

List of 2019 Monitored/Assisted Projects

	Project Title	Implementing Agency	Beneficiaries
1	ADMATEL Expansion and Business Continuity	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Semiconductor & electronics • Automotive • Aerospace • Plastics • Other manufacturing industries • Oil and gas • Academe/Universities • Other government agencies
2	Development of Novel Materials as Emitters and Detectors for (Sub)-Terahertz Time-Domain Spectroscopy Carrier Dynamic Studies	UP Los Baños	Young Filipino Researchers
3	Application of Predictive Data Analytics on Multivariate Analysis of Methamphetamine-HCl Chemical Fingerprints	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Law Enforcement Agencies (i.e. PDEA) • Filipino individuals, families and society
4	Fabrication of Metal Oxide Thin Films for Optical Coatings with Plasma Assisted Deposition Using a Plasma Enhanced Chemical Vapor Deposition (PECVD) System	UP Diliman	<ul style="list-style-type: none"> • Students of Ateneo de Manila University • Interested parties in the industrial sector, primarily the sector engaged in optical materials such as lenses and optical filters
5	Pulp-to-Print: Development of Print-Ready Cellulose Composites from Paper Mulberry	UP Diliman	Small and medium enterprises in the furniture and paper industries
<i>Smart Plant Production in Controlled Environments (SPICE)</i>			
6	Project 1. Standalone Urban Farm	UP Diliman	<ul style="list-style-type: none"> • Students, academicians, businessmen, policy makers, farmers • Urban developers, investors • Local Government Units (LGU), • Non-Government Organizations (NGO) • Consumers of vegetables and fruits
7	Project 2. Sensor-based Monitoring and Analytics for Smart Hydroponics (SMASH)	UP Diliman	
8	Project 3. Establishment of Soilless Culture Technology for Urban Food Production	UP Diliman	
9	Project 4. Ex-Situ Conservation through Micropropagation Cryopreservation of Native Plant Species	UP Diliman	
10	Generalized Automated Microfluidics and Micro-actuator Assembly (GAMMA)	UP Diliman	<ul style="list-style-type: none"> • Chemical industry • Pharmaceuticals
11	Electrochemical and Quantum Mechanical Investigation of Various Small Molecule Organic Compounds as Corrosion Inhibitors in Mild Steel	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Industry • Society and Environment • Undergraduate/Research students
12	Angular Goos-Hänchen Shift: An Optical Phenomena for Ultra-Thin Film Thickness Measurement	UP Diliman	<ul style="list-style-type: none"> • University testing laboratories • Industries involved in thin film manufacturing
13	Fabrication of Highly C-axis Oriented YBCO Superconducting Thin Films by Sedimentation Deposition	UP Diliman	<ul style="list-style-type: none"> • Power generation and distribution sector • Electronics and communication sector • Academic/Manpower Development

	Project Title	Implementing Agency	Beneficiaries
14	Self-Healing Materials Based on Cyclodextrin and Ferrocene Self-Assembly towards Formulation of Coatings	Ateneo De Manila University (ADMU)	<ul style="list-style-type: none"> • Paint Manufacturing Industry (PAPM) • Chemical manufacturing and allied industries (i.e. Chemrez Technologies, Inc.) • R&D research community
<i>Hard Coating Thin Film Synthesis Using DC and RF Magnetron Sputtering via Gaseous Discharges</i>			
15	Project 1. Development of Direct Current (DC) Magnetron Plasma System for Ti-Al-C Thin Film Synthesis	Ateneo De Manila University (ADMU)	<ul style="list-style-type: none"> • Industries that manufacture cutting tools • Machining industries
16	Project 2. Development of Radio Frequency (RF) Plasma System for Ti-Al-N Thin Film Synthesis	UP Diliman	<ul style="list-style-type: none"> • All industries that employ machines in their processes including but not limited to woodworking, metalworking, automotive, construction, etc
17	Ultrafast MBE-grown Terahertz Photoconductive Antenna Devices	UP Diliman	Companies that are currently manufacturing photoconductive antennas (PCAs) for various terahertz (THz) spectroscopies and imaging systems
18	Establishing an Environment-Friendly Chromium Plating Process Using Generation Ionic Liquids	UP Diliman	<ul style="list-style-type: none"> • Academe (Science and Engineering (materials and metallurgical)) • Courses in engineering schools: UP, Ateneo, Mapua, and Iligan Institute of Technology • Government Research Institutions (i.e. MIRDC) • Plating Industries in the Philippines
19	Enhancing Man-Machine Interaction through Intelligent Conversational Agents	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Health practitioners and patients in Healthcare counseling • Mentors and learners in Language and literacy education • Other service-driven sectors who may utilize conversational agents
20	Original Content Development Project	Toon City Academy	Philippines' animation community
21	Bomb Removal Automated Vehicle (BRAVE)	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Philippine National Police (PNP) • Armed Forces of the Philippines (AFP) • Local Government Units (LGU) • Institutions, Communities, and General public
<i>EPDC as Platform for Innovation and Collaboration (EPIC)</i>			
22	Project 1. Electronics Product Development Center Upgrade and Operation	Advanced Science and Technology Institute (ASTI)	<ul style="list-style-type: none"> • Electronics companies and other members of the supply chain • Academic and other training institutions • Engineering associations • Government institutions • Venture capitalists, SMEs • Original Equipment Manufacturers (OEMs), Original Design Manufacturers (ODMs), Resellers • Independent designers

	Project Title	Implementing Agency	Beneficiaries
23	Project 2. Electronics Product Inclusive Innovation Center (EPIIC)	Advanced Science and Technology Institute (ASTI)	<ul style="list-style-type: none"> • Electronics companies and other members of the supply chain • Higher Education institutions (HEIs) • Venture capitalists, Small and Medium Enterprises (SMEs), and Inventors
<i>μC-IC: Design of Microcontroller Integrated with Energy Harvesting and Power Management</i>			
24	Project 1. Development of Microprocessor for Wireless Sensor Network Application	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	<ul style="list-style-type: none"> • Post graduate ERDT scholars and other academic and research institutions • Local semiconductor and electronics integrated circuit design industry
25	Project 2. Power Management Unit using Low Drop-out Regulator and Switched Capacitor DC-DC Converters	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	<ul style="list-style-type: none"> • Masteral Engineering Research and Development for Technology (ERDT) scholars and other academic and research institutions • Local semiconductor and electronics integrated circuit (IC) design industry
26	Project 3. Design of Indoor Light Energy Harvesting for Wireless Sensor Network Applications	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	<ul style="list-style-type: none"> • Masteral Engineering Research and Development for Technology (ERDT) scholars and other academic and research institutions • Local semiconductor and electronics integrated circuit (IC) design industry
27	Development of Error Resilient Joint Source-Channel Wireless Video Transmission System for High Efficiency Video Coding (HEVC) Standards over Wireless Channel	University of Santo Tomas (UST)	<ul style="list-style-type: none"> • Mobile phone users • Video coding policy makers such as VCEG (Video Coding Expert Group) or MPEG (Moving Picture Expert Group) • Researchers in the field of video coding and video transmission
28	Marayum - A Community-built, Mobile Phone Based, Online Web Dictionary for Philippine Languages	UP Diliman	Asi speaking peoples of Romblon
29	Development of Data Analytics-Ready Info Unified System (DARIUS) for Agile Delivery of Regional Services	DOST Region IV-A	<ul style="list-style-type: none"> • DOST Regional Offices • DOST Central Office DOST Executives • DOST RO customers and partners (MSMEs, LGUs, startups, Government Agencies) • DOST - PCIEERD
30	Fringe-area Data Access by Transient Altitude Provision	De La Salle University (DLSU)	Health centers, schools and local government units (LGUs) who are currently a few kilometers outside the reach of wireless broadband coverage
31	One Click: Android/Web-based Student Response and Understanding Visualizer	Mapua Institute of Technology (MIT)	Schools offering Senior High School
32	Environmental, Health and Safety Research in the Risk Assessment of Nanomaterials (Phase 1)	Industrial Technology Development Institute (ITDI)	Manufacturers and end-users of nanotechnology-based materials and products

	Project Title	Implementing Agency	Beneficiaries
33	Ionic Liquid Assisted Electrospinning of Conductive Nanofibers as Solid Polymer Electrolyte/Separator Membrane of Solid-State Supercapacitor	UP Diliman	<ul style="list-style-type: none"> • Energy storage companies • Industries that use polymer-based membranes • Undergraduate and graduate students
34	Up-Scaled Solution-Phase Synthesis of Metal Nanowires and its Application in Transparent Metal Nanowire Touch Panel	UP Diliman	<ul style="list-style-type: none"> • Small and medium scale semiconductor and electronics industries • Local metal industries • Researchers in the academe and research institutes • University undergraduates, graduate students, and graduate researchers
35	Development of a Passive Neutron Spectrometry System (PNSS)	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • Philippine Nuclear Research Institute (PNRI) • Academic Institutions • Personnel working with neutron sources
36	Development of a Raman Microscopy and Spectroscopy (RMS) Setup	UP Diliman	<ul style="list-style-type: none"> • Academic institutes interested in doing micro Raman experiments • Prospective academic institutions UP Campuses <ul style="list-style-type: none"> - UP Diliman: National Institute of Physics (NIP) and Institute of Environmental Science and Meteorology (IESM) - UP Baguio - UP Manila
37	Optical trap-mediated interaction between cancer cells and elucidated compounds from vegetable extracts in PEMF	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Breast cancer or lung cancer or leukemia patients • Medical Practitioners
38	Binary Gels - Rheology of Two-component Biopolymer Hydrogels Investigated Using Optical Tweezers and Non-Linear Rheometry	University of San Carlos (USC)	<ul style="list-style-type: none"> • Bio-medical industries • Mining industry • Local Carrageenan companies or biopolymer, food additive, and related gelling agent producers
39	Synthetic Aperture Radar (SAR) and Automatic Identification System (AIS) for Innovative Terrestrial Monitoring and Maritime Surveillance	Advanced Science and Technology Institute (ASTI)	<ul style="list-style-type: none"> • Office of the President • Department of Science and Technology (DOST) • Department of Environment and Natural Resources (DENR) • Department of Agriculture (DA)
40	Establishment of Niche Center on Environmental Informatics for Central Visayas	UP Cebu	<ul style="list-style-type: none"> • Department of Agriculture (DA) • Department of Environment and Natural Resources (DENR) • Mango entrepreneurs • Regional Development Council 7 • Central Visayas • Local Government Units • ICT Sector • Academe

	Project Title	Implementing Agency	Beneficiaries
41	Flood Risk Assessment for Mitigation and Effective Response (FRAMER) of Riverine Towns in Selected River Basins in Cavite, Batangas, and Quezon Provinces using Most Recent LiDAR DEM	Mapua Institute of Technology (MIT)	<ul style="list-style-type: none"> • Local Government Units (LGU) • Citizens
<i>Geospatial Monitoring System for High Value Projects</i>			
42	Project 1. Monitoring and Assessment of Planting Activities and other Applications (MAPA2)	UP Diliman	Department of Budget and Management (DBM)
43	Project 2. Remote Assessment for Irrigation Networks (RAIN)	UP Diliman	Department of Budget and Management (DBM)
44	Geospatial Assessment and Modelling of Urban Heat Islands in Philippine Cities (GUHeat)	UP Diliman	<ul style="list-style-type: none"> • Metro Manila cities • Cities adjacent to and near Metro Manila • Cagayan de Oro City • Zamboanga City • Metro Cebu • Davao City • Bacolod City • Baguio City
<i>Sustained Support for Local Space Technology & Applications Mastery, Innovation and Advancement (STAMINA4Space)</i>			
45	Project 1. Optical Payload Technology In-depth Knowledge Acquisition and Localization (OPTIKAL)	UP Diliman	<ul style="list-style-type: none"> • Engineers/ Scientists/ Researchers of space systems, engineering and technology • Aeronautics, aerospace and other related industry sectors • Universities, space educators, and science and technology community
46	Project 2. Building PHL-50: Localizing the Diwata-1 and Diwata-2 Bus Systems as the Country's Space Heritage 50-kg Microsatellite Bus (LoKAL)	UP Diliman	<ul style="list-style-type: none"> • Engineers/ Scientists/ Researchers of space systems, engineering and technology • Aeronautics, aerospace and other related industry sectors • Universities, space educators, and science and technology community
47	Project 3. Space Science and Technology Proliferation through University Partnerships (STEP-UP)	UP Diliman	<ul style="list-style-type: none"> • Amateur Radio Community • Secondary and tertiary educational institutions and science and technology community • Engineers/ Scientists/ Researchers of space systems, engineering and technology • Aeronautics, aerospace and other related industry sectors
48	Project 4. Ground Receiving Archiving, Science Product Development and Distribution (GRASPED)	Advanced Science and Technology Institute (ASTI)	<ul style="list-style-type: none"> • Government agencies • Researcher Institutions • Academe • General public
49	Center for Astronomy Research and Development: ASTRONOMICAL NEAR EARTH OBSERVATION LIGHT POLLUTION (ANEO-LiPo)	Rizal Technological University (RTU)	<ul style="list-style-type: none"> • Local Government Units (LGUs) • Businessmen and households • Researchers, School and students • Students and the community • Entrepreneurs

	Project Title	Implementing Agency	Beneficiaries
50	Remote Sensing and Data Science: DATOS Helpdesk	Advanced Science and Technology Institute (ASTI)	<ul style="list-style-type: none"> • Government agencies (Department of Budget and Management (DBM), Department of Public Works and Highways (DPWH), Department of Tourism (DOT), Department of Interior and Local Government (DILG), National Disaster Risk Reduction and Management Center (NDRRMC), Department of Education (DepED), Commission on Higher Education (CHED), Department of Health (DOH), etc.) • Researcher Institutions • Academe • General public
<i>Integrated Assessment and Modelling of Blue Carbon Ecosystems for Conservation and Adaptive Management (IAMBlueCECAM)</i>			
51	Project 4. Hydrodynamic Modelling for the Assessment of Protective Services of Mangroves and Seagrass (HMAPS-MS)	UP Diliman	<ul style="list-style-type: none"> • Local Government Units (LGUs) • Local coastal communities • Department of Environment and Natural Resources (DENR) • Disaster Risk Reduction National Disaster Risk Reduction and Management Council (NDRRMC) • Department of Tourism (DoT) • Department of Public Works and Highways (DPWH) • Research community
52	Project 5. Modelling, Analysis and Simulation of Blue Carbon Cycle and Budgets (BlueCyMAS)	UP Diliman	Researchers and students of the Marine Science Institute of UP Diliman
53	Project 6. Suitability Models for Guiding Mangrove RePlanting Efforts (SuitMaPs)	UP Diliman	<ul style="list-style-type: none"> • Local Government Units (LGUs) • Coastal communities • Relevant National Government Agencies (NGAs) • Researchers involved in coastal resources
54	Project 8. Multi-agent Systems for Simulating Policy Scenarios on Blue Carbon Ecosystems (BlueMASSPolis)	UP Diliman	<ul style="list-style-type: none"> • Local governments and communities in the four study sites • Local researchers in public policy • Students and researchers from engineering and the sciences
<i>GeoSafer Mindanao Program (ZAMBASULTA, Northern Mindanao/ Cotabato, Agusan, Western Mindanao and Southeastern Mindanao)</i>			
55	Project 1. Geo-SAFER Zamboanga Peninsula – Systematic Assessment of Flood Effects and Risks in Zamboanga Peninsula, Mindanao, Philippines	Ateneo De Zamboanga University (ADZU)	<p>Local Communities</p> <ul style="list-style-type: none"> • Local Government Units (Provinces, Cities/ Municipalities) <ul style="list-style-type: none"> - Local Disaster Risk Reduction and Management Offices - Local Planning and Development Offices

	Project Title	Implementing Agency	Beneficiaries
			<p>Office of Civil Defense (OCD) Zamboanga Peninsula</p> <ul style="list-style-type: none"> • Department of Science and Technology (DOST) Zamboanga Peninsula • Department of Social Welfare and Development (DSWD) • Department of Public Works and Highways (DPWH)
56	Project 2. Geo-SAFER Northern Mindanao/Cotabato – Systematic Assessment of Flood Effects and Risks in Northern Mindanao and Cotabato, Philippines	Central Mindanao University (CMU)	<ul style="list-style-type: none"> • Local Communities • Local Government Units (Provinces, Cities/ Municipalities) <ul style="list-style-type: none"> - Local Disaster Risk Reduction and Management Offices - Local Planning and Development Offices • Office of Civil Defense (OCD) Region IX and Cotabato • Department of Science and Technology (DOST) Region IX and Cotabato • Department of Social Welfare and Development (DSWD) • Department of Public Works and Highways (DPWH) • Department of Environment and Natural Resources (DENR) • DENR – River Basin Control Office (RBCO) • National Power Corporation (NPC) • Department of Agriculture (DA) • DA - Bureau of Soils and Water Management (BSWM) • National Irrigation Authority (NIA)
57	Project 3. Geo-SAFER Agusan – Systematic Assessment of Flood Effects and Risks in the Agusan River Basin, Caraga Region, Mindanao, Philippines	Caraga State University (CarSU)	<ul style="list-style-type: none"> • Local Communities • Local Government Units (Provinces, Cities/ Municipalities) <ul style="list-style-type: none"> - Local Disaster Risk Reduction and Management Offices - Local Planning and Development Office • Office of Civil Defense (OCD) Caraga • Department of Science and Technology (DOST) Caraga • Department of Social Welfare and Development (DSWD) • Department of Public Works and Highways (DPWH)

	Project Title	Implementing Agency	Beneficiaries
58	Project 4. Geo-SAFER: Western Mindanao - Systematic Assessment of Flood Effects and Risks in Western Mindanao	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	<ul style="list-style-type: none"> • Local Communities • Local Government Units (Provinces, Cities/ Municipalities) <ul style="list-style-type: none"> - Local Disaster Risk Reduction and Management Offices - Local Planning and Development Offices • Office of Civil Defense (OCD) Davao Provinces and Compostela Valley • Department of Science and Technology (DOST) Regional Office • Department of Social Welfare and Development (DSWD) • Department of Public Works and Highways (DPWH) • Department of Environment and Natural Resources (DENR) • DENR – River Basin Control Office (RBCO) • National Power Corporation (NPC) • Department of Agriculture (DA) • DA - Bureau of Soils and Water Management (BSWM) • National Irrigation Authority (NIA)
59	Project 5. Geo-SAFER: Southeastern Mindanao - Systematic Assessment of Flood Effects and Risks in Southeastern Mindanao	UP Mindanao	<ul style="list-style-type: none"> • Local Communities • Local Government Units (Provinces, Cities/ Municipalities) <ul style="list-style-type: none"> - Local Disaster Risk Reduction and Management Offices - Local Planning and Development Offices • Office of Civil Defense (OCD) Davao Provinces and Compostela Valley • Department of Science and Technology (DOST) Regional Office • Department of Social Welfare and Development (DSWD) • Department of Public Works and Highways (DPWH) • Department of Environment and Natural Resources (DENR) • DENR – River Basin Control Office (RBCO) • National Power Corporation (NPC) • Department of Agriculture (DA) • DA - Bureau of Soils and Water Management (BSWM) • National Irrigation Authority (NIA)
60	Formulation of a Settlements Development Model in New Growth Areas in the Philippines	UP Diliman	Residents living along the 3-meter easement of eight waterways in Metro Manila
61	Development of Earthquake Intensity Monitoring System	Mapua Institute of Technology (MIT)	Philippine Institute of Volcanology and Seismology (PHIVOLCS)

	Project Title	Implementing Agency	Beneficiaries
62	Development of Philippine Structural Integrity Monitoring System for Critical Infrastructures in Metro Manila (PhilSIMS Phase 1)	Mapua Institute of Technology (MIT)	<ul style="list-style-type: none"> • Department of Public Works and Highways – Bureau of Design (DPWH-BOD) • Officials of Local Government Units (LGUs) • Building owners • Civil/structural engineers
<i>Comprehensive Evaluation of Critical Infrastructures and Construction Raw Materials in the Philippines Using Concrete Petrography</i>			
63	Project 1. Concrete Petrography as a Quality Assessment Tool of Hardened Concrete from Lifeline Structures in the Philippines	UP Diliman	<ul style="list-style-type: none"> • Members of the construction sector • Government agencies, such as DPWH and COA • Local Government Units (LGUs) • General Populace • Academic Institutions
64	Project 2. Geological, Chemical and Physical Evaluation of Concrete Raw Materials Used in Critical Philippine Infrastructures	UP Diliman	<ul style="list-style-type: none"> • Government agencies such as DPWH, COA, NEDA, DOTr • Local Government Units (LGUs) • Construction Industry • Aggregate quarry operators and mineral / chemical admixture suppliers • Academic Institutions
65	Rubbers and Waste Plastics as Reinforcement Additives for Asphalt Binder-based Pavement Infrastructures	UP Diliman	<ul style="list-style-type: none"> • Rubber farmer • Rubberized Asphalt Technical Working Committee • DPWH-BRS • PLGU-North Cotabato • Sunshine Rubber Resources, Co.
66	CATfish: A Modular Mini-Autonomous, Underwater Vehicle (AUV) initially submitted as (Remotely operated underwater vehicle (ROV-One))	UP Diliman	<ul style="list-style-type: none"> • Environmental and hazards monitoring • Researchers • Aquaculture • Security • Industry • Hobbyists
67	Investigation and numerical modeling of Philippine tsunamis based on historical, geomorphological and geological evidence of past earthquakes	UP Diliman	<ul style="list-style-type: none"> • Local Government Units (LGUs) • Research Institutes • Armed Forces of the Philippine (AFP) • Philippine Coast Guard (PCG) • National Mapping and Resource Information Authority (NAMRIA) • Mines and Geosciences Bureau (MGB)
68	Optimization of the Operational Capabilities of Hydromet Sensors in Line with International Standards (WMO Standards) for Effective Weather, Flood Warning (CBFEWS) and Application to Research	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • Flood-prone communities • Hydrometeorologists, climatologists, and other researchers • Farmers • Private industry • Local Government Units • Other concerned Government Agencies

	Project Title	Implementing Agency	Beneficiaries
	Analyzing CORDEX - SEA Regional Climate Simulations for Improved Climate Information over the Philippines: SST Influence, Variability and Extremes, Tropical Cyclone Activity		
69	Project 1. Analysis of the Influence of Sea Surface Temperature Representation in Downscaled Regional Climate Using the SEACLID/CORDEX – Southeast Asia Simulations	Manila Observatory	Scientists and practitioners that need to understand the ability of regional climate models
70	Project 2. Multi-temporal and Extremes Analysis of Modeled Climatology over the Philippines in the SEA CORDEX Domain	Manila Observatory	<ul style="list-style-type: none"> • Scientists • Researchers • Academics • Stakeholders that need information on climate variability
71	Project 3. Detecting Tropical Cyclones in a Downscaled Regional Climate Model for CORDEX – SEA	Manila Observatory	<ul style="list-style-type: none"> • Scientists • Researchers • Academics • Stakeholders
72	Liquefaction Hazard Assessment for Resilient Schools in GMMA: A Liquefaction Probabilistic Model using Non-Invasive Geophysical Techniques and Limited Probe Hole	Philippine Institute of Volcanology and Seismology (PHIVOLCS)	DepEd school buildings within the liquefaction susceptible areas identified as coastal municipalities in Metro Manila, Bulacan, and Cavite
	PH UK Newton Agham Joint Cooperation Program on Understanding the Impacts of Hydrometeorological Hazards in South East Asia		
73	Philippines - Quantitative Lahar Impact and Loss Assessment under changing Land Use and Climate Scenarios	Philippine Institute of Volcanology and Seismology (PHIVOLCS)	Department of Science and Technology - Philippine Institute of Volcanology and Seismology (DOST - PHIVOLCS)
74	Catchment Susceptibility to Hydrometeorological Events: Sediment Flux and Geomorphic Change as Drivers of Flood Risk in the Philippines	UP Diliman	<ul style="list-style-type: none"> • Department of Environment and Natural Resources - Mines and Geosciences Bureau (DENR - MGB) • Department of Public Works and Highways (DPWH) • City of Ilagan • Municipality of Vintar • River Basin Control Office (DENRRBCO) • National Institute of Geological Sciences (NIGS), UP Diliman • Marine Science Institute (MSI), UP Diliman • Department of Geodetic Engineering & Training Centre for Applied Geodesy and Photogrammetry (TCAGP), UP Diliman • Institute of Environmental Science & Meteorology (IESM), UP Diliman • Department of Science and Technology - Philippine Atmospheric Geophysical & Astronomical Services Administration (DOST - PAGASA) • National Disaster Risk Reduction and Management Centre (NDRRMC)

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • Department of Environment and Natural Resources - Environmental Management Bureau (DENR-EMB) • Geoscience Foundation Inc • Metro Pacific Investment Corporation • Primewater
75	Philippines Groundwater Outlook (PhiGO)	Ateneo De Manila University (ADMU)	<ul style="list-style-type: none"> • Filipino water industries • Government agencies • Local Government Units (LGUs)
76	SCaRP: Simulating Cascading Rainfall-triggered Landslide Hazards in the Philippines	Mapua Institute of Technology (MIT)	<ul style="list-style-type: none"> • Department of Science and Technology - Philippine Atmospheric, Geophysical, and Astronomical Services Administration (DOST – PAGASA) • National Water Resources Board (NWRB) • Mines and Geosciences Bureau (MGB) • Weather Philippines Foundation (WPF) • General Public
77	Providing High Resolution 5km Climate Change Projections in the Philippines Using Weather Research and Forecasting (WRF) Model	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • General Public • Local Government Units (LGUs) • Natural Resource Managers • Scientists • Researchers • Stakeholders • Decision Makers
78	e-Asia: Development of Information Gathering and Utilization Systems using small Unmanned Airborne Vehicles (UAVs) for Disaster Risk Assessment, Monitoring and Response	Philippine Institute of Volcanology and Seismology (PHIVOLCS)	<ul style="list-style-type: none"> • People living near active volcanoes and active faults • People affected by disasters • Local Government Units (LGUs) • PHIVOLCS researchers and monitoring personnel
<i>Development of a fixed wing short take-off and landing (STOL) unmanned aerial vehicle (UAV) for disaster risk reduction and management</i>			
79	Project 1. Design and fabrication of an airframe for a medium-range, short take-off and landing UAV	FEATI University	<ul style="list-style-type: none"> • Local Unmanned Aerial Vehicle (UAV) operators/ users • Aeronautical schools • UAV developers • Abaca farmers
80	Project 2. Development of a Flight Controller for a Modular UAV System	De La Salle University (DLSU)	<p>Government agencies:</p> <ul style="list-style-type: none"> • Philippine Navy • Department of Science and Technology (DOST) • DOST – Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) • National Disaster Risk Reduction and Management Center (NDRRMC) • Philippine Coastguard (PCG)

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • Armed Forces of the Philippines (AFP) • Local Government Units (LGUs) • Relief organizations
81	Project 3. Cooperative UAV-UGV Missions and Applications with Custom Communications and Imaging Capabilities	Ateneo De Manila University (ADMU)	<ul style="list-style-type: none"> • Disaster response teams and relief organizations • Emerging drone services industry • Agriculture or marine resource (rivers, lakes, coastal areas) agencies • Data collection agencies that need aerial platforms to assist operations
82	Fire Check: Urban Fire Hazard Mapping and Fire Spread Modeling	UP Cebu	<ul style="list-style-type: none"> • Local government units In Metro Cebu (Mandaue and Lapu-Lapu) • Bureau of Fire Protection (BFP)
83	A Dispersive Long-Wave Model for Predicting Coastal Flooding due to Storm Surges and Surface Waves in Manila Bay	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • Philippine Navy • Philippine Ports Authority (PPA)
84	Mapping of offshore active faults for resilient coasts	UP Diliman	Coastal communities in Lingayen Gulf, Manila Bay
<i>Severe Wind Hazard and Risk Assessment for Cebu City</i>			
85	Severe Wind Hazard Mapping for the Philippines and Cebu City	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • Researchers • Emergency Managers • Planners • Stakeholders • General public
86	Enhanced Severe Wind Vulnerability Curves of Key Building Types in the Philippines	UP Diliman	<ul style="list-style-type: none"> • Researchers and scientists • Insurance personnel who are in the disaster risk reduction and management (DRRM) field • Department of Public Works and Highways (DPWH) • Association of Structural Engineers of the Philippines (ASEP) • Local Government Units (LGUs)
87	Exposure Data Development and Severe Wind Risk Assessment for Cebu City	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • Local Government Units (LGUs) • Disaster Risk Reduction officers • Researchers • Non-government Organizations (NGOs)
88	Automated Real-Time Monitoring System (ARMS) for Magat Dam	Mapua Institute of Technology (MIT)	<ul style="list-style-type: none"> • National Water Resources Board (NWRB) • National Irrigation Authority – Magat River Integrated Irrigation System (NIA-MARIIS) • SN Aboitiz • Dam TWG's • LGU's covered by the Dam breach

	Project Title	Implementing Agency	Beneficiaries
89	Development of Groundwater Resource Management Plan and Monitoring System for Zamboanga City and its Surrounding Areas	Ateneo De Manila University (ADMU)	<ul style="list-style-type: none"> • Local Water Utilities Administration (LWUA) • National Water Resources Board (NWRB) • Water District of Zamboanga City and surrounding areas
90	Enhancing the Hydrometeorological Hazards Monitoring and Risk Assessment Capabilities of PAGASA through the Adoption and integration of NOAA Operating Systems	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • National Disaster Risk Reduction Management Center (NDRRMC) • Regional Disaster Risk Reduction Management Center (RDRRMC) • Municipal Disaster Risk Reduction Management Center (MDRRMC) • Disaster Response Organizations • International Non-Government Organizations (INGOs) • Non-Government Organizations (NGOs) • Academe • National Government Agencies (NGAs)
91	FEATURE: Feature-based Earthquake Analysis Toolset for Urban Response Estimation - Enhancing PHIVOLCS damage estimation capability using building-specific analysis aided by high resolution GIS data	Philippine Institute of Volcanology and Seismology (PHIVOLCS)	<ul style="list-style-type: none"> • Department of Science and Technology - Philippine Institute of Volcanology and Seismology (DOST - PHIVOLCS) • Agencies working on disaster mitigation planning and quick response
92	Specific Earthquake Ground-Motion to help enhance the seismic resiliency of residential and medium-to-high rise buildings in Metro Cebu and Metro Davao	Philippine Institute of Volcanology and Seismology (PHIVOLCS)	<ul style="list-style-type: none"> • Researchers of DOST – PHIVOLCS and academe • Civil/structural engineers
93	National Loss and Damage Registry: A Disaster Management Information System for the Office of the Civil Defense	De La Salle University (DLSU)	Office of Civil Defense
<i>Improvement of Forecast Capability on Weather, Marine Meteorology and Short-Range Climate</i>			
94	Project 1. Typhoon Formation, Structure and Intensity Change in Western NP and Wave Observation and Modeling	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • Forecasters • Researchers • Emergency Managers • Planners • General Public
95	Project 2. Heavy Rain Monitoring and Forecasting in the Mountainous Area and Early Warning Landslides	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • Local Government Units (LGUs) • Research institutions • Relevant government agencies (local and national disaster management agencies)
96	Project 3. Observations and Dynamical Downscaling of Seasonal and Sub-seasonal Forecasts	Philippine Atmospheric, Geophysical and Astronomical Services	<ul style="list-style-type: none"> • Forecasters • Researchers

	Project Title	Implementing Agency	Beneficiaries
		Administration (PAGASA)	
MECO - TECO Integrative Studies on the geodynamics of the Philippine and Taiwan ARC Systems			
97	Project 1. Investigating the Tectonic Evolution of Northern and Central Philippine Arcs through Geochemistry and Geophysics	UP Diliman	<ul style="list-style-type: none"> • Local government Units (LGUs) • Research Institutions • Relevant Government Agencies (Local and National Disaster Management Agencies) • Exploration companies
98	Project 2. Coastal Tectonics of Central Philippine Islands and Its Implications for Seismic Hazards	UP Diliman	<ul style="list-style-type: none"> • Local government units (LGUs) • Research Institutions • Relevant Government Agencies • Exploration Companies
99	Project 3. Geophysical Characterization of the Western Philippine Subduction Zones	UP Diliman	<ul style="list-style-type: none"> • Local government units (LGUs) • Research Institutions • Relevant Government Agencies • Exploration Companies
100	Understanding Lightning and Thunderstorms for Extreme Weather Monitoring and Information Sharing (ULAT)	Advanced Science and Technology Institute (ASTI)	<ul style="list-style-type: none"> • PAGASA • UPD-EEI, UPD-IESM, UPD-NIGS • Communities affected by disasters • Hydrometeorologists, climatologists and other researchers • Farmers • Private industry • Local Government Units • Other concerned government agencies
101	Weather and Climate Science for Service Partnership for South East Asia: Building a Safer Community to Weather and Climate Variability through Science and Innovation	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)	<ul style="list-style-type: none"> • Public • Scientists • Researchers • Stakeholders • Decision Makers • Local Government Units (LGUs) • Natural Resource Managers
102	Geospatial Information Management & Analysis Project for Hazards & Risk Assessment in the Philippines (Georisk PH)	Philippine Institute of Volcanology and Seismology (PHIVOLCS)	<ul style="list-style-type: none"> • Local Government Units (LGUs) • Civil defense institutions • Planners • Local and International researchers • General Public
103	Micro Grid Solar PV System	Ateneo De Davao University (ADDU)	Local community in Manurigao, New Bataan, Compostela Valley
104	Techno - Economic Feasibility Study of Micro-Grid in a Remote Community	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	<ul style="list-style-type: none"> • Local people in a sitio in Rogongon, Iligan City and of other remote rural communities • Graduate and Undergraduate students who will improve their research capabilities in line with Micro-grid Development, Optimal Operation and Sustainable Management • Local personnel and interested stakeholders

	Project Title	Implementing Agency	Beneficiaries
105	Establishing a 25-kW Waste-to-Energy Facility Using a Direct Combustion Process for Municipal Solid Waste: A Technical, Economic and Environmental Studies	UP Los Baños	<ul style="list-style-type: none"> • Policy makers • Government institutions • Law makers • Energy sector in the Philippines
106	Metro Manila Transportation Network: Big Data Analytics and Applications (MMTN:BDAA)	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Department of Transportation (DoTR) • Department of Public Works and Highways (DPWH) • Department of Interior and Local Government (DILG)
107	Prototype Development of Severe Weather Amphibious Navigator Using Local Abaca Composites	Wesleyan University of the Philippines (WUP)	Households in Region 3 who are affected by floods and typhoons
108	Development of a hybrid trimaran fast craft passenger cargo vessel using multi engine and alternative energy source from ocean waves	Aklan State University (ASU)	<ul style="list-style-type: none"> • Maritime Industry including investors and shipbuilders • Transportation sector • Environmental sector • Local Community • The University
109	Validation and Turnover of the Hybrid Electric Train (HET)	Metals Industry Research and Development Center (MIRDC)	<ul style="list-style-type: none"> • Philippine National Railways (PNR) • Light Rail Transit Authority (LRTA) • Manila Metro Rail Transit • Northrail Project
110	Technology Promotion of Five-Coach Hybrid Electric Road Train (HERT) in General Santos City	Metals Industry Research and Development Center (MIRDC)	Transportation Industry
<i>Intellect: Intelligent Electric Transportation Network</i>			
111	Project 1. Ad-hoc Vehicle-Infrastructure Cooperative Environment	UP Diliman	<ul style="list-style-type: none"> • UP Administration • Business Sectors located in metropolitan business areas
112	Project 2. EmoCION: Electric Mobility and Charging Infrastructure Operating as a Network	UP Diliman	<ul style="list-style-type: none"> • University campuses • Government complexes • Science and technology parks • Tourist spots • Protected areas
113	Project 3. E-trike Deployment and Utilization Study	Cagayan State University (CSU)	<ul style="list-style-type: none"> • Commuters/employees working within the government center • Clients who are transacting business with all the offices in the government center
114	TITAN: Vision-based Traffic Information & Analysis	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Department of Environment and Natural Resources – Environmental Management Bureau (DENR – EMB) • Manila Observatory • Other institutions engaged in the study of air quality (AQ) management and Traffic • Management • Health officials • Metro Manila Development Authority (MMDA) • Local Government Units (LGUs)

	Project Title	Implementing Agency	Beneficiaries
115	Design and Development of UP Bike Share System	UP Diliman	<ul style="list-style-type: none"> • UP Students, faculty, and staff • UP Administration
116	Recycling and Recyclability Index for End-of-Life Jeepneys	University of Asia and the Pacific (UA&P)	<ul style="list-style-type: none"> • People of Metro Manila • Formal and informal workers in recycling and recovery
117	Development of a Local Automatic Identification System (AIS) for Ship Tracking and Monitoring	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Maritime Industry Authority (MARINA) • Philippine Ports Authority (PPA) • Coastguard • Ship owners and other parties involved in the production and sales of the system
118	Cyber-Physical Transportation System	UP Diliman	<ul style="list-style-type: none"> • Transportation Sector • Local Government Units (LGUs) • Department of Public Works and Highways (DPWH) • Land Transportation Franchising and Regulatory Board (LTFRB) • Metro Manila Development Authority (MMDA)
119	Sustainable Wastewater Treatment Systems with Nutrient (SWAN) Recovery	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Department of Environment and Natural Resources (DENR) • Department of Science and Technology (DOST) • Wastewater Utility Agencies
120	Development of Titanium Dioxide Films and its Derivatives for Semiconductor Mediated Photocatalytic Treatment of Water	UP Diliman	<ul style="list-style-type: none"> • Students and researchers who work on photocatalytic materials for environmental applications • General Public • Environment
121	MCWQM: Multi-platform and Cross-Sensor Water Quality Monitoring	UP Diliman	<ul style="list-style-type: none"> • National government agencies • Laguna Lake Development Authority (LLDA) • Local Government Units (LGUs) • Non-Government Organizations (NGOs) • Academe
122	Electromagnetic Radar Technique for Water Detection	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	<ul style="list-style-type: none"> • Masteral Engineering Research and Development for Technology (ERDT) scholars • Local Geodetic Engineers • Local Government Units (LGUs) • Other academic and research institutions
123	Post-Treatment of Food Processing Wastewater Effluent for Nutrient Removal	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • CENMACO, Inc. • Food Processing Industries • Stakeholders of Pasig River
124	Design review, design finalization and production assessment of a locally fabricated optical aerosol monitor	UP Diliman	<ul style="list-style-type: none"> • Academe • Private institutions • Commercial entities • Government agencies • Non-government organizations

	Project Title	Implementing Agency	Beneficiaries
125	Master of Research and Development Management	UP Open University	Incumbent and potential research managers from the present researchers, scientists, engineers, and other research practitioners
126	Enhancing the Applicability of Vertical Helophyte Filter Systems for Small Communities, Local MSMEs and Public Entity	DOST Region XI	<ul style="list-style-type: none"> • Bankerohan Livestock Multipurpose Cooperative • National Meat Inspection Service (NMIS) • Poultry industry • Local MSMEs and small • Communities • Department of Environment and Natural Resources – Environmental Management Bureau (DENR - EMB)
127	Support to the Rehabilitation of Boracay Island Through the Upgrading of Material Recovery Facilities (MRFs) - Phase I	DOST Region VI	LGU Malay specifically the MRFs of Barangay Yapak, Manoc-manoc, and Balabag
<i>Field-testing of the Integrated Gold-Copper Mineral Processing Pilot Plant in the Regions</i>			
128	Field-testing of the Integrated Gold-Copper Mineral Processing Pilot Plant in the Regions (Compostela Valley)	UP Diliman	Small scale mining industry in Region II, V, IX, XI, and CARAGA
129	Field-testing of the Integrated Gold-Copper Mineral Processing Pilot Plant in the Regions (CARAGA)	UP Diliman	
130	Field-testing of the Integrated Gold-Copper Mineral Processing Pilot Plant in the Regions (Bicol)	UP Diliman	
<i>Synergistic Capacity Advancement for the Management of Laguna Lake: SCALE</i>			
131	Project 1. Antibiotics, Endocrine Disruptors and Heavy Metals in Laguna Lake Water: Impacts on Food and Water Security	UP Diliman	<ul style="list-style-type: none"> • Laguna Lake Development Authority (LLDA) • People that derive their livelihood from the lake • Community leaders
132	Project 2. Microbial Source Tracking in Selected Tributaries of Laguna de Bay	UP Diliman	<ul style="list-style-type: none"> • Laguna Lake Development Authority (LLDA) • Research and Development • Institutions (RDIs) • Regulators • Policy makers/planners/ coordinators • Local Government Units (LGUs)
133	Project 3. TRACe Fish – Trace oRganics and metAls in Commodity Fish: Method optimization, extent of contamination and health risk due to fish intake	UP Diliman	Laguna Lake Development Authority (LLDA)
<i>Assessment of Metal Content in Agricultural Products and Its Environment in Volcanic Impacted Areas</i>			
134	Project 1. OneLab Capability Assurance System for Metal Content Assessment in Agricultural Produce, Water and Environmental Samples	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Consumers of Water and • Agricultural Produce in the Affected Area
135	Project 2. Metal Content of Water Supplies in Volcanic Impacted Area and its Impact to Vegetation	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Policy Makers on Food and Water Safety • Private and Public Water Resource Managers

	Project Title	Implementing Agency	Beneficiaries
136	Project 3. Household and Community Based Filters for Metals in Water	Industrial Technology Development Institute (ITDI)	
137	Water - Energy - Nutrient Nexus in the Cities of the Future	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Researchers, university teachers and research students in several interdisciplinary areas • Professionals • Businesses • Policy making bodies
138	Establishment of Spray Drying Technology and Equipment for the Regional FICs (Batch 2)	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Existing food processors • Entrepreneurs • Food product developers • Researchers and the academe in food technology
139	Development of Ready-to-Eat Corn Grit Meals	UP Diliman	<ul style="list-style-type: none"> • Victims of disasters and emergency situations • Food processors
<i>Food Manufacturing: Establishment of Halal Assurance Systems for Food</i>			
140	Establishment of Halal Assurance System for Processing Selected Banana Products (Banana Chips, Banana Catsup, and Frozen "Saba" Banana)	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Food Manufacturers/ Processors • Halal Food Consumers • Halal Food trade organizations/association and • academic institutions
141	Establishment of Halal Assurance System for Bakery Products	Industrial Technology Development Institute (ITDI)	Small and Medium Enterprises (SMEs) particularly the Halal bakery industry
142	Establishment of Halal Assurance System for Muslim Delicacies and Processing Techniques	Sultan Kudarat State University (SKSU)	Philippine Halal Industry
143	Development of Regional Halal Native Delicacies	Mindanao Autonomous College Foundation, Inc. (MACFI)	Local food processors, producers and enterprises in Maguindanao, Lanao del Sur, Basilan, Sulu and Tawi-tawi engaged in producing and selling native delicacies
144	Technical Guidelines Development for Minimally Processed Halal Chicken and Chicken By-Products (Edible Giblets)	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Poultry Industry • Halal Food Service Industry • Halal Food Manufacturing Industry • Halal Food Consumers
145	Development of Emulsified Meat Products (Sausage, Nuggets, and Burgers)	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Academe • Halal Food Service Industry • Halal Food Manufacturing Industry • Halal Food Consumers
<i>DOST Integrated S&T Halal Program</i>			
146	Establishment of Halal Assurance System for Production, Method Development and Standardization of Cosmetics and Toiletries	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Philippine Halal Industry • Philippine toiletries industry • Policy makers • Farmers/Raw Materials /Natural Ingredients Suppliers
147	Operationalization of Halal Verification Laboratories (HVLs) of DOST Regions CALABARZON, 11, 12, and ARMM in Support to Halal Assurance Systems	DOST Region IV-A	<ul style="list-style-type: none"> • Halal industry (local and export) • Researchers • Students
<i>Human Resource Development of Halal Science, Technology and Innovation</i>			

	Project Title	Implementing Agency	Beneficiaries
148	Training Needs Assessment and Development and Deployment of Training Modules on Halal	DOST Region XI	<ul style="list-style-type: none"> • Halal export industry; accreditation, certifying bodies and regulatory bodies)
149	Curriculum Development and Offering on Halal Science and Scholarship for SUC Faculty on Halal Science	University of Southern Mindanao (USM)	<ul style="list-style-type: none"> • Halal food processors, service providers and policy makers • Public, professionals, and industry
<i>Integrated Food Safety Program</i>			
150	Exposure Assessment of Food Chemical Contamination in Metro Manila: A Pilot Total Diet Study Approach	Food and Nutrition Research Institute (FNRI)	<ul style="list-style-type: none"> • General population • Food and agricultural industries • Local and international food • Traders • Risk assessors • Risk managers • Risk communicators
151	Prevalence of Mycotoxin in Rice and Corn in the Philippines	Food Development Center - National Food Authority	<ul style="list-style-type: none"> • National Food Authority (NFA) and other concerned agencies such as Food and Nutrition Research Institute (FNRI) • Local farmers • Other researchers from the academe, private sector and/or other government agencies
152	Prevalence of Heavy Metals and Pesticide Residues in Milled Rice and White Corn Grits in the Philippines	Food Development Center - National Food Authority	<ul style="list-style-type: none"> • Rice consumers • Rice farmers • National Food Authority (NFA) • Rice traders/retailers • Researchers • Policy maker
153	Development of Food Safety Guidelines for the Food Service Sectors	Food and Nutrition Research Institute (FNRI)	<ul style="list-style-type: none"> • Food Establishments • General Population
154	Development of Grading System for Adoption of Food Establishments in the Philippines	Food and Nutrition Research Institute (FNRI)	<ul style="list-style-type: none"> • Owners/operators/food handlers of food establishments • LGUs/food inspectors and • clients/customers
155	DOST Food Safety Human Resource Development Project	DOST Region IV-A	<ul style="list-style-type: none"> • DOST Food Safety Team members • Researchers • Specialists • Lab analysts
156	Risk Profiling of Hazards in Philippine Food to Support National Risk Management	UP Diliman	<ul style="list-style-type: none"> • The Philippine government; specifically, the Food and Drug Administration (FDA), the Department of Health (DOH) and the Department of Agriculture (DA) • Food businesses • Academe • Other stakeholders
157	Upgrading and Enhancing the Capacity of the Packaging Technology Division in Packaging Research and Innovation	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Packaging Technology Division (PTD) of the DOST – Industrial Technology Development Institute (ITDI) • Customers/Clients of PTD

	Project Title	Implementing Agency	Beneficiaries
158	Assessing the Contribution of Food Banking Systems in Addressing Food Security	Rise Against Hunger, Philippines Inc.	In Taguig and Bacolod Cities: <ul style="list-style-type: none"> • Pregnant and lactating mothers (paying specific attention to adolescent girls); • Children from six months up to 7 years old • Indigent families
159	Development of Chicken Egg White Powder and Granules from Low Value Edible Shell Eggs	UP Diliman	<ul style="list-style-type: none"> • Batangas Egg Producers Cooperative • Egg Industry
160	Development, Standardization, and Characterization Studies of Tupig, Bukayo, and Bibingka – Region I Native Delicacies	Pangasinan State University (PSU)	Food processors and small entrepreneurs of Pangasinan producing Tupig, bukayo, bitso-bitso, puto, bibingka, and latik
<i>Fishery By-product Processing for Food Application: Towards Commercialization</i>			
161	Project 1. Collagen and Gelatin from By-products of Fish Processing Industry	Central Luzon State University (CLSU)	<ul style="list-style-type: none"> • Fish processing industry • Industries that manufacture frozen aquaculture and seafood products
162	Project 2. Fish Oil, Proteases and Protein Hydrolysate from By-products of Fish Processing	Central Luzon State University (CLSU)	
163	Establishment of ISO17034:2016 Quality Management System and Development of Fish Reference for Proximate, Minerals and Cholesterol Analysis	Food and Nutrition Research Institute (FNRI)	
164	Monitoring and Evaluation of Batch II Complementary Food Technology Adoptors	Food and Nutrition Research Institute (FNRI)	<ul style="list-style-type: none"> • Beneficiaries of nine (9) medium scale complementary food production equipment from the nine priority regions identified in MRP Batch III • Staff of operational medium scale Complementary Food Production Facilities (CFPFs) • Adoptors provided with Training Workshop on Malnutrition Reduction Program (MRP) modules
<i>Product Development and Utilization Program of Abalone in MIMAROPA</i>			
165	Development of bottom housing system for abalone farming	Western Philippines University (WPU)	<ul style="list-style-type: none"> • Abalone farmers • Marine aquaculturists • Coastal resource managers • Local Government Units (LGUs) • Researchers • Fisher folks • Investors • Entrepreneurs • People's Organizations
166	Development of Food and Non-Food Products from Abalone	Marinduque State College (MSC)	<ul style="list-style-type: none"> • Western Philippines University (WPU) • Marinduque State College (MSC) • Consumers within the college/university • Restaurants or food chain within the MIMAROPA region • Other consumers or tourists

	Project Title	Implementing Agency	Beneficiaries
167	Development of Chitosan Film from Sardine Fish Scales	Western Mindanao State University (WMSU)	<ul style="list-style-type: none"> • Sardine canning industry • Tuna processors and manufacturers
168	Performance Evaluation of Dipstick Assay for the Detection of Salmonellae in Selected Food Matrices	National Institute of Molecular Biology and Biotechnology (NIMBB)	<ul style="list-style-type: none"> • Regulatory agencies • Quality control laboratories in both private and public institutions • Academe
<i>I-SALT: Improving Productivity and Efficiency of Local Salt Producers towards a Self-Reliant Philippines in 2020</i>			
169	Project 1. Design, Prototyping of Salt Processing Equipment (Washer, Dryer, Iodizer, Crystallizing Pan, Furnace, Concentrator (Ion exchange membrane)	Industrial Technology Development Institute (ITDI)	Small and Medium Scale Salt Producers in Region I
170	Project 2. Development of Gourmet Salt Products and Micro-sized Salt in Laboratory Scale	Industrial Technology Development Institute (ITDI)	
171	Pilot-Scale Production of Spray-Dried Powder Dextran and High Fructose Syrup using Whole Cell (<i>Leuconostoc mesenteroides</i> isolates) ITDI Fermentation Technology	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Coconut oil processors with coconut water as by-product • Food industry and other potential users of locally supplied high fructose syrup and dextran • Potential commercial producer of dextran and high fructose syrup
172	Development of an Effective Distribution System for RTE Retort Foods (Chicken Arroz Caldo and Smoked Fish Rice Meal) to Mitigate the Magnitude of Distress for Calamity Survivors and Providers of Services	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Potential victims of typhoons • Providers of services such as medical team, DSWD staff, military, etc
173	Enhancing OneLab for Global Competitiveness	DOST Region IX	<ul style="list-style-type: none"> • Manufacturing industries • Micro-, Small, and Medium Enterprises (MSMEs) • Academe • Researchers • Local Government Units (LGUs) • Hospitals
174	Design and Improvement of Gong Fabrication Processes Through S&T Intervention	Metals Industry Research and Development Center (MIRDC)	<ul style="list-style-type: none"> • Gong Makers of the Bedbed Senior Citizens Association of Mankayan, Benguet • The Local Government Unit of Mankayan, Benguet
175	Metrology and PDEA: Correct Quantity, Right Decision	Industrial Technology Development Institute (ITDI)	Philippine Drug Enforcement Agency (PDEA)
176	Design and Development of Processing Machineries for Honey and Intermediate Products	Don Mariano Marcos Memorial State University (DMMMSU)	Philippine Beekeeping Industry
177	Strengthening of DOST Regional Metrology Laboratory Services - Phase II	DOST Region III	<ul style="list-style-type: none"> • Hospital • Rural health units • Doctor's clinics • Medical laboratories

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • Drugstores and other health service providers • General public • Small and Medium Enterprises (MSMEs) and other industrial firm
178	Development of a Future Earth Philippines Program (FEPP) Phase I	National Research Council of the Philippines (NRCP)	<ul style="list-style-type: none"> • Scientists (natural and social) • Policy or decision makers • Local Government Units (LGUs) • Industry, Entrepreneurs, Civil society and indigenous communities • National, Regional and Local educational system
179	Characterization and Separation of Heavy Minerals in the Alluvial and Beach Sands in San Vicente, Northwestern Palawan	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • Locals of the project site • DENR – Mines and Geosciences Bureau (MGB) • Palawan Council for Sustainable Development (PCSD) • Local Government Units (LGUs)
180	Establishment of Common Service Facility (CSF) for Artisanal Small-Scale Gold Mining in Northern Mindanao	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	<ul style="list-style-type: none"> • Mining Industries • All small-scale mining • Local and National government
181	Research and Development Project to Rehabilitate and Enhance Productivity in Lahar and Ash-Laden Areas in Central Luzon	Central Luzon State University (CLSU)	Rural Household in Lahar laden areas in Tarlac, Pampanga, and Zambales
182	Geopolymerization and its Potential Application in Artisanal Gold Mine Tailings Stabilization	Central Mindanao University (CMU)	<ul style="list-style-type: none"> • Small scale mining industry • Local communities • Local Government Units (LGUs) • Non-Government Organization (NGOs) • National Government Agencies (NGAs)
<i>3R Approach to Sustainable Management of Nickel Laterite Ore Mining</i>			
183	Project 1. Utilization of Nickel Laterite Ore rock (low grade) for various applications: Acid Mine Drainage treatment and Carbon Sequestration	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Nickel mining industry • Local communities • Local Government Units (LGUs) • Non-Government Organizations (NGOs) • National Government Agencies (NGAs)
184	Project 2. Recycling and reprocessing of siltation sediments from selected nickel laterite mining areas in the Philippines as raw materials for the synthesis of iron-based novel adsorbents	Central Mindanao University (CMU)	<ul style="list-style-type: none"> • Nickel mining industry • Local communities • Local Government Units (LGUs) • Non-Government Organizations (NGOs) • National Government Agencies (NGAs)
185	Project 3. Recovery of Nanominerals from Silt for Various Ceramic Applications	Central Mindanao University (CMU)	<ul style="list-style-type: none"> • Affected local communities • Local Government Units (LGUs) • Non-Government Organizations (NGOs)

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • National Government Agencies (NGAs)
186	Project 4. Recycling of silt and spent residue from reprocessing as raw materials for geopolymer composite	Central Mindanao University (CMU)	<ul style="list-style-type: none"> • Nickel mining industry • Local communities • Local Government Units (LGUs) • Non-Government Organizations (NGOs) • National Government Agencies (NGAs)
187	Pilot Scale Production of Nickel Pig Iron from Low Grade Laterite Ores	Mines and Geosciences Bureau (MGB)	<ul style="list-style-type: none"> • Mineral sector/mining public • Companies involved in direct shipping Laterite Ores arrangement • Foundries
188	Extraction of Radionuclides Rare Earths, and other Valuable Industrial Elements from Phosphogypsum Tailings	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • Philippine Government • Fertilizer industry • Mining sector • Agricultural sector • Environment sector • Health sector • General Public
189	Tracing the Pathways of Mercury Concentration in Mined-Out Area	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • Local government and residents of Puerto Princesa City and Palawan province • Local water district and Local Water Utilities Administration (LWUA)
190	Establishment of the PTRI "Perfect Fit" Textile Product Development Center	Philippine Textile Research Institute (PTRI)	<ul style="list-style-type: none"> • Philippine textile and garment industry • Ms. Patrice Ramos-Diaz • Retailer/Manufacturer Power Fashion Inc. (PFI) • Uniform Manufacturer • Kingsmen
191	Establishment of Regional Yarn Production and Innovation Center	Philippine Textile Research Institute (PTRI)	<ul style="list-style-type: none"> • MSME's involved in handloom weaving • Garment manufacturers who are engaged into the utilization of natural materials available in the Philippines
192	Utilization of Spent Tea Leaves and Tobacco Dusts as Additives for Plywood Adhesives	Forest Products Research and Development Institute (FPRDI)	<ul style="list-style-type: none"> • Tea-flavored drink producers/ generators of spent tea leaves • Tobacco farmers generating tobacco stalks as waste • National Tobacco Administration • Resin/adhesives manufacturer • Plywood industry and allied industry (furniture & handicraft utilizing plywood as raw materials) • General public
193	Production of Ready-to-Buy (RTB) Natural Textiles and Dyes in Support of Increasing Utilization of Local and Indigenous Philippine Textile	Philippine Textile Research Institute (PTRI)	<ul style="list-style-type: none"> • MSME's involved in handloom weaving • Garment manufacturers who are engaged into the utilization of natural materials available in the Philippines
<i>Enhancement of the Competence and Capability of the National Metrology Laboratory of the Philippines Metrology</i>			

	Project Title	Implementing Agency	Beneficiaries
194	Project 1. Chemical Metrology for Organic Contaminants in Foods and Water	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Producers/Exporters • Testing and calibration laboratories • Standard developers • Regulatory agencies Accreditation bodies
195	Project 2. Chemical Metrology for Inorganic Toxic Elements in Food and Water	Industrial Technology Development Institute (ITDI)	Local testing laboratories
196	Project 3. Biological Metrology for Microorganisms in Food	Industrial Technology Development Institute (ITDI)	Microbiological laboratories accredited by Philippine Accreditation Bureau
197	Project 4. Strengthening the Physical Metrology Capabilities of the National Metrology Laboratory	Industrial Technology Development Institute (ITDI)	Local testing laboratories
198	Modular Innovation Center for Oils, Blends, and Sauces	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Food • Pharmaceuticals • Cosmetics
199	Project 6. Processing and Utilization of Senile and Unproductive Rubberwood (<i>Hevea braziliensis</i>) Trees for High Value Furniture, Mouldings and Joinery Products	Forest Products Research and Development Institute (FPRDI)	<ul style="list-style-type: none"> • People in Zamboanga Sibugay • Municipalities of Zamboanga • Sibugay • DepEd Schools in Region IX and nearby Regions • General public in Region IX
<i>Natural Dyes and Colorants R&D Program</i>			
200	Project 1. Commercial Scale Verification of Natural Dyes for Textiles	Philippine Textile Research Institute (PTRI)	<ul style="list-style-type: none"> • Local textile industry particularly the textile dyeing and silkscreen printing industries • Farmers/producers of natural dye yielding plants • Textile and allied product • Manufacturers • Entrepreneurs
201	Project 2. Development of Natural Colorants for Cosmetics	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Producers of gumamela, dragonfruit, indigo, ube, turmeric and coffee • Personal Care Industry
202	Project 3. Extraction, Characterization, and Application of Natural Colorants in Nutritional Food Products	Food and Nutrition Research Institute (FNRI)	<ul style="list-style-type: none"> • Food processors/ manufacturers • Policy makers – Food and Drug Administration (FDA)
203	Project 4. Natural Food Colors from Local Source as Food Additive	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Farmers • Food industries (confectionary, beverages, packaged foods, dairy products, frozen foods, condiments & dressings, functional food), including artisan makers of food • products • Pet food manufacturer • Micro, Small, and Medium Enterprises (MSMEs)
<i>Processing of Bio-based Polyols and Polyurethanes for Industrial Applications Program</i>			

	Project Title	Implementing Agency	Beneficiaries
204	Project 1. Production of Bio-based Polyols from Lignocellulosic Biomass	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	Manufacturing companies to produce biomass-based polyols for rigid polyurethane (PU) foam application
205	Project 2. Development of Polyurethane-based Packing Materials and Anti-corrosive Coatings from Vegetable Oil	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	Manufacturing companies to produce used/waste vegetable oil-based semiflexible PU packing materials
206	Polyhydroxyalkanoate (PHA) Production from Agricultural Residues	UP Los Baños	<ul style="list-style-type: none"> • Environment • Philippine Market • Academe
207	Development of Design Prototypes for Government Agencies' Uniforms to Promote Mainstreaming of Natural Fibers and Local Weaves	Philippine Textile Research Institute (PTRI)	Government Agencies' personnel
208	Design and Development of a PLC-Based High Capacity Tissue Culture Growth Chamber	Cavite State University (CvSU)	<ul style="list-style-type: none"> • Tissue culturists • Coffee and makapuno stakeholders who want to venture in seedling production • General public who are direct or indirect consumers of coffee and coconut • Industry players for both machines and microcontrollers
209	Comparison of Different Enzyme Preparations for Production of Oligofructose and Inulin from Sugarcane Juice	Cavite State University (CvSU)	Sugar producers
210	Development of Freeze-Dried Local Alternative Flavors for Ice Cream	Benguet State University (BSU)	<ul style="list-style-type: none"> • Academe • Interested entrepreneurs • Women's organization to venture on livelihood activities
<i>Upgrading the PNS for Virgin Coconut Oil (VCO) and the Philippine VCO Industry</i>			
211	Project 1. Physico-chemical factors which affect the quality of VCO	Ateneo De Manila University (ADMU)	<ul style="list-style-type: none"> • SME sector of VCO industry • Coconut farmers • VCO exporters and local traders
212	Project 2. Investigation of the microbiological factors which affect the quality of VCO	Ateneo De Manila University (ADMU)	
213	Project 3. Investigation of factors affecting the sensory properties and acceptability of VCO	UP Diliman	
214	Project 4. Assessment of VCO Production: GMP and HACCP	Ateneo De Manila University (ADMU)	
215	Project 5. Water Activity and Percent Moisture: Effect on VCO Stability	Ateneo De Manila University (ADMU)	
216	Detection of Adulteration in Philippine Honey using Carbon-13 Isotope Analysis	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • Honey producers • Consumers • Regulatory bodies • Researchers • Academe

	Project Title	Implementing Agency	Beneficiaries
217	Tabang MARAWI (Malnutrition Alleviation and Health Restoration through After-War Interventions)	Food and Nutrition Research Institute (FNRI)	<ul style="list-style-type: none"> • Children six (6) months to below three (3) years old in evacuation centers in Iligan City and Cagayan de Oro City • Community workers and program implementers
<i>Nutrition Intervention Model in Time of Man-Made Calamities – A Quick Response to Emergency</i>			
218	Project 1. Production of Nutritional Food Products for Conflict Stricken Areas	Food and Nutrition Research Institute (FNRI)	Distressed victim of man-made calamities
219	Project 2. Implementation of GarNESupp (Gardening, Nutrition Education, Supplementary Feeding) Model in Conflict-stricken area (Marawi)	Food and Nutrition Research Institute (FNRI)	<ul style="list-style-type: none"> • Distressed Marawi Residents • Victims of Marawi Seige
220	Development of an Enhanced Radio Frequency Mesh Network to Track and Monitor Boats at Sea using FAME Transponders	Futuristic Aviation and Maritime Enterprise, Inc. (FAME)	<ul style="list-style-type: none"> • Sabang Port/ Cooperative • Honda Bay/ Palawan Bay/ • Cooperative
221	Filipinnovation Entrepreneurship Corps: Enabling Researchers to Assess Commercial and Societal Value of their Research	De La Salle University (DLSU)	Researchers of DOST – funded researches
222	Enhancement, Field Validation and Market Readiness Detection of of DNA-based Nanobiosensor for the E. coli, E. coli 0157:H7 and Salmonella enterica in Food, Feed and Farm Produce	National Institute of Molecular Biology and Biotechnology (NIMBB)	<ul style="list-style-type: none"> • Animal Feeds Standard Division • Philippine Chamber of Food Manufacturers • Water Service Providers • Farming Industry • Testing laboratories • University Research Centers • Government Agencies • Private Hospitals in Metro Manila
<i>Higher Education Institution Readiness For Innovation & Technopreneurship (HEIRIT) Development Program for Starting TBIs</i>			
223	Establishment of DOST-T.I.P. Technopreneurship and Innovation Center	Technological Institute of the Philippines (TIP)	<ul style="list-style-type: none"> • TIP Students, teaching, and non-teaching employees • TIP Alumni • Industry Partners
224	Establishment of the DOST-Bicol University Technology Business Incubation (DOST-BU TBI) Center for Bicol Region	Bicol University (BU)	<ul style="list-style-type: none"> • Startups • Incubates • Faculties • Alumni
225	Technology Business Incubator Establishment at Saint Louis University (SLU) Technohub	Saint Louis University	<ul style="list-style-type: none"> • SLU students, faculty and alumni • Cohort students and faculty • Local researchers • Entrepreneurs • Startups • Investors • PEZA - locators
226	Establishment of TBI Center at Miriam College - Henry Sy, Sr. Innovation Center	Miriam College	<ul style="list-style-type: none"> • Students • Employees • Alumni • Community partners • Industry partners • Partner schools/universities

	Project Title	Implementing Agency	Beneficiaries
227	Establishment of TBI center for the University of the Cordilleras	University of the Cordilleras	<ul style="list-style-type: none"> • Students • Faculties • Alumni • Researchers • Entrepreneurs • Business leaders and inventors
228	Establishment of DOST-BulSU BARAS TBI (Business Assistance for Regional Acceleration and Sustainability Technology Business Incubator)	Bulacan State University	College Students and Young Professionals, especially in Region 3
229	Establishment of AgiLAB: The USEP Technology Business Incubation Facility and Services for IoT, Industrial Technology & Systems Application Development	University of Southeastern Philippines	<ul style="list-style-type: none"> • Graduates/researchers • Start-up/ Spin-off SMEs • Professionals/workers • Subsidiary of big companies and soft landing
230	DOST - Business Incubation Zone for Novel and Sustainable Enterprises (BIZNEST)	Cagayan State University (CSU)	<ul style="list-style-type: none"> • Students • Graduates/alumni • Faculty and non-faculty researchers/entrepreneur aspirants
231	Establishment of the DOST-TUPV HIVE (Hub for Innovation and Value Engineering)	Technological University of the Philippines Visayas (TUPV)	<ul style="list-style-type: none"> • MSMEs • Students • Faculty members
232	Support for the Establishment of TBI in Holy Angel University (HAU)	Holy Angel University	<ul style="list-style-type: none"> • Students • Faculties • Alumni • Researchers • Entrepreneurs • Business leaders and inventors
233	Development of Data Analytics, Big Data and Artificial Intelligence to Build a Smart Restaurant Management Platform (STARTUP)	Restograph Inc.	Restaurant Owners and Managers
234	Enhancement of Prototype and Assessment of Product Marketability of Machibox (a robotics kit for STEM-based learning)	MachiBox Inc.	Public Grade School Students of: <ul style="list-style-type: none"> • Sitio Target, Pampanga • Cavinti, Laguna
235	CONDAMA & EEMA - Artificial Intelligence Vision System for Retail Analytics	UP Diliman	<ul style="list-style-type: none"> • Filipino retail businesses • Fast Moving Consumer Goods (FMCG) companies • Retail stores
236	Rurok Bikes: Variable Geometry and Efficient Suspension Pedalling Platform	Rurok Industries	Performance bicycle consumers, enthusiasts, hobbyists, and professionals
237	Prototype Development of Semi-Automated Foam Shredder Equipment (TECHNICOM)	Holy Angel University	<ul style="list-style-type: none"> • Pampanga Furniture Industry Foundation • Furniture makers from Manila, Cebu and Davao
	Startup Program		
238	Enhancement of K-12 Grading System towards Intelligent Computing Environment Through Wela School	Wela School System	Private K-12 Schools in Metro Cebu City

	Project Title	Implementing Agency	Beneficiaries
	System Innovations (Responsive Monitoring System for Educational Institution)		
239	Beta Testing of Biotechnology Kits for STEM Education	Kinovette Scientific Solutions Co.	<ul style="list-style-type: none"> • K-12 Schools • Students
240	Development of a Social Media Listening Tool for Filipinos	Senti Techlabs Inc.	<ul style="list-style-type: none"> • Product and Brand Managers • Policy Makers and government officials • Personalities • Service Providers
241	Mobile Application Venture Capital Competition	DOST Region VII	Student groups/firms that participate in Mobile Application Venture Capital (MAVC) 2
242	AI-driven Software Systems for Tertiary Education Institutions	Edusuite Inc.	Private Higher Education Institutions
243	Optimization of an Industry Grade Prototype of Po-lite Products	Po-lite Technology Inc.	<ul style="list-style-type: none"> • House/building owners, developers, contractors, builders and designers • General public
Funding Assistance for Spin-off and Translation of Research in Advancing Commercialization (FASTRAC) Program			
244	Technology and Market Validation for Universal Structural Health Evaluation and Recording (USHER) System	Mapua Institute of Technology (MIT)	<ul style="list-style-type: none"> • Building officials • Structural Engineers
245	CATCH-ALL: Vision-Based Artificial Intelligence Analytics Software Development for Traffic and Transport Applications	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Drivers/Pedestrians • Metro Manila Development Authority (MMDA) • North Luzon Expressway (NLEX)
246	Product and Market Validation for a Semi-Automated Reef Fish Census System	UP Diliman	<ul style="list-style-type: none"> • LGUs and Government Agencies in charge of monitoring Marine Protected Areas (MPAs) (DENR, BFAR) • Non-Government Organizations (NGOs) involved in marine environment monitoring • Companies
247	CharM - Charging in Minutes Spinoff Project - Technology Development for Manufacturability and Open-water Market Validation	UP Diliman	<ul style="list-style-type: none"> • Electric Vehicle manufacturers (EV Wealth, Prozza Hirose, Get EV just to name a few) • EV Technology adapters • Electric vehicle operators • EV Industry in the Philippines and neighboring Asian countries in general
248	Product Testing and Market Validation of Marine Nanocoat for Anticorrosion, Antirbarnacle, AntiUV, coating for ship vessel applications	De La Salle University (DLSU)	Blue Sea Technology and other Shipping firms
249	Commercial Development of Production, Application and Full Market Study of Monascus Red Colorant	UP Los Baños	<ul style="list-style-type: none"> • Food and feed industries • Cosmetics Industry
250	Open Water Validation and Product Enhancement of Smart Surface	UP Diliman	<ul style="list-style-type: none"> • Event organizers • Exhibitors • Advertisers

	Project Title	Implementing Agency	Beneficiaries
	<i>IP Management Program for Academic Institutions Commercializing Technologies</i>		
251	Enhancement of Mapua's Technology Transfer Process and Structure	Mapua Institute of Technology (MIT)	<ul style="list-style-type: none"> • Faculty and students of Mapua • Inventors • Industry
252	Assistance in the Commercialization of DOST Funded Technologies in De La Salle University	De La Salle University (DLSU)	De La Salle University and the members of its community
253	Assistance in the Commercialization of DOST Funded Technologies in Caraga State University	Caraga State University (CarSU)	<ul style="list-style-type: none"> • CSU and DOST-PCIEERD Project Researchers • DOST-PCIEERD Technology Management Office (TMO) Project Team • CSU faculty • MSME's in Caraga Region • Inventors in Caraga Region
254	Establishment of the Technology Management System of the University of the Philippines Cebu	UP Cebu	<ul style="list-style-type: none"> • Researchers • Students • TBI incubates • Shared service providers • Business and industry sector • Government institutions and Agencies • Local community
255	Field Testing and Technology Validation of the E-Procurement System (ePS) for Government Agencies	Infodynamics Technologies	Government agencies involved in the procurement process
256	Enhancing Operational Capability of Palawan International Technology Business Incubator (PITBI)	Palawan State University	Students and MSMEs in the vicinity of Puerto Princesa City
257	Enhancement of Prototype and Market Readiness of R-TAP (an advanced pressure management system for water utilities)	Hiraya Technology Solutions, Inc.	Water districts
258	Enhancing Operational Capability of Bicol University Fabrication Laboratory (Fablab Bicol)	Bicol University (BU)	<ul style="list-style-type: none"> • Registered business enterprises • Freelance designers • Emerging entrepreneurs • Students
259	Establishment of the Technology Management System and Structure of the Ateneo de Manila University	Ateneo De Manila University (ADMU)	<ul style="list-style-type: none"> • University researchers/ academe • PCIEERD/DOST • Industry • Consumer/General Public
260	Geophysical Exploration Instruments with Micro-seismic Imaging and Tomography for Energy Exploration in the Philippines	Tekton Geometrix, Inc.	<ul style="list-style-type: none"> • Energy exploration companies • Department of Energy • Communities in the vicinity of the exploration areas • Filipino exploration industry and Filipino exploration service providers • Students of geology and physics
261	Technology Business Incubator (TBI) at DLSU-STC Campus	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Students in the Colleges of Engineering, Computer Studies, Engineering, • Science, Education and Business of DLSU and other DLS universities • Students in Industrial Design at College of Saint Benilde – DLS

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • DLSU Alumni • Faculty researchers • Universities • Companies located at the neighboring industrial parks
262	Establishment of the AIM-Dado Banatao Incubator	Asian Institute of Management (AIM)	<ul style="list-style-type: none"> • Filipino scientists and engineers • Filipino SMEs and Large Local Companies • Filipino investors • AIM students, faculty members, and alumni
263	Pilot Implementation of ITDI's Pre-Commercialization Tools/Strategies for Effective Transfer and Commercialization of Generated Technologies and Intellectual Properties	Industrial Technology Development Institute (ITDI)	Industrial Technology Development Institute (ITDI)
264	Smart Vision: AI-Guided Vision System for the Blind	Grayscale Marketing Consultancy	Blind and visually impaired persons in the Philippines and in other English-speaking countries
265	Support to the Commercialization of 500 DOST-Generated Technologies (Phase 2): Strengthening the Intellectual Property and Technology Portfolios of the DOST	Technology Application Promotion Institute (TAPI)	<ul style="list-style-type: none"> • Higher Education Institutions (HEIs) • Non-academic Organizations • Private firms • Individual inventors
266	2017-2019 DOST Technology Transfer Day (TTD)	Technology Application Promotion Institute (TAPI)	<ul style="list-style-type: none"> • Stakeholders • Private Sectors • Researchers
267	Development and Application of Isotope and Elemental Provenance-Based Methodologies for Authenticity Testing of Vinegar, Soy Sauce, and other Major Condiments in the Philippines	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • Food manufacturers • Food and Drugs Authority (FDA) • Department of Health (DOH) • Department of Trade and Industry (DTI) • Consumers
	TBI 4.0 Program		
268	Elevating the Capacity and Services of TBIs towards 4th Generation Incubator's Facilities	IdeaSpace Foundation Inc. through QBO Innovation Hub	<ul style="list-style-type: none"> • Philippine startups • 14 existing TBIs and affiliated universities • Local Incubator Collaborators (LIC) • International Incubator Collaborators (IIC) • Consultants and Subject Matter Experts • Government Collaborators • Other Local and International Collaborators
269	DOST Philippine TBI Network Portal and Marketing Strategy for the DOST TBI Portal and Program	West Visayas State University	<ul style="list-style-type: none"> • DOST PCIEERD • TBI Management Office
270	DOST-S.I.B.O.L. Labs: Startup Innovation and Business Opportunity Linkage Labs (A Collaboration between UC Berkeley Sutardja Center for Entrepreneurship and Technology and UP Los Baños Technology Transfer and Business Development Office)	UP Los Baños	Philippine startups

	Project Title	Implementing Agency	Beneficiaries
271	Co-incubation Program between CDO B.i.t.e.s. and Spring Valley	University of Science and Technology of Southern Philippines	Startup companies incubated at the USTP Digital Incubation Hub — CDO bites
272	Technology Business Incubator 4.0 for Region 4	Batangas State University	<ul style="list-style-type: none"> • Students, faculty members and alumni of Higher Education Institutions in Southern Luzon (Region 4A) • Line Agencies • Private agencies and industries
273	Upgrading and Capability-Enhancement of Animo Labs TBI	De La Salle University (DLSU)	<ul style="list-style-type: none"> • De La Salle University (DLSU) • Researchers of the University • Alumni of DLSU • Community of technology management offices
274	Evolution of UPScale from Local to Global Incubation	UP Diliman	Philippine startups
275	Mindanao Scale Up Program for DOST-iDEYA-TBI	Mindanao State University - Iligan Institute of Technology (MSU-IIT)	<ul style="list-style-type: none"> • IdeaSpace Foundation Inc • B612 • Brainsparks Philippines • 1000 Angels • Department of Information and Communications Technology (DICT)
276	Effectiveness of 21st Century Learning Environment Model as a Support System to Teaching and Learning of Science and Mathematics	DOST Region IV-A	<ul style="list-style-type: none"> • Teachers and students of Lipa City National Science High School • Teachers and students of Lipa City National High School • Community • Parents • General Public
277	PHL-MICROSAT Project 1. Microsatellite BUS Development for Philippine Microsat	UP Diliman	<ul style="list-style-type: none"> • Department of Science and Technology (DOST) • Engineers, scientists, and researchers who depend on satellite data for remote sensing and earth observations • Government and civilian organizations involved in disaster risk management and response planning • Academe and local electronics industry
278	Training and Internship Program for Increased Local Bioinformatics Utility and Expertise	Philippine Genome Center	<ul style="list-style-type: none"> • Undergraduate students interested in bioinformatics / computational biology • Bioinformatics trainers/ instructors • Institutions looking for bioinformatics expertise
279	Capability Building on Energy Efficiency and Conservation (EE&C) for State Universities and Colleges (SUCs) in Six (6) Regions as Demonstration Sites	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • State Universities and Colleges (SUCs) • Local Government Units (LGUs) • Government Offices and Buildings • Local industries and Enterprises

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • SUCs faculty and staff
280	DOST - SEI - Newton Fund Scholarships	Science Education Institute (SEI)	PhD degree grantees
<i>Institution Development Program</i>			
281	Establishment of a Pampanga State Agricultural University (PSAU) Bio-energy Laboratory	Pampanga State Agricultural University (PSAU)	<ul style="list-style-type: none"> • Faculty • Researchers • Extensionists • Investors • Students • Other interested clients
282	Upgrading of the PNRI Nuclear Training Center Laboratory Facility	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • Department of Science and Technology - Philippine Nuclear Research Institute (DOST - PNRI) • Researchers
283	UP Cebu Cybersecurity Research and Extension Center	UP Cebu	<ul style="list-style-type: none"> • Philippine Government • Local Communities • Research Institutions • Researchers • UP Cebu
284	Establishment of an Additive Manufacturing Research Laboratory	Bataan Peninsula State University (BPSU)	<ul style="list-style-type: none"> • Philippine Government • Central Luzon Region • Local communities • Industries/Research Institutions • Researchers
285	Establishment of the University of San Carlos Center for Advanced Computational Modelling and Simulation (CACoMS)	University of San Carlos (USC)	<ul style="list-style-type: none"> • Students undertaking research on computational material and other related fields • Scientists/researchers in the field of computational materials research and other related fields • Universities/colleges in the Visayas with no capability of undertaking advanced computational research • Industries and research facilities developing new materials and other energy harvesting materials • Professionals who will undergo training-workshops in the field of computational science
286	Establishment of a Wind Turbine Development and Testing Laboratory	Central Philippines University (CPU)	<ul style="list-style-type: none"> • Central Philippines University (CPU) • Researchers (faculty, students, and private individuals) • Engineers • Equipment fabricators • Local Government Units (LGUs) • Non-Government Organizations (NGOs)
287	Acquisition of Laboratory Equipment in Support of the facility for Nanotechnology R&D in Central Luzon State University	Central Luzon State University (CLSU)	<ul style="list-style-type: none"> • Farmers • Fisherfolks • Students • Faculty and staff researchers

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • Scientists • Other SUCs • Extension workers • Communities • Consumers
288	Establishment of Renewable Energy Laboratory and Demonstration Park	Isabela State University (ISU)	<ul style="list-style-type: none"> • Farmers • Local Government Unit (LGU) • Development practitioners/ workers • Students and Researchers • Higher Education Institutes (HEIs)
289	Development of Future Building Materials and Structures (FBMS) Laboratory	Northwest Samar State University (NwSSU)	<ul style="list-style-type: none"> • Philippine Government • Region VIII (Samar – Leyte Provinces) • Local Communities • Neighboring Universities/ Industries/Research Institutions • Northwest Samar State University • Students/Researchers
290	Development of Geographic Information System (GIS) Innovation Laboratory (GIS InnoLab)	University of the Cordilleras	<ul style="list-style-type: none"> • Philippine Government • Geographic Information System (GIS) Scientists • Student and Faculty Researchers • Local Communities
291	Establishment of CvSU SiMM (Simulation, Modeling and Measurement) Laboratory	Cavite State University (CvSU)	<ul style="list-style-type: none"> • Students and faculty researchers from CvSU and other Universities and institutions • Inventors or private individuals • Small and Medium Enterprises (SMEs) and other industries
292	Enhancing the Natural Science Research Center Laboratories of Central Mindanao University	Central Mindanao University (CMU)	<ul style="list-style-type: none"> • Local communities • Cosmetic industries • Pharmaceutical industries • Graduate students • Young researchers
293	Establishment of the USJ-R Center for Energy Harvesting Materials Research	University of San Jose Recoletos (USJ-R)	<ul style="list-style-type: none"> • Cebu City transportation support • Private or public industries in need of energy-harvesting related technology to capture waste energy • Academe
294	Establishment of a Plasma Physics Laboratory for Materials Processing Applications	UP Baguio	<ul style="list-style-type: none"> • UP Baguio, Department of Physical Sciences, College of Science • Physics Faculty Members and related fields e.g Biology, Chemistry, Mathematics • BS Physics students
295	Establishment of Intelligent Systems Laboratory	Mindanao State University - General Santos City	<ul style="list-style-type: none"> • Faculty and Students of the MSU-Gensan • Small Medium Enterprises (SMEs)
296	Science on the Move and Science Works: Enhancing the Interest of Students in Geographically - Isolated and Depressed Areas (GIDA)	Philippine Foundation for Science and Technology (PFST)	Grades 4 to 10 students of selected GIDA public schools

	Project Title	Implementing Agency	Beneficiaries
297	Strategic Communication Approaches to Boost the Philippine Nuclear Research Institute Promotions	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • General Public • Business/Private Sectors in food, medical, pharmaceutical, cosmetics, and agribusiness • Academe • Youth • Local Government Units (LGUs) • Philippine Nuclear Research Institute (PNRI) and Department of Science and Technology (DOST) • Employees • Government agencies • Investors • Entrepreneurs • Potential adopters • Raw material suppliers • Equipment supplier
<i>Communicating Science for the People</i>			
298	Leveraging the Power of Broadcast and Web Media to Promote Science for the People (DOSTv)	Science and Technology Information Institute (STII)	<ul style="list-style-type: none"> • Academe • Researchers • Stakeholders • Media • General Public
299	Doubling the Reach through Information, Education and Communication (IEC) Campaign	Science and Technology Information Institute (STII)	
300	Enhanced S&T Experience using Leading-Edge Learning Additions and Realities (STELLAR)	Science and Technology Information Institute (STII)	
301	Strengthening the Core	Science and Technology Information Institute (STII)	
<i>DIWATA 2 EXHIBIT</i>			
302	Project 1. Space Adventure Traveling Exhibition	Mind Museum	<ul style="list-style-type: none"> • Filipino scientists working on space technology • Students from across the country • General public
	Project 2. Permanent Exhibition at the Universe Gallery of the Mind Museum		
303	Intensified Promotion of FPRDI - developed Technologies and Service	Forest Products Research and Development Institute (FPRDI)	Micro-, and small enterprises engaged in forest-based products utilization
304	Technology Marketing Package for Juan and Juana	Food and Nutrition Research Institute (FNRI)	<ul style="list-style-type: none"> • National Policymakers • Micro, Small, Medium Enterprises • Current and possible technology adopters • Health workers, nutrition scholars • Community leaders • Academe • Other relevant publics
305	Impact Assessment of the Department of Science and Technology (DOST) Small Enterprise Technology Upgrading Program (SETUP)	Development Academy of the Philippines (DAP)	<ul style="list-style-type: none"> • Department of Science and Technology (DOST)

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • Regional Standards and Testing Laboratories (RSTL) • Industry
306	Development of Municipal e-Governance Systems through ICT	Camarines Sur Polytechnic Colleges (CSPC)	Local Government Units and citizens of Nabua and Bula
307	Industry Defined 2D Basic Animation Course	Toon City Academy	Graduating animations student from universities in the urban areas
308	Portable Potable Water Equipment for Disasters and Emergencies (PWEDE)	UP Diliman	<ul style="list-style-type: none"> • General public in Baguio City • Schools • Parks • Government institutions • Hotels
309	Prototype Development and Field Testing of Mosquito-Repellent Textile	Philippine Textile Research Institute (PTRI)	<ul style="list-style-type: none"> • Students and families living in areas with high incidence of dengue hemorrhagic fever (DHF) • Sports and nature enthusiasts (mountain climbers, hikers and campers) • Healthcare and wellness manufacturers
310	Standards & Testing Automated Modular Platform (STAMP)	UP Diliman	<ul style="list-style-type: none"> • Public calibration laboratories in the regions • Regional Standards and Testing Laboratories (RSTL)
311	Summer Training Camp for High School Students on Genomics and Bioinformatics at the Philippine Genome Center	UP Diliman	Philippine Science High School Students (PSHS)
312	Specific Earthquake Ground-Motion Levels to Help Increase the Seismic Resiliency of Government Infrastructures, Residential and Medium-to-High Rise Buildings in Pangasinan, Tarlac, Metro Iloilo-Guimaras, Cauayan City, Butuan City and Mati City	Philippine Institute of Volcanology and Seismology (PHIVOLCS)	<ul style="list-style-type: none"> • Researchers of Philippine Institute of Volcanology and Seismology (PHIVOLCS) • Academe • Civil/structural engineers • Earthquake disaster planners and local administrators of Pangasinan, Tarlac, Metro Iloilo-Guimaras and Mati City
313	From Pest to Valued Commodity: Black-Chin Tilapia (<i>Sarotherodon melanotheron</i>) for the Development of Surimi-Based Products Processing	Bataan Peninsula State University (BPSU)	Subsistent population and fisherfolks of eastern Bataan
314	ITDI Participation to IFEX PHILIPPINES 2019 "NXTFOOD ASIA", May 24-26, 2019, World Trade Center, Pasay City	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Industrial Technology Development Institute (ITDI) • Industry
315	Development of a Wastewater Filtration System Using Indigenous Materials	Mariners Polytechnic Colleges Foundation of Canaman, Inc.	Coastal residents of barangay Sibobo, Calabanga, Camarines Sur
316	Optimization of Virtual Reality Kit (VR Kit) for New Media Technology and Commercial Competitiveness	MATA VR	<ul style="list-style-type: none"> • Consumer market • Philippine creative and manufacturing industry

	Project Title	Implementing Agency	Beneficiaries
317	Development of an Alternative Credit Scoring Model applying Machine Learning in Financing Farmers	Cropital Enterprises Corporation	Smallholder Farmers
<i>Collaborative Research and Development to Leverage Philippine Economy (CRADLE)</i>			
318	Development of a Design Guideline Using Finite Element Analysis (FEA) for Semiconductor Packages	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Semiconductor industry specifically Integrated Micro-Electronics Inc. (IMI) • R&D station, Center for Engineering and Sustainable Development Research (CESDR)
319	PISOLAR: Payment Innovation for SHS Ownership by Lay Away Routine	University of Southeastern Philippines	Three (3) unelectrified communities in Davao Region located at some parts of Marilog, Panabo, and Sta. Cruz.
320	Maritime Transport Information System (MARIS)	UP Diliman	<ul style="list-style-type: none"> • Transportation Sector • Local Government Units (LGUs) • Maritime Industry Authority (MARINA) • Philippine Ports Authority (PPA)
<i>Establishment of the Philippine Center for Additive Manufacturing (PhilCAM)</i>			
321	Development of Multiple Materials Platform for Additive Manufacturing (MATDEV)	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Manufacturing industry such as automotive, aerospace, agriculture, etc. • Researchers in the field of materials, design, fabrication and construction • Product developer • Medical Field such as rehabilitation medicine and similar application • New industries that may not be profitable using conventional manufacturing
322	Research on Advanced Prototyping for Product Innovation and Development using Additive Manufacturing Technologies (RAPPID-ADMATEC)	Metals Industry Research and Development Center (MIRDC)	<ul style="list-style-type: none"> • Department of National Defense (DND) • Metals and Engineering Industry • Research and Development Institutes • Academe • Agriculture • Healthcare (Medical / Dental)
323	Development of a Philippine Indigenous Instrument Sounds Database	UP Diliman	<ul style="list-style-type: none"> • Philippine Music Industry • Indigenous people • Academe
324	Mobile Marine and Naval Centrum (MMNC)	Citizen's Support Your Navy Foundation Phils., Inc.	<ul style="list-style-type: none"> • Students in and out of schools from age 10 to 20 • Teachers at all levels • Leaders in the government • Private sectors
325	Evaluation and Characterization of Radionuclides and Rare Earth Elements (REEs) of the Philippine coal deposits and coal by-products	Philippine Nuclear Research Institute (PNRI)	<ul style="list-style-type: none"> • Government • Coal mining companies • Coal power plant operators • Academic institutions • Scientific community
326	Rapid Market Appraisal for Underutilized Fruits (Guava, Soursop, Sugar Apple, and Tamarind) in the Philippines	Philippine Council for Agriculture, Aquatic and Natural Resources Research and	<ul style="list-style-type: none"> • Farmers • Agro-entrepreneurs • Researchers • Traders • Private individuals • Policymakers

	Project Title	Implementing Agency	Beneficiaries
		Development (PCAARRD)	
327	Technology Innovations for Mathematical Reasoning, Statistical Thinking and Assessment	Ateneo De Manila University (ADMU)	<ul style="list-style-type: none"> • Teachers and students • School Administrators • Local Government Unit (LGU) (e.g. San Mateo LGU)
328	Optimization of Operational Parameters and Characterization of Tailings and Other Ore Bodies in Support to the Gold-Copper Pilot Plant in Compostela Valley	DOST Region XI	<ul style="list-style-type: none"> • Small-scale Mining (SSM) Industry • Small-scale Mining operators in Compostela Valley • Academic Institutions • SSM Mining Communities and associations in Compostela Valley
329	Novel Material as Anode and Cathode Electrode for Power Generator AI-Air Reactor	Polytechnic University of the Philippines (PUP)	<ul style="list-style-type: none"> • Local transport sector • Communities who often use public transportation • Electric Vehicle manufacturers
330	Exploratory Characterization of Scandium and Rare Earth Elements in Zambales, Palawan, and Surigao del Sur Nickeliferous Laterite Deposits	UP Diliman	<ul style="list-style-type: none"> • Government • Private Mining Companies • Academe
331	Creation of Smart Geophones for Cost-Efficient 2D Seismic Energy Exploration	Tekton Geometrix, Inc.	<ul style="list-style-type: none"> • Filipino oil/gas exploration companies with on-land exploration service contracts with DOE • Filipino companies engaged in coal exploration • Filipino companies engaged in geothermal exploration • PNOC and DOE, who are promoting the exploration of energy in the country • Residents of local communities where energy deposits are being explored • Filipino exploration companies
Higher Educational Institution Readiness for Innovation and Technopreneurship (HeIRIT)			
332	Higher Educational Institution Readiness for Innovation and Technopreneurship (HeIRIT) Development Program for Starting TBIs	UP Diliman	<ul style="list-style-type: none"> • Host TBI • TBI Managers
333	Establishment of DOST-Samar State University Technology Business Incubator	Samar State University (SSU)	Technology Business Incubators
334	Silliman Innovations for Energy TBI (Sinergy)	Silliman University	<ul style="list-style-type: none"> • Scientists, innovators, and founders • Aspiring entrepreneurs and start-ups • Business coaches and mentors investors and venture capitalists, and corporate accelerators • Silliman University
335	UMasenso: Establishment of University of Mindanao Technology Business Incubation Facility and Services for Environmental Solutions	University of Mindanao	<ul style="list-style-type: none"> • University of Mindanao (UM) faculty and students • Graduates/researchers • Start-up/ Spin-off SMEs • Professionals/workers

	Project Title	Implementing Agency	Beneficiaries
336	Establishment of the DOST-CITU TBI: Wildcat Innovation Labs	Cebu Institute of Technology - University	<ul style="list-style-type: none"> • Students • Faculty • Alumni • SMEs • Government Agencies • Industry Partners
337	Establishment of the DOST-TOMASInno Center TBI	University of Santo Tomas (UST)	<ul style="list-style-type: none"> • Student innovators • Faculty researchers • Alumni start-ups and investors • Industry partners • Government agencies • UST's partner communities
338	Image Mapping of Energy Conversion Efficiency and Other Parameters Across Solar Cell Active Areas using Photoexcitation and Photothermal Effects	UP Cebu	<ul style="list-style-type: none"> • Photonics / Materials Science researchers • Optics/Photonics/Semiconductors/Materials Industry
339	Innovation and Technopreneurship Hub (iTech)	Caraga State University (CarSU)	Technology Business Incubators
340	PCIEERD NSRI Research Grant	UP Diliman	National Science Research Institute's (NSRI's) grantees
341	Enhancement and Market Validation of Easybus (a Total Digital Booking Platform) for Buses	Easybus PH Inc	<ul style="list-style-type: none"> • Provincial Bus Operators • Riding Public • Transport Industry • Related government agencies such as LTFRB, DOT, BIR, etc.
342	Product Development and Commercialization of IQube Home Kit	Tactiles Corporation	<ul style="list-style-type: none"> • Primary and Secondary Schools • Kids 8 years old and up who are interested in STEM
343	Field and Market Testing of ILAWA: Renewable Power Generation Using Recycled Anodic Material for Small Fishing/Touring Vessels	Technological Institute of the Philippines (TIP)	<ul style="list-style-type: none"> • Small-scale fishers of Talim Island, rest of Laguna lakeshore and other coastal areas in the Philippines • Metropolitan solid-waste management authority
344	Production Process Optimization and Market Validation of Oyster Powder from Philippine Oyster (Crassostrea irredalei)	UP Visayas	<ul style="list-style-type: none"> • Food industry (involved in manufacturing ingredients/condiment) • Pharmaceutical and Nutraceutical industry
345	Fermentation and Purification Research to Produce Food Grade, Pharmaceutical-Grade, and Polymer Grade Lactic Acid	UP Mindanao	<ul style="list-style-type: none"> • Food processing industry • Pharmaceutical industry • Cosmetics industry • Medical industry • Biopolymer industry • Farmers and the starch producer
346	Universal Sensing Meter for Instruction & Laboratory Experiments (U-SMiLE)	West Visayas State University	<ul style="list-style-type: none"> • Biology, physics, chemistry and engineering teachers both in secondary and tertiary education • State Universities and Colleges (SUCs)
347	Prototype Development of Natural Fiber-Thermoplastic Composites from Agricultural and Industrial Wastes for Industrial Applications	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Agricultural/Crop sectors • Wood processing industry • Plastic industry • Solid waste management sectors • Housing and construction industry

	Project Title	Implementing Agency	Beneficiaries
			<ul style="list-style-type: none"> • Furniture fabricators
348	BayanSoC Phase1 & Phase2	Smartfox Data Solutions Inc.	<ul style="list-style-type: none"> • OEMs (Original Equipment Manufacturers) who wish to scale or improve their current products by upgrading to chip-enabled solutions • Software providers who wish to complement their platforms with a hardware device
349	Improvement of Food Security on Poultry Products by Upgrading Farm Yield and Efficiency Through the Introduction of Highly Tailored Farm-specific Improvements	Farmwatch Solutions, Inc.	Low performing conventional/ semi-conventional broiler farms
350	Fabrication and Performance Evaluation of Abaca Fiber-Reinforced Composites for Boat Application	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Composite fabricators • Boat manufacturing industry • Fishing sector • Marine tourism
<i>Natural Fibers as Nanostructured Scaffolds for Biomedical Applications</i>			
351	Project 1. Nanofibrous Scaffolds from Natural Biomaterials for Tissue Engineering	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Biomedical Industry • Philippine seaweed Industry • Inorganic natural mineral Industry
352	Project 2. Nanostructured Scaffolds from Natural Fibers as Platforms for Stem Cell Growth and Differentiation	UP Diliman	<ul style="list-style-type: none"> • Biomedical Industry • Philippine seaweed Industry • Inorganic natural mineral Industry
353	Radiation damage investigations on functional materials: Material development, analysis, and informatics	UP Diliman	<ul style="list-style-type: none"> • University of the Philippines Diliman (UPD) • University of the Philippines Los Baños (UPLB) • Mapua University (MU) • Philippine Nuclear Research Institute (PNRI) • Local and international space agencies • Local and international radiation-related and energy generation agencies and research institutes • Other semiconductor, optics, metal, or nuclear material companies
<i>Bamboo Musical Instruments Innovation Research and Development Program</i>			
354	Project 1. Documentation of Philippine Indigenous Bamboo Musical Instruments	Forest Products Research and Development Institute (FPRDI)	<ul style="list-style-type: none"> • Academe • Philippine IP groups • Bamboo musical instruments industry
355	Project 2. Development of Protective Processing Technology for Bamboo Musical Instruments	Forest Products Research and Development Institute (FPRDI)	<ul style="list-style-type: none"> • Local bamboo and bamboo musical instrument industry • Educational Institutions • General Public
356	Project 3. Processing Facility for Bamboo musical Instruments and Other Lignocellulosic Materials	Forest Products Research and Development Institute (FPRDI)	<ul style="list-style-type: none"> • Musicians • Students • Musical instrument producers • Music teachers • Cultural performers • Tourists

	Project Title	Implementing Agency	Beneficiaries
357	Project 4. Development of Prototype Design and Standardization of Instrument Making Process for Nontraditional Bamboo Instruments using Select Philippine Bamboo Species	UP Diliman	<ul style="list-style-type: none"> • Bamboo-instrument industry • Bamboo wood farmers • K-12 music education
358	Mindanao Renewable Energy R&D Center (MREC)	Ateneo De Davao University (ADDU)	Matigsalog tribe in Marilog District, Davao City
359	Support for Philippine Startup Challenge (PSC) Winner	Department of Information and Communications Technology (DICT)	Philippine Startup Challenge (PSC) winners
360	Prototype Development of the Deepwater Operation 3D Visual Mapping and Inspection System (PD-DOMAINS)	Antipara Exploration Inc.	<ul style="list-style-type: none"> • Provincial Planning and Development Office - Occidental Mindoro • Provincial Environment and Natural Resource Office - Occidental Mindoro • Protected Area Superintendent and Park Rangers of the selected Marine Protected Sites. • Occidental Mindoro Tourism Office
361	Enhancement and Market Validation of Plasma Enhanced Chemical Vapor Deposition Industrial Prototype for Nitride-Based Coatings	UP Diliman	<ul style="list-style-type: none"> • Cypress Manufacturing Ltd. • Dr. Juanito Navarro, MD. (Ophthalmologist) • Analog Devices • On Semiconductor • Allegro Microsystems Philippines, Inc.
362	Fundamental study of the physical properties of metal-oxide single nanowires and nanoparticles for bio-nano-sensing	De La Salle University (DLSU)	<ul style="list-style-type: none"> • Academe • Researchers
363	Establishment of Advanced Mechatronics, Robotics, and Industrial Automation Laboratory (AMERIAL) in Support of the Metals and Engineering Industry	Metals Industry Research and Development Center (MIRDC)	<ul style="list-style-type: none"> • Academe • Automotive Industry • Agricultural Industry • Metals and Engineering Industry • Semiconductor Industry
<i>Support to the Sustainable Environmental Management in Malay, Aklan</i>			
364	Field Testing of Modular Eco-Friendly Domestic Wastewater (MEDoWW) Management for ATI Community: Boracay Island, Malay, Aklan	Adamson University (AdU)	Boracay Island
365	Development of a Compact Wastewater Treatment System for Restaurants in Boracay Island	Industrial Technology Development Institute (ITDI)	<ul style="list-style-type: none"> • Restaurants located in Boracay that are generating high organic wastewater • General Public
366	Promoting Innovative Philippine Nuclear Science and Technology Applications at the International Atomic Energy Agency (IAEA) General Conference Exhibition and IAEA General Conference Side Events/ Symposiums	Philippine Nuclear Research Institute (PNRI)	Philippine Nuclear Research Institute (PNRI) researchers
367	Project BUHAWI (Automated Gun Mount for Browning 0.50 Caliber Machine Gun, M2, Heavy Barrel)	Metals Industry Research and Development Center (MIRDC)	<ul style="list-style-type: none"> • Philippine Navy • Armed Forces of the Philippines
368	Strengthening of Industry Strategic Science and Technology Plan (ISP)	Philippine Council for Agriculture, Aquatic and Natural	<ul style="list-style-type: none"> • ISP Managers • Researchers • Students

	Project Title	Implementing Agency	Beneficiaries
	Information System for Improved R&D Management	Resources Research and Development (PCAARRD)	<ul style="list-style-type: none"> • Policy makers • Government officials • General public
369	Strengthening the DOST ICT Services	Department of Science and Technology - Information Technology Division	DOST Central Office and Bicutan agencies
370	Pilot Implementation Phase of the R&D Leadership (RDLead) Program	National Research Council of the Philippines (NRCP)	Researchers
371	Kapok fibers absorbent with customizable hydrophobicity/hydrophilicity for oily water and wastewater treatment	UP Los Baños	<ul style="list-style-type: none"> • Academe • Researchers
<i>Strengthening the Competitiveness of Priority Philippine Industries Through the Small Enterprise Technology Upgrading Program 2.0 (SETUP 2.0)</i>			
372	Project 1. Technology Scanning and SETUP Roadmapping for Priority Industries/Sectors	DOST Region NCR	<ul style="list-style-type: none"> • MSMEs that belong to the SETUP priority industry clusters • Research and development and higher academic institutions
373	Project 2. Strengthening of Technology Needs Assessment (TNA) for MSMEs	DOST Region I	<p>MSMEs that belong to the selected priority sectors:</p> <ul style="list-style-type: none"> • horticulture/agriculture • aquaculture and marine • food processing • metals and engineering • gifts and holiday decors • fashion accessories • natural fibers and dyes • handicrafts and furniture
374	Project 3. Upgrading of Consultancy and Technical Services for MSMEs	DOST Region VI	<p>MSMEs that belong to the following DOST priority sectors:</p> <ul style="list-style-type: none"> • Food Processing • Furniture • Gifts, Decors, and Handicrafts • Agriculture/Forestry/ Livestock • Marine and Aquaculture • Metals and Engineering • Information and Communications Technology • Health and Wellness • Halal Products and Services • Energy and Environment • Creative Industry
375	Assessment of the Market Potential of Mussel in Polillo, Quezon	Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD)	<ul style="list-style-type: none"> • Farmers • Fisherfolk • Policy makers • Agro-entrepreneurs • Researchers • Traders • Private individuals

	Project Title	Implementing Agency	Beneficiaries
	<i>Integrated Mapping, Modelling and Management System for Manila Bay and Linked Systems (IM4ManilaBay)</i>		
376	Project 1. Integrated Waste Analysis, Survey and Technological Options (IWASTO)	UP Diliman	<ul style="list-style-type: none"> • Local Government Units • DENR
377	Project 2. Development of Integrated Mapping, Monitoring and Analytical Network System for Manila Bay and Linked Environments (MapABLE)	UP Diliman	General public
378	Support to the Issuance of Fairness Opinion Report for Technology Transfer Activities of the DOST-Generated Technologies through the DOST Regional Offices (ROs) as Receiving Offices and FOB Secretariat	DOST Region NCR	DOST Regional Offices
379	Development of a System that Can Determine and Classify the Layout Correctness of Integrated Circuit Layout Blocks using Machine Learning	University of Perpetual Help System - Dalta	<ul style="list-style-type: none"> • CAMP, Inc. • Engineers • Students
380	Design of Highly Active Kapok Fiber Electrodes for Energy Applications	UP Diliman	<ul style="list-style-type: none"> • Local energy industry • Local hybrid/electric car industry • Local electronic industry • Academe, particularly undergraduate and graduate students in the field of Materials • Engineering, Energy Engineering, and other related fields