



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY-X
J.V. Serina Street, Carmen, Cagayan de Oro City

DOST – X PROGRAMS & SERVICES



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Outline:

Introduction > DOST Mandate, KRAs/Major Programs

A. Technology Transfer Programs

B.1 Small Ent. Tech. Upgrading Program (SETUP)

B.2 Local Grants In-aid (LGIA)

B. High Impact Tech. Solutions (HITS) Projects

(CEST, FIC, ComFood Production, DEWS, NDVS, RxBox, Ehatid)

C. Laboratory Services –Testing & Calibration

D. Consultancy Services

E. Packaging & Labeling Services

F. Training Services

G. Other Programs & Services

(STARBOOKS, S&T Scholarship, S&T Promotion, OneLab, OneStore, OneExpert)

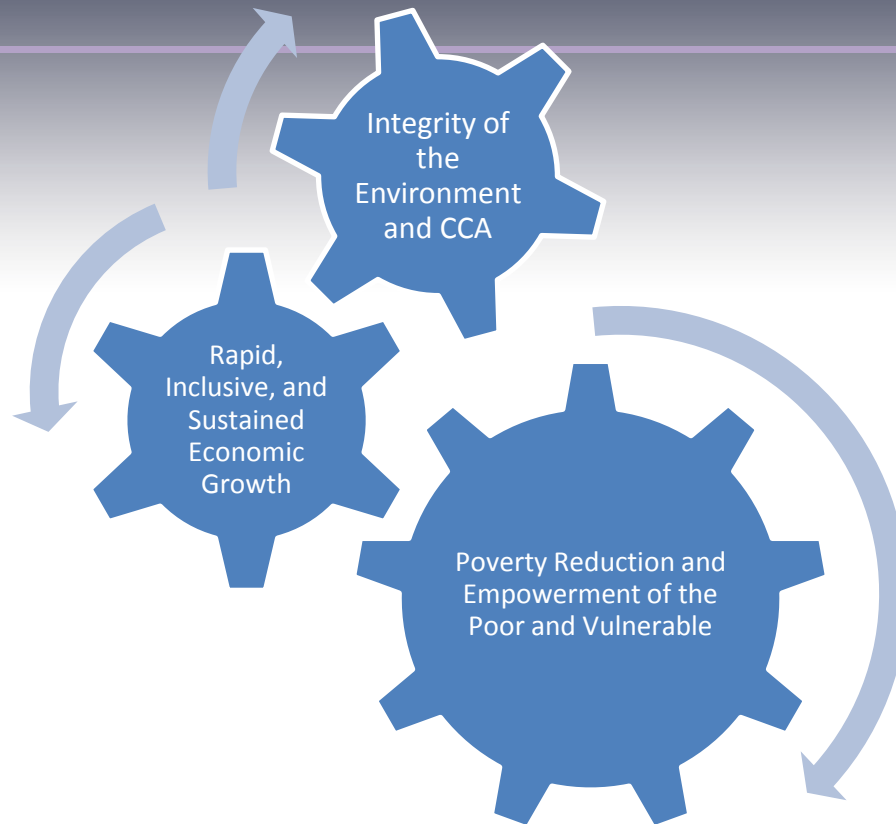


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KRA/Major Programs

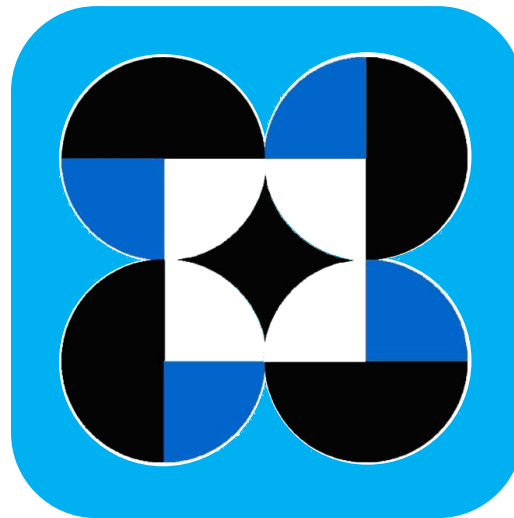


MANDATE

Executive Order No. 128 mandates the DOST to provide central direction, leadership and coordination of scientific and technological efforts and ensure that the results therefrom are geared and utilized in areas of maximum economic and social benefits for the people.



A. TECHNOLOGY TRANSFER PROGRAMS - SETUP



A.1 TECHNOLOGY TRANSFER PROGRAMS



tionwide strategy to encourage and assist
MEs to adopt technological innovations to
ance their productivity and competitiveness

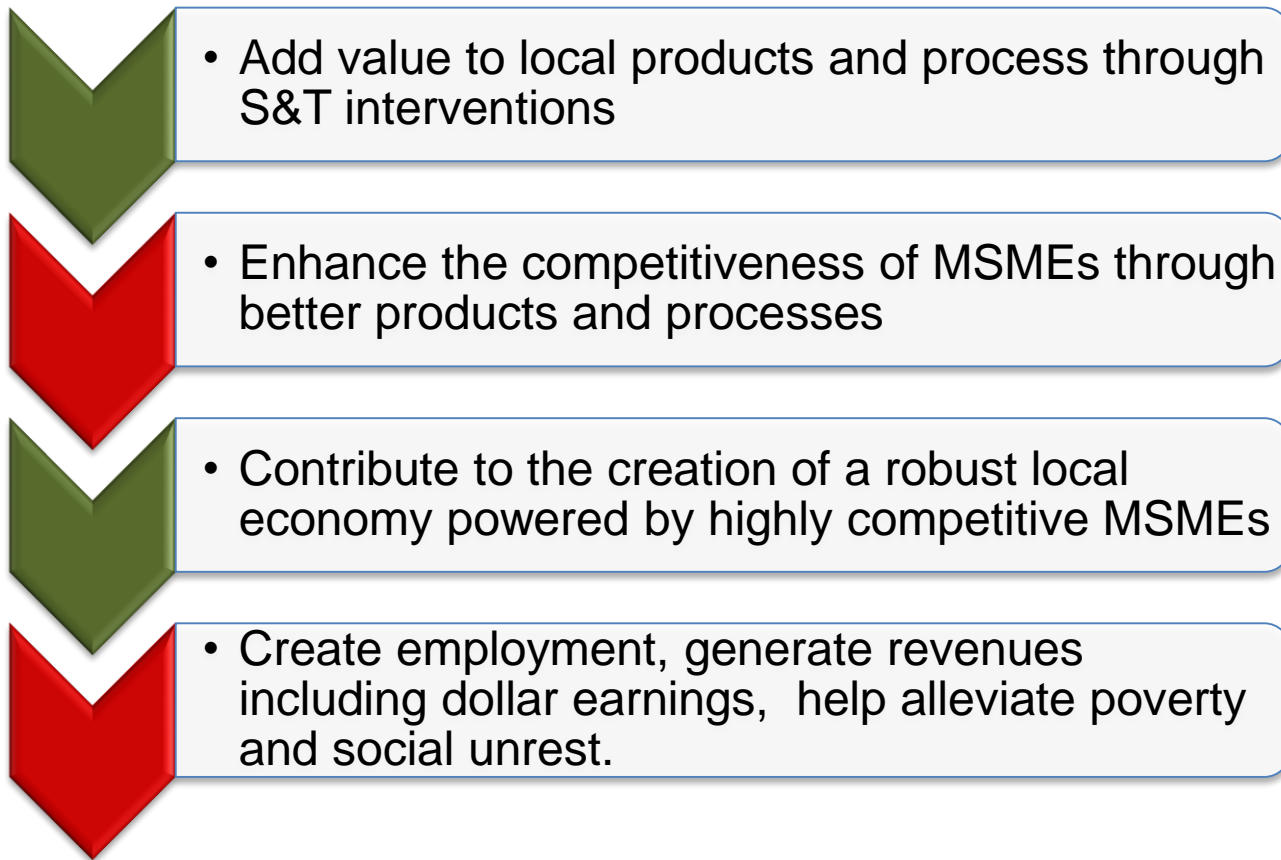
ports already operating MSMEs by providing:
Seed fund for technology acquisition
Leased equipment-refund mechanism
Technical trainings and consultancy services
Packaging and label designs
Database information system
Testing and calibration





1. Address current problems
2. Get free technical advice from the consultants
3. Avail of technical advice from the consultants
4. Acquire new equipment to mechanize and/or improve production line through venture funds
5. Standardize and improve the quality of products
6. Be competitive







S & T innovations for MSMEs

Priority Sectors



1. Metals and Engineering



2. Furniture





3. Food Processing



4. Natural Fibers, Gift Decors and Housewares, and Fashion Accessories



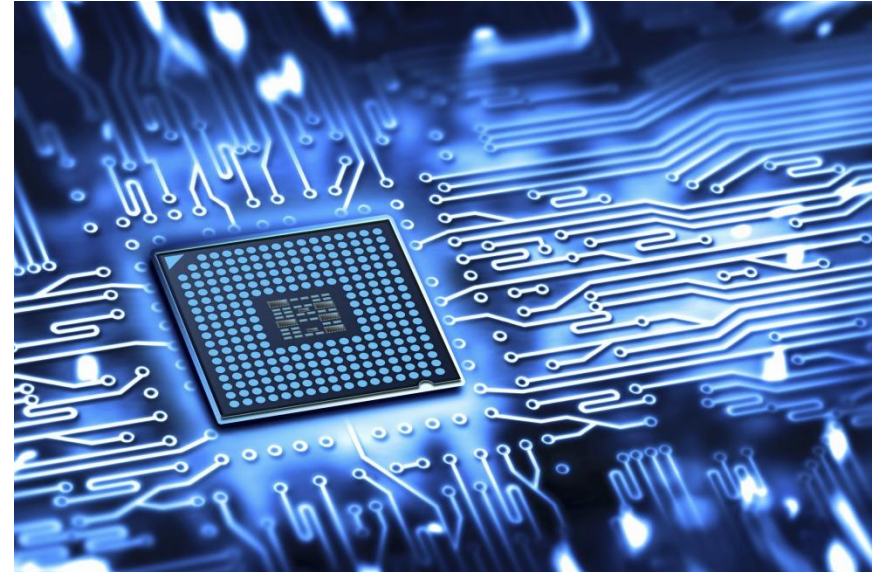
5. Health & Wellness Products



6. Agriculture/Marine/Aquaculture/Forestry/Livestock



7. Halal Products & Services



8. Equipment/ ICT

**9. Other Regional
Industry Priorities**

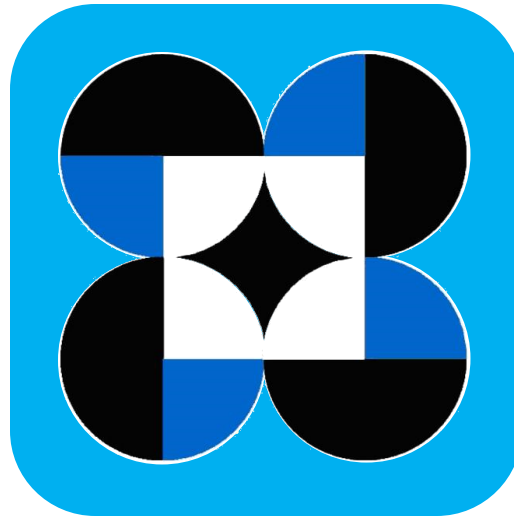
Local Grants In-Aid (LGIA)

Objectives:

1. Provide funding for relevant S&T undertakings for improved productivity and quality of life by generating and promoting appropriate technologies
2. Assist start up firms/ community based projects



B. HITS PROJECTS



High Impact Technology Solutions (HITS) Projects



1. COMMUNITY EMPOWERMENT THROUGH SCIENCE & TECHNOLOGY (CEST)

This program targets to empower the poorest and most depressed communities in the country, via S&T interventions in health and nutrition, water and sanitation, basic education and literacy, livelihood/economic enterprise development, and disaster risk reduction and climate change adaptation.



2. Food Innovation Center (FIC) DOST- Developed Technologies

Program: High Impact Technology Solutions



A hub of innovation and technical support services for the processed food industry, the FIC features a processing and packaging equipment, research and testing laboratory and technology information system. The facility also provides training, consultancy, packaging and labeling services.



DOST- Developed Technologies

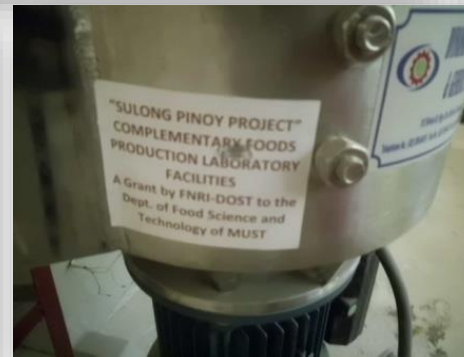
FIC and complementary food equipment at USTSP



3. Complementary Food Production

DOST- Developed Technologies

The complementary food production is a technology developed by FNRI-DOST which intends to reduce the occurrence of underweight in 6 to 36 months old infant and children through feeding with instant food blend and snack foods. The package is complemented with nutrition education among mothers and caregivers.



4. Deployment of Early Warning Systems (DEWS)

DOST- Developed Technologies

High Impact Technology Solutions



To increase people's preparedness and prevent the loss of lives, DOST's Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) and the Advanced Science and Technology Institute (ASTI) have developed hydrometeorological devices under Projects Hydromet and DEWS (Deployment of Early warning Systems in Disaster-Prone Areas).

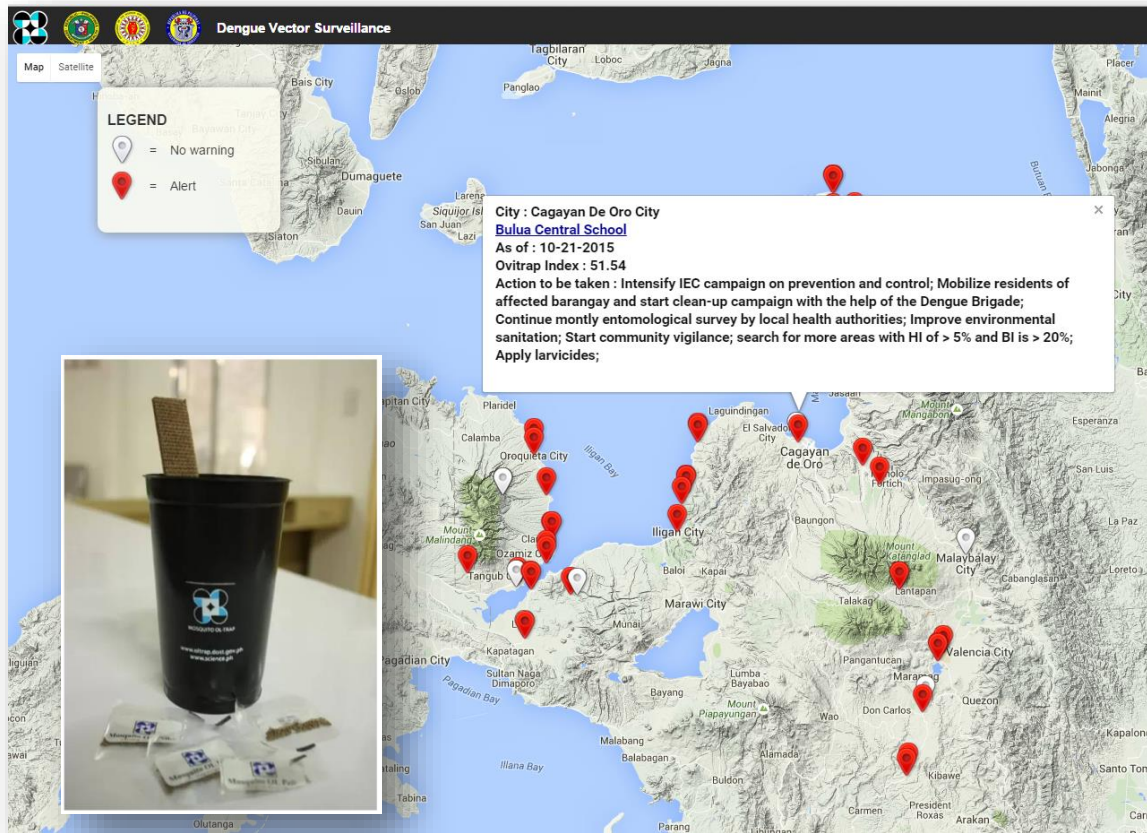
These Hydromet devices, which include Automated Rain Gauges (ARG) and Water Level Monitoring Stations (WLMS), enhance the forecasting accuracy of PAGASA and help LGU Disaster Management teams in addressing emergency situations through data collected from the devices.



5. Nationwide Dengue Vector Surveillance Program (NDVS)

DOST- Developed Technologies

High Impact Technology Solutions



The OL trap which is developed by the Industrial Technology Development Institute (ITDI) of DOST, is a simple device made of ordinary plastic tumbler, black color, and a strip of lawanit board measuring 1 X 6.5 X ½ inches. The black color tumbler and moist lawanit become an attractive nest for the mosquitoes. The all-natural mosquito attractant solution is 85% effective in killing the eggs and larvae of the mosquitoes within seven (7) days duration.

DepEd coordinators send weekly OL surveillance data via SMS to the **Nationwide Dengue Vector Surveillance (NDVS)** website at <http://oltrap.pchrd.dost.gov.ph>.



6. RxBox

DOST- Developed Technologies

High Impact Technology Solutions

- ✓ A multi-component device designed to provide life-saving healthcare equipment and services to geographically isolated and disadvantaged communities nationwide.
- ✓ Allows faster diagnosis and treatment of health conditions through the different medical sensors it comprises such as **blood pressure monitor, pulse oximeter, electrocardiogram (ECG), fetal health monitor, maternal tocometer, and temperature sensor.**



D. TECHNOLOGY CONSULTANCY SERVICES



Food Safety



Manufacturing Productivity Extension Program (MPEX)



Energy Audit



Cleaner Production Assessment



TECHNOLOGY CONSULTANCY SERVICES



Involves the deployment of food safety experts to food processors to improve compliance to requirements of Good Manufacturing Practices, Standard Sanitation Operating Procedures, Hazard Analysis and Critical Control Points, Food Safety Management Systems (ISO 22000) and other Food Standards.



TECHNOLOGY CONSULTANCY SERVICES



- ✓ Provide productivity consultants to MSMEs
- ✓ Increase productivity by 20 to 30%
- ✓ Areas of concern would be:
 - ✓ Plant lay-out, time and motion studies, waste management, production planning, administrative and financial management



TECHNOLOGY CONSULTANCY SERVICES



Energy Audit

Critical assessment of an energy consuming facility by examining ways energy is currently used and identifying strategies and alternatives for improved energy efficiency performance and management



TESTING AND CALIBRATION SERVICES

- Provides laboratory testing assistance to MSMEs specifically for quality assurance, product development and compliance to market standards.
- Offers chemical, microbiological, and accelerated shelf-life testing to food products. Also mass and volume calibration and formula of conversion.
- The Regional Standards and Testing Laboratories is a ISO/IEC 17025 certified laboratory



TECHNOLOGY CONSULTANCY SERVICES

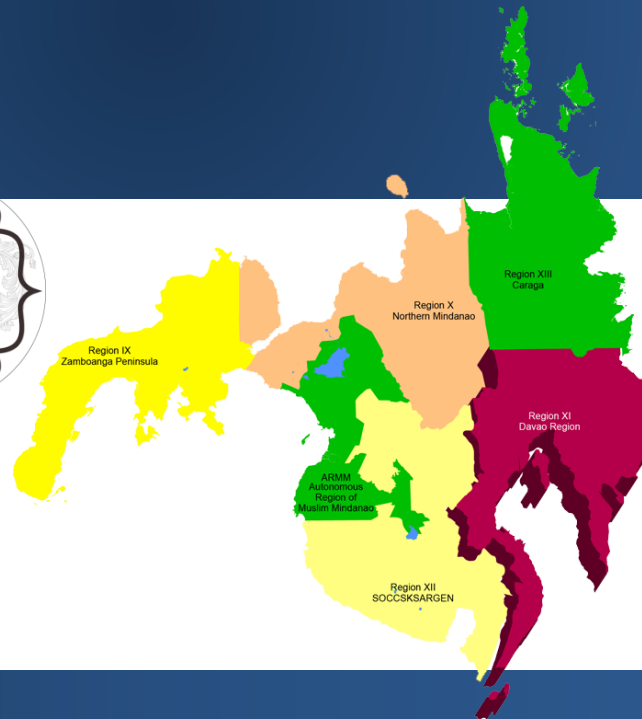


Cleaner Production Assessment

Cleaner production is the continuous application of an integrated preventive environmental strategy to processes, products and services to increase efficiency and reduce risks to humans and environment



E. PACKAGING & LABELING SERVICES



PACKAGING AND LABELING SERVICES

Provision of technical assistance, consultancy, research and development and testing and analysis.

Services offered:

- ✓ Label design
- ✓ Package-product compatibility testing
- ✓ Nutritional analysis/ labeling
- ✓ Shelf-life testing
- ✓ Provision of toll packaging
- ✓ Consultancy
- ✓ Provision of generic packaging
- ✓ Package development



F. S&T TRAINING SERVICES

For firm-level, LGU, NGOs, public training, academe, potential entrepreneurs, etc. These training/ demonstrations/ seminar includes:



Soap making



Candle making



Food Additives



Meat processing



Wine making



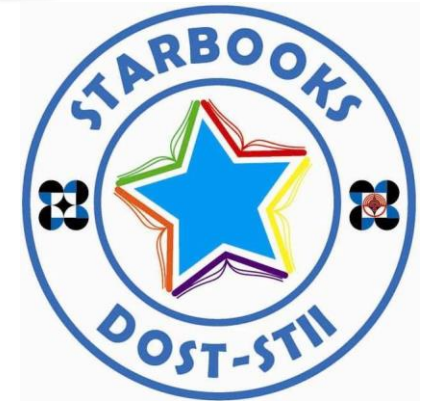
OTHER S&T SERVICES

STARBOOKS

Science and Technology Academic and Research Based Openly Operated Kiosks

STARBOOKS contains thousands of digitized science and technology resources in various formats (text and video/audio) placed in specially designed “pods” set in a user-friendly interface. Its special features are:

- It's a standalone Information kiosk, hence, information access is possible even without internet connection;
- Information available is read-only;
- It is a compendium of S&T information gathered from all over the world --- a one stop S&T information source; and
- It features videos dubbed “Tamang DOSTkarte Livelihood Videos” to stimulate every Filipino’s entrepreneurial capacity;



SCIENCE AND TECHNOLOGY SCHOLARSHIP



In response to the implementation of the K-12 Program, **R.A. 10612** aims to: strengthen the country's science and technology education by fast-tracking graduates in the sciences, mathematics and engineering who shall teach science and mathematics in secondary schools throughout the country;

The **R.A. 7687**, on the other hand, is awarded to poor, talented and deserving students who belong to families whose socio-economic status do not exceed the set values of certain indicators.

The **MERIT** Scholarships are awarded to students with high aptitude in science and mathematics and are willing to pursue careers in the fields of science and technology.

After graduation, the scholar shall be given opportunity for job placement in high schools in the country, be employed with a position equivalent to Special Science Teacher I in the Philippine Science High School System; and be given one-time relocation allowance should he/she be assigned in a place other than the permanent residence.



SCIENCE AND TECHNOLOGY SCHOLARSHIP

B. Scholarship Privileges	RA 10612	RA 7687	MERIT	
Tuition and other school fees	P10,000.00/semester or P8,000.00/trimester	P10,000.00/semester or P8,000.00/trimester	P10,000.00/semester or P8,000.00/trimester	
Book Allowance	P10,000.00/year	P10,000.00/year	P10,000.00/year	
Group Insurance	Premium	Premium	Premium	
Transportation Allowance <i>(for those studying outside of home province)</i>	1 economy-class roundtrip fare	1 economy-class roundtrip fare	1 economy-class roundtrip fare	
Monthly Living Allowance • For BS Physics / Applied Physics / Physics Teaching / Geology / Mining Eng'g./ Agriculture / Fisheries	P6,000.00/mo.	P6,000.00/mo.	Full	P6,000.00/mo.
			Partial	P4,150.00/mo.
• Other DOST-SEI priority courses	P5,000.00/mo.	P5,000.00/mo.	Special	P3,825.00/mo.
			Full	P5,000.00/mo.
			Partial	P3,400.00/mo.
Special	P3,200.00/mo.			
Summer Allowance <i>(if required per curriculum)</i> • Tuition and other school fees	P1,500.00	P1,500.00	P1,500.00	
• Book Allowance	P500.00 <i>(to submit O.R.)</i>	P500.00 <i>(to submit O.R.)</i>	P500.00 <i>(to submit O.R.)</i>	
• Monthly Allowance	2 months	2 months	2 months	
Post-graduation clothing allowance	P1,000.00	P1,000.00	P1,000.00 <i>(full scholars only)</i>	





OneLab

One Laboratory. Worldwide.



<http://onelab.ph>

Agency Services

A facility provided for customers to have an initial idea on the pricing for the desired tests and/or calibration in a specific agency.

Quotation Request

Serves as an online information center that provides detailed instructions to customers for their test and calibration requirements.

Result Tracker

A facility provided for customers to determine a real-time tracking of status for tests and/or calibration requested.



✓IT-based project that broadens public access to testing services of all DOST laboratories at a single touch point.

✓It integrates all DOST laboratories and services from across the country on a single platform that effectively allows for seamless handling of samples: from receiving, referral, transport, analysis to the prompt delivery of results.

✓Analyses included are those for water quality, food integrity and microbiological tests, calibration for weights and volumes.

✓In other words, ***you can drop off your samples for analysis in any of the regional DOST Laboratory and they will take care of it regardless of whether the analysis will be done in that particular laboratory or elsewhere.***





- ✓ E-commerce Web Application that operates nationwide and caters primarily to Philippine consumers.
- ✓ oneSTORE helps the Department of Science and Technology's assisted MSMEs widen the scope of their target market.
- ✓ It can help deliver economic growth and increase business opportunities.
- ✓ oneSTORE **provides customers with an effortless shopping experience and retailers with simple and direct access to the largest customer base in the Philippines.**



DELIVERY SERVICE

oneSTORE provides secured and convenient delivery system through our partner Logistics....



CUSTOMER SERVICE

oneSTORE provides customer service to our beloved customers until they are fully satisfied with the Service...



MONEY-BACK

oneSTORE provides 5 days money-back guarantee. Just let our Logistics know about your concern...





DEPARTMENT OF SCIENCE AND TECHNOLOGY

One Expert is an ***interactive web-based nationwide pool of S&T experts intended to provide technical advise and consultancy services to Filipinos anywhere they are in the Philippines.***

OneExpert is intended to ***improve access*** to experts and technologies particularly by people living outside of the major urban centers where most research and technical institutions are located. In the same manner, One Expert will likewise bring the services of any accredited expert located anywhere in the Philippines to clients that need S&T assistance.



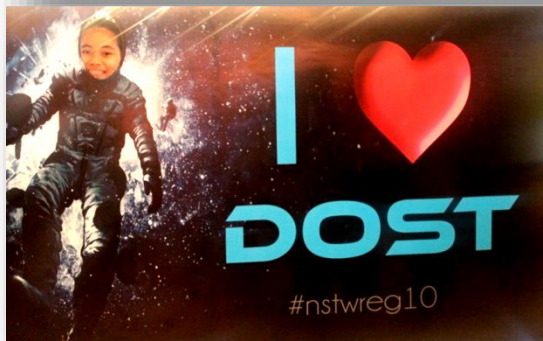
OneExpert seeks to achieve the following:

- ✓ Establish a nation-wide network of S&T experts.
- ✓ Significantly improve access to experts and technologies.
- ✓ Encourage involvement of local scientists, researchers, engineers, inventors and other technical people from both the public and private sectors in addressing S&T problems of the country.
- ✓ Encourage information and knowledge sharing among local scientists and researchers.
- ✓ Enhance the use of ICT in the delivery of government programs, projects and services.



S&T Promotion

The objective is to promote the Science, Technology and Innovation (STI) culture.



DOST “SCIENCE FOR CHANGE” PROGRAM

A. Program Expansion

1. Health Self Sufficiency

- Drug discovery and development;
- Diagnostics development
- Biomedical engineering

2. Renewable Energy

Solar; Ocean; Wind; Hydro; Biomass; Energy Storage

3. Nuclear Science for Energy, Health and Agriculture

4. Climate and Environment Sciences

- Disaster risk reduction
- Models downscaled to specific locations
- Resilience in different sectors



DOST “SCIENCE FOR CHANGE” PROGRAM

A. Program Expansion

5. Food and Nutrition

- Innovative Food Products
- Affordable nutrition intervention
- Focus on first 1000 days of the young

6. Agricultural Productivity

- Farm mechanization
- High-yielding hybrids
- Disease prevention and control

7. Biotechnology for Industry, Agriculture, Health and Environment



DOST “SCIENCE FOR CHANGE” PROGRAM

B. New Programs

8. Defense and Security R&D
9. Strengthening of R&D and S&T Services in the Regions through
 - Infrastructure (R&D Centers)
 - Facilities
 - HRD
 - R&D funding
10. Space Technology and ICT Development
 - New satellites (Apo, Mayon and Makiling after Diwata)
 - Rural communications (digital inclusion)
11. S&T for Creative Industries, Tourism Industry and Services Industry
12. Artificial Intelligence: From HRD to R&D to Industry
13. Technology Business Incubation



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*Thank
You*

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