

Science Chief leads launch of ITDI's 3D CT X-Ray



BICUTAN, TAGUIG. DOST Secretary Fortunato T. de la Peña, R&D Undersecretary Rowena Cristina L. Guevara, S&T Services Undersecretary Carol M. Yorobe, and ITDI Director Annabelle V. Briones, formally introduced to the public ADMATEL-ITDI's newest tool for advanced high-resolution imaging, the 3D Computed Tomography (CT) X-Ray on April 2, 2019.

Launched at the Philippines' premier facility for failure analysis and materials characterization, the event themed *"Expansion, Expertise, Excellence, ADMATEL towards Long Term Competitiveness and Sustainability"* showed the extensive features of the X-Ray machine to some 160 DOST officials, industry representatives, and media guests.

With its newest acquisition, ADMATEL, or Advanced Device and Materials Testing Laboratory, will be able to provide industry with greatly expanded services coupled with

freshly strengthened expertise of staff. Thus, increasing its capability to provide quality service with a faster turnaround time.

A nondestructive scanning technology, using the PHP42 million 3D CT X-Ray equipment will allow ADMATEL to view and inspect external and internal structures of an object in three-dimensional space. This is so because computed tomography works by taking hundreds or thousands of two-dimensional, digital radiography projections around a 360-degree rotation of an object.

Algorithms will then be used to reconstruct the two-dimensional projections into a three-dimensional CT volume. As such, parts of a sample may be viewed in slices at different angles.

(MVAtienza\ TSD)

