Feedback Report on the Technology Transfer Day

Thursday, April 28, 2016 11:42 AM

The DOST held its 1st Technology Transfer Day last 27 April to bring together technology generators, research institutions, investors, and stakeholders in order to forge partnerships and technology transfer deals between industry players and DOST's leading innovators. It was an opportunity for the local researchers and scientists to showcase the market-ready technologies they developed that are geared towards agricultural productivity, industry competitiveness, disaster risk reduction, and quality healthcare.

Possible partnership entry points:

I. Microenterprise Development

A. Agriculture

- ✓ **Hand tractor attachments (Harvester and Transplanter)**
  Rice transplanting and harvesting implements that can be readily mounted to and dismounted from the hand tractor to increase the utilization of hand tractor in farm areas and reduce the cost of farm level mechanization.
- ✓ **Compact Impeller Rice Mill**
  Upscaling the harvests of our program participants who are engaged in agro-enterprises through technological interventions such as Compact Impeller Rice Mill that allows the regular production of white rice on continuous operation, and brown rice on-demand or order basis through minor adjustments at the flick of a switch / knob

We have set an exploratory meeting on May 5, 1:30 PM regarding possible collaboration of DSWD and Technology Application and Promotion Institute (TAPI) on livelihood opportunities. Ms. Nora P. Gumia, Chief Science Research Specialist of DOST (TAPI), and Ms. Daryl Barrera have been initially coordinating with Sir Luis.

B. Industry Competitiveness through Food Innovations

- ✓ Food Products and Processing
- ✓ Food Innovation Center (FIC)
  FIC strategies of engagement (through their respective Regional Offices' counterpart operational schools):
  - Equipment rentals
  - Packaging
  - Product development
  - Product conceptualization
- ✓ Food and Nutrition Research Industry (FNRI)

(Please refer to the attached food concepts / food product developments)

TAPI has a Technology-Based Enterprise Development (TBED) Program which aims to shorten the lag time between development and utilization of available technologies by providing funding assistance for the fabrication and testing of prototypes.

Vianca mentioned that she has encountered SEA-K Associations in Region X who were able to have their food products tested by DOST. Through the TBED program, DOST can evaluate the acceptability or applicability of the product prior to full-scale production / commercialization.

II. Employment Facilitation

A. Transportation and Technology Services

Charging in Minutes (CharM)- Rapid Electric Vehicle Charging

A locally developed facility that can charge e-vehicles in less than 30 minutes. It is similar to a gasoline station where owners can recharge their e-vehicles.

It was named the 2015 Most Outstanding R&D Award under the Energy, Utilities, and Systems Category.

The conceptualization started in 2013. In 2014, one unit of the CharM has been completed and is operational in Mandaluyong.

3,000 e-trykes are currently in their pre-commercialization stage and are projected to be in full swing by June 2016. In addition, 100,000 e-trykes are targeted to be operational by 2018.

- ✓ DSWD SLP program participants may be employed as e-tryke drivers thru a partnership with DOST. They can link us to their industry partners whom they have sealed licensing agreements with.

- ✓ Another would be, although this may be far-fetched, DOST can provide / loan a CharM unit for SLP participants - especially those residing near tourist spots - to provide them with sustainable livelihood

For more information on CharM, please see these references: http://www.dost.gov.ph/knowledge-resources/news/34-2014-news/613-dost-bats-on-rapid-charging-station-for-e-vehicles

http://pcieerd.dost.gov.ph/images/downloads/presentation_materials/pcieerd4thanniversary/session_b/3_CharM_Presentation_PCIEERD_Anniversary.pdf

B. Employment through the Agricultural Productivity and Countryside Development technologies

- Year-round production of mangoes (Jacinto Farms)
- Philippine Textile Research Institute (PTRI)-Developed Natural Dyes Technologies

Reviving the use of natural dyes with the use of scientific methods and techniques as an alternative to harmful synthetic dyes.

III. Capacity Building / Knowledge Management

DOST Starbooks - The First Philippine Science Digital Library
An S&T information resource where the materials are sourced out from local and foreign linkages, subscription, archive collections, and in-house publications. It contains thousands of digitized science and technology resources which they update quarterly.

One of the goals of Starbooks is to encourage great and curious minds to develop new ideas, to innovate, and to inspire one's capacity for entrepreneurship and research for socio-economic development.

Since it is an offline tool, the offline resources are readily available especially to remote areas who have little to zero internet connection. There are instructional videos such as *Pag-aalaga ng Kambing at Baboy* which may aid our program participants in their microenterprises.

Another far-fetched idea would be for our best practices (from the SM/KM Unit) be uploaded into the Starbooks software. This way, information reach will be expanded and DSWD SLP best practices will be shared throughout the Philippines.

Next steps:

Meeting with TAPI on May 5
Agenda:

1. Partnership entry points (Livelihood - agriculture, food innovations)
2. SLP Associations may undergo the TBED program
3. Suggest an MOU / MOA for all possible engagements with DOST