900,000.00	4,700,000.00
58	TAPI-0004	Industry-Based Invention Development (IBID) Program	DOST	TAPI	Chapter 14	Supports the development of viable inventions through its application and adaption to existing industry practices. TAPI supports the production of the first working model of the invention to be installed in the actual operations of a firm. The collaborative undertaking among TAPI, the inventor and the industrial enterprise involves testing, debugging and other refinements for the invention as placed in a real working environment.	Nationwide		LFP	2017	2022	1,500,000.00	2,000,000.00	2,500,000.00	3,000,000.00	3,500,000.00	4,000,000.00	16,500,000.00
59	TAPI-0005	Invention-Based Enterprise Development (IBED)	DOST	TAPI	Chapter 14	A follow-through activity to push and transform innovations into a technology enterprise. It covers pilot production, field/market testing and formulation of systems and procedures in preparation for a larger production scale. It aims to build the capabilities of inventors to create businesses out of their inventions.	Nationwide		LFP	2017	2022	1,000,000.00	1,500,000.00	2,000,000.00	2,500,000.00	3,000,000.00	3,500,000.00	13,500,000.00
60	TAPI-0006	Science and Technology Application in Rural Development (STARDev)	DOST	TAPI	Chapter 14	Provides technical and financial assistance to SUCs, RDIs and GOs covering projects under the prototype development, pilot scale testing and livelihood development	Nationwide		LFP	2017	2022	2,000,000.00	2,200,000.00	2,400,000.00	2,800,000.00	3,000,000.00	3,000,000.00	15,400,000.00
61	TAPI-0007	Venture Financing	DOST	TAPI	Chapter 14	Accelerates the initial commercialization of emerging and new technologies developed by the S&T community by providing the necessary funding support to micro, small and medium enterprises (MSMEs) for capacity building of start-up and scale-up projects	Nationwide		LFP	2017	2022	8,000,000.00	10,000,000.00	13,000,000.00	15,000,000.00	18,000,000.00	20,000,000.00	84,000,000.00
62	PNRI-0003	Establishment of a Research Reactor (Phase 1: Conduct of Feasibility Study) (Phase 2: Conduct of Siting Study) (Phase 3: Construction of Research Reactor)	DOST	PNRI	Chapter 14	This project aims to establish a new nuclear research reactor in the country that will be used primarily for a) nuclear science and engineering education and training, b) radioisotope production for medical and industrial uses, and c) neutron beam science for basic and applied sciences research.	Nationwide		LFP	2018	2024	-	40,000,000.00	15,000,000.00	3,109,960,000.00	2,993,340,000.00	5,597,890,000.00	11,756,190,000.00
63	PNRI-0007	Establishment of on-line environmental radioactivity monitoring network	DOST	PNRI	Chapter 14	The project will provide real- time continuous gamma radiation level measurements from different parts of the country through the establishment of an online monitoring system composed of remote monitoring station and a central data station. It will also create an alert system that will detect anomalous radiation levels and radiological emergencies using the data provided by the online monitoring system. The objectives of this project are: a) To provide real time continuous gamma radiation level measurements from different parts of the country through the establishment of an on-line monitoring system composed of remote monitoring station and a central data station, and b) To create an alert system that will detect anomalous radiation levels and radiological emergencies using the data provided by the on-line monitoring system.	Interregional	NCR, Region I, Region II, Region III, Region IVB, Region VI, Region VII, Region VIII, Region IX, Region XI, Region XII	LFP	2017	2020	10,000,000.00	15,000,000.00	15,000,000.00	15,000,000.00	-	-	55,000,000.00
64	PCAARRD-0199	Leaders in Innovation Fellowship	DOST	PCAARRD	Chapter 14	To establish leaders in innovation fellowship	Interregional	NCR, Region IVA	LFP	2017	2019	7,000,000.00	7,000,000.00	7,000,000.00	-	-	-	21,000,000.00
65	PCAARRD-0204	Developing Business Plans for Selected PCAARRD Generated Technologies	DOST	PCAARRD	Chapter 14	Developing business plans for selected PCAARRD generated technologies	Interregional	NCR, Region IVA	LFP	2017	2019	5,000,000.00	5,000,000.00	5,000,000.00	-	-	-	15,000,000.00
66	PCAARRD-0076	Support to the Preparation of Freedom to Operate (FTO) in the Technology Transfer Activities of PCAARRD-funded Projects	DOST	PCAARRD	Chapter 14	To implement the Freedom to Operate Analysis of PCAARRD-funded technologies. Specific Objectives: 1. Assist PCAARRD and the technology developer(s) understand the threat of patent litigation on a particular technology; 2. Assess the potential of a technology for commercial application; 3. Ensure that the commercial application of a technology, marketing, and use of the new product, process or service does not infringe on the intellectual property rights of other entities; 4. To train staff from TAPI, PCAARRD, DOST RDIs and SUCs with PCAARRD-funded projects on FTO; and 5. To establish an FTO Unit at TAPI-DOST.	Interregional	NCR, Region IVA	LFP	2016	2020	1,010,324.60	2,850,000.00	2,150,000.00	2,500,000.00	-	-	8,510,324.60

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			Mother Agency	Attached Agency			Main	Region		Start	End	2017	2018	2019	2020	2021	2022	Total (2017-2022)
67	PCAARRD-0078	Technology Assessment of PCAARRD-Funded Research Projects	DOST	PCAARRD	Chapter 14	In general, the project aims to assess the research outputs from projects that received funding support from PCAARRD on the stage or level of readiness for commercialization. Specifically, it aims to determine if PCAARRD-funded research projects have potentials for: 1) intellectual property protection; 2) commercialization; and 3) further research.	Interregional	NCR, Region IVA, Region IVB	LFP	2016	2020	2,414,104.00	1,207,052.00	2,500,000.00	2,500,000.00	-	-	8,621,156.00
68	PCAARRD-0075	Support to the Issuance of Fairness Opinion Report for Technology Transfer Activities of PCAARRD	DOST	PCAARRD	Chapter 14	To provide support to RDIs in their request for fairness opinion by the DOST Secretary as a legal requirement for technology transfer activities of government-funded research projects by covering the costs associated in the expert engagement of the Fairness Opinion Board.	Interregional	NCR, Region IVA	LFP	2016	2020	2,313,309.20	1,156,654.60	2,500,000.00	2,500,000.00	-	-	8,469,963.80
69	PCAARRD-0195	Intellectual Propery Rights (IPR) Protection of PCAARRD-Funded Research Projects	DOST	PCAARRD	Chapter 14	To project will provide IPR protection for PCAARRD-funded research projects. "As a Government Funding Agency (GFA) mandated to fund projects to develop technologies in agriculture, aquatic and natural resources, there is a need for PCAARRD to ensure that appropriate ownership of research products are accorded to its projects through applicable IPR. This will also provide adequate leverage for it as a GFA and its R&D institutes (RDIs) as technology generators in technology transfer, which can also be appreciated when a proposed technology transfer agreement shall be evaluated by the Fairness Opinion Board pursuant to Republic Act No. 10055, otherwise known as the Philippine Technology Transfer Act of 2009".	Interregional	NCR, Region IVA	LFP	2016	2020	4,139,018.30	929,098.55	2,500,000.00	2,500,000.00	-	-	10,068,116.85
70	PCAARRD-0200	Incentivizing Intellectual Property Generation and Protection in the AANR Sectors	DOST	PCAARRD	Chapter 14	To incentivize intellectual property generation and protection in the AANR Sectors.	Interregional	NCR, Region IVA	LFP	2017	2020	2,500,000.00	2,500,000.00	2,500,000.00	2,500,000.00	-	-	10,000,000.00
71	PCAARRD-0206	Market Study of Selected Technologies for Commercialization under PCAARRD's Technology Commercialization Program (Batch 2)	DOST	PCAARRD	Chapter 14	To develop market study of selected technologies for commercialization under PCAARRD's Technology Commercialization Program (Batch 2)	Interregional	NCR, Region IVA	LFP	2017	2018	3,000,000.00	2,000,000.00	-	-	-	-	5,000,000.00
72	USeP-0048	Acquisition of cutting-edge laboratory equipment and facilities for engineering and technology	CHED	USeP	Chapter 14	This is to provide laboratory equipment and facilities for engineering and technology	Region-Specific	Region XI	LFP	2017	2018	25,000,000.00	25,000,000.00	-	-	-	-	50,000,000.00
73	PCAARRD-0186	Role of social institutions in technology adoption	DOST	PCAARRD	Chapter 14	To study the role of social institutions in technology adoption.	Interregional	NCR, Region IVA	LFP	2017	2018	2,000,000.00	2,500,000.00	-	-	-	-	4,500,000.00
74	PCAARRD-0152	Impact Assessment of Selected PCAARRD Publications	DOST	PCAARRD	Chapter 14	Impact Assessment of Selected PCAARRD Publications	Interregional	NCR, Region I, Region II, Region III, Region IVA, Region V, Region VI, Region VII, Region VIII, Region IX, Region X, Region XI, Region XII	LFP	2016	2017	418,679.00	-	-	-	-	-	418,679.00
											TOTAL	**5,189,746,096.83**	**8,752,937,096.71**	**13,074,932,147.00**	**21,303,004,998.42**	**21,110,035,669.00**	**31,706,469,567.00**	**101,137,125,574.96**

Based on the agencies submission in the PIPOL System as of June 2017 and validation by the NEDA PIP Focals as of March 2018. Please note that the implementation mode, investment targets and other project details in the 2017-2022 PIP list may be updated at the time of publication.