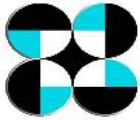


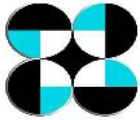
PRIORITY PROGRAM ACCOUNTABILITY REPORT CARD (P²ARC)

Department of Science and Technology	PRIORITY PROGRAMS	PROGRAM/ PROJECT BUDGET (FY 2014) Million PhP	OVERALL RESULTS ASSESSMENT				
			SERVICE/ PRODUCT RESULTS				
			FY 2013 ACTUAL ACCOMPLISHMENTS	FY 2014 TARGETS/ MILESTONES	FY 2014 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>	Emergency Distribution of Hydrometeorological Devices in Hard-Hit Areas in the Philippines (HYDROMET)		<p>The DOST Regional Offices in cooperation with PAGASA have completed the approval of the final sites of deployment.</p> <p>Installed security fence and pedestals</p>	<p>Install the remaining 214 devices out of the initial targeted 1,000 units (ARGS and WLMS)</p> <p>Deploy and install 212 additional devices (178 units of ARG and 34 units of WLMS)</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-Ros</p> <p>Installed 81 ARG and 10 WLMS out of the 212 additional devices</p>	90%	
	<p>Nationwide DREAM Program (3D LIDAR Mapping) Duration: December 20, 2011 - December 19, 2013</p>	Project 1: LIDAR and SAR Data Acquisition					
		<p>Acquired LIDAR point cloud data of 18 major river floodplains</p> <p>Recovered of NAMRIA benchmarks and ground control points</p> <p>Acquired 1 point per square meter or SAR data in 21 watershed areas</p>	<p>Acquire LIDAR point cloud data of the two (2) remaining sites: Cagayan and Mindanao River Systems</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>	100%		
		Project 2: LIDAR and SAR Data Calibration and Validation					
		<p>Completed River profile (cross-section, hydrometry, bathymetry, profile)</p> <p>Recovered 18 NAMRIA Benchmarks and ground Control Points</p>	<p>Ground validation survey of the remaining two (2) sites: Cagayan and Mindanao River Systems</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>	100%		
		Project 3: Digital Elevation Models and Salient Features for Flooding Modeling					
		<p>Produced Digital Elevation Models (DTM/DSM) for the 18 flood plains and extracted features</p>	<p>Digital Elevation Models (DTM/DSM) of the 21 river systems</p>	<p>Initial processing of areas in addition to the 18 major river basin covering 29, 420 sq. km.</p>	100%		
		Project 4: Integrating High Resolution Digital Elevation Models (DEMs) into GIS-based Flood Modelling					
		<p>Development of the models (Hydraulic Modeling System (HMS). River Analysis System (RAS). FLO 2D and floor hazard maps</p> <p>Calibration of models</p> <p>Validation of models</p> <p>Writing documentation</p> <p>Verification of outsourced work</p> <p>Procurement of tools necessary for the work</p>	<p>Complete the flood simulation models</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>	100%		
		Project 5: Training for LIDAR Acquisition and Flood Modeling					
<p>DREAM Report to Stakeholders and Handover of Data to LGUs, academe, researchers, 4th QTR</p> <p>Preparation of manuals</p>		<p>Conduct training and seminar/workshop on DREAM LIDAR procedures and applications</p>	<p>Conducted training and seminar/workshop on DREAM LIDAR Data applications and procedures</p> <p>Finalized 4 DREAM Training manuals which is for copyright application</p>	100%			



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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>Strategic Information and Communication Duration: June 15, 2012 - June 14, 2014</p>		<p>Information, Education and Communication</p> <p>Metro Manila Disaster Summit, 23 July 2012</p> <p>NOAH Booth display during the 2013 NSTW, 23-27 July 2013</p> <p>Prepared updated NOAH accomplishments as per direct instructions from the OP Presidential Management Staff, 22 July 2013</p>	<p>Conduct of IECs</p> <p>Redesign NOAH brochure translated to Tagalog and Visayan</p>	<p>Conducted IECs to different Government and private agencies</p> <p>Conducted Seminar/workshop on Responsible Weather Reporting</p> <p>NOAH Brochure in English, Cebuano and Filipino</p>	100%	
				<p>RED Book (Reference for Emergency Disaster; 5,000 copies)</p>	<p>2,000 copies of RED Book produced</p>	40%	
	<p>Enhancing Philippine Landslide Hazard Maps with LIDAR and High Resolution Imageries Duration: May 16, 2013 - May 15, 2014</p>		<p>Review literature on: -Landslide inventory mapping -Alluvial fan mapping -Debris flow mapping -Shallow landslide mapping -Deep-seated landslide mapping</p>	<p>Produce high resolution landslide hazard maps for 36 priority sites</p>	<p>36 landslide areas have been field inventoried</p> <p>36 high resolution shallow landslide maps were field validated</p> <p>33 high resolution alluvial fan maps were field validated</p> <p>31 out of 33 high resolution debris flow maps were field validated</p> <p>36 high resolution structurally controlled landslide maps were field validated</p>	99%	
		<p>Dynaslope & Senslope (Phase 2) Duration: June 1, 2013 - May 31, 2015</p>		<p>Developed calibration procedure for accelerometers and soil moisture sensors</p> <p>Completing the Design of the Readout Device with Telemetry</p> <p>Prepared documents for bidding of manufacturing</p> <p>Engaging of manufacturers to join the bidding process</p> <p>Data management and storage done at Local Servers located on the lab</p>	<p>Dynaslope: Seminar-trainings for the new sites</p> <p>Protocol implementation for 11 existing sites</p>	<p>Dynaslope: 4 out of 6 seminar-trainings conducted</p> <p>Provided weekly monitoring updates to communities and LGUs at the sites</p> <p>Conducted event-based monitoring work and alert release for sites in Benguet and Iloilo</p> <p>Senslope: Design and specifications done and ready for bidding. Bid does for the second batch on preparation</p>	90%
				<p>Data from system now accessible publicly in the internet through initial free web hosting service</p> <p>Continuous monitoring and updates on Health and data of the previously deployed systems</p> <p>Continuous communication with the local Landslide monitoring Committee</p> <p>49 out of 30 sites visited and inspected</p>	<p>Senslope: Manufacturing of landslide sensor system for 29 out of 40 sites</p> <p>Senslope: Manufacturing of landslide sensor system for 29 out of 40 sites</p>	<p>First batch of sensors already delivered</p> <p>Deployed two sensors in two sites out of the 29 sites under Phase 2</p> <p>First batch of sensors already delivered</p> <p>Deployed two sensors in two sites out of the 29 sites under Phase 2</p>	86%



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	System to Identify, Quantify and Map the Storm Surge Threat to Philippine Coasts Duration September 1, 2013 - August 31, 2014		Technical writing Introduction and basic Latex skills Creating good presentations Literature review - Storm surge - Storm surge in the Philippines - Conceptual Framework - Parameters for storm surge modeling - Storm surge models - Storms and coastal change -Parameter of storm surge and inundation modeling -Tide -Storm surge timeline -Tested for applicability -Preparation of field work plan -26 priority sites identified -98 typhoons simulated in Metro Manila using JMA Storm Surge Model	Upgrade and Update of three existing storm surge models Initiate creation of maximum inundation maps using flood modeling software for different types of cyclones in 17 regions	Upgrading and updating of existing storm surge models resulted to automation of storm surge simulation using Japan Meteorological Agency (JMA) 63 out of 67 provinces were storm surge mapped	99%
	Weather Information-Integration for System Enhancement (NOAH-WISE) Duration: March 1, 2013 - February 28, 2015		Downloaded 7-day global forecast at 0.5 degree (55 km) resolution: Has working script for downloading MODIS data Run WRF model using PAGASA configuration More sensitivity runs are being done (Aug 8-16, 10-18, 2013; Nov 1-11, 2013 at 6 different configurations	7 day forecast of 4-km spatial resolution covering the Philippine Area of Responsibility (PAR)	240% increase in spatial coverage for early detection of typhoons 28% increase in temporal range (from 5 days to 7 days) The output of NOAH WISE (7 day forecast is integrated in the NOAH website for the use of general public) 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) Using 75% of the BlueGene/P. WISE is able to generate 7-day forecast at 4-km resolution 4 times a	97%
	Disaster Management using Web-GIS Duration: May 16, 2013 - May 15, 2014		Started the pre-procurement process for the Mobile Operational Services for System Enhancement (MOSES) tablet kit Finalization of the Database Design for the New Version of the NOAH Website Created initial mockup for NOAH website version 2	Operational/Functional and accessible NOAH Website v2.0 Launch and deploy 50 MOSES tablets	Finalization of NOAH 2.0 website Launched 35 MOSES tablet Deployed the tables in Marikina to test the usability and integrity of the units	70%