



PRIORITY PROGRAM ACCOUNTABILITY REPORT CARD (P^PARC)

Department of Science and Technology	PRIORITY PROGRAMS	PROGRAM/ PROJECT BUDGET (FY 2014) <i>in Million PhP</i>	OVERALL RESULTS ASSESSMENT				
			SERVICE/ PRODUCT RESULTS				
			FY 2014 ACTUAL ACCOMPLISHMENTS	FY 2015 TARGETS/ MILESTONES	FY 2015 ACTUAL ACCOMPLISHMENTS	RATING	
<p>DOST provides central direction, leadership, and coordination of scientific and technological efforts and ensures that the results there from all geared and utilized in areas of maximum economic and social benefits for the people.</p>	<p>Emergency Distribution of Hydrometeorological Devices in Hard-Hit Areas in the Philippines (HYDROMET)</p>		<p>Completed the installation of the initial targeted 1,000 units (ARG and WLMS)</p> <p>Deployed all 212 additional devices to the DOST-Ross</p> <p>Installed 81 ARG and 10 WLMS out of the 212 additional devices</p>	<p>Complete installation of the additional 212 devices through the Deployment of Early Warning Systems (DEWS) project</p>	<p>Installed 156 ARG out of 174 targeted (89.7%) and 29 WLMS out of the targeted (76.3%) from additional 212 devices.</p> <p>The installation of the remaining devices from the additional 212 devices are being done under DEWS project</p>	<p>83%</p>	
			<p>Project 1: LIDAR and SAR Data Acquisition</p> <p>Acquired LIDAR data for the following: Albay, Sorsogon, Masbate, Iloilo, Antique, Negros Occidental/Hilabangan, Leyte/Samar, Dinagat and Siargao Islands, General Santos, Leyte-Southern Leyte, Samar, Northern Samar</p>	<p>LIDAR data acquisition for 18 floodplains and 4+ rivers (Infanta, Lucena, Boracay, Bohol)</p> <p>Cover additional rivers</p>	<p>LIDAR data acquired for 18 of 18 floodplains and 4+ rivers (Infanta, Lucena, Boracay, Bohol)</p> <p>SAR data acquired for all 18 watersheds</p> <p>Covered additional rivers</p>	<p>100%</p>	
			<p>Project 2: LIDAR and SAR Data Calibration and Validation</p> <p>Digital Elevation Model (DEM)</p> <p>Completed final reports for CDO, Mandulog, Iponan and Agno Rivers</p> <p>Draft reports prepared for 13 other rivers</p>	<p>Ground validation of 18 major rivers and 6+ sites</p> <p>Cross-section and profile of 18 sites</p> <p>Train 14 HEIs</p> <p>Cross-section and bathymetry of additional rivers</p>	<p>Completed ground validation of 18 major rivers and 6+ sites</p> <p>Completed cross-sectioning and profiling of 18 sites</p> <p>Completed the training for the 14 HEIs</p> <p>Cross-sectioning and bathymetry of additional rivers</p>	<p>95%</p>	
		<p>Nationwide DREAM Program (3D LiDAR Mapping)</p>		<p>Project 3: Digital Elevation Models and Salient Features for Flooding Modeling</p> <p>Initial processing of areas in addition to the 18 major river basin covering 29, 420 sq. km.</p>	<p>DEM and Orthophotos for 18 rivers and 4+ sites</p> <p>Feature extraction of 18 floodplains</p> <p>Attribution of 18 sites</p> <p>Pre-process LiDAR data</p>	<p>DEM and Orthophotos completed for 18 rivers and 4+ sites</p> <p>Completed feature extraction of 18 floodplains</p> <p>Completed attribution of 11 out of 18. The remaining 7 being outsourced</p> <p>Pre-processing of newly acquired LiDAR data of additional rivers</p>	<p>92%</p>
				<p>Project 4: Integrating High Resolution Digital Elevation Models (DEMs) into GIS-based Flood Modelling</p> <p>Flood Models: HEC-RAS= 13 (28/22 completed) HEC-HMS= 9 (28/28 completed) 2D= 10 (28/21 completed)</p> <p>20-30 meter resolution flood maps produced and distributed</p> <p>Calibration= 22/28</p>	<p>Completed real time channel inundation models</p> <p>Completed real time channel inundation models</p> <p>Discharge model for flood forecasting</p>	<p>Completed real time channel inundation models</p> <p>Calibrated flood models for 18 major river basins and 4 additional rivers</p> <p>Produced and automated 2D flood hazard maps of 18 +4 major river basins</p> <p>3D maps can be produced using a software for visualization</p> <p>53 forecast points with sensors distributed within the 18 major river basins and 4 additional basin</p>	<p>90%</p>



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			Conducted training and seminar/workshop on DREAM LIDAR Data applications and procedures	Continuous training on LIDAR data applications	Training of 15 HEIs, LGUs, DOST Attached agencies, NGAs and Private Sector	100%
			Finalized 4 DREAM Training manuals which is for copyright application	Maintenance and updating of DREAM website	DREAM website updated and maintained	
	Enhancing Philippine Landslide Hazard Maps with LIDAR and High Resolution Imageries		36 landslide areas have been field inventoried			100%
			36 high resolution shallow landslide maps were field validated			
		33 high resolution alluvial fan maps were field validated	Complete the inventory, simulation and validation of 36 priority provinces	Completed inventory, simulation and validation of 36 priority provinces		
		31 out of 33 high resolution debris flow maps were field validated	Continuously monitor landslide susceptible areas	Continuous monitoring of landslide susceptible areas		
		36 high resolution structurally controlled landslide maps were field validated				
Dynaslope & Senslope (Phase 2)		Dynaslope: 4 out of 6 seminar-trainings conducted	Dynaslope: Identify 22 sites for landslide sensor	Dynaslope: 22 sites identified for landslide installation	91%	
		Provided weekly monitoring updates to communities and LGUs at the sites	Borehole drilling for installation of sensors in 38 sites	24 of 38 sites drilled in preparation for landslide sensor installation		
		Conducted event-based monitoring work and alert release for sites in Benguet and Iloilo	Conduct 30 seminar training for communities and LGUs in deployment sites	30 seminar training conducted to community monitors		
			Organize 30 local landslide monitoring communities organized	30 LLMCs organized		
		Senslope: First batch of sensors already delivered	Senslope: Refine power circuits, sensors and packaging	Senslope: Refine power circuits, sensors and packaging	89%	
		Design and specifications done and ready for bidding. Bid does for the second batch on preparation	Manufacture landslide sensor system, data loggers and piezometer	Manufacture landslide sensor system, data loggers and piezometer readout board for 25 sites delivered		
			Installed 38 sensors onsite	Installed landslide sensors for 25 out of 38 sensors onsite		
System to Identify, Quantify and Map the Storm Surge Threat to Philippine Coasts		Upgrading and updating of existing storm surge models resulted to automation of storm surge simulation using Japan Meteorological Agency (JMA)	Field validation of 42 provinces	Field validation of 42 provinces	100%	
		63 out of 67 provinces were storm surge mapped	Storm surge inundation maps of all coastal provinces in the Philippines	Produced storm surge inundation maps of all coastal provinces in the Philippines		



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<p>DOST provides central direction, leadership, and coordination of scientific and technological efforts and ensures that the results there from all geared and utilized in areas of maximum economic and social benefits for the people.</p>	<p>Weather Information-Integration for System Enhancement (NOAH-WISE)</p>		<p>240% increase in spatial coverage for early detection of typhoons</p> <p>28% increase in temporal range (from 5 days to 7 days)</p> <p>The output of NOAH WISE (7 day forecast is integrated in the NOAH website for the use of general public)</p> <p>Increase in the number of Automatic Weather Station that can be used for Data Assimilation and Forecast Validation at a real time (form 200 in May 2013 or 1,100 in November 2014)</p> <p>Using 75% of the BlueGene/P. WISE is able to generate 7-day forecast at 4-km resolution 4 times a day</p>	<p>7 day forecast of 4-km spatial resolution covering the Philippine Area of Responsibility (PAR)</p> <p>Public access to text outputs, images and weather animations especially for researchers, NOAH components and PAGASA</p>	<p>7 day forecast at 4km spatial resolution covering the Philippine Area of Responsibility (PAR) typhoon track and intensity</p> <p>The text outputs, images and weather animations are distributed through a public domain for consumption of researches, NOAH components and PAGASA</p>	<p>100%</p>
	<p>Disaster Management using Web-GIS</p>		<p>Finalization of NOAH 2.0 website</p> <p>Launches the MOSES tablet at the PICC on June 30, 2014</p> <p>Developed the tables in Marikina to test the usability and integrity of the units</p>	<p>Additional features for NOAH 2.0 website</p> <p>Launch and deploy 50 MOSES tablets</p>	<p>NOAH 2.0 website additional features are toggle draw and distance and area measurement</p> <p>Addition of WebSAFE impact assessment tool which calculates the minimum needs of a particular municipality in the event of a particular hazard</p>	<p>100%</p>