

# **Philippine Council for Health Research and Development: Joint Research and Development with the Private Sector in Health**

Department of Science and Technology



# Process of PPP in R and D

- **Generation of the National R and D Agenda**
- **Identification of need by government possibly addressed by technology**
- **Engagement of potential partners with shared interest**
- **Mutually beneficial arrangements between the government and the private sector with sharing of manageable risks**
- **Co-investment between government and private sector on R and D**
- **Dissemination of technology to the market with government as one of the clients**

# Diagnostics R&D Program

## Dengue detection kits:

### ✚ Biotek M

- can be used at the onset of fever
- can detect all four dengue serotypes
- affordable (6-10x cheaper than PCR)
- gives results faster (<1 hour compared to 3-5 days for PCR)
- the lyophilized version is for testing on a larger number of cases to establish its sensitivity and specificity

### ✚ Point of care kit – currently undergoing stability testing and validation

*Next steps:*

Policy recommendation and commercialization/ utilization

# Hospital Equipment and Biomedical Devices R&D Program

Developed safe, affordable, and reliable biomedical devices such as:



Commercially-available  
since July 2015

- + The first knee system designed, developed and manufactured in Southeast Asia
- + Costs 50% less than imported knee systems in the market
- + Surgeons can learn to use the system after only 5 days training, no need to undergo one year fellowship
- + Almost 80 surgeons now trained to use the system

# Hospital Equipment and Biomedical Devices R&D Program



- ✚ Capable of measuring BP, pulse oxygen level, uterine contraction, temperature, and heart rate
- ✚ Deployed in **156** GIDA sites nationwide

- ❑ 1,000 units to be made available over the next 2 years
- ❑ Spin off company to be established



**Thank You Very Much**